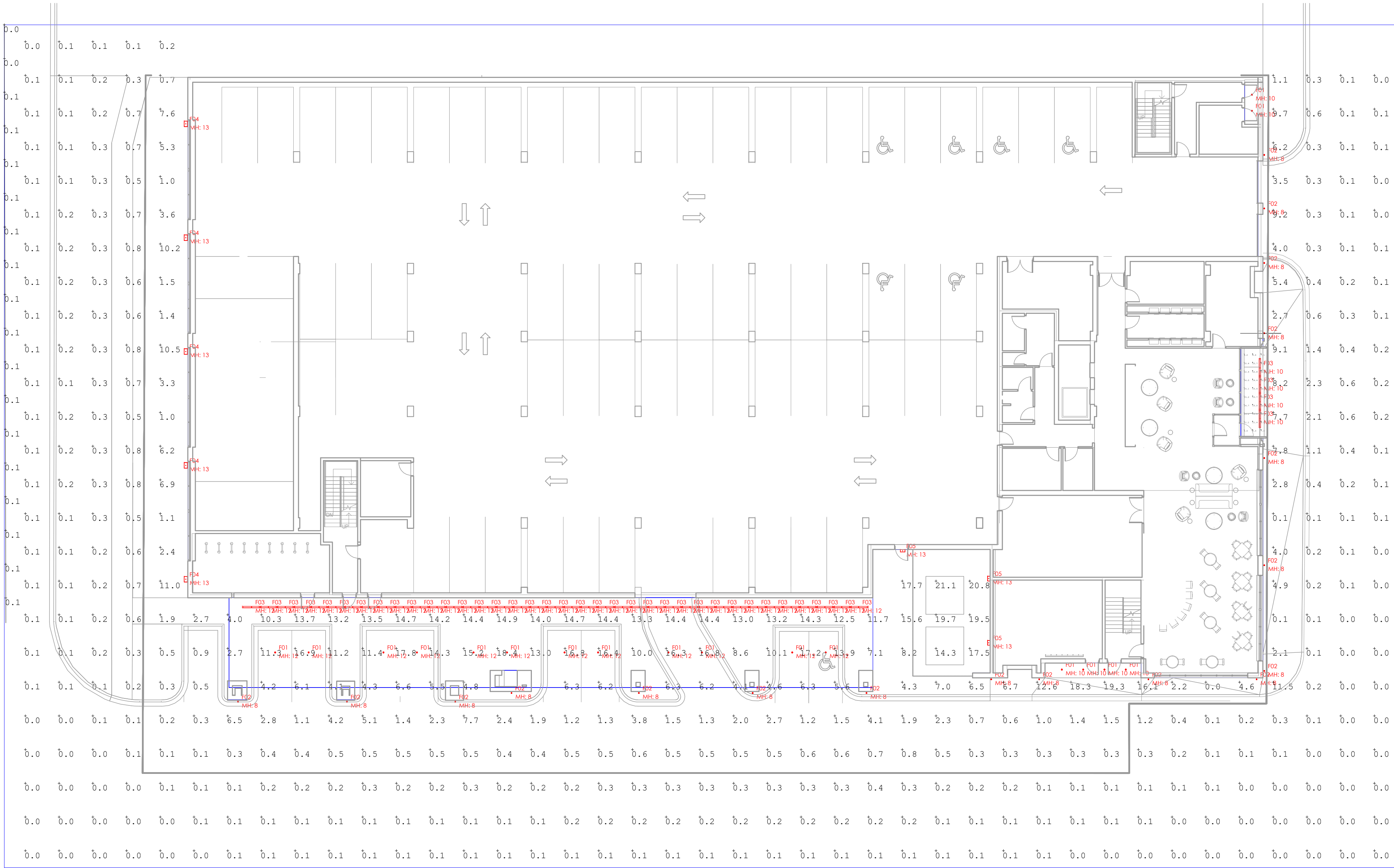


NOTES
PG-ENLIGHTEN IS NEITHER LICENSED NOR INSURED TO DETERMINE CODE COMPLIANCE. CODE COMPLIANCE REVIEW BY OTHERS.
FIXTURE TYPES AND QUANTITIES BASED ON PROVIDED LAYOUT AND DRAWINGS ARE FOR REFERENCE ONLY. TYPES AND QUANTITIES MAY CHANGE WITH FUTURE REVISIONS.
FIXTURE TYPES AND QUANTITIES MAY CHANGE BASED ON UNKNOWN OBSTRUCTIONS OR FIELD CONDITIONS. THESE CHANGES MAY RESULT IN AN INCREASED QUANTITY OF FIXTURES.
RENDER IMAGES ARE NOT TO SCALE AND PROVIDED SOLELY TO ILLUSTRATE CONTRAST

Luminaire Schedule								
Symbol	Qty	Tag	Manufacturer	Label	Arrangement	Total Lamp Lumens	LLF	Description
	18	F01	LEDRA BRANDS	NU4-RD-SW-20LM-30K-80-HET60-WH-WH	Single	N.A.	0.900	NU4-RD-SW-20LM-30K-80-HET60-WH-WH
	18	F02	Insight Lighting	SSM_MO_40k_55	Single	N.A.	0.450	SSM_MO_40k_55° WM_UNV_DIM
	41	F03	Focal Point, LLC	FSM4LWLS-AS-275LF-35K-1C-UNV-	Single	N.A.	0.900	FSM4LWLS-AS-275LF-35K-1C-UNV-XXX-XX-XX-WH-4FT
	5	F04	BEACON - HOL - CURRENT	RFL3-90L-50-4K7-M-UNV-K-FINISH	Single	N.A.	0.900	RFL3-90L-50-4K7-M-UNV-K-FINISH
	3	F05	BEACON - HOL - CURRENT	TRP2-D-50-4K7-FT	Single	N.A.	0.900	TRP2-D-50-4K7-FT

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Asphalt_Planar	Illuminance	Fc	2.56	21.1	0.0	N.A.	N.A.
Pedestrian Ramp	Illuminance	Fc	N.A.	N.A.	N.A.	N.A.	N.A.
RESIDENTIAL PROP LINE	Illuminance	Fc	0.09	0.1	0.0	N.A.	N.A.

LIGHTING SCHEDULE AND SUMMARY: NTS



SITE ILLUMINATION CALC - 1/16" = 1'-0"



PROJECT NAME:
ARLINGTON HEIGHTS MULTI-FAMILY

CLIENT NAME:
OKW Architects

PG CONTACT:
BRADY SCHENKEL
brady.schenkel@pg-enlighten.com
260.519.0867

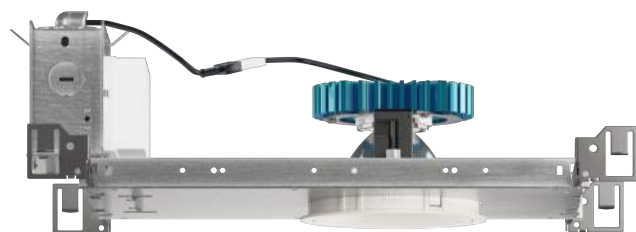
DRAWN BY:
ERIC SISCO
eric.sisco@pg-enlighten.com
913.488.3072

REVISIONS

REV1	REV2	REV3
1	2	3
08/01/23	08/29/23	

LIGHT FIXTURE SCHEDULE							
REFER TO PRODUCT SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION - SPECIFIER TO CONFIRM PRODUCT NUMBERS							
TYPE	DESCRIPTION	MANUFACTURER	PRODUCT NUMBER	WATTS	DIMMING TYPE	NOTES	CONTACT PERSON
F01	4" Recessed Round	Alphabet EcoNU 4" RD	NU4-RD-SW-20LM-4K-80-HET60-WH-WH-IC -UNV-DIM10	16	0-10V		BRADY SCHENKEL brady.schenkel@pg-enlighten.com 260-519-0867
			https://alphabetlighting.com/home/product/nu4rd/				
F02	Sconce	Insight Lighting Scope Medium Sconce	SSM-DN-LO-NA-NA-4k-55°-WM-UNV-DIM- TBL	10	0-10V	FINSISH - Per Arch	BRADY SCHENKEL brady.schenkel@pg-enlighten.com 260-519-0867
			https://insightlighting.com/products/scope-medium-sconce-wl/				
F03	4" Wet surface Asymetric Linear	Focal Point Seem 4	FSM4LWLS-AS-275LF-4K-1C-UNV-LD1-SM-WH- LENGTH	2.4 / FT	0-10V	LENGTH - Per drawings	BRADY SCHENKEL brady.schenkel@pg-enlighten.com 260-519-0867
			https://www.focalpointlights.com/products/surface-mount-suspended-linear/seem-4-led-direct-suspend				
F04	Area Flood	BEACON - HOL - CURRENT RFL3 Ratio Floodlight	RFL3-90L-50-4K7-M-UNV-K- BLT	50	0-10V	FINSISH - Per Arch	BRADY SCHENKEL brady.schenkel@pg-enlighten.com 260-519-0867
			https://www.currentlighting.com/outdoor-lighting/rfl2-ratio-floodlight/3236081				
F05	Wall Area Flood	BEACON - HOL - CURRENT TRP2 GeoPak	TRP2-D-50-4K7-FT-UNV- BL	50	0-10V	FINSISH - Per Arch	BRADY SCHENKEL brady.schenkel@pg-enlighten.com 260-519-0867
			https://www.currentlighting.com/outdoor-lighting/trp2-geopak/2518916#documents				
GENERAL NOTES							
CONTRACTOR TO VERIFY QUANTITIES & LENGTH AND VERIFY FIELD AND SPECIFIED INFORMATION AS REQUIRED							
SCHEDULE IS PROVIDED FOR REFERENCE ONLY – SEE ISSUED CONTRACT DRAWING SET FOR FINAL INFORMATION							
ALL MOUNTING LOCATIONS AND CONDITIONS PER ARCHITECTURAL SET							
CATALOG NUMBERS IN RED TO BE CONFIRMED BY PURCHASER AND MAY ALTER PRICING OR LEAD TIMES							
INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE FROM MANUFACTURERS							

