

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

BETA

6" Square Adjustable Standard White



20° - 55° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	880LM @30K/80CRI	9W
15LM	1280LM @30K/80CRI	13W
20LM	1670LM @30K/80CRI	17W
25LM	2020LM @30K/80CRI	22W
30LM	2410LM @30K/80CRI	27W
10LM	740LM @30K/90CRI	9W
15LM	1080LM @30K/90CRI	13W
20LM	1410LM @30K/90CRI	17W
25LM	1710LM @30K/90CRI	22W
30LM	2030LM @30K/90CRI	27W
Notes	Delivered lumens based on 35D 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	1220LM @30K/80CRI	19W
20LM	1550LM @30K/80CRI	31W
10LM	730LM @30K/90CRI	11W
15LM	1025LM @30K/90CRI	19W
20LM	1310LM @30K/90CRI	31W
Notes	Delivered lumens based on 15D optic with no lens, (see page 2)	

9.5° BEAM (Note: Specifications are subject to change without notice)		
4.5mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	705LM @30K/80CRI	17.5W
10LM	595LM @30K/90CRI	17.5W
Notes	Delivered lumens based on 9D optic with SBL lens, (see page 2)	



FEATURES

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 9° - 55° beam spread
- UGR <5
- Micro slim canopy option at 1/4" depth
- Multiple mounting, glare control options, trims and finishes available

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 0.1%

CONSTRUCTION

- Extruded aluminum housing
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Impact and chemical resistant at the highest level

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs
- 80 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs

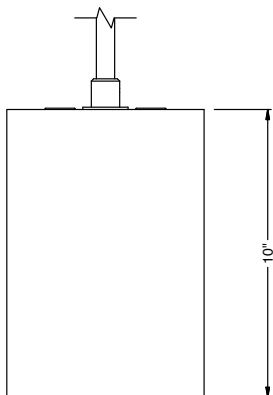
LISTING

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

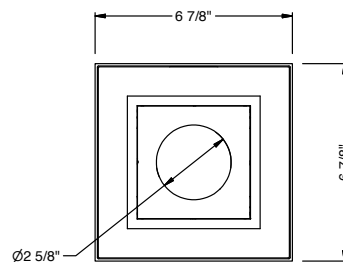
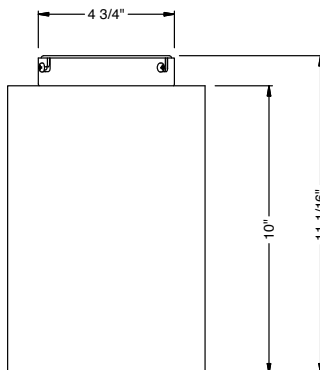
ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power 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



alphabet

PROJECT INFORMATION		
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9°- 55° BEAM ORDERING CODE

SERIES	BETA	BETA																											
TYPE	6QA	6" square adjustable																											
LED	SW	standard white																											
DELIVERED LUMENS	10LM	880 lm																											
	15LM	1280 lm																											
	20LM	1670 lm																											
	25LM	2020 lm																											
	30LM	2410 lm																											
Standard Configuration: 3000K 80CRI 35D, No lens Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]																													
CCT	27K	2700K																											
	30K	3000K																											
	35K	3500K																											
	40K	4000K																											
<table border="1"> <thead> <tr> <th rowspan="2">CCT</th> <th colspan="2">2700K</th> <th colspan="2">3000K</th> <th colspan="2">3500K</th> <th colspan="2">4000K</th> </tr> <tr> <th>CRI</th> <th>80+</th> <th>90+</th> <th>80+</th> <th>90+</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>1.00</td> <td>0.85</td> <td>1.03</td> <td>0.88</td> <td>1.06</td> <td>0.91</td> </tr> </tbody> </table>			CCT	2700K		3000K		3500K		4000K		CRI	80+	90+	80+	90+	80+	90+	80+	90+	CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91
CCT	2700K			3000K		3500K		4000K																					
	CRI	80+	90+	80+	90+	80+	90+	80+	90+																				
CCT MULTIPLIER FOR LUMEN OUTPUT	0.96	0.81	1.00	0.85	1.03	0.88	1.06	0.91																					
CRI	80	80 CRI																											
	90	90 CRI																											
OPTIC & LM MULTIPLIER SEE PAGE 3	9D¹	9.5 degrees (0.80)																											
	15D²	15 degrees (1.05)																											
	20D	20 degrees (0.93)																											
	25D	25 degrees (0.96)																											
	35D	35 degrees (1.00)																											
	55D	55 degrees (0.97)																											
TIR OPTIC ACCESSORY SEE PAGE 2	NA	no accessory (1.00)																											
	HCL	honeycomb louver (0.85)																											
	HETA	high efficiency textured lens, similar to Solite™ (0.90)																											
	EA³	elliptical lens (0.90)																											
Attached to TIR optic, field replaceable.																													
BEZEL LENS SEE PAGE 3	NL	no lens (1.00)																											
	CL	clear lens (0.98)																											
	DL	diffused lens (0.91)																											
	HET	high efficiency textured lens, similar to Solite™ (0.92)																											
	SBL	smoothing beam lens (0.92)																											
FINISH SEE PAGE 2	BK	black																											
	WH	white																											
	MC	matte chrome																											
BEZEL COLOR SEE PAGE 2	BK	black																											
	MC	matte chrome																											
	WH	white																											
	BZ	bronze																											
	WT	wheat																											

