ELCO Lighting

Project Name:
Fixture Type:
Date:

KOTO™ MAX MULTIPLES SYSTEM

6W-32W, 2700K-4000K, Up to 3500 lm per head, 120-277V

KOTO™ MULTIPLES SYSTEM

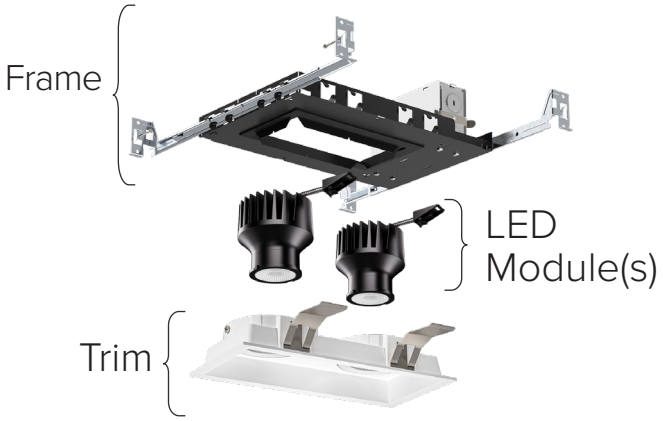
Brings the diversity of the Koto™ modular engine to any residential or commercial setting, creating a clean, elegant look featuring specification-grade illumination. Designed around a 1 ½" aperture, the luminaire features an integrated driver and tool-free installation.

FEATURES

- 1, 2, & 3 heads available
- Single head up to 3,500 lm, double head up to 7,000 lm, triple head up to 10,500 lm
- Driver on frame: 120-277V, 0-10V/Triac/ELV dimming to 1%
- 18°, 25°, 38°, 60°, and 90° beam angle options
- Shallow height requires less than 4" plenum space
- Excellent color rendering 95+ CRI
- Works with ceiling thickness up to 1.5"
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a 1, 2, or 3 Head Frame
2. Select Koto™ MAX LED Module(s)
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage Per Head	750 lm (6W), 1000 lm (8W), 1250 lm (11W), 1500 lm (14W), 2000 lm (19W), 2500 lm (23W), 3000 lm (29W), 3500 lm (32W)
Voltage	120-277V
Color Temp.	2700K, 3000K, 3500K or 4000K
CRI	95+
Dimming	0-10V/Triac/ELV (1%)
Beam Angle	18°, 25°, 38°, 60° & 90°
Finishes	All White, All Black

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PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one) Example: E2MCK073CDX

KOTO™ MAX MULTIPLES IC AIRTIGHT NEW CONSTRUCTION HOUSINGS

KOTO™ MAX	STYLE	LUMENS/WATTAGE PER HEAD	HEADS	VOLTAGE/DIMMING
E				
	2KMT 2" New Construction	**07**[2] 750 lm (6W)	**(Blank)** Single Head	**DX** 120-277V, 0-10V/Triac/ELV 1%
	CKTRM[1] Remodel	**10**[2] 1000 lm (8W)	**B2** Double Head	
		12[2] 1250 lm (11W)	**C3** Triple Head	
		15[2] 1500 lm (14W)		
		20[3] 2000 lm (19W)		
		25[3] 2500 lm (23W)		
		30[3] 3000 lm (29W)		
		35[3] 3500 lm (32W)		
	[1] Remodel is available up to 2500 lm	[2] IC rated for direct contact with insulation, UL & cUL up to 1500 lumens. [3] Non IC, for use without insulation. 2000 - 3500 lumens.		

STEP 2. Specify Koto™ MAX LED Module part number (Select one) Example: ECKT3527D-S

ITEM	COLOR TEMPERATURE	BEAM ANGLE
ECKT35		
	27D 2700K	**(Blank)**[1] 38°
	30D 3000K	**-S** 18°
	35D 3500K	**-N** 25°
	40D 4000K	**-W** 60°
		-E [2] 90°
		[1] 38° installed on module with 25° & 60° included in the box. [2] 90° available with frosted reflector only

Field Changeable Secondary Module Optics								
L45 Black Hex Louver	**L57** White Hex Louver	**L46** Linear Lens	**L47** Spread Lens	**L49** Frosted Diffuser	**L54** Single Asymmetric	**L55** Double Asymmetric	**L50W** White Snoot	**L50B** Black Snoot

Koto Modules - Lumen Value Multiplier			
CCT	Multiplier	Beam Angle	Multiplier
2700K	0.95	**18˚**	0.88
3000K	1	**25˚**	0.93
3500K	1.01	**38˚**	1
4000K	1.015	**60˚**	1.05
		90˚	0.95

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PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one) Example: EKCM218B2W

KOTO™ MAX MULTIPLE TRIMS

STYLE	ITEM	HEADS	FINISH
EKCM			
	218 Trim	**A1** Single Head	**W** All White
		B2 Double Head	**BB** All Black
		C3 Triple Head	

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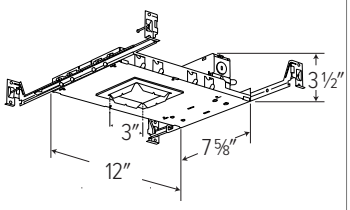
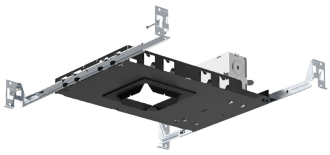
PRODUCT DIMENSIONS

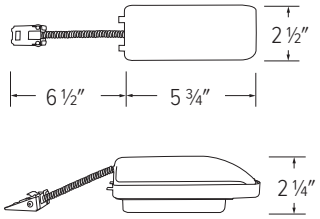
KOTO™ MAX MULTIPLES FRAMES AND REMODEL/RETROFIT POWER PACKS

E2KMTXXDX
SINGLE HEAD NEW CONSTRUCTION FRAME WITH DRIVER

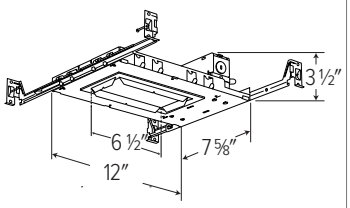




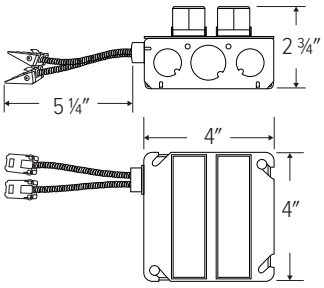
ECKTRMXXDX
SINGLE HEAD REMODEL/RETROFIT POWER PACK WITH DRIVER

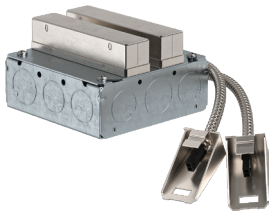


E2KMTXXB2DX
DOUBLE HEAD NEW CONSTRUCTION FRAME WITH DRIVER

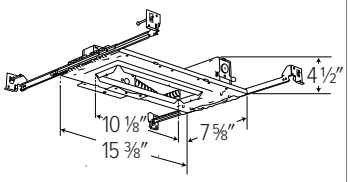


ECKTRMXXB2DX
DOUBLE HEAD REMODEL/RETROFIT POWER PACK WITH DRIVER

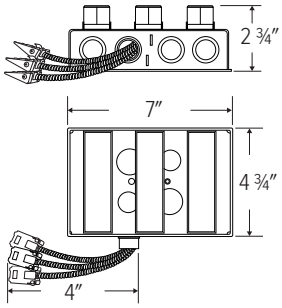


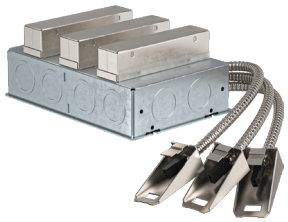


E2KMTXXC3DX
TRIPLE HEAD NEW CONSTRUCTION FRAME WITH DRIVER



ECKTRMXXC3DX
TRIPLE HEAD REMODEL/RETROFIT POWER PACK WITH DRIVER





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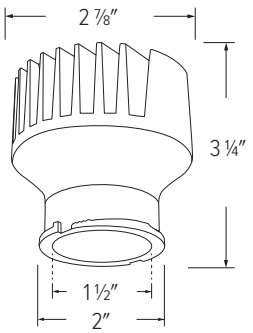
PRODUCT DIMENSIONS

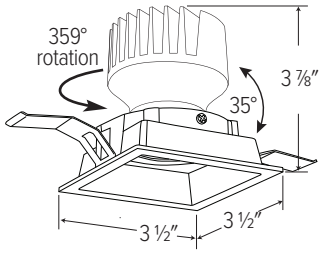
KOTO™ MAX LED LIGHT ENGINE

ECKT35
KOTO™ MAX LED COMMERCIAL MODULE



KOTO™ MAX MULTIPLES TRIMS

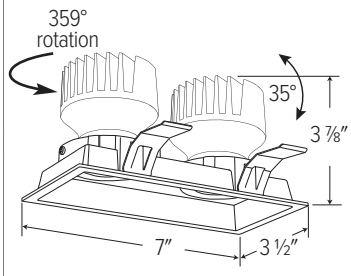
EKCM218A1 - SINGLE HEAD TRIM



W (All White)

BB (All Black)

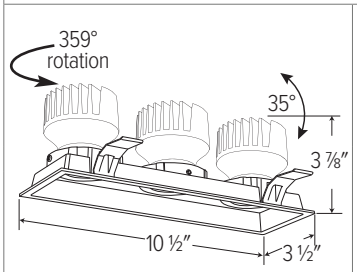
EKCM218B2 - DOUBLE HEAD TRIM



W (All White)

BB (All Black)

EKCM218C3 - TRIPLE HEAD TRIM



W (All White)

BB (All Black)

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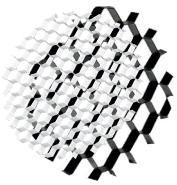
ACCESSORIES

LENS & OPTICS (field changeable)

FIELD CHANGEABLE LENS		HEX LOUVERS	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / **EP732C** (25°) **EP733C** (38°) / **EP734C** (60°)	**EP739C** (90°) Frosted Reflector	**L45** (Black) / **L57** (White) For a better glare shield	**L46** For a wide rectangular illumination pattern	**L47** For a symmetrical broadening of light beams

FROSTED DIFFUSER	SINGLE ASYMMETRIC LENS	DOUBLE ASYMMETRIC LENS	SNOOTS
L49 For a softer light	**L54** For elliptical illumination pattern	**L55** For elliptical illumination pattern	**L50W** (White) / **L50B** (Black) Reduces glare and light spill

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TECHNICAL DETAILS

Optics: PC lens diffuses light evenly throughout while reducing glare with LED COB technology.

Construction: IC rated for direct contact with insulation for 750 lm (6W), 1000 lm (8W), 1250 lm (11W) & 1500 lm (14W) outputs. Non IC rated for 2000 lm (19W), 2500 lm (23W), 3000 lm (29W), & 3500 lm (32W) outputs.

Construction (Light Engine): Diecast aluminum body with heat fins allow for efficient cooling.

Installation (Frame): High strength hanger bars can easily be nailed to joists. Suitable for T-grid and drop ceiling applications. See installation sheet for detailed information.

Hanger Bars: Pre-installed hanger bars with screws easy installation in regular lumber, engineered lumber, and laminated beams. Integral T-bar slots for easy installation in T-bars. Spans up 24″ and can be repositioned 90º. Score lines allow for tool-free hanger bar size reduction. Integral leveling flange allows for single-person installation while easily aligning the housings with the joists. Hanger bars ordered separately for Architectural Frame. 27″ Flat bars for wood construction (FB27) and 26″ C-Channel bars for T-bar ceiling (CH26) available.

Installation (Light Engine): Twist-On design for tool-less trim installation, for use with Koto™ MAX Multiples trims only.

