ELCO Lighting

Project Name:
Fixture Type:
Date:

CANLESS KOTO™ MULTIPLES SYSTEM

10.5W, 2700K-4000K, Sunset, or Human Centric, Up to 950 lm, 120V or 120/277V



KOTO™ MULTIPLES SYSTEM

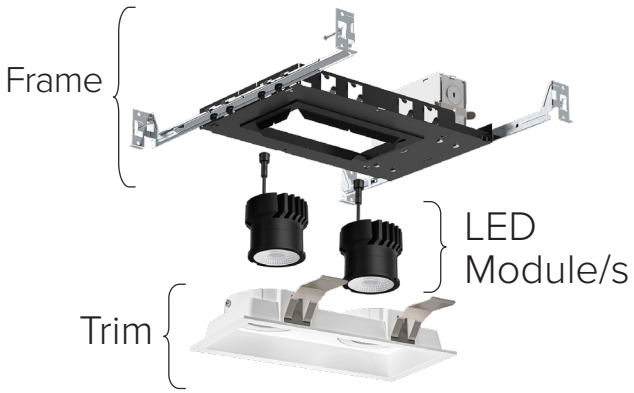
Brings the diversity of the Koto modular engine to any residential or commercial setting, creating a clean, elegant look featuring specification-grade illumination. Designed around a 1 ½" aperture, the luminaire features an integrated driver and tool-free installation.

FEATURES

- 1, 2, & 3 heads available, Trim & Trimless
- Single head up to 950 lm, double head up to 1,900 lm, triple head up to 2,850 lm
- 18°, 25°, 38°, 60°, and 90° beam angle options
- Shallow height requires less than 3" plenum space
- Driver on frame: 120V, Triac/ELV dimming to 5% or 120-277V, 0-10V/Triac/ELV dimming to 1%
- Works with ceiling thickness up to 1.5"
- Excellent color rendering 95+ CRI
- Title 24 JA8-2025-E Compliant. ENERGY STAR Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

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



SPECIFICATIONS

Lumens/Wattage Per Head	950 lm (10.5W)
Voltage	120V or 120-277V
Color Temp.	2700K, 3000K, 3500K, 4000K, Sunset or Human Centric
CRI	95+
Dimming	Triac/ELV (5%) 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: E2MCK102BIC

CANLESS KOTO™ MULTIPLES NEW CONSTRUCTION FRAMES & REMODEL

CANLESS KOTO™	STYLE	HEADS	VOLTAGE/DIMMING
E			
	2MCK10 2″ New Construction	**(Blank)**[1] Single Head	**IC** 120V - Triac/ELV, 10.5W
	KCL10R Remodel	**2B**[1] Double Head	**ICDX** 120/277V - 0-10V/Triac/ELV, 1%, 10.5W
		3C[1] Triple Head	

[1] 950 lumens per head

PRODUCT NUMBER BUILDER

STEP 2. Specify Canless Koto™ LED Module part number(s) Ex: EKCL2130D

IMPORTANT: LED modules are ordered separately, one per head.
Single Head = 1 module · Double Head = 2 modules · Triple Head = 3 modules
Housing/frame and trim part numbers do not include modules.

LUMENS/WATTAGE PER HEAD	COLOR TEMPERATURE	BEAM ANGLE
Canless Koto™ LED Module		
EKCL21 950 lm (10.5W)	**27D** 2700K	**(Blank)**[3] 38°
	30D 3000K	**-S** 18°
	35D 3500K	**-N** 25°
	40D 4000K	**-W** 60°
	SDD[1] Sunset	**-E**[4] 90°
	HCD[2] Human Centric	
	[1] Sunset, Dim to Warm technology, dims from 3000K to 1800K [2] Human Centric, Dim to Warm technology, dims from 4000K to 2200K	[3] 38° installed on module with 25° & 60° included in the box [4] 90° available with frosted reflector only

Field Changeable Secondary Module Optics

L45	L57	L46	L47	L49	L51	L52	L53	L54	L55	L50W	L50B
Black Hex Louver	White Hex Louver	Linear Lens	Spread Lens	Frosted Diffuser	CCT Reducer	Blue Color Shifter	Pink Color Shifter	Single Asymmetric	Double Asymmetric	White Snoot	Black Snoot

Koto™ Modules - Lumen Value Multiplier

CCT	Multiplier	Beam Angle	Multiplier
2700K	0.96	**18°**	0.84
3000K	1	**25°**	0.89
3500K	1.05	**38°**	1
4000K	1.085	**60°**	1.065
SD	0.80	**90°**	0.95
HC	0.85		

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PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one) Example: EKCM230B2W

CANLESS KOTO™ MULTIPLE TRIMS & TRIMLESS

STYLE	ITEM	HEADS	FINISH
EKCM			
	218 Trim **230**[1] Trimless	**A1** Single Head **B2** Double Head **C3** Triple Head	**W** All White **BB** All Black
	[1] Choose the corresponding Spackle Frame below.		

Koto™ Multiples Trimless Spackle Frame required for EKCM230 series trims

EKCM2SFA1

Single Head Spackle Frame

EKCM2SFB2

Double Head Spackle Frame

EKCM2SFC3

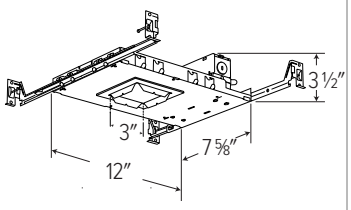
Triple Head Spackle Frame

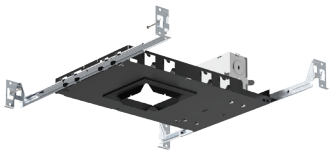
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PRODUCT DIMENSIONS

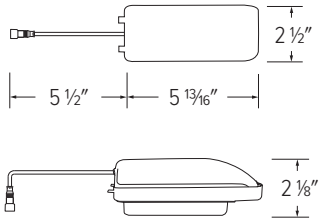
CANLESS KOTO™ MULTIPLES FRAMES AND REMODEL/RETROFIT POWER PACKS

E2MCK10IC/ICDX
SINGLE HEAD NEW CONSTRUCTION IC FRAME WITH DRIVER



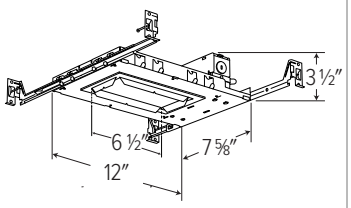


EKCL10RIC/RICDX
SINGLE HEAD IC REMODEL/RETROFIT POWER PACK WITH DRIVER



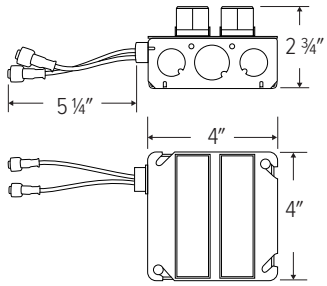


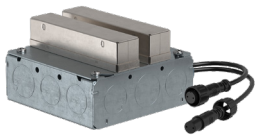
E2MCK102BIC/ICDX
DOUBLE HEAD NEW CONSTRUCTION IC FRAME WITH DRIVER



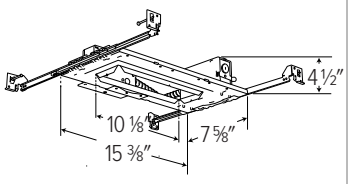


EKCL10R2BIC/ICDX
DOUBLE HEAD IC REMODEL/RETROFIT POWER PACK WITH DRIVER



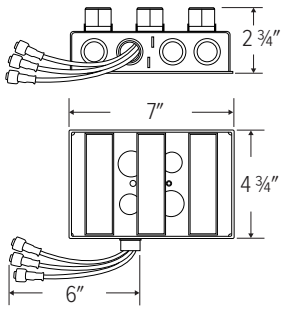


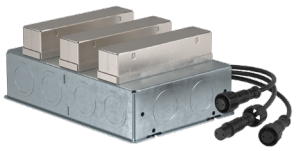
E2MCK103CIC/ICDX
TRIPLE HEAD NEW CONSTRUCTION IC FRAME WITH DRIVER





EKCL10R3CIC/ ICDX
TRIPLE HEAD IC REMODEL/RETROFIT POWER PACK WITH DRIVER



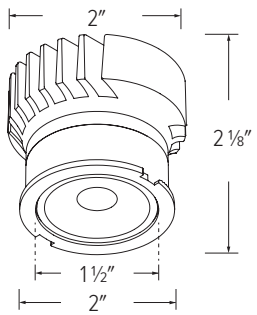


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PRODUCT DIMENSIONS

CANLESS KOTO™ LED MODULE

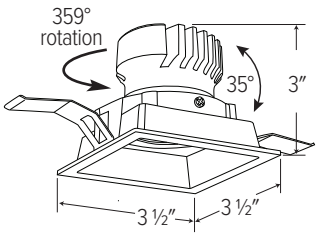
EKCL21
CANLESS KOTO™ LED MODULE





CANLESS KOTO™ MULTIPLES TRIMS

EKCM218A1 - SINGLE HEAD TRIM

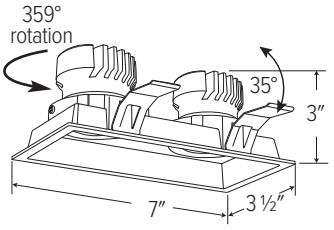




W (All White)

BB (All Black)

EKCM218B2 - DOUBLE HEAD TRIM

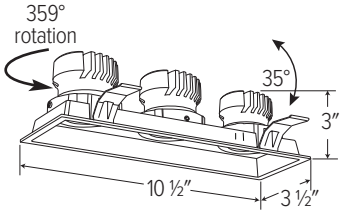




W (All White)

BB (All Black)

EKCM218C3 - TRIPLE HEAD TRIM





W (All White)

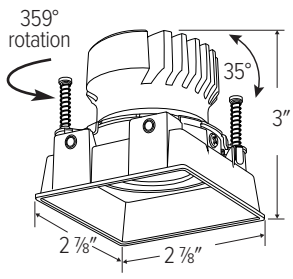
BB (All Black)

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PRODUCT DIMENSIONS

CANLESS KOTO™ MULTIPLES TRIMLESS

EKCM230A1 - SINGLE HEAD TRIMLESS



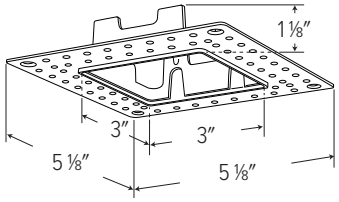


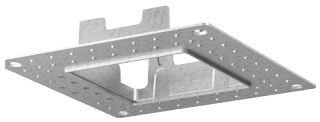
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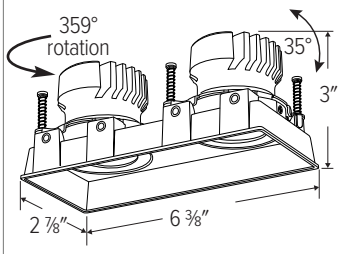
BB (All Black)

EKCM2SFA1 - SINGLE HEAD PACKLE FRAME





EKCM230B2 - DOUBLE HEAD TRIMLESS



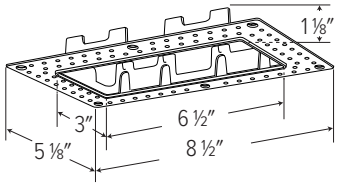


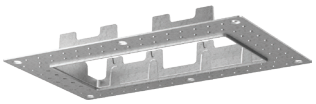
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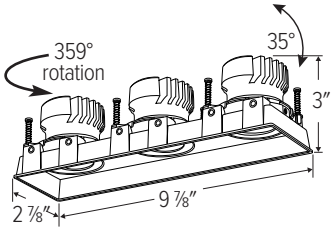
BB (All Black)

EKCM2SFB2 - DOUBLE HEAD SPACKLE FRAME





EKCM230C3 - TRIPLE HEAD TRIM



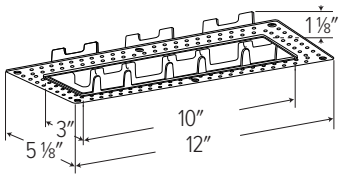


W (All White)



BB (All Black)

EKCM2SFC3 - TRIPLE HEAD SPACKLE FRAME

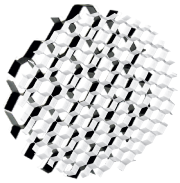


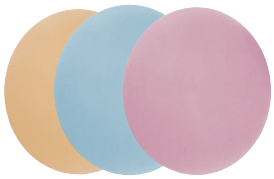


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ACCESSORIES

LENS & OPTICS (field changeable)

FIELD CHANGEABLE LENS		HEX LOUVER	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	COLOR SHIFTERS	SINGLE ASYMMETRIC LENS	DOUBLE ASYMMETRIC LENS	SNOOTS
				
L49 For a softer light	**L51** (Color temp. reducer) **L52** (Blue) / **L53** (Pink)	**L54** For elliptical illumination pattern	**L55** For elliptical illumination pattern	**L50W** (White) / **L50B** (Black) Reduces glare and light spill

ACCESSORY

EXTENSION CABLES

EKCL48EXT **4 ft** - 48″ L **EKCL120EXT** **10 ft** - 120″ L Extension cord with push-&-twist connection for easy module/power pack installation

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TECHNICAL DETAILS

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

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

Installation (Light Engine): Twist-on design for toolless trim installation, for use with Canless Koto™ Multiple trims only. Can be use with New Construction Multiple Frames or Remodel IC Power Packs.

Hanger Bars: Pre-installed hanger bars with screw 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.

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

Electrical: Drivers are rated for 120V or 120/277V input. High Efficiency driver with a power factor >0.95.

Dimming: Triac/ELV dimming (5%) or Triac/ELV/0-10V dimming (1%)

Sunset: Sunset color temperature is our dim-to-warm LED technology that allows the color temperature to become warmer as the product is dimmed. Our SUNSET items start at 3000K and go as low as 1800K when dimmed. For Sunset dim technology be sure to order an item with "Sunset (SDD)" in the Color Temperature (CCT) attribute.

Human Centric: Our HUMAN CENTRIC items start at 4000K and go as low as 2200K when dimmed. For Human Centric dim technology be sure to order an item with "Human Centric (HCD)" in the Color Temperature (CCT) attribute.

Emergency Battery Pack: Optional 25W MAX. 90 minute battery backup 2″, 3″, 4″ & 6″ accessible from below.

Listings: UL and cUL Listed for Damp Location. IC Rated for direct contact with insulation. RoHS Compliant. Title 24 JA8-2025 E-Compliant. Energy Star 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
Triac/ELV Type Dimmers - 120V Only for E2MCK10 & EKCL10R Series			
Lutron	120V AC, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	RRD-6CL	1% - 100%
	120V AC, 250W LED/CFL or 500W Incandescent/Halogen, Single Pole	RRST-PRO-N	1% - 100%
	120V AC 60Hz, 150W LED/CFL/Incandescent/Halogen, Single Pole, 3-Way,	DVCL-153P	1% - 100%
	120V AC 60Hz, 300W Electronic Low Voltage, 3-Way, Commercial/Residential Application	DVELV-303P	1% - 100%
	120V AC 60Hz, 600W Electronic Low Voltage, Single Pole/Multi-Location	MAELV600	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	1% - 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%
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	5% - 100%
0-10V Type Dimmers - 120/277V for E2MCK10 & EKCL10R 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%
Decora	120/277V AC 50/60Hz, LED/Electronic Ballast, Single Pole, 3-Way	DS710	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.

