

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

BETA 3

3" Cylinder Standard White



15° - 60° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	970LM @30K/80CRI	9W
15LM	1410LM @30K/80CRI	13W
20LM	1820LM @30K/80CRI	17W
10LM	830LM @30K/90CRI	9W
15LM	1200LM @30K/90CRI	13W
20LM	1550LM @30K/90CRI	17W
Notes	Delivered lumens based on 40D optic with no lens (see page 2)	

15° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	870LM @30K/80CRI	11W
15LM	1280LM @30K/80CRI	17W
10LM	740LM @30K/90CRI	11W
15LM	1080LM @30K/90CRI	17W
Notes	Delivered lumens based on 15D optic with no lens (see page 2)	



CASAMBI

FEATURES

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 15° - 60° beam spread
- UGR < 19
- Micro slim canopy options at 1/4"-3/8" depth plus 1/2" diameter stem.
- Multiple mounting, glare control options and finishes available

DIMMING AND CONTROLS

- Flicker free 0-10V dimming to 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Lutron Hi-lume 2-Wire (Eco System) dimming to 0.1%
- Casambi bluetooth dimming to 1%

CONSTRUCTION

- Extruded aluminum housing
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Machined aluminum canopy
- SVT pendant cord

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

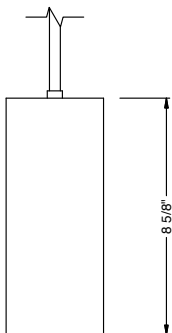
LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations
- 5 Year Limited warranty

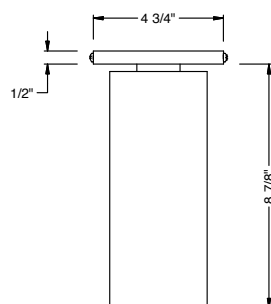
ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7 W, 10W (T20 CEC) and 12W EM 90min battery
- Low Voltage Luminaire option, see page 7.

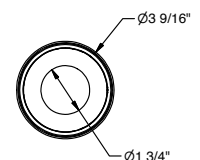
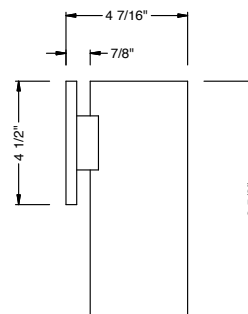
PENDANT



SURFACE MOUNT



WALL MOUNT



alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
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ORDERING CODE																
SERIES	BETA	cylinder series														
TYPE	3R	3" round														
LED	SW	standard white														
DELIVERED LUMENS	10LM	880 lm														
	15LM	1290 lm														
	20LM	1700 lm														
	Standard Configuration: 3000K 80CRI 20D NL Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]															
CCT	27K	2700K														
	30K	3000K														
	35K	3500K														
	40K	4000K														
CRI	80	80 CRI														
	90	90 CRI														
	<table border="1"> <thead> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> </tr> <tr> <th>CRI</th> <th>80+</th> <th>90+</th> <th>80+</th> <th>90+</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.96</td> <td>0.81</td> <td>1</td> <td>0.84</td> </tr> </tbody> </table>		CCT	2700K	3000K	3500K	4000K	CRI	80+	90+	80+	90+	CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1
CCT	2700K	3000K	3500K	4000K												
CRI	80+	90+	80+	90+												
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1	0.84												
OPTIC & LM MULTIPLIER SEE PAGE 3	15D¹	15 degrees (0.98)														
	20D	20 degrees (1.00)														
	25D	25 degrees (0.99)														
	40D	40 degrees (0.99)														
	55D	55 degrees (0.97)														
BEZEL LENS	NL²	no lens (1.00)														
	CL	clear lens (0.97)														
	DL	diffused lens (0.85)														
	HCL³	honeycomb louver (0.95)														
	HET	high efficiency textured lens, similar to Solite™ (0.96)														
	SBL	smoothing beam lens (0.96)														
FINISH SEE PAGE 3	BK	black														
	WH	white														
	MC	matte chrome														
	CC⁴	custom color, consult factory for details														
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.																
BEZEL COLOR SEE PAGE 3	BK	black (0.98)														
	WH	white (1.00)														
	MC	matte chrome (0.99)														
	BZ	bronze (0.98)														
	WT	wheat (0.99)														
	CC⁴	custom color, consult factory for details														
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.																

ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 6	W	wall mount
	S	surface mount
	JCOV-S	conduit junction box cover with knockouts, surface
	P	pendant, 108" flexible cord
	RP	rigid pendant 4' stem with swivel stem/canopy
	RP5	rigid pendant 5' stem with swivel stem/canopy
	RP6	rigid pendant 6' stem with swivel stem/canopy
	RP8	rigid pendant 8' stem with swivel stem/canopy
	RP10	rigid pendant 10' stem with swivel stem/canopy
	RPF2	rigid pendant 2' with fixed stem/canopy, not field cuttable
	RPF3	rigid pendant 3' with fixed stem/canopy, not field cuttable
RPF4	rigid pendant 4' with fixed stem/canopy, not field cuttable	
RPF6	rigid pendant 6' with fixed stem/canopy, not field cuttable	
JCOV-XX⁵	conduit junction box cover with knockouts, complete XX code with desired pendant mount	
VOLTAGE	120	120V
	UNV	120V-277V
	LVL⁶	low voltage luminaire
DIMMING	DIM10	0-10V dimming to 1%
	LUTP	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1⁷	leading & trailing edge (Triac/ELV) dimming to 1%
	CAS	Casambi Bluetooth control with flicker free 1% dimming
	ND	No Driver Included. Customer to Supply PoE system components or order remote driver separately. Refer to POE/Remote Driver reference sheet for additional details.
ELECTRICAL OPTIONS	EM7	remote emergency battery backup, 90 minutes at 7 watts to LED
	EM12	remote emergency battery backup, 90 minutes at 12 watts to LED
	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20

YOUR COMPLETED ORDERING CODE	
Follow the steps to specify your fixture, example:	
BETA - 3R - SW - 15LM - 35K - 80 - 40D - CL - WH - WH - P - UNV - DIM10 - EM7	

NOTES

- 15D available in 10LM/15LM.
- NL option does not meet requirements for AT/DF/WET/NSF listings. Lensing cannot be added in the field.
- HCL not available with lens.
- Custom set up fee plus minimum quantity required per color.
- JCOV not available with RP mounting.
- Must select ND dimming code, for remote driver or POE specifications see page 7.
- ELV1 available in 120V.

*Slim canopy with rigid stem connection shall be used in jurisdictions that DO NOT require light fixtures to freely swing in lateral directions, complying with local and national building codes.

*RP mounting with swivel is recommended to be installed on a 4in square or 4in deep regress 2-1/8" octagonal junction box.

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PROJECT INFORMATION		
JOB NAME		TYPE
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BEZEL OPTIONS

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.



OPTIC	BEAM ANGLE	UGR
15D	16.2	17.1
20D	20.6	17.3
25D	23.5	17.5
40D	37.4	18
55D	55.8	18.6



OPTIC	BEAM ANGLE	UGR
20D	42.6	21.9
25D	45.2	22.2
40D	52.4	22.9
55D	58.9	23.6



OPTIC	BEAM ANGLE	UGR
15D	19.5	17.7
20D	24.4	18
25D	27	18.6
40D	38.5	19.1
55D	49.5	19.4



OPTIC	BEAM ANGLE	UGR
15D	14	17.2
20D	21	16.6
25D	25	16.8
40D	39	17.7
55D	55	18



OPTIC	BEAM ANGLE	UGR
15D	12	≤5
20D	16	≤5
25D	20	≤5
40D	32	≤5
55D	44	≤5

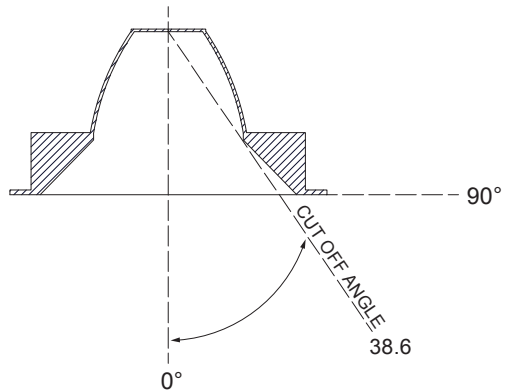
GLARE CONTROL

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 38.6 degrees;



