

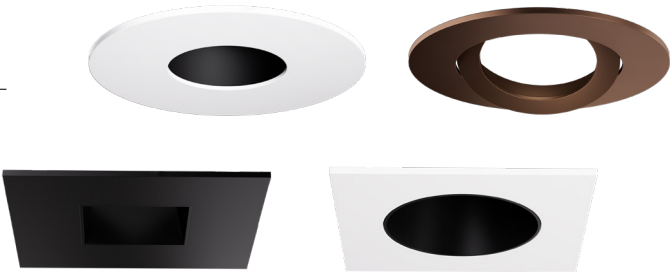
2" TUNABLE WHITE KOTO™

14W-18.3W, 1000 lm - 1250 lm, 120/277V AC/50-60Hz

THE TUNABLE WHITE KOTO™

SYSTEM

The high quality residential downlight with a 2" aperture with lumen output up to 1250 lumens.

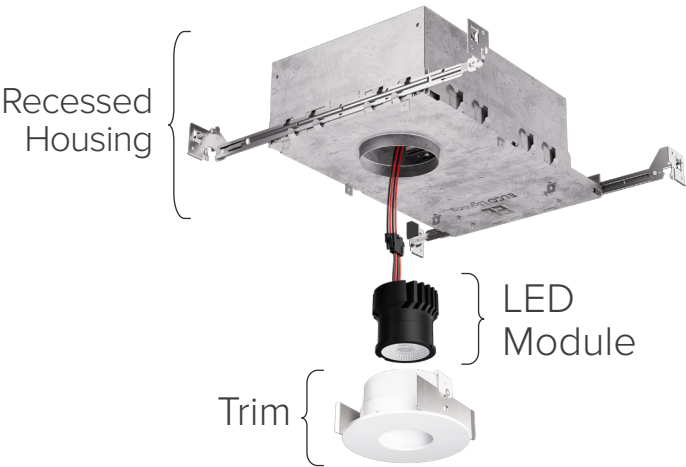


FEATURES

- 120/277V AC/50-60Hz universal input voltage
- Title 24 JA8-2022 E-Compliant
- ENERGY STAR Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a New Construction Housing
2. Select a Tunable White Koto™ LED Module.
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage	1000 lm (14W), 1250 lm (18.3W)
Voltage	120/277V AC
Color Temp.	1800K - 4000K, 2700K - 6500K
CRI	95+
Damp Location	Rated
Wet Location	Rated for wet location trims
Dimmable	Dual Channel 0-10V
Beam Angle	18°, 28°, 38°, 60° & 90°

Finishes



PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one)

Example: E21KT10ICAD

2" TUNABLE WHITE KOTO™ SHALLOW IC AIRTIGHT HOUSING

ITEM	LUMENS/HEIGHT		ICA		DRIVER	
E21KT						
	10	1000 (14W) - 4" Height	ICA	IC Airtight	D	Dual Channel 0-10V
	12	1250 (18.3W) - 5 ½" Height				

2" Extension Collar for Koto Housings

ELK2X-125 Extends collar for ceiling thicknesses up to 1.25"

STEP 2. