

# alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## BETA 4

### 4" Cylinder Standard White



#### 30° - 70° BEAM

(Note: Specifications are subject to change without notice)

#### 14mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1100LM @30K/80CRI	11W
15LM	1520LM @30K/80CRI	14W
20LM	1830LM @30K/80CRI	17W
25LM	2410LM @30K/80CRI	23W
30LM	3030LM @30K/80CRI	31W
35LM	3490LM @30K/80CRI	37W
10LM	940LM @30K/90CRI	11W
15LM	1290LM @30K/90CRI	14W
20LM	1640LM @30K/90CRI	17W
25LM	2050LM @30K/90CRI	23W
30LM	2580LM @30K/90CRI	31W
35LM	2960LM @30K/90CRI	37W
Notes	Delivered lumens based on HE60, 3000K (see page 2)	



CASAMBI

#### FEATURES

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 30° - 70° beam spread
- UGR < 19
- Micro slim canopy option at 1/4"-3/8" depth plus 1/2" diameter stem.
- Multiple mounting, glare control options, trims 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 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: L<sub>70</sub> > 60,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 60,000 hrs

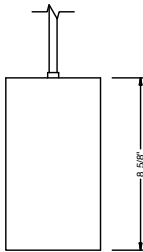
#### LISTING

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

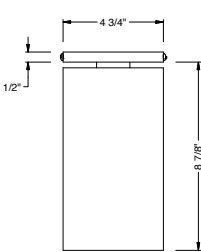
#### ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7 W, 10W (T20 CEC) and 12W EM 90min battery

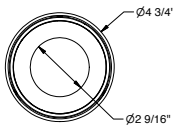
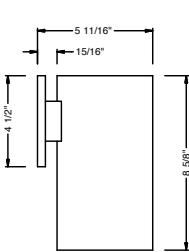
#### PENDANT



#### SURFACE MOUNT



#### WALL MOUNT



PROJECT INFORMATION			
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ORDERING CODE												
SERIES	BETA	BETA										
TYPE	4R	4" round										
LED	SW	standard white										
DELIVERED LUMENS	10LM	1100 lm										
	15LM	1520 lm										
	20LM	1830 lm										
	25LM	2410 lm										
	30LM	3030 lm										
	35LM <sup>1</sup>	3490 lm										
	Standard Configuration: 3000K 80CRI HE60 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	0.85	1.03	0.88	1.06	0.91
	40K	4000K										
CRI	80	80 CRI										
	90	90 CRI										
OPTIC & LM MULTIPLIER	HE40	40° high efficiency diffused lens									(0.98)	
	HE60	60° high efficiency diffused lens									(0.98)	
	HE70	70° high efficiency diffused lens									(0.95)	
	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)	
	SS25	25° semi-specular with clear lens									(0.92)	
	SS30	30° semi-specular with clear lens									(0.91)	
	SS55	55° semi-specular with clear lens									(0.92)	
	D35	35° diffused with clear lens									(0.90)	
	D50	50° diffused with clear lens									(0.86)	
	D55	55° diffused with clear lens									(0.95)	
	WH70	70° brilliant white with clear lens									(1.00)	
ACCESSORY	HCL <sup>2</sup>	honeycomb louver										
	Attached to bezel											
BEZEL LENS	NL <sup>3</sup>	no lens										
FINISH	BK	black									(0.98)	
	WH	white									(1.00)	
	MC	matte chrome									(0.99)	
BEZEL COLOR	BK	black									(0.98)	
	WH	white									(1.00)	
	MC	matte chrome									(0.99)	
	BZ	bronze									(0.98)	
	WT	wheat									(0.99)	

ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 5	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
	RPF2	rigid pendant 2' with fixed stem/canopy
	RPF3	rigid pendant 3' with fixed stem/canopy
	RPF4	rigid pendant 4' with fixed stem/canopy
	RPF6	rigid pendant 6' with fixed 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
	JCOV-XX <sup>4</sup>	conduit junction box cover with knockouts, complete XX code with desired pendant mount
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	0-10V dimming to 1%
	LUTP <sup>5</sup>	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 <sup>6</sup>	leading & trailing edge (Triac/ELV) dimming to 1%
ELECTRICAL OPTIONS	CAS	Casambi Bluetooth control with flicker free 1% dimming
	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 - 4R - SW - 25LM - 35K - 80 - HE60 - WH - WH - P - UNV - DIM10 - EM7	

NOTES	
1.	35LM not offered in 90 CRI.
2.	HCL not available with lens. Multiply delivered lumens by (0.78) and beam spread by (0.80) .
3.	NL option available for SS25/SS30/SS35/D35/D50/D55/WH70.
4.	JCOV not available with RP mounting.
5.	LUTP available in 15LM/20LM.
6.	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.	