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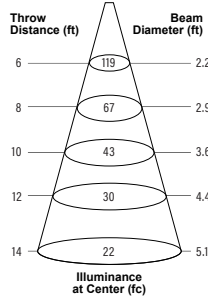
PHOTOMETRIC DATA

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 / Distance²

20D-CL 20° REFLECTOR WITH CLEAR LENS



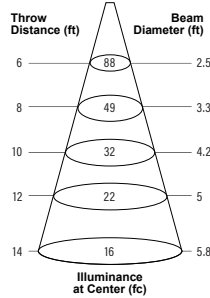
WATTS: 8.6 LPW: 109.6

LUMENS: 942 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	4291
5	3694
15	1004
25	380
35	242
45	7

25D-CL 24° REFLECTOR WITH CLEAR LENS



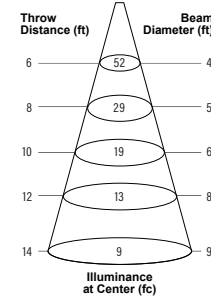
WATTS: 8.6 LPW: 110.2

LUMENS: 948 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	3159
5	2764
15	1117
25	503
35	239
45	7

40D-CL 38° REFLECTOR WITH CLEAR LENS



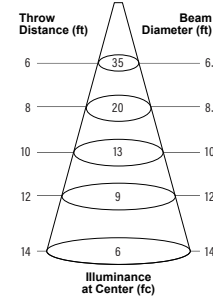
WATTS: 8.6 LPW: 110.1

LUMENS: 947 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	1857
5	1787
15	1204
25	591
35	262
45	8

55D-CL 56° REFLECTOR WITH CLEAR LENS



WATTS: 8.6 LPW: 109.8

LUMENS: 944 CCT: 3000K

INTENSITY

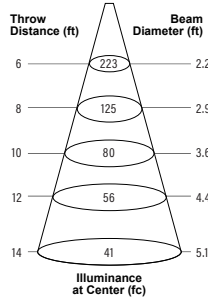
DEGREE	CANDELA
0	1260
5	1240
15	1105
25	746
35	268
45	9

20LM 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 / Distance²

20D-CL 20° REFLECTOR WITH CLEAR LENS



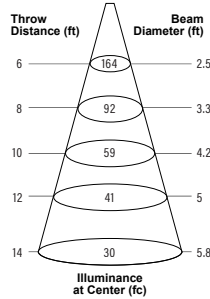
WATTS: 16.5 LPW: 106.7

LUMENS: 1761 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	8021
5	6905
15	1877
25	711
35	452.3
45	13

25D-CL 24° REFLECTOR WITH CLEAR LENS



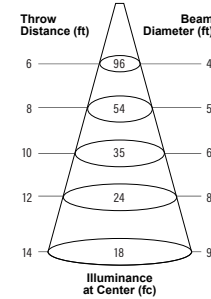
WATTS: 16.5 LPW: 107.4

LUMENS: 1771 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	5904
5	5167
15	2088
25	939
35	447
45	12

40D-CL 38° REFLECTOR WITH CLEAR LENS



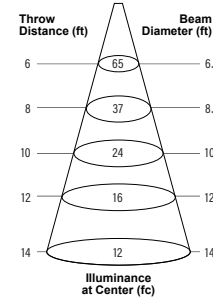
WATTS: 16.5 LPW: 107.3

LUMENS: 1770 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	3471
5	3340
15	2250
25	1104
35	490
45	15

55D-CL 56° REFLECTOR WITH CLEAR LENS



WATTS: 16.5 LPW: 107

LUMENS: 1765 CCT: 3000K

INTENSITY

DEGREE	CANDELA
0	2356
5	2318
15	2065
25	1394
35	501
45	17

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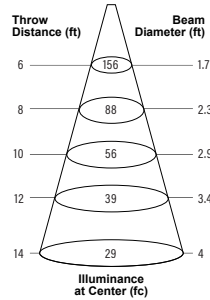
PHOTOMETRIC DATA

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 / Distance²

15D-CL 16° REFLECTOR WITH CLEAR LENS



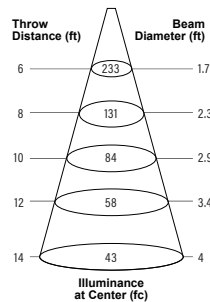
WATTS: 10.2	LPW: 82.1
LUMENS: 838	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5631
5	4276
15	655
25	308
35	247
45	4

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 / Distance²

15D-CL 16° REFLECTOR WITH CLEAR LENS

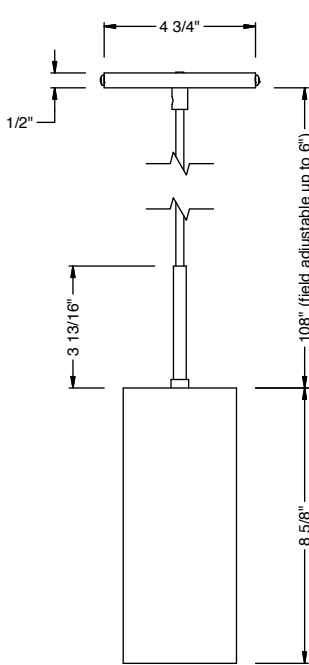


WATTS: 17	LPW: 73.5
LUMENS: 1250	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	8398
5	6377
15	977
25	459
35	369
45	6

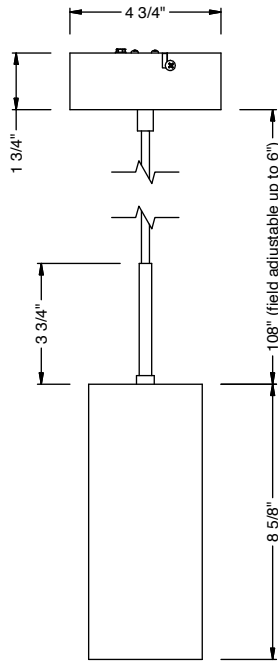
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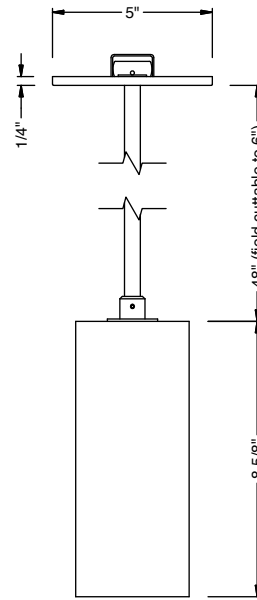
MOUNTING OPTIONS



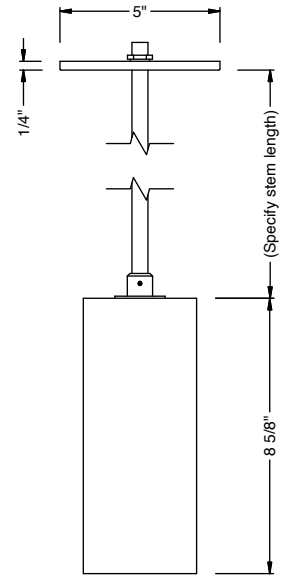
PENDANT
ELV1 / CAS / ND



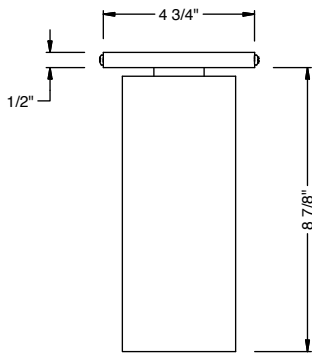
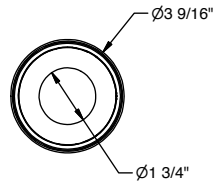
PENDANT
DIM10 / LUTP