9°- 55° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 6	S	surface mount
	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
	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-XX⁴	conduit junction box cover with knockouts, complete XX code with desired pendant mount
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 2 dimming to 1%
	DALIZ	eldoLED flicker free DALI 2 dimming to 0%
	DMXZ⁵	DMX dim to zero
	LTE⁶	Lutron Hi-lume 2-Wire (Triac) dimming to 1%
	LUT⁷	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP⁷	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
ELECTRICAL OPTIONS	ELV1⁶	leading & trailing edge (Triac/ELV) dimming to 1%
	CAS	Casambi Bluetooth control with flicker free 1% dimming
	EM7	remote emergency battery backup, 90 minutes at 7 watts to LED
ELECTRICAL OPTIONS	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 - 6QA - SW - 20LM - 35K - 90 - 35D - NA - HET - WH - WH - RP - UNV - DIM10 - EM7

NOTES

- 9D only available in 10LM.
- 15D only available in 10LM/15LM/20LM. Not available with DL lens options.
- Elliptical lens not available with 9D/15D optics. Actual beam distributions for optic [20D= 35° x 60°, 25D= 40° x 65°, 35D= 45° x 70°, 55D= 55° x 80°]
- JCOV offered with round canopy, not available in RP.
- DMX only available with RP or RPF mounting.
- LTE/ELV1 (120V) not available in 10LM only with 20D/25D/35D/55D optics.
- LUTP not available in 15D/20LM or 25LM/30LM.

* 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.

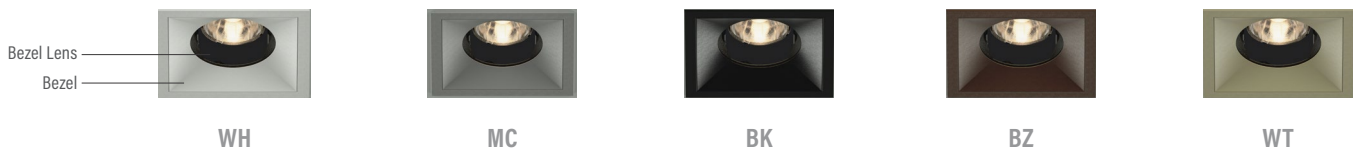
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e., DIM10LIN.

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BEZEL OPTIONS

BEZEL COLORS

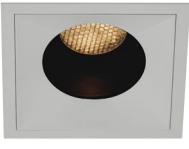


OPTICAL OPTIONS

- 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.