# alphabet

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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, unless otherwise noted.



CL

Clear Lens

OPTIC	BEAM ANGLE	UGR
SS25	24.4	15
SS30	32.3	15.4
SS55	56.8	17.6
D35	36.2	16.3
D50	47.9	17.9
D55	56.8	19.6
WH70	71.9	25.4



DL

Diffused Lens

OPTIC	BEAM ANGLE	UGR
HE40	43.2	20.5
HE60	60.7	22.1
HE70	68.1	25.4



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

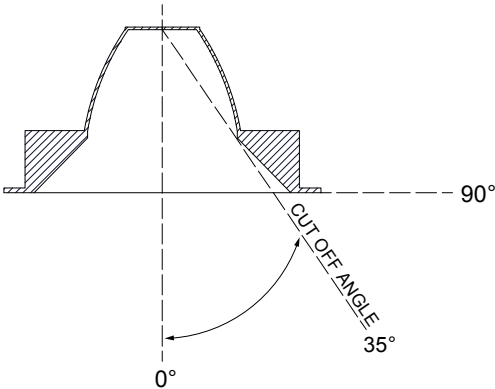
## GLARE CONTROL

### 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 NL and CL is 35 degrees



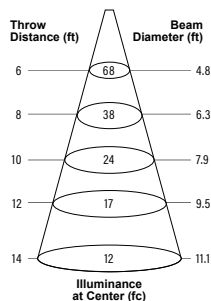
PROJECT INFORMATION		
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## PHOTOMETRIC DATA

### 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 / Distance <sup>2</sup>		

### HE40 43° HIGH EFFICIENCY DIFFUSED LENS



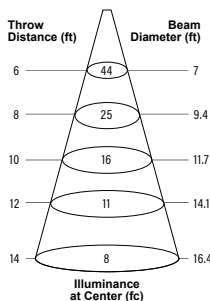
WATTS: 17.1 LPW: 104.5

LUMENS: 1788 CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	2440
5	2345
15	1721
25	996
35	519
45	245

### HE60 61° HIGH EFFICIENCY DIFFUSED LENS



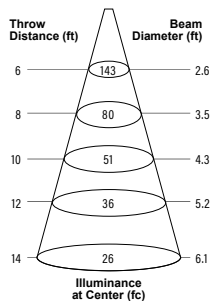
WATTS: 17.1 LPW: 104.1

LUMENS: 1781 CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	1601
5	1573
15	1359
25	1008
35	625
45	314

### SS25 25° SEMI-SPECULAR WITH CLEAR LENS



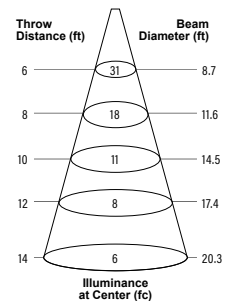
WATTS: 17.1 LPW: 98.4

LUMENS: 1685 CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	5143
5	4539
15	2025
25	926
35	359
45	42

### WH70 72° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 17.1 LPW: 106.7

LUMENS: 1825 CCT: 3000K

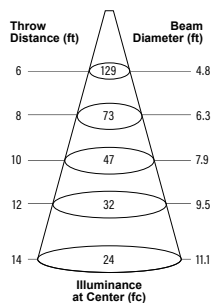
#### INTENSITY

DEGREE	CANDELA
0	1131
5	1124
15	1075
25	1003
35	629
45	289

### 35LM 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 <sup>2</sup>		

### HE40 43° HIGH EFFICIENCY DIFFUSED LENS



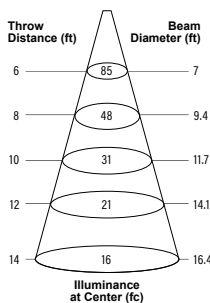
WATTS: 37.1 LPW: 92.1

LUMENS: 3415 CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	4659
5	4479
15	3288
25	1903
35	990
45	468

### HE60 61° HIGH EFFICIENCY DIFFUSED LENS



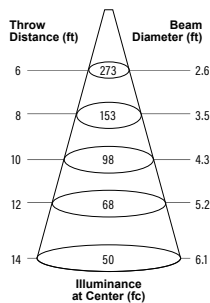
WATTS: 37.1 LPW: 91.7

LUMENS: 3401 CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	3057
5	3003
15	2596
25	1925
35	1194
45	599