LED Technology: Extremely accurate Color Rendering Index (CRI) of 95+. Lumen Maintenance of 50,000 hours L70 Life span based on LM80 standardized test results. Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness technology. No LED pixelation.

Electrical: Driver is rated for 120-277V input. High Efficiency driver with a power factor >0.95.

Dimming: Triac/ELV/0-10V dimming (1%)

Emergency Battery Pack: Optional 25W MAX. 90 minute battery backup accessible from below.

Listings: UL and cUL Listed for Damp Location. IC Rated for direct contact with insulation up to 14W (1500 lm). Non-IC for 19W-32W (2000 lm - 3500 lm). Light engine is thermally protected. RoHS Compliant.
Title 24 JA8-2025-E Compliant.

Warranty: ELCO Products are built to last with a 5-year Limited warranty.

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DIMMER COMPATIBILITY CHART

FOR REFERENCE ONLY

Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards. Consult the dimmer manufacturer prior to installation to ensure compatibility.

MANUFACTURER	PRODUCT	PART NUMBER	DIMMED LIGHT OUTPUT RANGE
120V - Triac/ELV Dimmers for E2MKT & ECKTRM Series			
Leviton	120V AC 60Hz, 300W Electronic Low Voltage, 400 Volt Amp, Single Pole, 3-Way	IPE04	1% - 100%
	120V AC 60Hz, 300W CFL or 600W Incandescent, 400 Volt Amp, Single Pole, 3-Way	6673-10W	1% - 100%
	120V AC, 600W Incandescent with LED Locator, Single Pole, 3-Way	VP106	1% - 100%
	120V AC 60Hz, 500W Incandescent with LED Level Indicator, Single Pole, 3-Way	6161	1% - 100%
	120V AC, 150W LED/CFL or 600W Incandescent, Single Pole, 3-Way	6674	1% - 100%
Lutron	120V AC, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	RRD-6CL	1% - 100%
	120V AC 60Hz, 150W LED/CFL/Incandescent/Halogen, Single Pole, 3-Way	DVCL-153P	1% - 100%
	120V 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	TGCL-153P	1% - 100%
	120V AC 60Hz, 300W Electronic Low Voltage, 3-Way, Commercial/Residential Application	DVELV-303P	1% - 100%
	120V, 600W Incandescent/Halogen, Single Pole, Residential Indoor Application	TG-600P	1% - 100%
	120V, 1000W Incandescent or 600W Magnetic Low Voltage, Single Pole, 3-Way	CT103P	1% - 100%
	120V AC 60Hz, 600W Electronic Low Voltage, Single Pole/Multi-Location	MAELV600	1% - 100%
	120V AC 60Hz, 500W Electronic Low Voltage, Single Pole/Multi-Location	FAELV500	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, Slide-to-Off Dimmer	S-600P	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SCL-153P	1% - 100%
	Caséta® Wireless Dimmer	PD-6WCL	1% - 100%
	120V AC 60Hz, Low Voltage Load Type, 150W Single Pole	DVLV-600P	5% - 100%
	120V AC, 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way, Residential and Commercial Application	DV-603P	1% - 100%
	120V AC, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application	MA-PRO	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	MACL-153M	1% - 100%
Eaton	120V AC, 300W LED/CFL or 600W Incandescent/MLV/Halogen, Single Pole, 3-Way	TAL06P1-C1	1% - 100%
Cooper	120V AC 60Hz, 300W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SLC03P / DAL06P	1% - 100%
	120V AC 60Hz, 300W LED/CFL or 600W Incandescent, Single Pole, 3-Way, Residential	DLC03P	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way	RI061-VW-K2	1% - 100%
	120V AC 60Hz, 300W LED/CFL/ Incandescent/Halogen, Single Pole, 3-Way	AAL06A-C2	1% - 100%
Lightolier	120V, 260W Incandescent/Halogen, Single Pole, 3-Way	ZP260QEW	1% - 100%
0-10V Type Dimmers - 120/277V for E2CKT Series, E2CKTAF Series, E2CKTRM Series, E3CKT Series, E3CKTAF Series, E3CKTRM Series, E4CKT Series, E4CKTAF Series, E4CKTRM Series, E6CKT Series, E6CKTAF Series, E6CKTRM Series			
Lutron	120/277V AC, 0-10V LED/CFL Ballast, Single Pole, 3-Way	NFTV	1% - 100%
	120/277V AC, 0-10V, Single Pole, 3-Way, Commercial and Residential, Indoor Application	DVSTV	1% - 100%
	120/277V AC 50/60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way, Indoor Application	DVTV	1% - 100%
Leviton	120/277V AC 60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way	IP710-DL	1% - 100%

*NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details

Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards.

Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross refrence that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.

amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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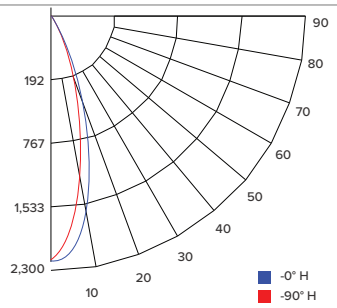
KOTO™ MAX LED MODULE

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT07DX)
Wattage / Lumens: 5.83W / 795.8 lm
Luminaire LPW: 136.5 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	2211
5	2146
15	1381
25	468
35	84
45	36
55	25
65	14
75	6
85	3
90	2

ILLUMINANCE AT A DISTANCE

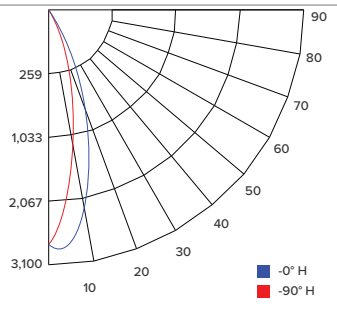
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	138	2.3
6′	61.4	3.4
8′	34.5	4.5
10′	22.1	5.7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	679.6	85.5
0-40°	726.6	91.4
0-60°	773.4	97.3
0-90°	794.7	100

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT10DX)
Wattage / Lumens: 7.44W / 1076.6 lm
Luminaire LPW: 144.7 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	2868
5	2850
15	1884
25	690
35	125
45	48
55	33
65	18
75	7
85	3
90	2

ILLUMINANCE AT A DISTANCE

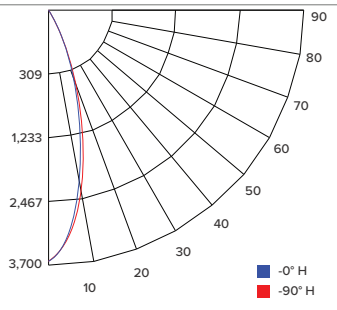
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	179	2.3
6′	79.7	3.4
8′	44.8	4.6
10′	28.7	5.7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	917.6	85.3
0-40°	988.6	91.9
0-60°	1,049.8	97.6
0-90°	1,075.5	100

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT12DX)
Wattage / Lumens: 10.11W / 1350.5 lm
Luminaire LPW: 133.58 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	3661
5	3291
15	1812
25	448
35	101
45	57
55	42
65	28
75	17
85	14
90	13

ILLUMINANCE AT A DISTANCE

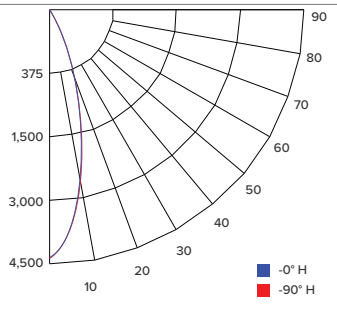
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	229	2.3
6′	102	3.4
8′	57.2	4.6
10′	36.6	5.7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,115.6	82.6
0-40°	1,196.2	88.6
0-60°	1,287.6	95.4
0-90°	1,349.9	100

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT15DX)
Wattage / Lumens: 12.89W / 1619.6 lm
Luminaire LPW: 125.65 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	4393
5	3949
15	2174
25	538
35	121
45	69
55	50
65	34
75	20
85	16
90	16