TIR OPTIC ACCESSORY

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	16.9	≤5
25D	22.5	≤5
35D	28.5	≤5
55D	45.9	10.5

NL

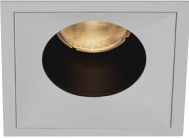
No Lens



OPTIC	BEAM ANGLE	UGR
15D	13.6	≤5
20D	18.3	≤5
25D	23.9	≤5
35D	30.8	≤5
55D	51.1	13.1

CL

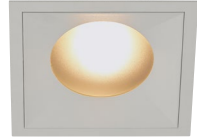
Clear Lens



OPTIC	BEAM ANGLE	UGR
15D	13.7	≤5
20D	20.1	≤5
25D	25.5	≤5
35D	34.4	7.5
55D	52.9	14

DL

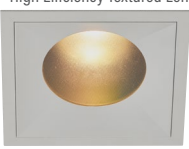
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	38.3	15.7
25D	41.5	17.2
35D	45	18.2
55D	57.8	20.9

HET

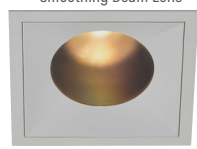
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	24.9	≤5
25D	28.7	8.8
35D	34	9.9
55D	51.6	15.7

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
9D*	9.5	8.2
15D	17	≤5
20D	21	≤5
25D	26.5	6.3
35D	33.3	8.1
55D	52.8	14.8

* UGR Calculation based on 10LM for 9D.

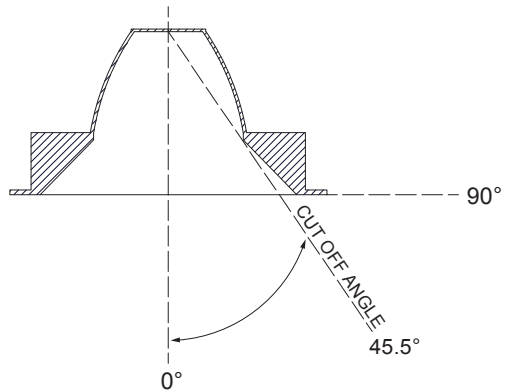
GLARE CONTROL

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 45.5 degrees;



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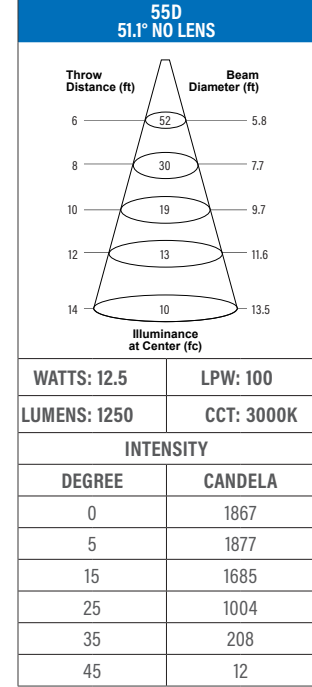
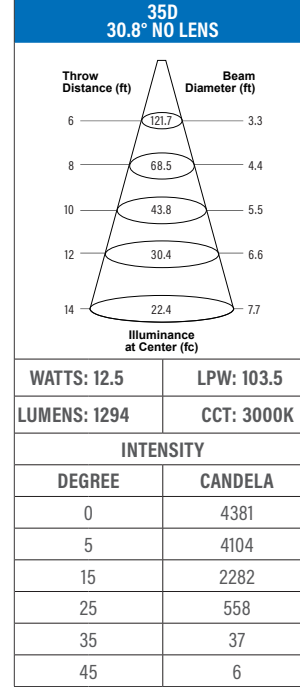
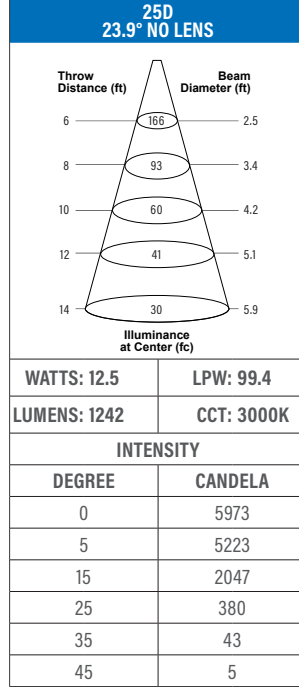
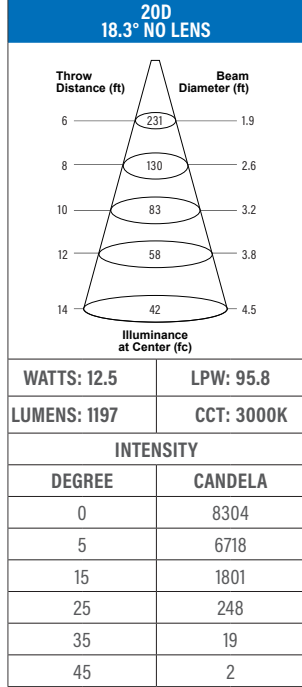
PROJECT INFORMATION		
JOB NAME		TYPE
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PHOTOMETRIC DATA