4" Round Downlight Standard White



Trim



Trimless



Trimless Millwork

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

30° - 70° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	800LM @30K/80CRI	9W
15LM	1200LM @30K/80CRI	14W
20LM	1600LM @30K/80CRI	16W
25LM	2000LM @30K/80CRI	20W
30LM	2400LM @30K/80CRI	24W
35LM	2620LM @30K/80CRI	28W
40LM	3000LM @30K/80CRI	32W
10LM	670LM @30K/90/CRI	9W
15LM	1010LM @30K/90/CRI	14W
20LM	1350LM @30K/90/CRI	16W
25LM	1700LM @30K/90/CRI	20W
30LM	2020LM @30K/90/CRI	24W
35LM	2210LM @30K/90/CRI	28W
40LM	2500LM @30K/90/CRI	32W
Notes	Delivered lumens based on WH70 optic with no lens, (see page 2)	

10° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	740LM @30K/80CRI	9W
15LM	1145LM @30K/80CRI	14W
20LM	1525LM @30K/80CRI	16W
25LM	1900LM @30K/80CRI	20W
30LM	2285LM @30K/80CRI	24W
10LM	620LM @30K/90/CRI	9W
15LM	960LM @30K/90/CRI	14W
20LM	1280LM @30K/90/CRI	16W
25LM	1605LM @30K/90/CRI	20W
30LM	1900LM @30K/90/CRI	24W
Notes	Delivered lumens based on S10 optic with no lens, (see page 2)	



FEATURES

- Thermally optimized for LED longevity
- 3/4" bezel regress with 1/16" micro flange
- 10° - 70° optical beam control
- UGR < 15
- Multiple mounting, glare control options, trims, and finishes available

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX dim to zero
- Lutron Hi-lumen 2-Wire (Triac and Eco System) dimming
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi bluetooth dimming to 0.1%
- NLight control interface dimming to 0%

CONSTRUCTION

- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless BLE signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs

LISTING

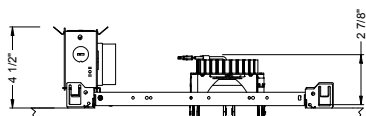
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- Made in the USA - meets the requirements of the Buy American provision within the ARRA
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

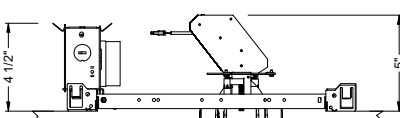
- 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT

10LM-30LM LOW LUMENS



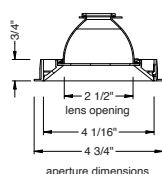
40LM HIGH LUMENS



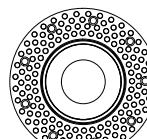
TRIMMED



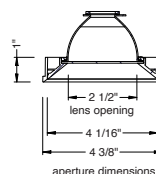
ceiling cutout
4-3/8" diameter
ceiling thickness
1/8" to 1-5/8"



TRIMLESS



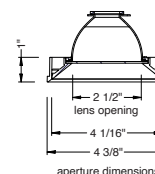
ceiling cutout
4-1/2" diameter
ceiling thickness
3/8" to 1-3/4"



MILLWORK



ceiling cutout
4-3/8" diameter
ceiling thickness
1/2" to 1-3/4"



PROJECT INFORMATION			
JOB NAME			TYPE
ORDERING CODE			

30°- 70° BEAM ORDERING CODE												
SERIES	NU4	NU4										
TYPE	RD	round downlight										
	RDT	round downlight trimless										
	RDTMW	round downlight trimless millwork										
LED	SW	standard white										
DELIVERED LUMENS	10LM	800 lm										
	15LM	1200 lm										
	20LM	1600 lm										
	25LM	2000 lm										
	30LM	2400 lm										
	35LM	2800 lm										
	40LM	3000 lm										
	Standard Configuration: 3000K 80CRI WH70 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]											
CCT	27K	2700K	CCT		2700K		3000K		3500K		4000K	
	30K	3000K	CRI		80+	90+	80+	90+	80+	90+	80+	90+
	35K	3500K	CCT MULTIPLIER FOR LUMEN OUTPUT		0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91
	40K	4000K										
CRI	80	80 CRI										
	90	90 CRI										
OPTIC & LM MULTIPLIER SEE PAGE 4	HE40	40° high efficiency diffused lens (0.96)										
	HE60	60° high efficiency diffused lens (0.96)										
	HE70	70° high efficiency diffused lens (0.92)										
	HET30	30° high efficiency textured lens, similar to Solite™ (0.97)										
	HET40	40° high efficiency textured lens, similar to Solite™ (0.87)										
	HET60	60° high efficiency textured lens, similar to Solite™ (0.92)										
	HET70	70° high efficiency textured lens, similar to Solite™ (0.97)										
	SS30	30° semi-specular with clear lens (0.90)										
	SS40	40° semi-specular with clear lens (0.82)										
	SS60	60° semi-specular with clear lens (0.94)										
	D40	40° diffused with clear lens (0.86)										
	D50	50° diffused with clear lens (0.90)										
	D60	60° diffused with clear lens (0.90)										
	WH70	70° brilliant white with clear lens (1.00)										
	10° narrow beam angle, see page 3 for details.											
ACCESSORY SEE PAGE 4	HCL ¹	honeycomb louver										
	Attached to bezel											
BEZEL LENS SEE PAGE 4	NL ^{2,3}	no lens (1.00)										
TRIM COLOR SEE PAGE 4	BK	black										
	WH	white										
	MC	matte chrome										
	BZ	bronze										
	WT	wheat										
Not applicable to trimless option. Do not include in trimless ordering code.												
BEZEL COLOR SEE PAGE 4	BK	black (0.98)										
	WH	white (1.00)										
	MC	matte chrome (0.99)										
	BZ	bronze (0.98)										
	WT	wheat (0.99)										

30°- 70° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 7, 8	NC	new construction with ceiling fitting plate
	IC ⁴	insulation contact housing
	ICAT ⁴	insulation contact/airtight housing
	CP ⁴	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	I20	120V
	UNV	120V-277V
DIMMING	DIM10	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI dimming to 1%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	DMXZ	DMX dim to zero
	LTE ⁵	Lutron Hi-lume 2-Wire (Triac) dimming to 1%
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP ⁶	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELVI ⁵	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%
ELECTRICAL OPTIONS	CAS	Casambi Bluetooth control with flicker free 0.1% dimming
	EM7 ⁷	emergency battery backup, 90 minutes at 7W to LED
	EM12 ^{7,8}	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20 ⁷	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20

ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	<i>Extends a pair of Bar Hangers</i> Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU4 - RD - SW - 20LM - 35K - 90 - D40 - NL - WH - WH - NC - UNV - DIM10 - EM7

- NOTES
- HCL not available with lens. Multiplier: Delivered Lumens (0.78) / Beam Spread (0.80).
 - NL option does not meet requirement for AT/DF/WET/NSF listings.
 - NL option available for SS30/SS40/SS60/D40/D50/D60/WH70.
 - IC/ICAT/CP not available in 35LM/40LM.
 - ELVI/LTE (120V) not available 10LM.
 - LUTP not available in 25LM/30LM/40LM.
 - For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.
 - EM12 not available in 10LM.
- *EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

10° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 7, 8	NC	new construction with ceiling fitting plate
	IC ³	insulation contact housing
	ICAT ³	insulation contact/airtight housing
	CP ³	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	I20	120V
	UNV	120V-277V
DIMMING	DIM10	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI dimming to 1%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	DMXZ	DMX dim to zero
	LTE ⁴	Lutron Hi-lume 2-Wire (Triac) dimming to 1%
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP ⁵	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 ⁴	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%
CAS	Casambi Bluetooth control with flicker free 1% dimming	
ELECTRICAL OPTIONS	EM7 ⁶	emergency battery backup, 90 minutes at 7W to LED
	EM12 ^{6,7}	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20 ⁷	emergency battery backup, 90 minutes at 10W to LED, CA title 20

ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	<i>Extends a pair of Bar Hangers</i> Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE	
Follow the steps to specify your fixture, example:	
NU4 - RD - SW - 20LM - 35K - 90 - S10 - NL - WH - WH - NC - UNV - DIM10 - EM7	

1. HCL not available with lens. Multiplier: Delivered Lumens (0.78) / Beam Spread (0.80).
2. NL option does not meet requirement for AT/DF/WET/NSF listings.
3. IC/ICAT/CP not available in 25LM/30LM.
4. ELVI/LTE (120V) not available 10LM.
5. LUTP not available in 25LM/30LM.
6. For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.
7. EM12 not available in 10LM.

*EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

ACCESSORY

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
S10	10	5
SS30	24.5	5
SS40	35.7	5
SS60	47.2	5
D40	33.4	5
D50	38.2	5
D60	49	5

HE

High Efficiency Diffused Lens



OPTIC	BEAM ANGLE	UGR
HE40	45.7	21.2
HE60	59.5	21.8
HE70	75.8	23.1

CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
S10	12.6	14.7
SS30	30.6	14.9
SS40	44.6	16.6
SS60	59	16.8
D40	41.8	16.2
D50	47.8	17
D60	61.2	17.7

HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
HET30	30	14.3
HET40	36.2	15.4
HET60	55.5	19.2
HET70	69.3	24.2

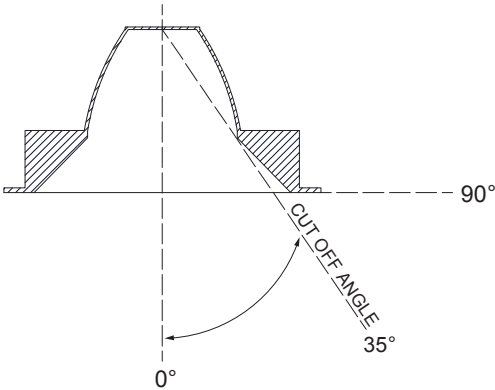
GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle of CL is 35 degrees;



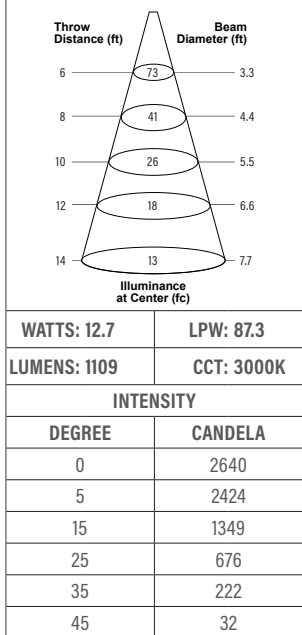
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