### SS25 25° SEMI-SPECULAR WITH CLEAR LENS



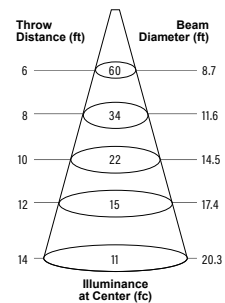
WATTS: 37.1 LPW: 86.7

LUMENS: 3217 CCT: 3000K

#### INTENSITY

DEGREE	CANDELA
0	9822
5	8668
15	3867
25	1769
35	685
45	79

### WH70 72° BRILLIANT WHITE WITH CLEAR LENS



WATTS: 37.1 LPW: 94

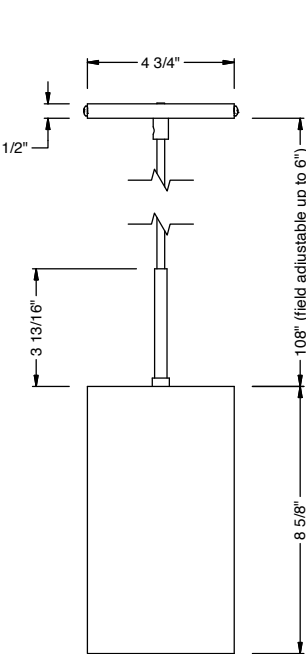
LUMENS: 3486 CCT: 3000K

#### INTENSITY

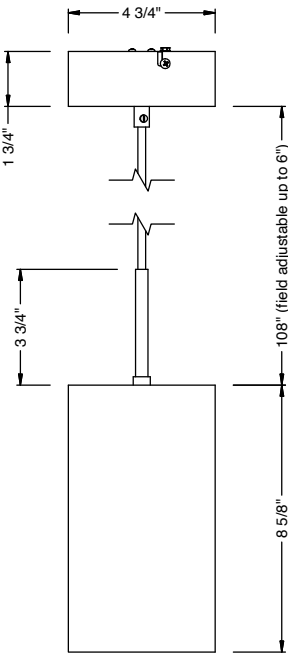
DEGREE	CANDELA
0	2159
5	2146
15	2053
25	1916
35	1201
45	553

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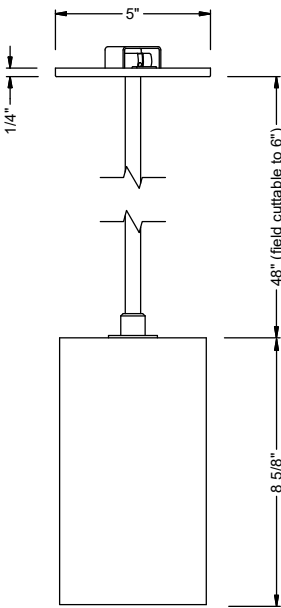
## MOUNTING OPTIONS



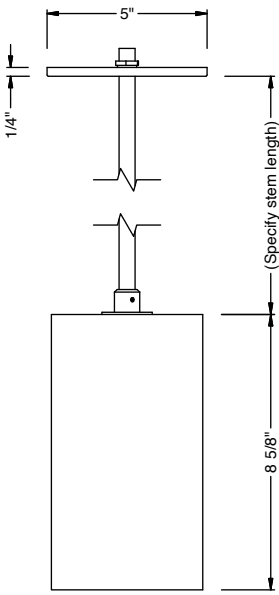
PENDANT  
ELV1 / CAS



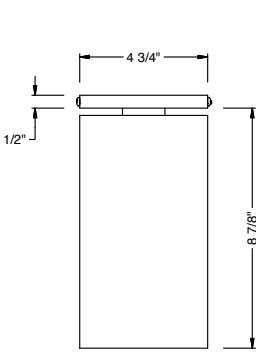
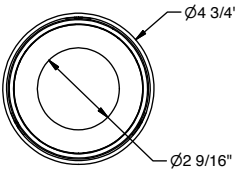
PENDANT  
DIM10 / LUTP