15LM CCT MULTIPLIERS

	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91

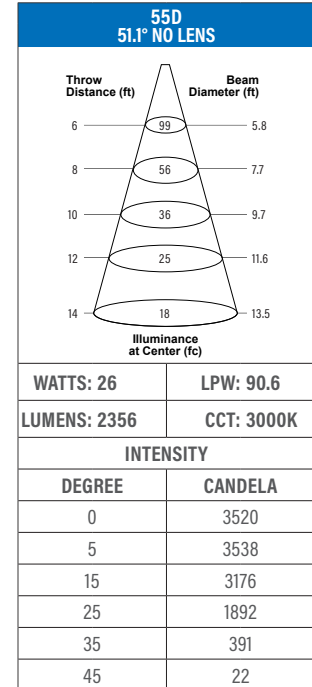
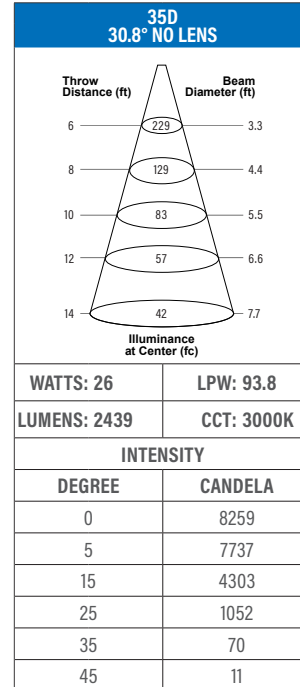
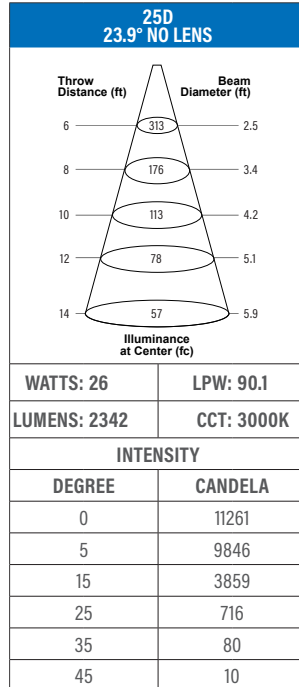
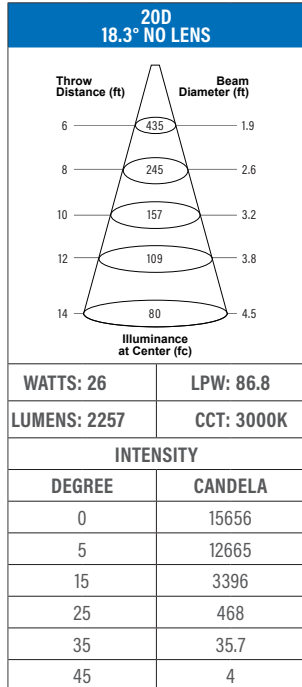
FC Formula = CBCP / Distance²



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 / Distance²



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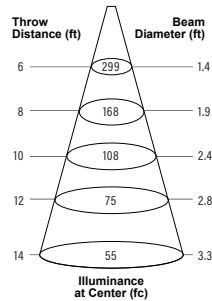
PROJECT INFORMATION		
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PHOTOMETRIC DATA

10LM CCT MULTIPLIERS

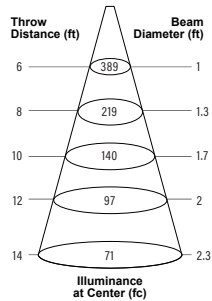
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

15D 13.5° NO LENS



WATTS: 11.5	LPW: 75.4
LUMENS: 868	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	10779
5	7316
15	942
25	53.6
35	6.2
45	0.7