PHOTOMETRIC DATA

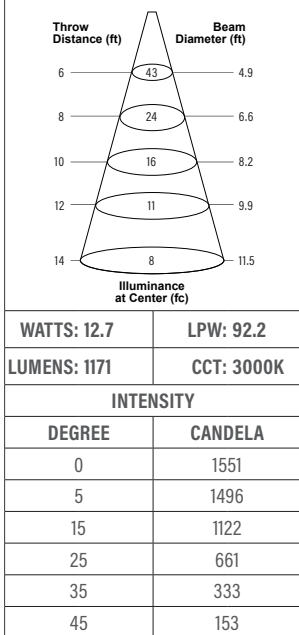
15LM CCT MULTIPLIERS

	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

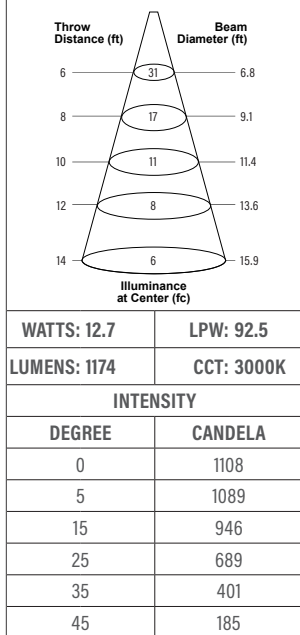
SS30 31° SEMI-SPECULAR WITH CLEAR LENS



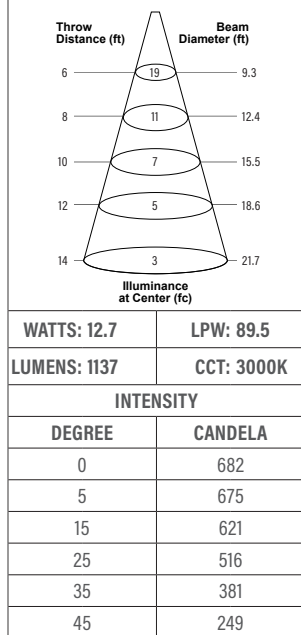
HE40 45° HIGH EFFICIENCY DIFFUSED LENS



HE60 59° HIGH EFFICIENCY DIFFUSED LENS



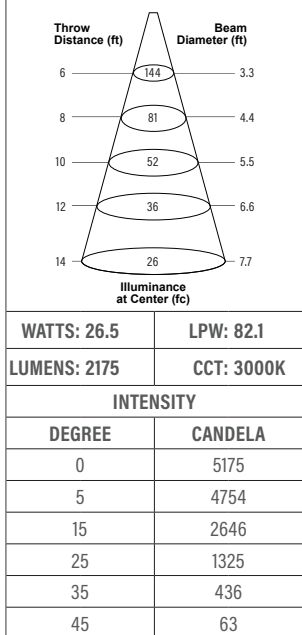
HE70 76° HIGH EFFICIENCY DIFFUSED LENS



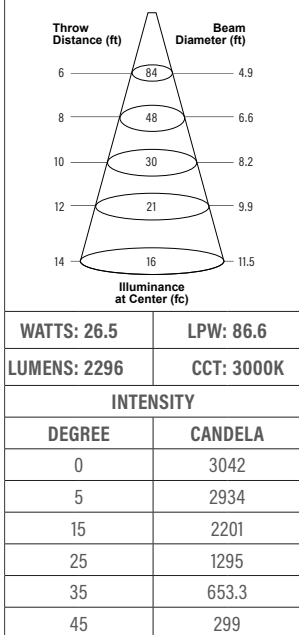
30LM CCT MULTIPLIERS

	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

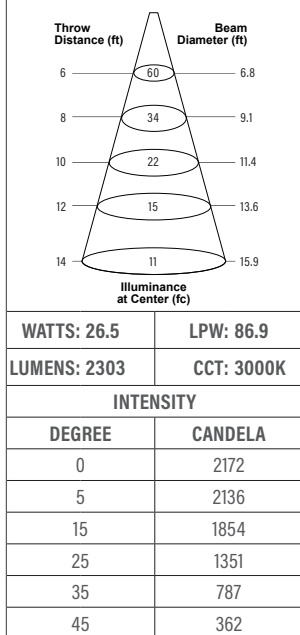
SS30 31° SEMI-SPECULAR WITH CLEAR LENS



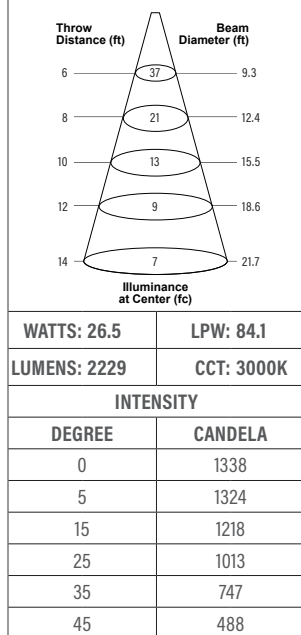
HE40 45° HIGH EFFICIENCY DIFFUSED LENS



HE60 59° HIGH EFFICIENCY DIFFUSED LENS



HE70 76° HIGH EFFICIENCY DIFFUSED LENS

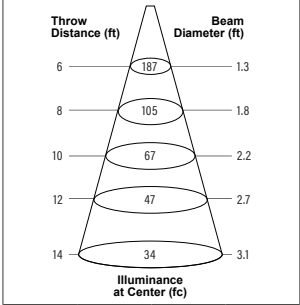


alphabet

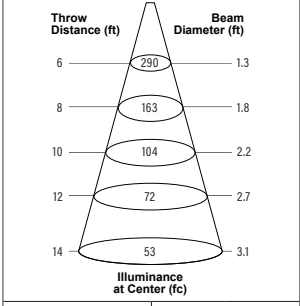
PHOTOMETRIC DATA

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

10LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

S10 12.5° SPECULAR WITH CLEAR LENS	
	
WATTS: 8.2	LPW: 90.1
LUMENS: 739	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	6747
5	4317
15	446
25	338
35	169
45	9

15LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

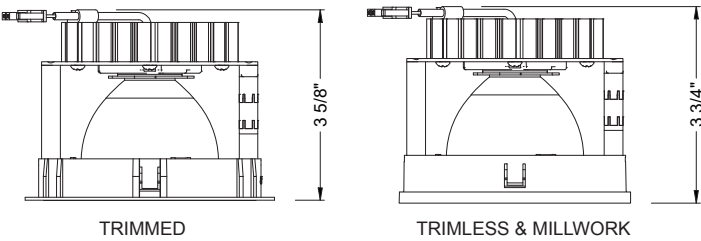
S10 12.5° SPECULAR WITH CLEAR LENS	
	
WATTS: 12.2	LPW: 93.7
LUMENS: 1143	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	10439
5	6680
15	690
25	523
35	261
45	14

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

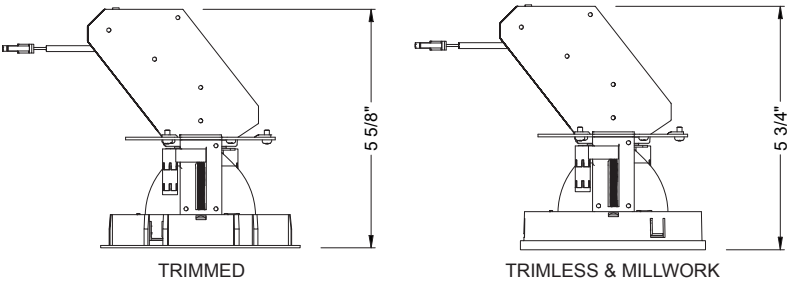
MOUNTING OPTIONS

FIXTURE HEIGHT

10LM-30LM CONFIGURATION

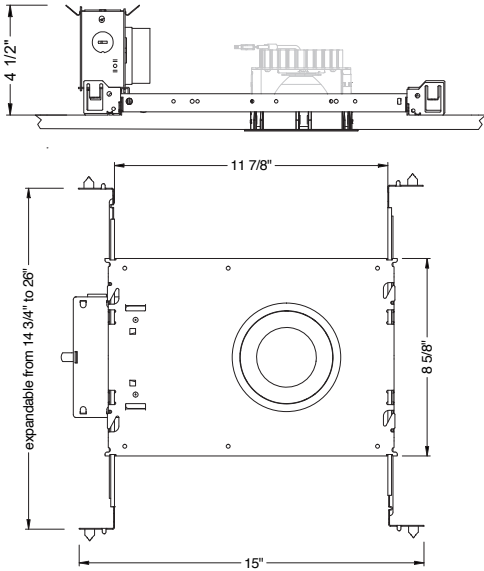


40LM CONFIGURATION

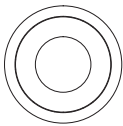


NC - NEW CONSTRUCTION

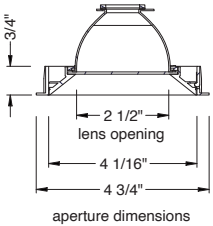
TRIM



TRIM

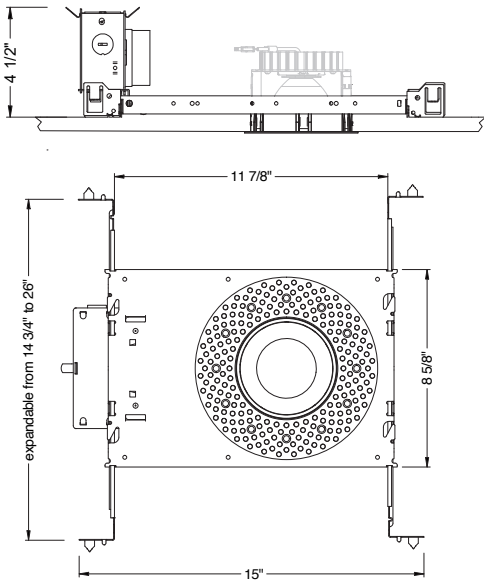


ceiling cutout
4-3/8" diameter
ceiling thickness
1/8" to 1-5/8"

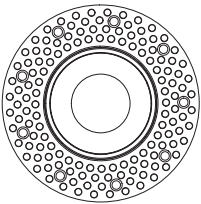


aperture dimensions

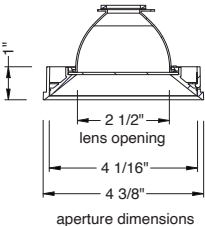
TRIMLESS



TRIMLESS

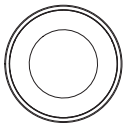


ceiling cutout
4-1/2" diameter
ceiling thickness
3/8" to 1-3/4"

