alphabet

BETA6

6" 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	980LM @30K/80CRI	9W
15LM	1200LM @30K/80CRI	11W
20LM	1650LM @30K/80CRI	15W
25LM	2110LM @30K/80CRI	18W
30LM	2650LM @30K/80CRI	23W
35LM	3120LM @30K/80CRI	28W
40LM	3710LM @30K/80CRI	35W
45LM	4090LM @30K/80CRI	40W
10LM	830LM @30K/90CRI	9W
15LM	1020LM @30K/90CRI	11W
20LM	1410LM @30K/90CRI	15W
25LM	1790LM @30K/90CRI	18W
30LM	2250LM @30K/90CRI	23W
35LM	2650LM @30K/90CRI	28W
40LM	3150LM @30K/90CRI	35W
45LM	3480LM @30K/90CRI	40W
Notes	Delivered lumens based on HE60, 3000K (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	930LM @30K/80CRI	9W
15LM	1380LM @30K/80CRI	12W
20LM	1740LM @30K/80CRI	17W
25LM	2160LM @30K/80CRI	21W
30LM	2710LM @30K/80CRI	28W
35LM	3090LM @30K/80CRI	34W
40LM	3580LM @30K/80CRI	41W
10LM	810LM @30K/90CRI	9W
15LM	1190LM @30K/90CRI	12W
20LM	1510LM @30K/90CRI	17W
25LM	1870LM @30K/90CRI	21W
30LM	2350LM @30K/90CRI	28W
35LM	2680LM @30K/90CRI	34W
40LM	3100LM @30K/90CRI	41W
Notes	Delivered lumens based on S10 no Lens, 3000K (see page 2)	

eldoLED · LUTRON OEM ADVANTAGE ACCOUNT · CASAMBI

FEATURES
- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 10° - 70° beam spread
- UGR < 19
- Micro slim canopy option at 1/4" depth, diameter of stem 3/8" IP
- Multiple mounting, glare control options, trims and finishes available

LED
- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs

DIMMING AND CONTROLS
- eldoLED flicker free 0-10V dimming to 1% and 0%
- eldoLED flicker free DALI dimming to 1% and 0%
- DMX dim to zero
- Lutron Hi-lumen 2-Wire (Triac and Eco System) dimming to 0.1% and 1%
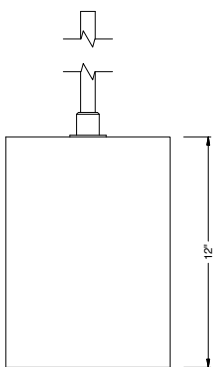- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi bluetooth dimming to 1.0%

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

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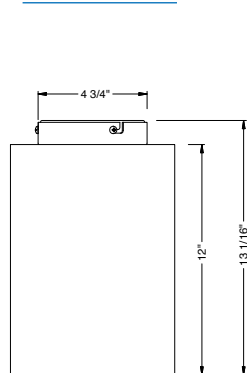- SVT pendant cord

ELECTRICAL
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 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)
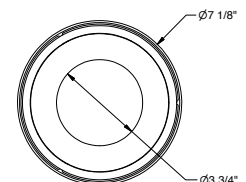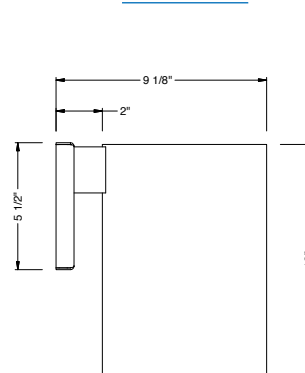- Low Voltage Luminaire option, see page 7.

PENDANT

SURFACE MOUNT
4 3/4" · 12" · 13 1/16"

WALL MOUNT
9 1/8" · 2" · 5 1/2" · 12"

Ø7 1/8" · Ø3 3/4"

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10° - 70° ORDERING CODE

SERIES	BETA	cylinder series
TYPE	6R	6" round
LED	SW	standard white

DELIVERED LUMENS		
10LM	980 lm
15LM	1200 lm
20LM	1650 lm
25LM	2110 lm
30LM	2650 lm
35LM	3120 lm
40LM	3710 lm
45LM	4090 lm

Standard Configuration: 3000K 80CRI HE60
Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier]

CCT		
27K	2700K
30K	3000K
35K	3500K
40K	4000K

CCT	2700K		3000K		3500K		4000K	
CRI	80+	90+	80+	90+	80+	90+	80+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1	0.85	1.03	0.88	1.06	0.91

CRI		
80	80 CRI
90	90 CRI

OPTIC & LM MULTIPLIER SEE PAGE 3			
D40	40° diffused with clear lens	(0.86)
D60	60° diffused with clear lens	(0.90)
HE40	40° high efficiency diffused lens	(0.99)
HE60	60° high efficiency diffused lens	(1.00)
HE80	80° high efficiency diffused lens	(0.96)
S10[1]	10° specular with clear lens	(1.00)
SS30	30° semi-specular with clear lens	(0.89)
SS40	40° semi-specular with clear lens	(0.90)
SS60	60° semi-specular with clear lens	(0.92)
WH70	70° brilliant white with clear lens	(0.99)

FINISH SEE PAGE 3		
BK	black
WH	white
MC	matte chrome
CC[3]	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)
CC[3]	custom color, consult factory for details	

Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.

10° - 70° ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5		
W	wall mount
S	surface mount
JCOV-S	conduit junction box cover with knockouts, surface
AC6	aircraft cable canopy with power cord, 6ft
AC8	aircraft cable canopy with power cord, 8ft
AC10	aircraft cable canopy with power cord, 10ft
AC12	aircraft cable canopy with power cord, 12ft
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-XX[4]	conduit junction box cover with knockouts, complete XX code with desired pendant mount

VOLTAGE		
120	120V
UNV	120V-277V
LVL[5]	low voltage luminaire

DIMMING		
DIM10	eldoLED flicker free 0-10V dimming to 1%
DIM10Z	eldoLED flicker free 0-10V dimming to 0%
DALI	eldoLED flicker free DALI 2 dimming to 1%
DALIZ	eldoLED flicker free DALI 2 dimming to 0%
DMXZ[6]	DMX dim to zero
LUT[7]	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
LUTP[8]	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
ELV1[7,9]	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, Remote TS
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 - 6R - SW - 30LM - 35K - 80 - HE80 - WH - WH - P - UNV - DIM10 - EM7

NOTES
1. S10 not available in 45LM.
2. HCL not available with lens. Multiplier: Delivered Lumens (0.78) / Beam Spread (0.80).
3. Custom set up fee plus minimum quantity required per color.
4. JCOV available with RPF mounting.
5. Must select ND dimming code, for remote driver or POE specifications see page 7.
6. DMX not available with AC mounting.
7. ELV1/LUT not available in 45LM.
8. LUTP not available in 25LM/30LM/35LM/40LM/45LM.
9. 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.

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

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TRIM OPTIONS

TRIM/BEZEL COLORS

Bezel Lens ——

Bezel ——

WH   **MC**   **BK**

OPTICAL OPTIONS

▪ UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
▪ UGR calculation based on 30LM fixtures, unless otherwise noted.

CL
Clear Lens

OPTIC	BEAM ANGLE	UGR
S10	9	11.9
SS30	33	11.8
SS40	36	13.8
SS60	48	14.2
D40	32	11
D60	61	15.6
WH70	75	18.5

NL
*No Lens

OPTIC	BEAM ANGLE	UGR
S10	9	11.8
SS30	33	12
SS40	36	14.1
SS60	48	14.5
D40	32	11.2
D60	61	15.9
WH70	75	18.9

HE
High Efficiency Diffused Lens

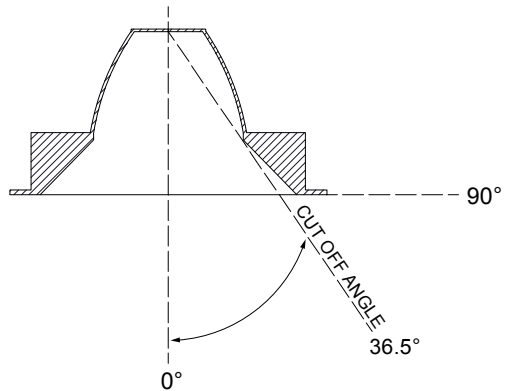| OPTIC	BEAM ANGLE	UGR
HE40	40	15.9
HE60	58	18.4
HE80	82	20.8

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 36.5 degrees

90°

CUT OFF ANGLE

36.5°

0°

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PHOTOMETRIC DATA

MULTIPLIER HEAD	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

D40 — 32° DIFFUSED WITH CLEAR LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	110	3.4
8	62	4.5
10	40	5.7
12	28	6.8
14	20	8

WATTS: 14.3	LPW: 113.3
LUMENS: 1620	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3978
5	3698
15	2127
25	943
35	332
45	33

HE40 — 40° HIGH EFFICIENCY DIFFUSED LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	71	4.4
8	40	5.8
10	26	7.3
12	18	8.7
14	13	10.2

WATTS: 14.3	LPW: 115.1
LUMENS: 1646	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2566
5	2450
15	1714
25	916
35	454
45	207

HE60 — 58° HIGH EFFICIENCY DIFFUSED LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	43	6.6
8	24	8.8
10	16	11
12	11	13.2
14	8	15.4

WATTS: 14.3	LPW: 115.7
LUMENS: 1654	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1566
5	1533
15	1294
25	928
35	574
45	303

WH70 — 75° BRILLIANT WHITE WITH CLEAR LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	29	9.3
8	16	12.4
10	11	15.5
12	7	18.6
14	5	21.7

WATTS: 14.3	LPW: 108.3
LUMENS: 1549	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1056
5	1049
15	1004
25	928
35	691
45	248

D40 — 60° HIGH EFFICIENCY LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	273	3.4
8	154	4.5
10	98	5.7
12	68	6.8
14	50	8

WATTS: 39.9	LPW: 100.4
LUMENS: 4007	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	9842
5	9150
15	5262
25	2334
35	822
45	83

HE40 — 60° HIGH EFFICIENCY LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	176	4.4
8	99	5.8
10	63	7.3
12	44	8.7
14	32	10.2

WATTS: 39.9	LPW: 102.1
LUMENS: 4073	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6348
5	6062
15	4241
25	2266
35	1122
45	512

HE60 — 60° HIGH EFFICIENCY LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	108	6.6
8	61	8.8
10	39	11
12	27	13.2
14	20	15.4

WATTS: 39.9	LPW: 102.6
LUMENS: 4092	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3874
5	3792
15	3203
25	2296
35	1421
45	749

WH70 — 60° HIGH EFFICIENCY LENS

Throw Distance (ft)	Illuminance at Center (fc)	Beam Diameter (ft)
6	73	9.3
8	41	12.4
10	26	15.5
12	18	18.6
14	13	21.7

WATTS: 39.9	LPW: 96.1
LUMENS: 3833	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2612
5	2595
15	2483
25	2295
35	1710
45	614

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MOUNTING OPTIONS

5"

1/4"

140" (field adjustable to 12")

12"

PENDANT
DIM10 / ELV1 / LUTP / DALI / CAS

5"

1/4"

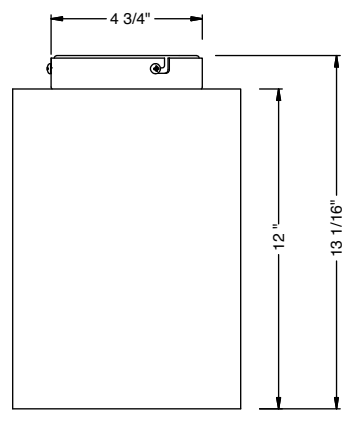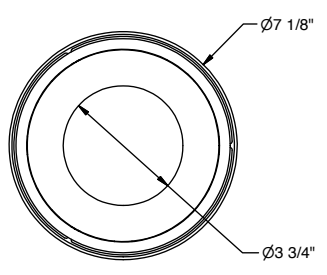48" (field cuttable to 6")