9D 9.5° SMOOTHING BEAM LENS

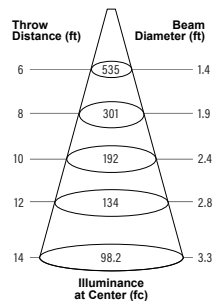


WATTS: 17.1	LPW: 40.4
LUMENS: 692	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	14002
5	6549
15	392
25	146
35	53.2
45	15.8

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 ²		

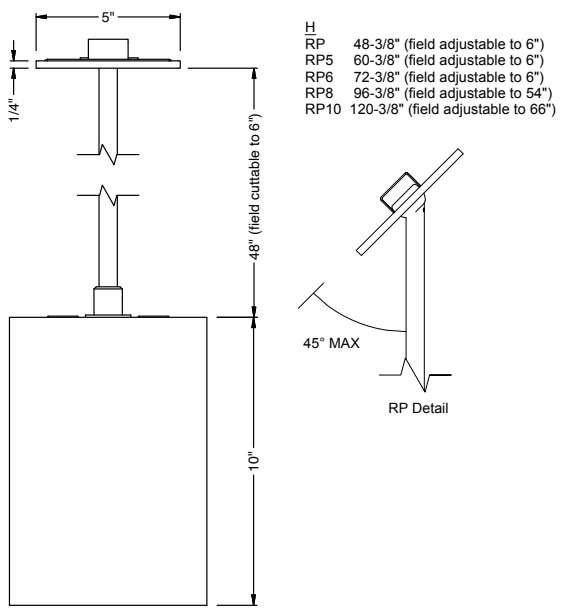
15D 13.5° NO LENS



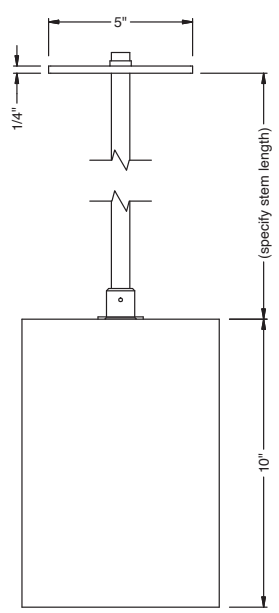
WATTS: 30.5	LPW: 50.8
LUMENS: 1549	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	19249
5	13063
15	1682
25	95.6
35	11
45	1.3

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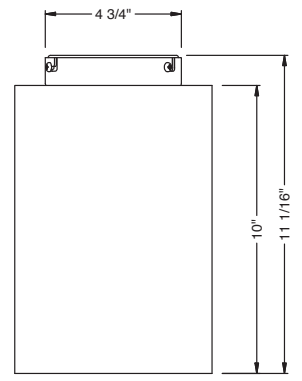
MOUNTING OPTIONS



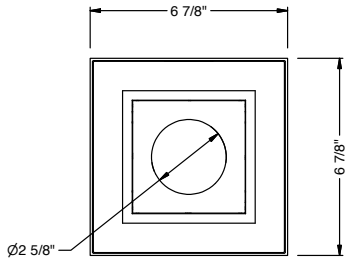
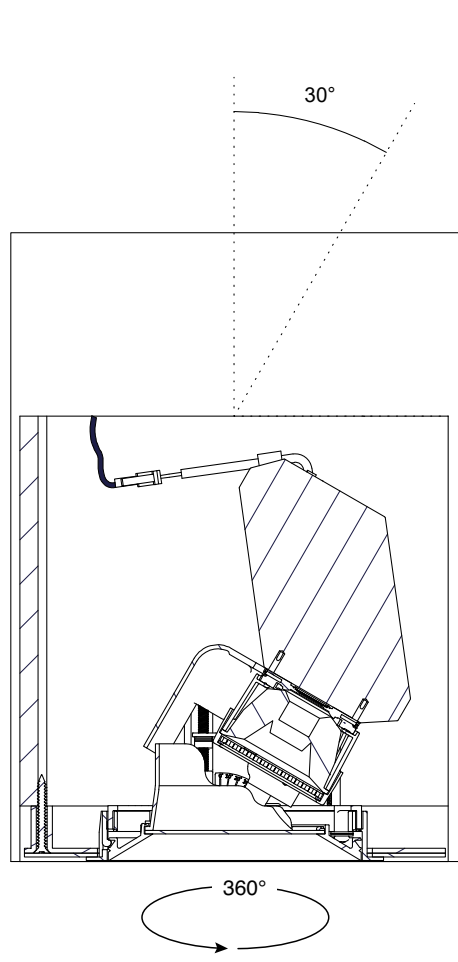
RP SWIVEL
 DIM10 / ELV1 / LUTP / DALI / DMX / CAS