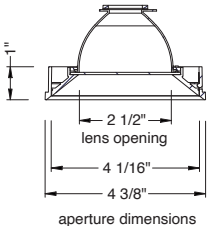


aperture dimensions

TRIMLESS/MILLWORK



ceiling cutout
4-3/8" diameter
ceiling thickness
1/2" to 1-3/4"

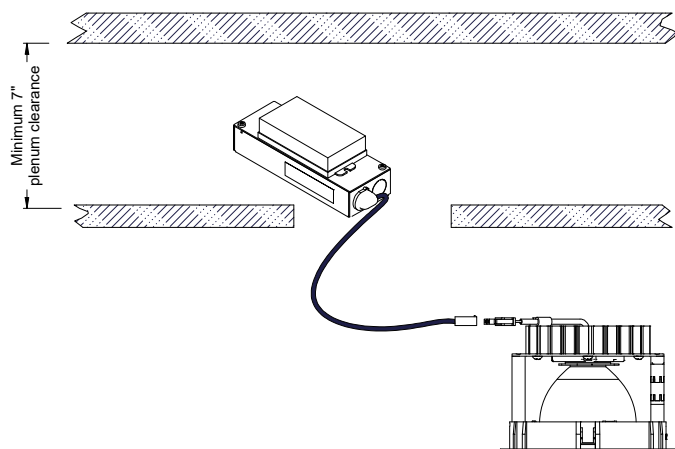


aperture dimensions

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

RET - RETRO TRIM/TRIMLESS



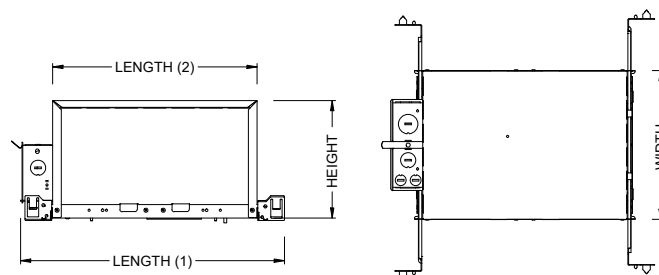
RATINGS / CERTIFICATIONS	NC	RET	IC	CP
TYPE NON-IC	✓	✓		
TYPE IC			✓	✓
CHICAGO PLENUM (CCEA)				✓
SUITABLE FOR AIR HANDLING PLENUMS	✓	✓	✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	NC, IC, ICAT, CP, RET
	STANDARD CEILING THICKNESS
TRIM	1/8" to 1-5/8"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"

IC - INSULATION CONTACT HOUSING

ICAT - INSULATION CONTACT / AIR TIGHT

CP - CHICAGO PLENUM



BOX SIZE	L1	L2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (10°)					
LUMEN OUTPUT	BOX - A		BOX - B		
	IC	CP	IC	ICAT	CP
10LM	✓	✓			
15LM	✓	✓			
20LM			✓	✓	✓
25LM					
30LM					

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (30° - 70°)					
LUMEN OUTPUT	BOX - A		BOX - B		
	IC	CP	IC	ICAT	CP
10LM	✓	✓			
15LM	✓	✓			
20LM	✓	✓			
25LM	✓	✓			
30LM			✓	✓	✓
35LM					
40LM					

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

EMERGENCY BATTERY

IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The Constant Power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, Output Class 2 Compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes Two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements. Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminaires.

REMOTE TEST SWITCH

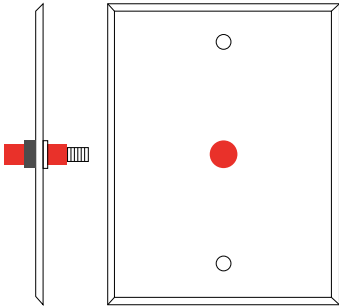
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

REMOTE LOCATION

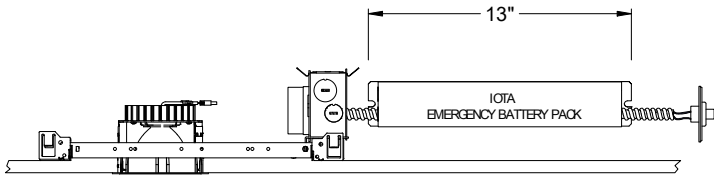
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



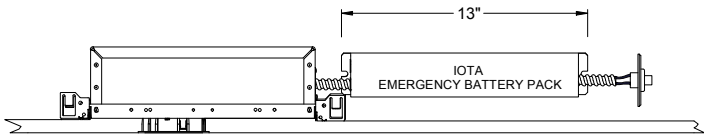
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	560LM	1000LM	1200LM
Notes: Based on 30K, 80CRI			

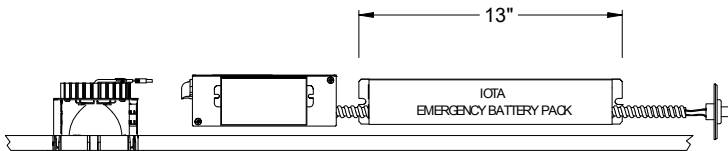
NC - NEW CONSTRUCTION WITH EM BATTERY (REMOTE TEST SWITCH)



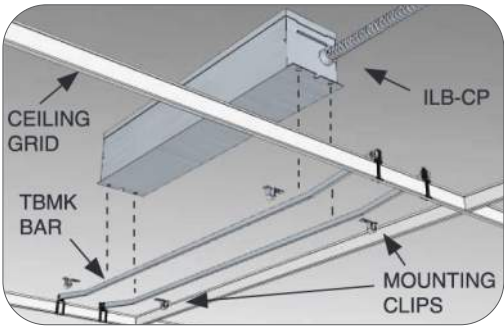
IC / ICAT / CP - INSULATION CONTACT HOUSING WITH EM BATTERY (REMOTE TEST SWITCH)



RET - RETROFIT WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory 76066 Optional T-Grid Mounting Kit²



2. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.

PROJECT:

TYPE:

CATALOG #: SSM -

-WM -

PROFILE

WATTAGE	LO (10.0W), MO (20.0W)
OPTICS	20°, 30°, 55°, ASYMMETRIC
CCT	2700K, 3000K, 3500K, 4000K (82 CRI)
CRI	82+ CRI
PERFORMANCE	UP TO 12457 PEAK CANDELA (20.0W)
VOLTAGE	120V OR 277V
POWER	INTEGRATED POWER SUPPLY
DIMMING	0-10V (DIMS DOWN TO 1%), DMX DIMMING
DIMENSIONS	10.00" X 3.00", 16.00" X 3.00"
HOUSING	EXTRUDED ALUMINUM HOUSING
LENS	TEMPERED GLASS
FINISH	HIGH DURABILITY POWDER COATING
WARRANTY	5-YEAR LIMITED
OPERATING TEMP	-30° C TO 50° C
LUMEN MAINTENANCE	84,000 HOURS
CERTIFICATION	ETL/cETL WET LOCATION, IP66, 3G MEETS ADA REQUIREMENTS



FIXTURES SHOWN:

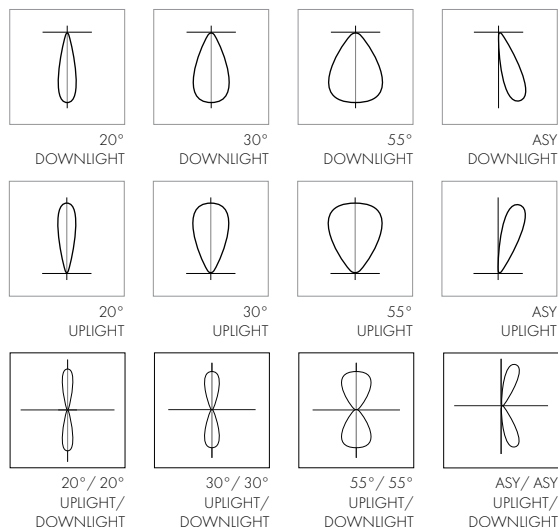
SSM-UD-MO-40K-30-UNV-DIM-WM-TBL

STANDARD FINISHES

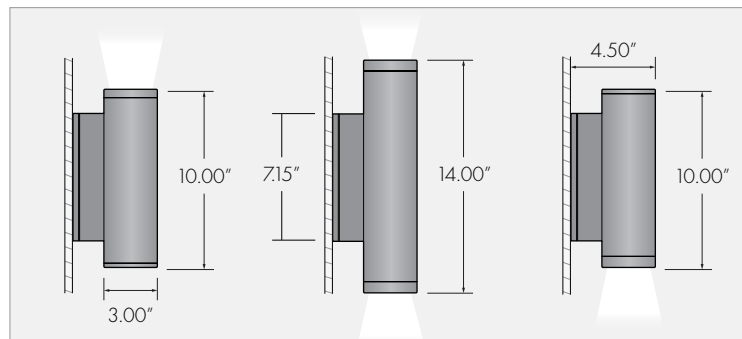


OPTICS

NOT ALL AVAILABLE OPTICS SHOWN



PROFILE



PROJECT:TYPE:CATALOG #: SSM - - - - - WM - - - - -

SPECIFICATION

SSM								WM							
1	2	3	4	5	6	7	8	9	10	11	12				
1 FIXTURE				6 CCT - DOWNLIGHT				8 MOUNTING				11 FINISH			
SCOPE MEDIUM SCONCE SSM				2700K 27K				WALL MOUNT WM				TEXTURED WHITE TW			
				3000K 30K								TEXTURED BLACK TBL			
2 LIGHT DIRECTION				3500K 35K				9 VOLTAGE				TEXTURED BRONZE TBR			
UPLIGHT UP				4000K 40K				120V 120				TEXTURED LIGHT BRONZE TLB			
DOWNLIGHT DN				NO SELECTION NA				277V 277				TEXTURED GRAY TG			
UPLIGHT AND DOWNLIGHT UD												TEXTURED SANDSTONE TS			
												CUSTOM COLOR CC			
												Contact factory for custom color - additional charges will apply			
3 WATTAGE				7 OPTICS - DOWNLIGHT				10 CONTROLS				12 OPTIONS			
LOW OUPUT LO				20° 20				NON-DIMMING NO				HIGH CRI, 90+ HCRI			
10 W IN EITHER DIRECTION				30° 30				0-10V DIMMING DIM				INTEGRAL HEX LOUVER IHL			
				55° 55				Dimms down to 1%				47% Light loss			
MEDIUM OUTPUT MO				ASYMMETRIC ASY				DMX DIMMING DMX				CORROSION RESISTANT CRF			
20 W IN EITHER DIRECTION				NO SELECTION NA				Requires DMX Distribution and Programming Kit see below				Corrosion Resistance Finish Complies with ASTM B117 standard			
								Dimming controls to be provided by others				CRF is recommended for coastal or extreme exterior environments			
4 CCT - UPLIGHT															
2700K 27K															
3000K 30K															
3500K 35K															
4000K 40K															
NO SELECTION NA															
5 OPTICS - UPLIGHT															
20° 20															
30° 30															
55° 55															
ASYMMETRIC ASY															
NO SELECTION NA															