12"
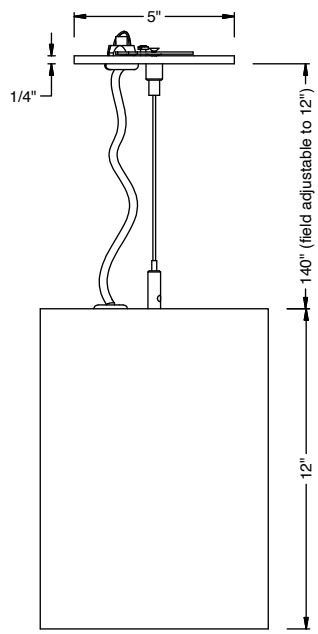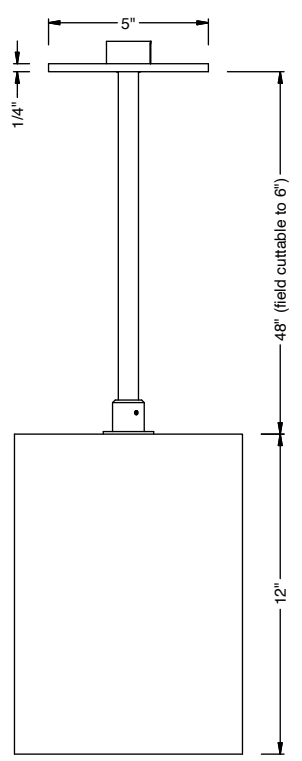
RP SWIVEL
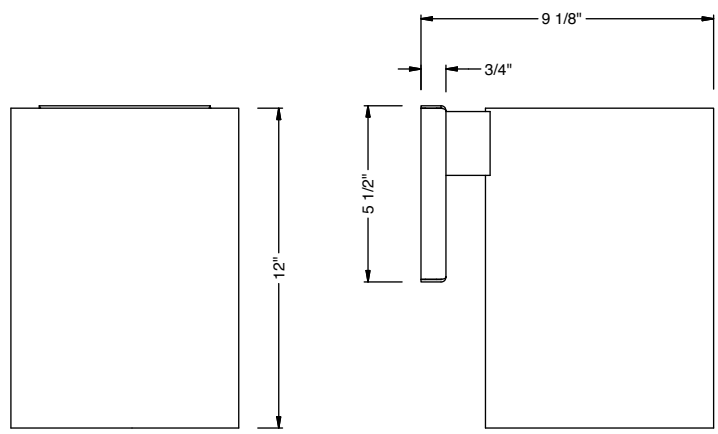DIM10 / ELV1 / LUTP / DALI / DMX / CAS

H
RP   48-3/8" (field adjustable to 6")
RP5   60-3/8" (field adjustable to 6")
RP6   72-3/8" (field adjustable to 6")
RP8   96-3/8" (field adjustable to 54")
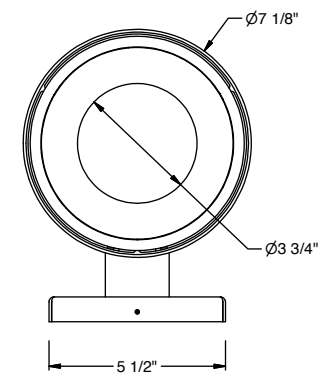RP10 120-3/8" (field adjustable to 66")

45° MAX

RP Detail

5"

1/4"

(Specify stem length)

12"
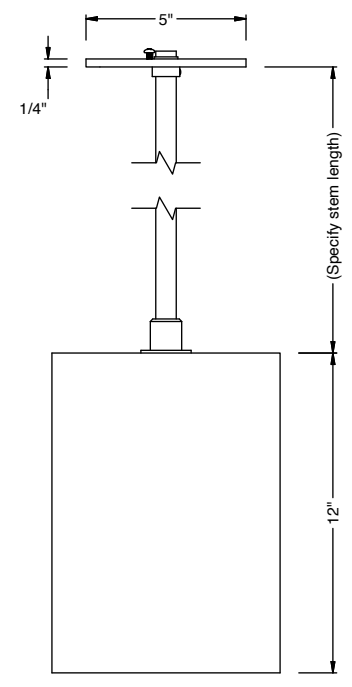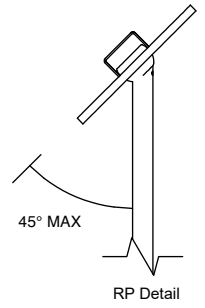
RP FIXED
DIM10 / ELV1 / LUTP / DALI / DMX / CAS

Ø7 1/8"

Ø3 3/4"

4 3/4"

12 "

13 1/16"

SURFACE
DIM10 / ELV1 / LUTP / DALI / DMX

12"

9 1/8"

3/4"

5 1/2"

12"

WALL MOUNT
DIM10 / ELV1 / LUTP / DALI / DMX

Ø7 1/8"

Ø3 3/4"

5 1/2"

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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 luminares.
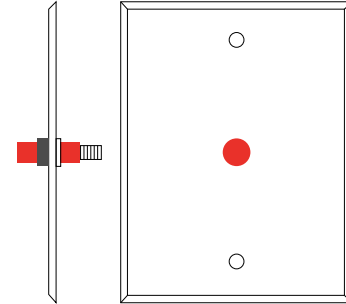
REMOTE TEST SWITCH

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

EMERGENCY BATTERY ACCESS

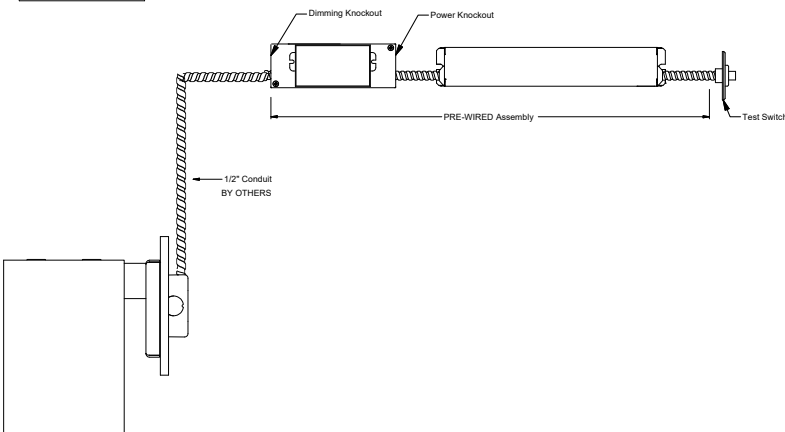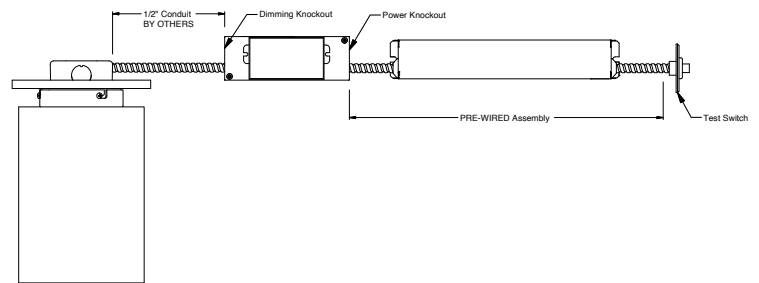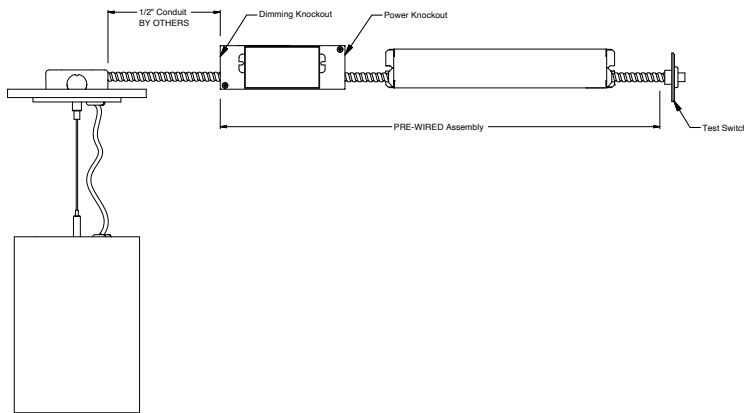Above ceiling access is recommended for ease of service.