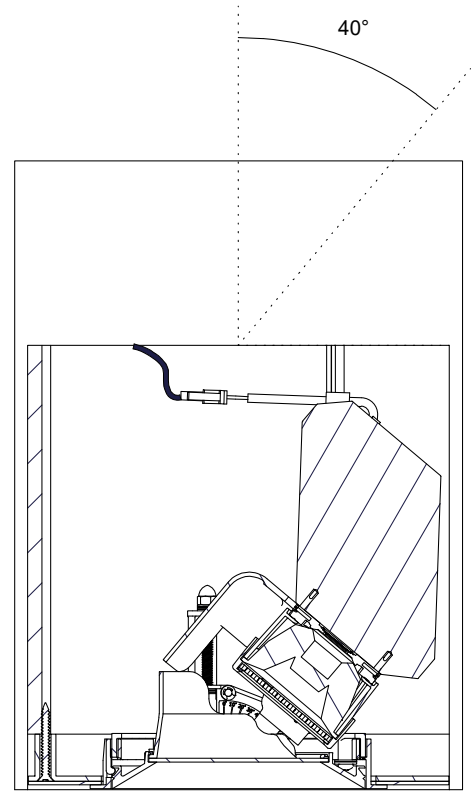
RP FIXED
 DIM10 / ELV1 / LUTP / DALI / DMX / CAS



SURFACE
 DIM10 / ELV1 / LUTP / DALI / DMX / CAS



ADJUSTABLE FIXTURE INFO	
TILT	ROTATION
0° - 30°	360°
30° - 40°	Fixed



NOTE:
 40° tilt - fixed is factory set, to achieve 360° reduce angle to 0°-30°.

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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

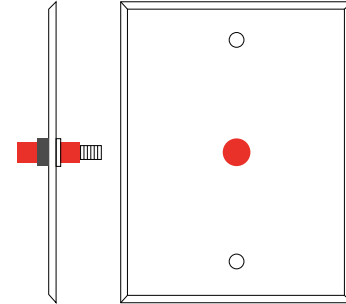
The remote test switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service.

REMOTE LOCATION

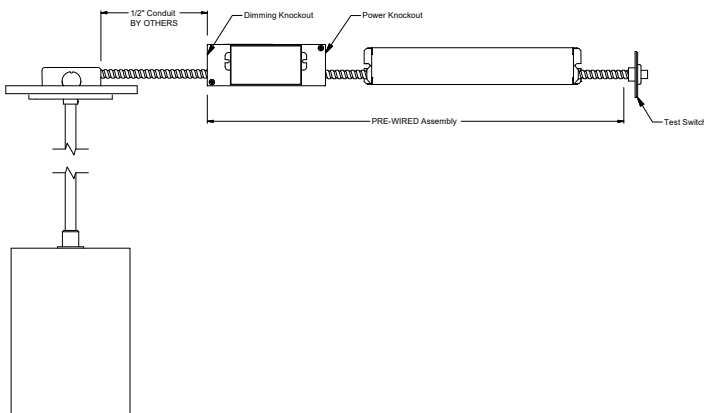
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all local and national electric/building codes.



Remote Test Switch

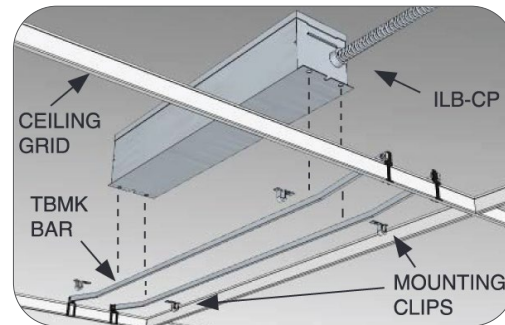
EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 40LM)	880LM	1280LM	1480LM
Notes: Based on 30K, 80CRI			

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.