CONTROL & WIRING OPTIONS

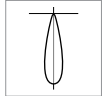
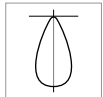
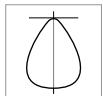
Go To DMX Guide >

DMX DISTRIBUTION AND PROGRAMMING KIT - REQUIRED FOR DMX DIMMING		RDM TOOL - OPTIONAL	
DMX/RDM DISTRIBUTION KIT (4 OUTPUTS) - IP67		DMX/RDM PROGRAMMING TOOL	
CDS-RDM		RDM	
DMX/RDM Distribution Kit consists of four outputs		DMX/RDM measurement and testing tool	
Each output is limited to one run per output - up to 32 fixtures max. If light direction is Uplight and Downlight, up to 16 fixtures max.		Allows for RDM addressing and monitoring of products that have RDM capability while also being able to test all elements of DMX data signals to ensure proper system operations	
Four terminators are included for end of line termination		Contact factory to order	

PROJECT:	TYPE:	CATALOG #:	SSM -	-	-	-	-	-	-	WM -	-	-	-
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PERFORMANCE

PERFORMANCE DATA

OPTIC	CCT	SINGLE DIRECTION LOW OUTPUT (10 W)			SINGLE DIRECTION MEDIUM OUTPUT (20 W)		
		DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA	DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA
20° 	4000K	1106 LM	99.6 LM/W	6755	2001 LM	104.3 LM/W	12457
30° 	4000K	1094 LM	98.5 LM/W	3132	1936 LM	101.0 LM/W	7961
55° 	4000K	1034 LM	93.2 LM/W	1290	1871 LM	97.7 LM/W	2379

WIRING

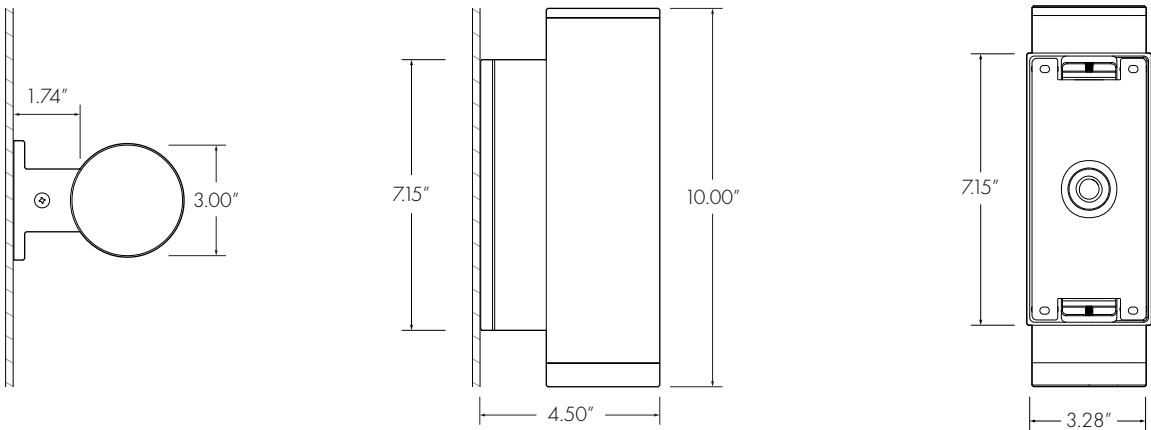
FIXTURES PER 10 AMP CIRCUIT (FULL LOAD)

FIXTURE	SINGLE DIRECTION LO		SINGLE DIRECTION MO		UPLIGHT & DOWNLIGHT LO		UPLIGHT & DOWNLIGHT MO	
	120V	277V	120V	277V	120V	277V	120V	277V
VOLTAGE	120	277	60	138	60	138	30	69

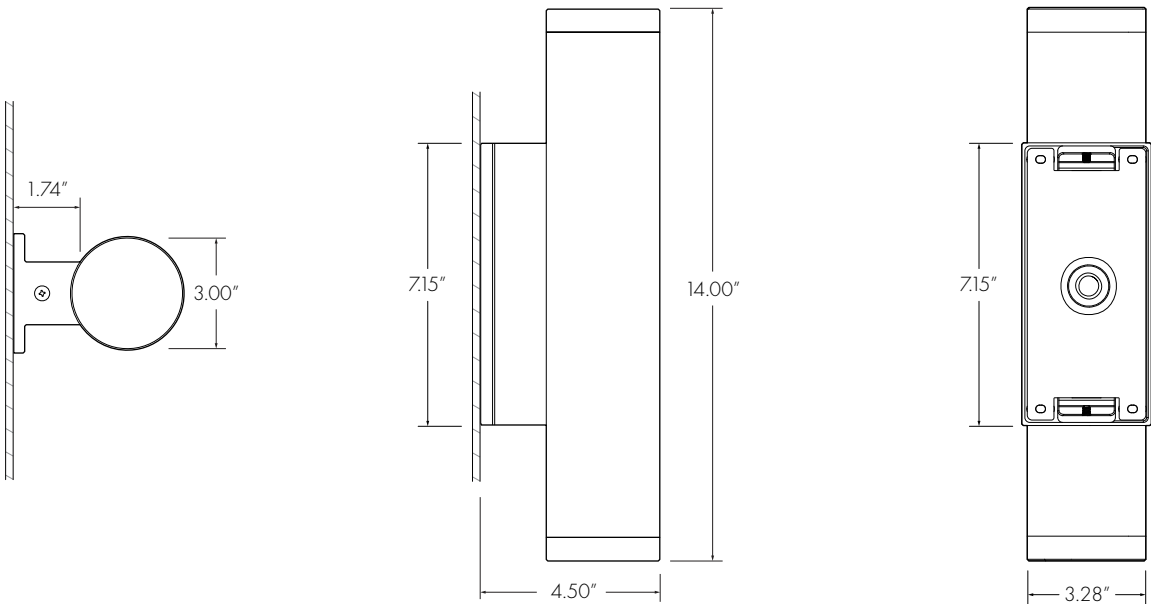
PROJECT:	TYPE:	CATALOG #:	SSM -	-	-	-	-	-	-	WM -	-	-	-
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FIXTURE DIMENSIONS

WM - WALL MOUNT (SINGLE DIRECTION)



WM - WALL MOUNT (UP AND DOWN)



Seem® 4

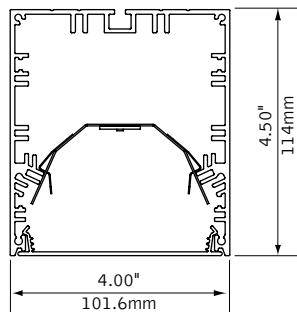
LED - SURFACE MOUNT | WET LOCATION



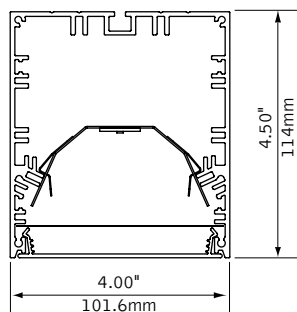
recessed
companion

DIMENSIONAL DATA

Individual Unit



Continuous Run



FEATURES

Narrow extruded aluminum 4" linear direct LED.

Individual units and continuous runs in 1' increments.

Available in flush, asymmetric, asymmetric room fill or batwing, lens.

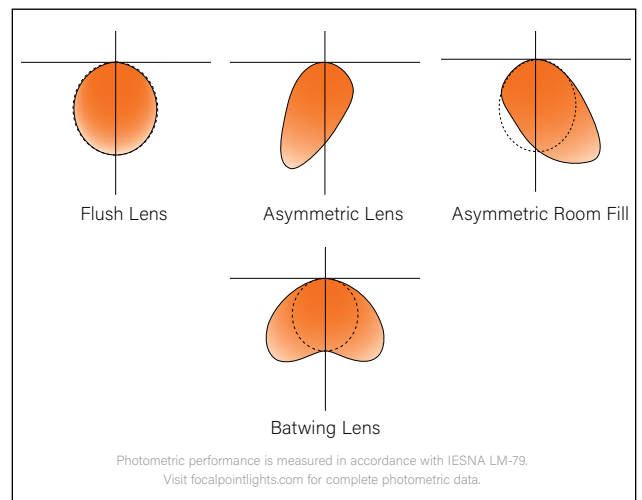
Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Choice of output levels to meet a wide variety of application needs.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

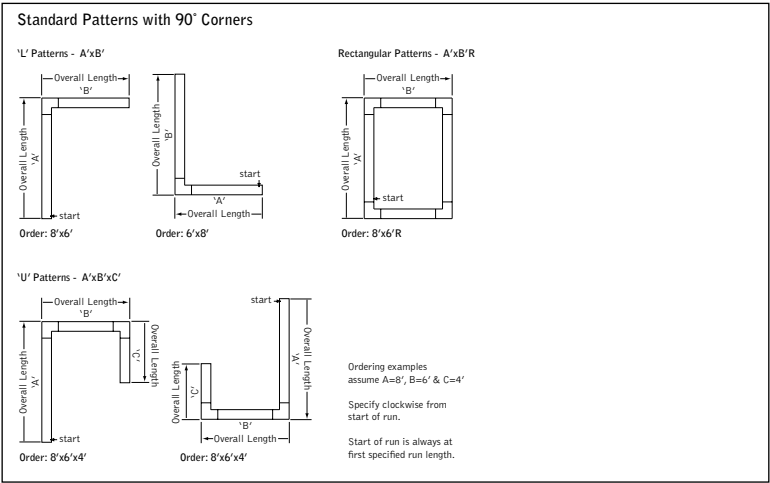
PERFORMANCE







fixture:

project:

DETAILS



4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	Tested System Watts	LPW			
						
275LF	1100	9.5	110	106	114	114
375LF	1500	12.5	119	114	123	123
625LF	2500	21.4	119	113	122	122
875LF	3500	30.4	118	113	122	122
1000LF	4000	35.0	117	112	121	121
1125LF	4500	39.6	116	111	119	119
1250LF	5000	43.5	115	110	119	118