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.
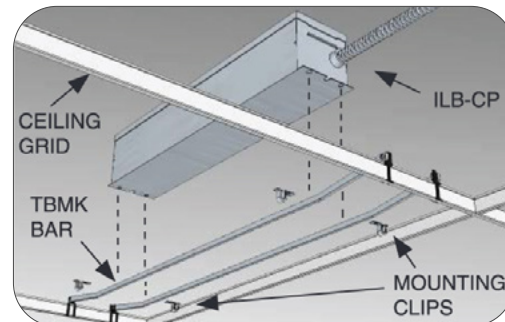

Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 45LM)	880LM	1280LM	1480LM
Notes: Based on 30K, 80CRI - Downlight only			

REMOTE BATTERY

1/2" Conduit BY OTHERS • Dimming Knockout • Power Knockout • PRE-WIRED Assembly • Test Switch

1/2" Conduit BY OTHERS • Dimming Knockout • Power Knockout • PRE-WIRED Assembly • Test Switch

Dimming Knockout • Power Knockout • PRE-WIRED Assembly • Test Switch • 1/2" Conduit BY OTHERS

Accessory
76066 Optional T-Grid Mounting Kit[1]

CEILING GRID • ILB-CP • TBMK BAR • MOUNTING CLIPS

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

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LOW VOLTAGE OPTIONS

30° -70° BEAM			
(Note: Specifications are subject to change without notice)			
14mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	980LM @30K/80CRI	200mA	7.2W
15LM	1200LM @30K/80CRI	250mA	9W
20LM	1650LM @30K/80CRI	350mA	12.6W
25LM	2110LM @30K/80CRI	450mA	16.2W
30LM	2650LM @30K/80CRI	575mA	20.7W
35LM	3120LM @30K/80CRI	700mA	25.2W
40LM	3710LM @30K/80CRI	850mA	30.6W
45LM	4090LM @30K/80CRI	950mA	34.2W
10LM	830LM @30K/90CRI	200mA	7.2W
15LM	1020LM @30K/90CRI	250mA	9W
20LM	1410LM @30K/90CRI	350mA	12.6W
25LM	1790LM @30K/90CRI	450mA	16.2W
30LM	2250LM @30K/90CRI	575mA	20.7W
35LM	2650LM @30K/90CRI	700mA	25.2W

10° BEAM			
(Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	930LM @30K/80CRI	200mA	7.2W
15LM	1380LM @30K/80CRI	300mA	10.8W
20LM	1740LM @30K/80CRI	400mA	14.4W
25LM	2160LM @30K/80CRI	500mA	18W
30LM	2710LM @30K/80CRI	650mA	23.4W
35LM	3090LM @30K/80CRI	775mA	27.9W
40LM	3580LM @30K/80CRI	925mA	33.3W
10LM	810LM @30K/90CRI	200mA	7.2W
15LM	1190LM @30K/90CRI	300mA	10.8W
20LM	1510LM @30K/90CRI	400mA	14.4W
25LM	1870LM @30K/90CRI	500mA	18W
30LM	2350LM @30K/90CRI	650mA	23.4W
35LM	2680LM @30K/90CRI	775mA	27.9W
40LM	3100LM @30K/90CRI	925mA	33.3W

NOMINAL LED VOLTAGE: 36VDC

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

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Luminaire provided with low voltage LED pigtail when ordering **LVL**

Luminaire
(Fixture may look different)

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