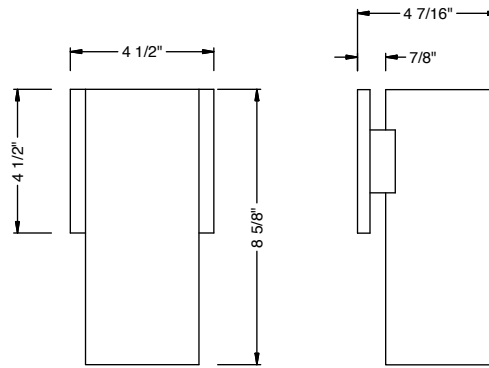
RP SWIVEL
DIM10 / LUTP / ELV1 / CAS / ND



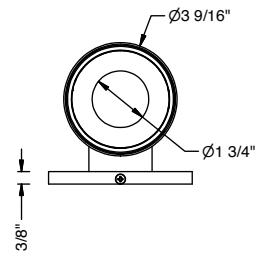
RPF FIXED
DIM10 / LUTP / ELV1 / CAS / ND



SURFACE MOUNT
DIM10 / LUTP / ELV1 / CAS / ND



WALL MOUNT
DIM10 / LUTP / ELV1 / CAS / ND



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LOW VOLTAGE OPTIONS

15° - 60° BEAM

(Note: Specifications are subject to change without notice)

9mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	970LM @30K/80CRI	200mA	7.5W
15LM	1410LM @30K/80CRI	300mA	11W
20LM	1820LM @30K/80CRI	400mA	14.5W
10LM	830LM @30K/90CRI	200mA	7.5W
15LM	1200LM @30K/90CRI	300mA	11W
20LM	1550LM @30K/90CRI	400mA	14.5W
Notes	Delivered lumens based on 40D optic with no lens (see page 2)		

15° BEAM

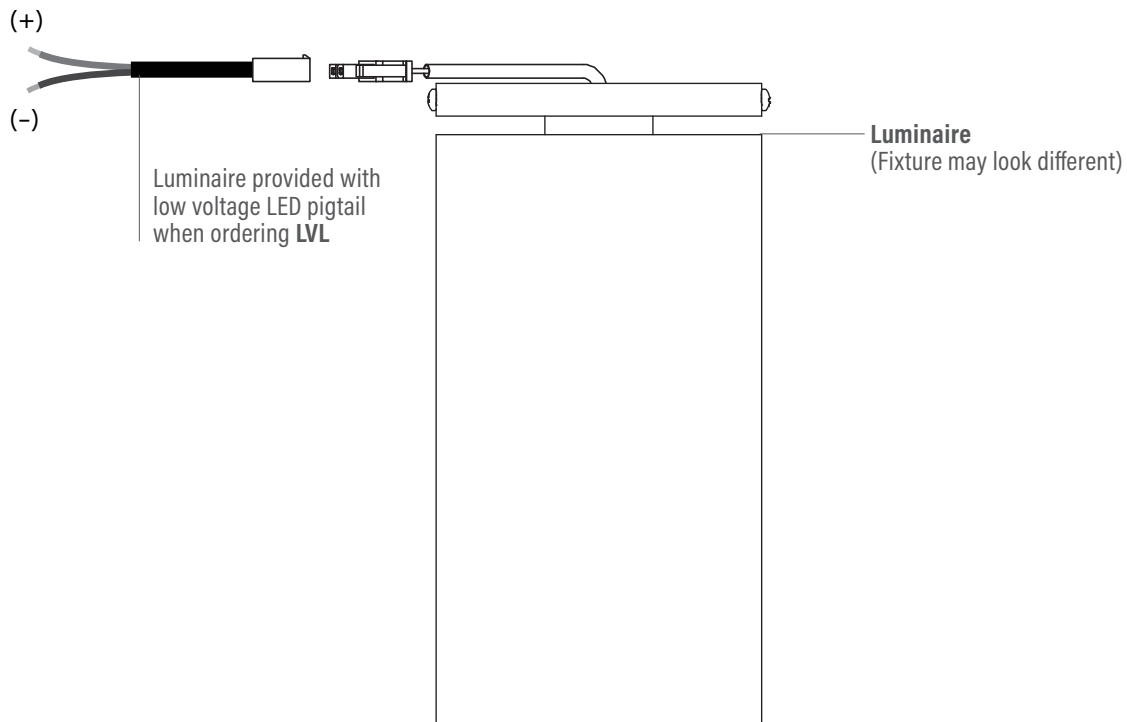
(Note: Specifications are subject to change without notice)

6mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	870LM @30K/80CRI	225	9W
15LM	1280LM @30K/80CRI	375	14W
10LM	740LM @30K/90CRI	225	9W
15LM	1080LM @30K/90CRI	375	14W
Notes	Delivered lumens based on 15D optic with no lens (see page 2)		

NOMINAL LED VOLTAGE: 36VDC

Customer to order CC Remote Driver separately or POE Node by others.



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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

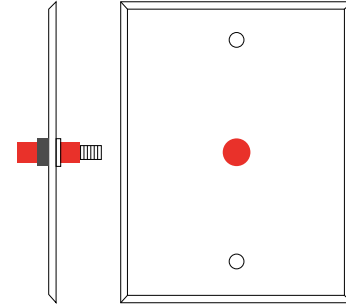
The remote test switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service.

REMOTE LOCATION

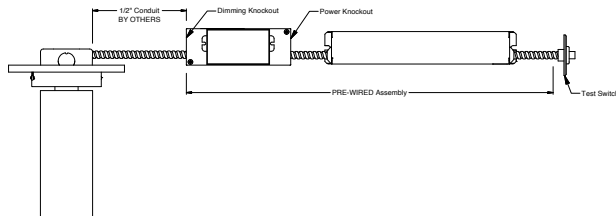
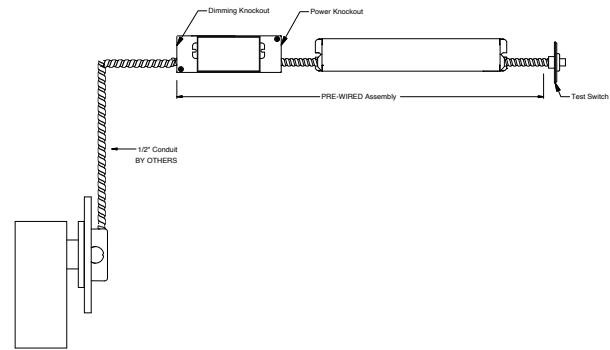
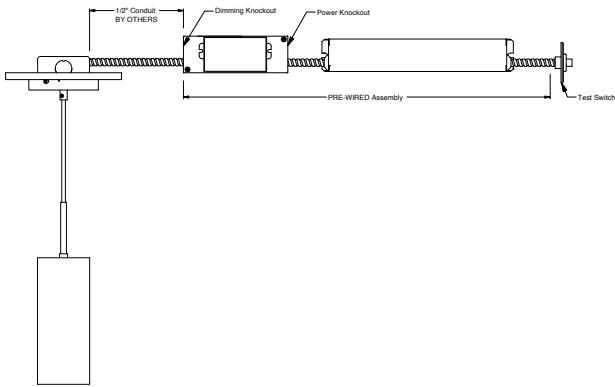
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all local and national electric/building codes.



Remote Test Switch

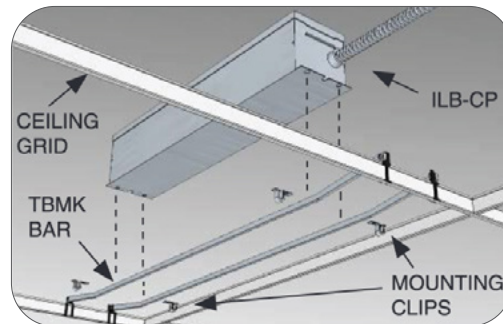
EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	880LM	1280LM	1480LM
Notes: Based on 30K, 80CRI			

REMOTE BATTERY



Accessory

76066 Optional T-Grid Mounting Kit¹



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