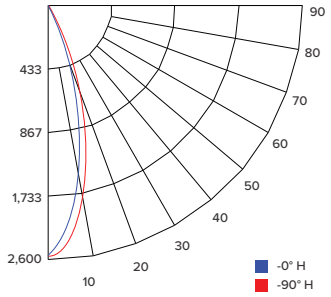
amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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CANLESS KOTO™ LED MODULE

PHOTOMETRIC REPORT

Product #: EKCL2130D
Wattage / Lumens: 8.46W / 937.8 lm
Luminaire LPW: 110.85 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	2551
5	2265
15	1272
25	353
35	65
45	37
55	26
65	14
75	7
85	0
90	0

ILLUMINANCE AT A DISTANCE

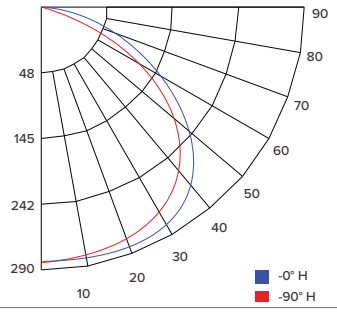
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	159	2.4
6′	70.9	3.5
8′	39.9	4.7
10′	25.5	5.9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	822.3	87.7
0-40°	874.8	93.3
0-60°	919.2	98
0-90°	937.2	99.9

PHOTOMETRIC REPORT

Product #: EKCL2130D-E (90°)
Wattage / Lumens: 9.46W / 839 lm
Luminaire LPW: 88.69 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	279
5	281
15	280
25	276
35	267
45	237
55	174
65	116
75	51
85	7
90	1

ILLUMINANCE AT A DISTANCE

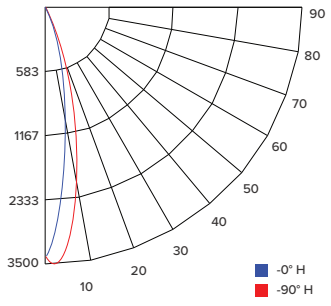
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	17.4	12.9
6′	7.75	19.3
8′	4.36	25.7
10′	2.79	32.2

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	225.9	26.9
0-40°	383.2	45.7
0-60°	694.4	82.8
0-90°	839	100

PHOTOMETRIC REPORT

Product #: EKCL2130D-N
Wattage / Lumens: 10.4W / 850.7 lm
Luminaire LPW: 81.8 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	3376
5	2506
15	948
25	284
35	61
45	16
55	9
65	6
75	0
85	4
90	3

ILLUMINANCE AT A DISTANCE

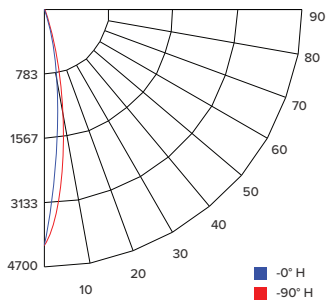
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	211	1.6
6′	93.8	2.4
8′	52.7	3.2
10′	33.8	4.0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	757.4	89.2
0-40°	815.5	96.1
0-60°	841.8	99.2
0-90°	848.9	100

PHOTOMETRIC REPORT

Product #: EKCL2130D-S
Wattage / Lumens: 10.3W / 867.8 lm
Luminaire LPW: 84.25 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	4329
5	2731
15	574
25	179
35	70
45	32
55	16
65	6
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

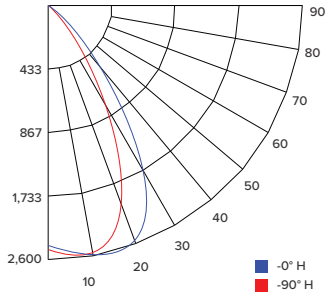
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	271	1.4
6′	120	2.1
8′	67.6	2.8
10′	43.3	3.5

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	740.9	86
0-40°	799.3	92.8
0-60°	849.0	98.5
0-90°	858.5	99.7

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CANLESS KOTO™ LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: EKCL2130D-W Wattage / Lumens: 10.4W / 970 lm Luminaire LPW: 93.27 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	847	4′	53	4.6
	5	867	6′	23.5	7.0
	15	904	8′	13.2	9.3
	25	819	10′	8.47	11.6
	35	502	ZONAL LUMEN SUMMARY		
	45	205			
	55	69	Zone	Lumens	%Luminaire
	65	21			
	75	8	0-30°	589.5	60.8
	85	3	0-40°	800.2	82.5
	90	2	0-60°	948.6	97.8
			0-90°	969.8	100

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