Based on 3000K, 80 CRI, 4' lengths. Lumen multiplier: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

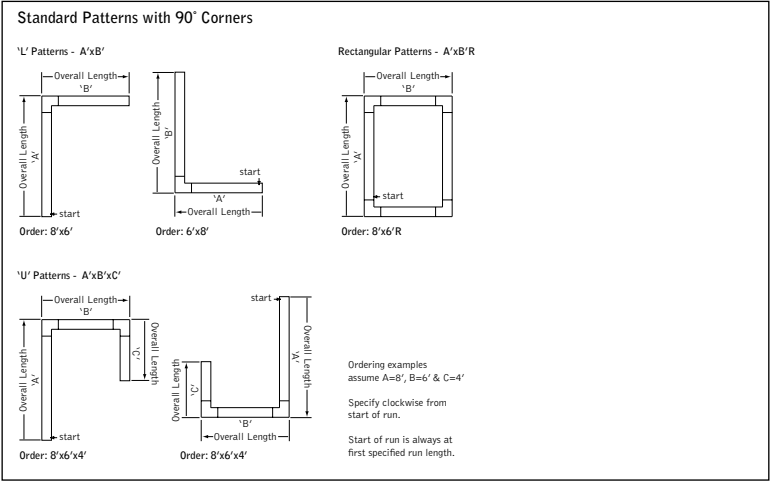
STANDARD WHITE

Luminaire Series	FSM4LWLS
Seem 4 LED Wet Location	FSM4LWLS
Shielding	
Asymmetric Lens*	AS
Asymmetric Room Fill*	AF
Batwing Lens*	BW
Flush Satin Lens	FL
(*individual units only)	
Lumen Output	
275 Lumens per foot (LD1 & L11 only)	275LF
375 Lumens per foot (LD1 & L11 only)	375LF
625 Lumens per foot (3' minimum with LH1)	625LF
875 Lumens per foot	875LF
1000 Lumens per foot	1000LF
1125 Lumens per foot	1125LF
1250 Lumens per foot	1250LF
Color Temperature	
3000K, 80+ CRI	30K
3500K, 80+ CRI	35K
4000K, 80+ CRI	40K
Circuits & Zones	
1 Circuit, non-emergency	1C
Consult Ordering Guide on page 3 for multiple circuiting and zoning options	_C_Z_DL
Voltage	
120/277 UNV Volt	UNV
Control System & Dimming Level	
0-10V - 10% Dimming	LD1
0-10V - 1% Dimming	L11
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (3' minimum length)	LH1
Mounting	
Surface Mount	SM
Factory Options	
(See page 4 for ordering details for DC, EC, EM & ECD.)	
Daylight Circuit	_DC
Emergency Circuit	_EC
Emergency Battery Pack†	_EM
Emergency Control Device†	_ECD
†(4' minimum. 120/277 Volt only. EM or ECD not available at corners.)	
Outdoor Rated	OD
(LD1 only. Not available with EM.)	
Finish	
Matte White Housing	WH
Luminaire Length	
Specify luminaire/row length in 1' increments (2' minimum length.)	X'
Pattern Options	
(3' minimum length)	
'L' pattern	A' x B'
'U' pattern	A' x B' x C'
Rectangular pattern	A' x B'R

fixture:

project:

DETAILS



TW 4' PERFORMANCE CHART

			LPW	
Lumen Output	Nominal Lumens	Tested System Watts		
			BW	FL
275LF	1100	13.30	87.3	83.2
375LF	1500	17.34	90.8	86.5
625LF	2500	27.84	94.0	89.5
875LF	3500	37.22	98.9	94.2
1000LF	4000	42.39	99.2	94.4
1125LF	4500	50.27	93.9	89.4

Based on 2700K, 80CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Lumen Multipliers

CRI	Multiplier
80+	1.00
90+	0.89

Wattage Multipliers

CCT	Multiplier
2700K	1.00
3000K	0.92
3500K	0.88
4000K	0.86
5000K	0.85
5700K	0.87
6500K	0.90



TUNABLE WHITE

Luminaire Series	FSM4LWLS
Seem 4 LED Wet Location	
Shielding	
Batwing Lens	BW
(individual units only)	
Flush Satin Lens	FL
Lumen Output	
275 Lumens per foot (3' min. with DITW, 4' min. with LT1)	275LF
375 Lumens per foot (3' min. with LT1)	375LF
625 Lumens per foot	625LF
875 Lumens per foot	875LF
1000 Lumens per foot	1000LF
1125 Lumens per foot	1125LF
Color Temperature	
Tunable White: 2700-6500K, 80+ CRI	2765T
Tunable White: 2700-6500K, 90+ CRI	92765T
Circuits & Zones	
1 Circuit, non-emergency	1C
Consult Ordering Guide on page 3 for multiple circuiting and zoning options	_C_Z_DL
Voltage	UNV
120/277 UNV Volt	UNV
Control System & Dimming Level	
Lutron T-Series - 1% Dimming	LT1
DALI - 1% Dimming	D1TW
(DT6 control. Requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8.)	
Mounting	SM
Surface Mount	SM
Factory Options	
(See page 4 for ordering details for DC, EC, EM & ECD.)	
Daylight Circuit	_DC
Emergency Circuit	_EC
Emergency Battery Pack†	_EM
Emergency Control Device†	_ECD
†(Consult factory)	
Finish	WH
Matte White Housing	WH
Luminaire Length	
Specify luminaire/row length in 1' increments (2' minimum length.)	X'
Pattern Options	
(3' minimum length)	
'L' pattern	A' x B'
'U' pattern	A' x B' x C'
Rectangular pattern	A' x B'R

SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM or Tunable White (2700K-6500K), CRI>80, >90. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. Die cast aluminum end caps. 2' unit weight: 10 lbs., 3' unit weight: 14 lbs., 4' unit weight: 18 lbs., 5' unit weight: 22 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Dimming range 100% to 10%. Power factor > .9.

Emergency

Output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor covered ceiling applications. Outdoor rating not available with Tunable White.

Finish

Polyester powder coat applied over a multi-stage pre-treatment. Canopy and cord white as standard.

Lumen Maintenance

Reported: L70 > 61,000 hours Calculated: L70 at > 480,000 hours
L90 > 61,000 hours L90 at > 128,000 hours

(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

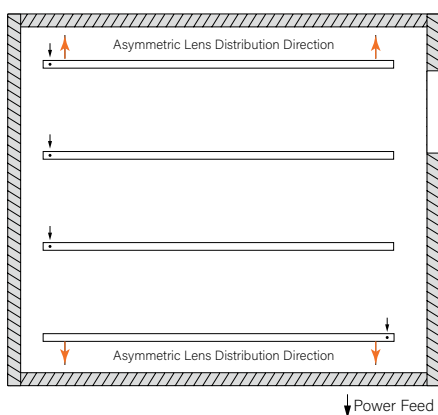
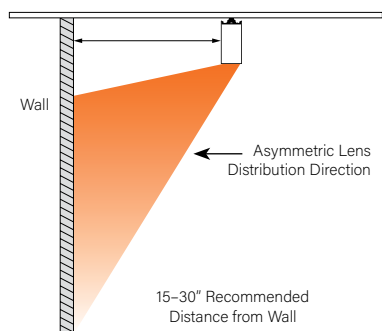
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated (OD) option must be installed in a covered ceiling and is warranted for operation in ambient environments between -20°C to +40°C.

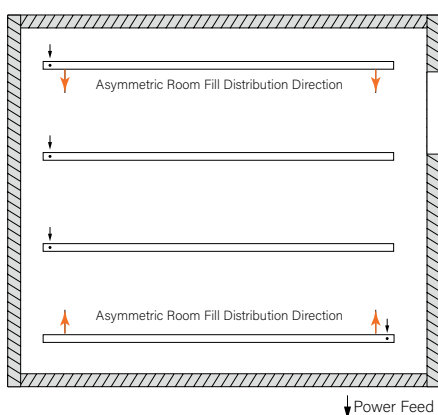
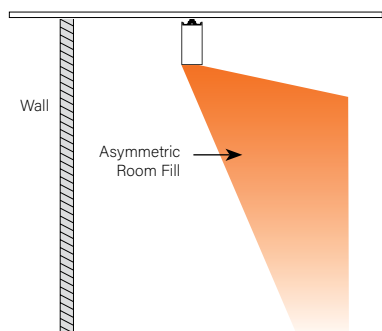
DIRECT ASYMMETRIC

Standard Application Example



DIRECT ASYMMETRIC ROOM FILL

Standard Application Example



Ordering Guide

Linear Circuitry, Zones & Factory Options



HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

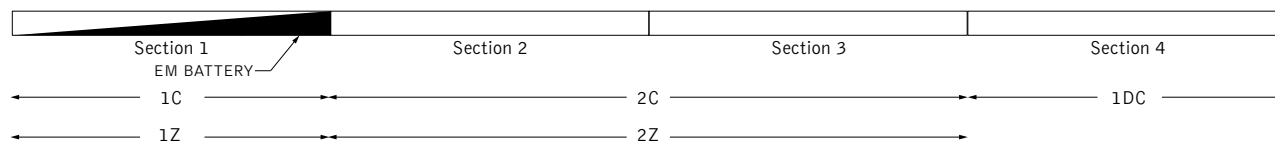
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

EXAMPLE	TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
	HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
						SEPARATE ELECTRICAL FEEDS			EM
			SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
	1	8	1C	1Z					1EM
	2	8	2C	2Z					
	3	8	2C	2Z					
	4	8				1DC			
	Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- 2C2Z -UNV-LD1-G2- 1DC-1EM -WH-32ft



KEY

C = Switching Circuit
Switched Hot / Shared Neutral

Z = Dimming Zone
Dimming Control Wires

DL = Daylight Zone
Daylight Dimming Control Wires

DC = Daylight Circuit
Switched Hot / Separate Neutral

EC = Emergency Circuit
Switched Hot / Separate Neutral

EM = Emergency Battery
Unswitched Hot / Shared Neutral

ECD = Emergency Control Device
Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
						DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

Standard run configurations, consult factory for custom configurations.