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	275	2.3
6′	122	3.4
8′	68.6	4.6
10′	43.9	5.7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,338.7	82.6
0-40°	1,435.4	88.6
0-60°	1,545.1	95.4
0-90°	1,619.9	100

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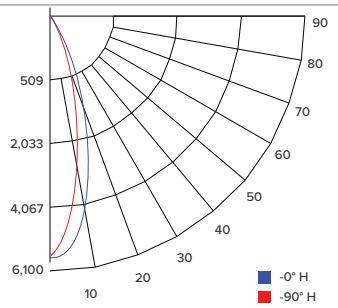
KOTO™ MAX LED MODULE

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT20DX)
Wattage / Lumens: 18.3W / 2151.9 lm
Luminaire LPW: 117.59 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	5735
5	5428
15	3328
25	1063
35	205
45	101
55	72
65	43
75	23
85	13
90	13

ILLUMINANCE AT A DISTANCE

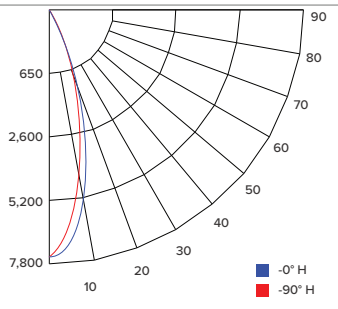
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	358	2.2
6′	159	3.3
8′	89.6	4.4
10′	57.3	5.5

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,798.2	83.6
0-40°	1,938.4	90.1
0-60°	2,073.9	96.4
0-90°	2,150.6	100

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT25DX)
Wattage / Lumens: 21.76W / 2751.7 lm
Luminaire LPW: 126.46 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	7621
5	7204
15	4424
25	1385
35	261
45	126
55	89
65	54
75	28
85	16
90	15

ILLUMINANCE AT A DISTANCE

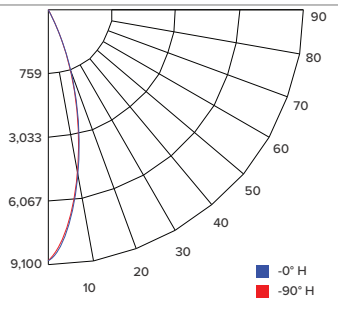
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	476	2.3
6′	212	3.4
8′	119	4.5
10′	76.2	5.6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	2,330.6	84.7
0-40°	2,494.4	90.7
0-60°	2,661.5	96.7
0-90°	2,750.8	100

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT30DX)
Wattage / Lumens: 28.6W / 3237.6 lm
Luminaire LPW: 113.20 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	8958
5	8087
15	4540
25	1262
35	252
45	142
55	98
65	55
75	25
85	14
90	13

ILLUMINANCE AT A DISTANCE

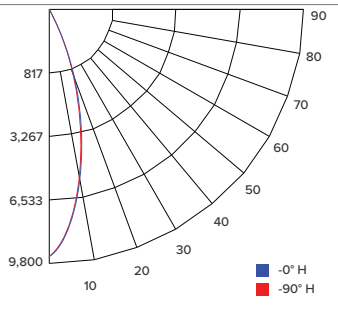
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	560	2.3
6′	249	3.4
8′	140	4.5
10′	89.6	5.7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	2,752.3	85
0-40°	2,941.6	90.9
0-60°	3,136.4	96.9
0-90°	3,236.7	100

PHOTOMETRIC REPORT

Product #: ECKT3540D (EXCKT35DX)
Wattage / Lumens: 31.55W / 3469.9 lm
Luminaire LPW: 109.99 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	9598
5	8665
15	4865
25	1352
35	270
45	153
55	105
65	59
75	27
85	15
90	14

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	600	2.3
6′	267	3.4
8′	150	4.5
10′	96	5.7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	2,948.9	85
0-40°	3,151.7	90.9
0-60°	3,360.4	96.9
0-90°	3,467.9	100

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