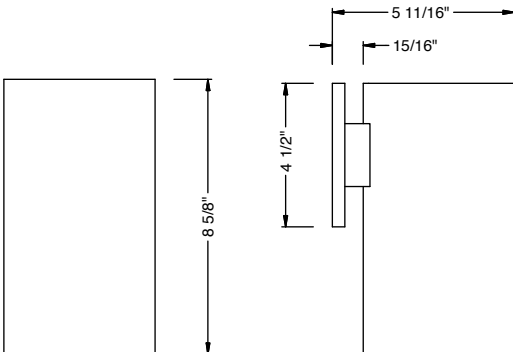
RP SWIVEL  
DIM10 / ELV1 / CAS



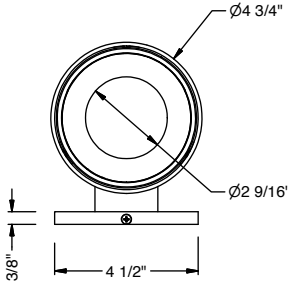
RP FIXED  
DIM10 / ELV1 / CAS



SURFACE MOUNT  
DIM10 / ELV1 / LUTP / CAS



WALL MOUNT  
DIM10 / ELV1 / LUTP / CAS



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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

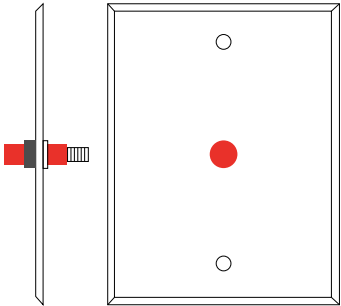
The remote test switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service.

REMOTE LOCATION

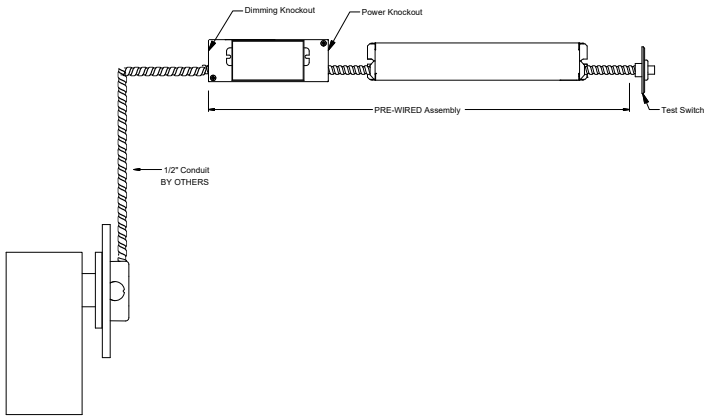
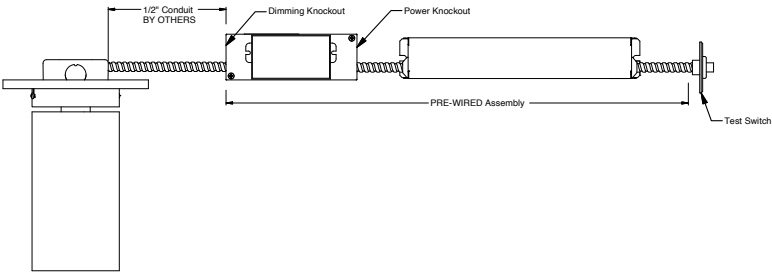
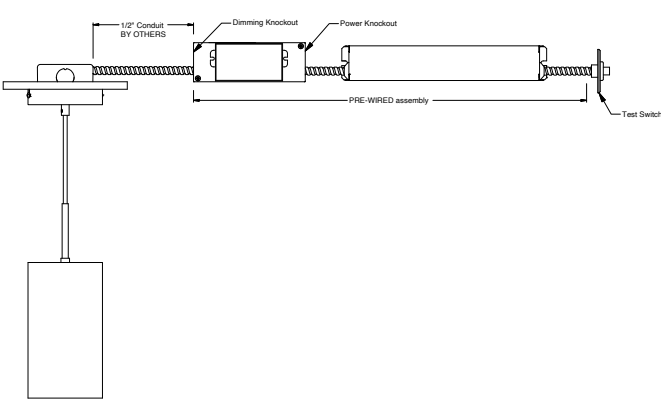
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all local and national electric/building codes.



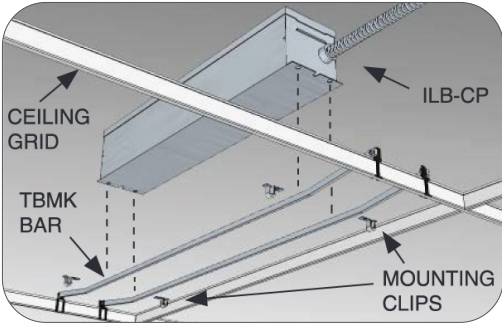
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (15LM TO 35LM)	880LM	1280LM	1480LM
Notes: Based on 30K, 80CRI			

REMOTE BATTERY



Accessory  
76066 Optional T-Grid Mounting Kit<sup>1</sup>



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