Ratio Flood

COMPACT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Compact LED flood with a variety of NEMA distributions for lighting applications such as: safety/security, accent, flag pole, columns or signs
- Part of the Ratio flood series, this luminaire was designed in cohesion with the site/area products to provide a sleek and timeless look
- Features a dense optical array, providing reduced pixelation and increased visual comfort without compromising performance



RATIO



SPECIFICATIONS

CONSTRUCTION

- Corrosion resistant, rugged die-cast aluminum housing with powder coat paint finish
- High impact UV stabilized acrylic outer lens protects LEDs and allows for cleaning and debris removal
- Internal venting fins create optimal heat dissipation and allow all water to drain from the face of the luminaire
- Lens hardware is internal to the fixture allowing for uniform pressure on the gasket for an optimal water tight seal

OPTICS

- 44 or 90 midpower LEDs
- Stock Versions: 4000K and 5000K CCT
- Variety of NEMA distributions: - N (2x2), M (4x4) and W (6x6) - Stock version Wide (6x6) only
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance

INSTALLATION

- Traditional ½" x 14 NPS threaded adjustable knuckle mounting
- Easy maintenance access to electrical components with removal of 4 screws from back of fixture housing
- Trunnion mount available (sold separately)

ELECTRICAL

- 120–277V operation, 50/60Hz
- Driver IP66 and RoHS compliant driver
- 10kV surge protector optional
- 0–10V dimming driver standard, continuous dimming option to have leads pulled out for easy connection
- Drivers have 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls

CERTIFICATIONS

- Fixture is IP66 rated
- Listed to UL1598 for use in wet locations
- This product qualifies as a “designated country construction material” per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#)

WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	3245–6823
Wattage Range	26–52
Efficacy Range (LPW)	126–142
Weights lbs. (kg)	3.7–5.5 (6.12–10.8)

Ratio Flood

COMPACT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

STOCK ORDERING INFORMATION

Catalog Number	Mounting	Distribution	Wattage	Voltage	CCT	Lumens	LPW	Weight lbs. (KG)	Finish
RFL2-25-4K	Knuckle	Wide	26	120–277V	4000K	3327	127	3.7 (1.68)	Bronze
RFL2-25-5K	Knuckle	Wide	26	120–277V	5000K	3245	124	3.7 (1.68)	Bronze
RFL2-25-4K-PC	Knuckle	Wide	26	120–277V	4000K	3327	127	3.7 (1.68)	Bronze
RFL2-25-5K-PC	Knuckle	Wide	26	120–277V	5000K	3245	124	3.7 (1.68)	Bronze
RFL3-40-4K	Knuckle	Wide	34	120–277V	4000K	4551	134	5.5 (2.50)	Bronze
RFL3-40-5K	Knuckle	Wide	34	120–277V	5000K	4439	131	5.5 (2.50)	Bronze
RFL3-40-4K-PC	Knuckle	Wide	34	120–277V	4000K	4551	134	5.5 (2.50)	Bronze
RFL3-40-5K-PC	Knuckle	Wide	34	120–277V	5000K	4439	131	5.5 (2.50)	Bronze
RFL3-50-4K	Knuckle	Wide	52	120–277V	4000K	6823	131	5.5 (2.50)	Bronze
RFL3-50-5K	Knuckle	Wide	52	120–277V	5000K	6654	128	5.5 (2.50)	Bronze
RFL3-50-4K-PC	Knuckle	Wide	52	120–277V	4000K	6823	131	5.5 (2.50)	Bronze
RFL3-50-5K-PC	Knuckle	Wide	52	120–277V	5000K	6654	128	5.5 (2.50)	Bronze

ORDERING GUIDE

Example: RFL2–44L–25–4K7–M–UNV–K–DBT–CD–SP

CATALOG #

Model	Nominal Lumens	CCT/CRI	Distribution	UNV Voltage	K Mounting	Color
RFL2 Ratio Flood Size 2	44L–25 44 LED–3000lm 90L–40 90 LED–5000lm	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI	N Narrow, 2x2 M Medium Flood, 4x4 W Wide Flood, 6x6	UNV Universal 120–277	K Knuckle	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Brone Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Color
RFL3 Ratio Flood Size 3	90L–50 90 LED–7000lm	5K7 5000K, 70 CRI				

Control Options	Options
CD Continuous Dimmable	SP ¹ Surge Protector, 10kA Surge Protector
PC ¹ Button Photcontrol	

¹ SP and PC cannot be in the same fixture due to space constraints

ACCESSORIES AND REPLACEMENT PARTS (ORDERED SEPARATELY)

Catalog Number	Description
----------------	-------------

☐ TRN–XX¹ Trunnion adapter for ½" threaded knuckle mount

¹ Specify finish color to match fixture, e.g. DBT - Dark Bronze Matte



TRN-XX

PERFORMANCE DATA

Series	Nominal Watts	Dist. Type	NEMA	Field Angle H° X V°	5K (5000K nominal, 70 CRI)			4K (4000K nominal, 70 CRI)			3K (3000K nominal, 70 CRI)		
					Lumens	LPW ¹	Max Beam Candlepower	Lumens	LPW ¹	Max Beam Candlepower	Lumens	LPW ¹	Max Beam Candlepower
RFL2	25	N	2 x 2	20 x 20	3308	129	56009	3391	132	57425	3285	128	55632
		M	4 x 4	57 x 57	3124	121	7180	3203	124	7588	3103	120	7426
		W	6 x 6	105 x 105	3245	124	1848	3327	127	1895	3223	123	1836
RFL3	40	N	2 x 2	20 x 20	4525	136	76622	4639	139	69924	4494	135	76107
		M	4 x 4	57 x 57	4273	127	10228	4382	130	10486	4245	126	10159
		W	6 x 6	105 x 105	4439	131	2528	4551	134	2592	4409	130	2511
	50	N	2 x 2	20 x 20	6784	133	114868	6956	136	117772	6739	132	114095
		M	4 x 4	57 x 57	6408	125	17055	6569	128	17486	6364	124	16940
		W	6 x 6	105 x 105	6654	128	3791	6823	131	3886	6610	127	3765

1 Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

ELECTRICAL DATA

# LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (W)
RFL2	25	120	0.22	26.0
		208	0.13	
		240	0.11	
		277	0.09	
RFL3	40	120	0.28	33.8
		208	0.16	
		240	0.14	
		277	0.12	
	50	120	0.43	51.7
		208	0.25	
		240	0.22	
		277	0.19	

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					Calculated L70 (Hours)
	0	25,000	50,000	TM-21-11 60,000 ¹	100,000	
25°C / 77°F	1.00	0.96	0.94	0.91	0.83	> 191,000
40°C / 104°F	0.99	0.95	0.93	0.93	0.81	> 173,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.03
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.98
50° C	122° F	0.97

Use these factors to determine relative lumen output for average ambient temperatures from 0–40°C (32–104°F)

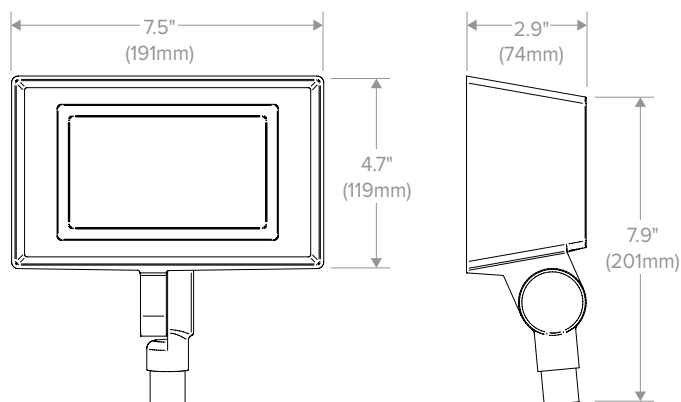
Ratio Flood

COMPACT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

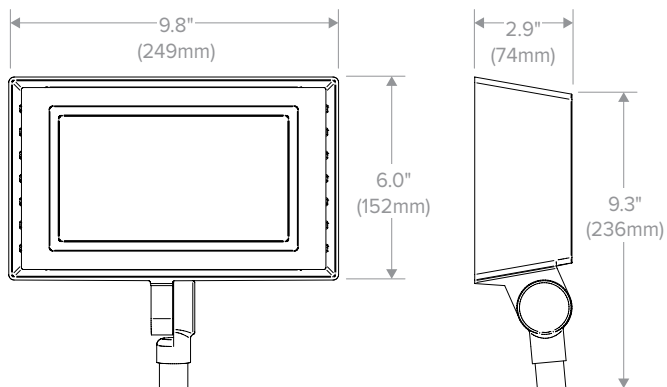
DIMENSIONS

RFL2



RFL2 EPA(Front/Side)
0.34ft² / 0.17ft²

RFL3



RFL3 EPA(Front/Side)
0.97ft² / 0.20ft²

ADDITIONAL INFORMATION

SHIPPING INFORMATION

Catalog Number	G.W (kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RFL2	3.7lbs (1.68kg)	20.7 (52.7)	15.1 (38.4)	6.9 (17.6)
RFL3	5.5lbs (2.50kg)	25 (63.5)	15.1 (38.4)	6.9 (17.6)

GEOPAK SERIES SIZE 2 LED

Architectural Wallpack
TRP2/RD12 Low Glare

NEW

Cat.#

Job

Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Applications:

Medium sized architectural wallpacks in two stylish shapes accentuate building architecture and provide excellent illumination and uniformity

Construction:

- Die-cast aluminum housing and door
- Seven powder coat standard finishes, plus custom color options

LED/Optics:

- Precision crafted optics and reflectors provide up to 150 LPW and zero pixelation over the lens for maximum visual comfort
- Wide Throw and Forward Throw distributions available
- 3000K - 70 CRI, 4000K - 70 CRI, and 5000K - 70 CRI, CCT nominal

Electrical:

- Optional Dual Drivers & Dual Power Feeds for 50 and 70 watt versions
- 120-277, 347 and 480 voltage, 50/60Hz
- Power factor $\geq 90\%$
- THD (Total Harmonic Distortion) $<20\%$
- Ambient operating temperature -40°C to 40°C

Installation/Mounting:

- Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box). Fixture attaches by two Allen-head hidden fasteners for tamper resistance.
- Black box accessory available for surface conduit application

Options/Controls:

- Drivers are 0-10V dimming standard
- Universal button photocontrol for dusk to dawn energy savings
- Occupancy sensor options available for complete on/off and dimming control

Secondary Distribution:

- Optional secondary distributions provide approximately 5% uplight for lighting building facades and/or providing direct/indirect lighting for under canopy applications
- Available in three distribution including Wall Graze, Spot/Column and Canopy

Listings:

- IP65 rated housing
- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Zero uplight (U0), dark sky, neighbor friendly (excludes uplight versions)
- Drivers IP66 and RoHS compliant

Warranty:

For more information visit:
<http://www.hubbelloutdoor.com/resources/warranty/>

PRODUCT IMAGE(S)

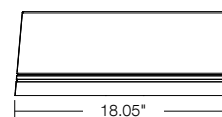


Trapezoid

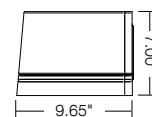


Radius

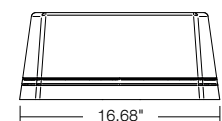
DIMENSIONS



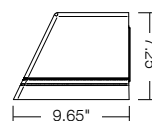
18.05"



RD12
Weight:
16 lbs (7.3 kg)



16.68"



TRP2
Weight:
16 lbs (7.3 kg)

CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only

SHIPPING INFORMATION

Catalog Number	G.W(kg)/ CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RD12	18 (8.2)	20.5 (52)	9.5 (24)	12 (30)
TRP2	16 (7.3)	18.5 (47)	9.5 (24)	11.5 (29)

ORDERING INFORMATION ORDERING EXAMPLE: TRP2-D-30-3K7-FT-UNV-UG-GT-PC

FAMILY	LEDS - WATTAGE	DISTRIBUTION	VOLTAGE	FINISH	CONTROL OPTIONS	OPTIONS
TRP2 Trapezoid	D-20 20w Low Glare Diffuse	FT Forward Throw	UNV 120-277V	BL Black Textured	PC Button Photocontrol	SF ³ Single Fuse & Fuse Holder
RD12 Radius	D-30 30w Low Glare Diffuse	Diffused	120 120V	DB Dark Bronze Textured	SCP ^{4,5} Programmable occupancy sensor, factory default is 10% light output	DF ³ Double Fuse & Fuse Holder
	D-50 50w Low Glare Diffuse	WT Wide Throw	208 208V	GT Graphite Textured	SCO ⁴ Sensor Control, On/Off	2DR ⁶ Dual Drivers
	D-70 70w Low Glare Diffuse	Diffused	240 240V	GYS Light Gray Smooth	SPEC SCP/SCO MOUNT HEIGHT	2PF ⁶ Dual Power Feeds
	CCT		277 277V	PS Platinum Silver Smooth	-8F Up to 8ft mount height	
	3K7 3000K, 70CRI		UHV ¹ 347/480V	WH White Textured	-20F Up to 20ft mount height	
	4K7 4000K, 70CRI		347 ¹ 347V	CC Custom Color		
	5K7 5000K, 70CRI		480 ¹ 480V			

SECONDARY DISTRIBUTION

- BLANK Downlight Only
- UG² Uplight Wall Graze
- UC² Uplight Canopy
- US² Uplight Spot/Column

¹ 70 watt version only, not available with PC, SCP or SCO sensors

² Not available with SF, DF, 2DR or 2PF electrical options

³ Must specify voltage

⁴ PCU option not applicable, included in sensor

⁵ Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings

⁶ Not available with 20w, 30w or uplight versions



HUBBELL
Outdoor Lighting

Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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TRP2/RD12/QSP2 LG-SPEC
OCTOBER 1, 2018 1:48 PM

ACCESSORIES - Order separately

Catalog Number	Description
SCP-REMOTE	Remote control for SCP option. Order at least one per project to program and control dimming settings
BB-GEO-XX	Black box with 4 - 1/2" threaded conduit holes, specify finish by replacing "XX" with finish selection, eg. Dark Bronze "DB"

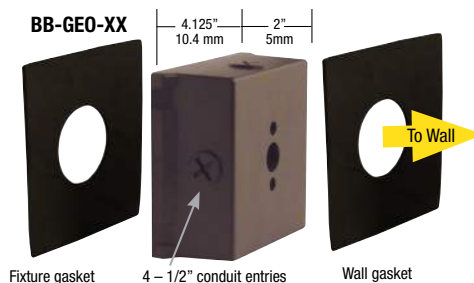
* Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings.

** When ordering with SiteSync, one of the following interface options must be chosen or ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

* If needed, an additional Bridge Node can be ordered.



BB-GEO-XX – Mounted to luminaire



INPUT POWER CONSUMPTION

# OF LEDS	VERSION	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (w)
180	Downlight Only	120	0.18	21
		277	0.08	21
		120	0.28	33
		277	0.12	33
		120	0.41	49
		277	0.18	49
		120	0.52	62
		277	0.22	62
		347	0.18	62
	With Uplight	480	0.13	62
		120	0.18	22
		277	0.08	22
		120	0.29	35
		277	0.13	35
		120	0.43	52
		277	0.19	52
		120	0.55	66
		277	0.24	66
		347	0.19	66
		480	0.14	66

PERFORMANCE DATA - LOW GLARE

SECONDARY DISTRIBUTION	NOMINAL WATTS	SYSTEM WATTS	MAIN DISTR. TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
None	D-20	21.0	FT	3,082	147	1	0	1	3,067	146	1	0	1	2,883	137	1	0	1
			WT	3,195	152	1	0	0	3,179	151	1	0	0	2,988	142	1	0	0
	D-30	33.4	FT	4,995	150	1	0	1	4,970	149	1	0	1	4,672	140	1	0	1
			WT	5,178	155	1	0	1	5,152	154	1	0	1	4,843	145	1	0	1
	D-50	48.7	FT	7,094	146	1	0	1	7,058	145	1	0	1	6,635	136	1	0	1
			WT	7,353	151	1	0	1	7,316	150	1	0	1	6,877	141	1	0	1
UC (Canopy)	D-20	22.3	FT	8,669	140	1	0	1	8,626	140	1	0	1	8,108	131	1	0	1
			WT	8,986	145	1	0	1	8,941	145	1	0	1	8,405	136	1	0	1
	D-30	35.5	FT	2,991	134	1	3	1	2,976	133	1	3	1	2,798	125	1	3	1
			WT	3,325	149	1	3	0	3,309	148	1	3	0	3,110	139	1	3	0
	D-50	51.7	FT	4,847	137	1	3	1	4,823	136	1	3	1	4,534	128	1	3	1
			WT	5,389	152	1	3	1	5,362	151	1	3	1	5,040	142	1	3	1
UG (Wall Graze)	D-20	22.3	FT	6,884	133	1	3	1	6,850	132	1	3	1	6,439	125	1	3	1
			WT	7,653	148	1	3	1	7,615	147	1	3	1	7,158	138	1	3	1
	D-30	35.5	FT	8,413	128	1	3	1	8,371	127	1	3	1	7,869	120	1	3	1
			WT	9,353	142	1	3	1	9,306	142	1	3	1	8,748	133	1	3	1
	D-50	51.7	FT	2,966	133	1	3	1	2,952	132	1	3	1	2,774	124	1	3	1
			WT	3,302	148	1	3	0	3,286	147	1	3	0	3,089	139	1	3	0
US (Spot/ Column)	D-20	22.3	FT	4,808	135	1	3	1	4,784	135	1	3	1	4,497	127	1	3	1
			WT	5,352	151	1	3	1	5,325	150	1	3	1	5,006	141	1	3	1
	D-30	35.5	FT	6,827	132	1	3	1	6,793	131	1	3	1	6,386	124	1	3	1
			WT	7,600	147	1	3	1	7,562	146	1	3	1	7,109	137	1	3	1
	D-50	51.7	FT	8,344	127	1	3	1	8,302	126	1	3	1	7,804	119	1	3	1
			WT	9,288	141	1	3	1	9,242	141	1	3	1	8,687	132	1	3	1
US (Spot/ Column)	D-20	22.3	FT	3,156	142	1	3	1	3,140	141	1	3	1	2,952	132	1	3	1
			WT	3,316	149	1	3	0	3,300	148	1	3	0	3,102	139	1	3	0
	D-30	35.5	FT	5,114	144	1	3	1	5,089	143	1	3	1	4,784	135	1	3	1
			WT	5,375	151	1	3	1	5,348	151	1	3	1	5,027	142	1	3	1
	D-50	51.7	FT	7,263	140	1	3	1	7,227	140	1	3	1	6,793	131	1	3	1
			WT	7,633	148	1	3	1	7,595	147	1	3	1	7,140	138	1	3	1
US (Spot/ Column)	D-70	65.7	FT	8,876	135	1	3	1	8,832	134	1	3	1	8,302	126	1	3	1
			WT	9,328	142	1	3	1	9,282	141	1	3	1	8,725	133	1	3	1



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LOW - GLARE



Designed for optimal visual comfort and maximum performance, the low glare versions provide excellent illumination and uniformity with zero LED pixelation.

UPLIGHT



Optional uplight distributions provide accent lighting for columns, canopies or building facades

The wall graze also creates a 50/50 appearance on the wall while still providing general illumination on the ground

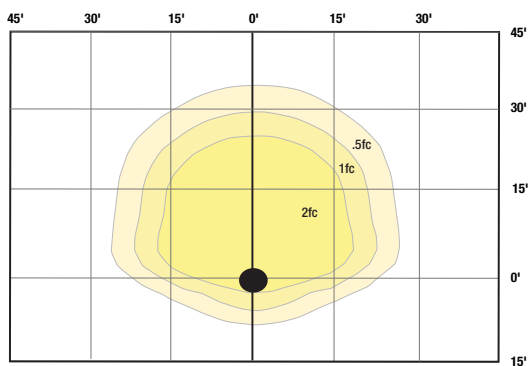
CONTROL OPTIONS



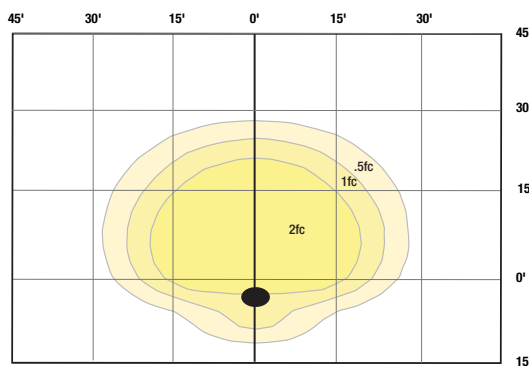
Programmable occupancy sensor offers greater control and energy savings with adjustable delay and dimming levels (Factory default is 10%).

PHOTOMETRICS

Mounting Height 15ft



FORWARD THROW



WIDE THROW

UPLIGHT GRAZE



UPLIGHT SPOT/COLUMN



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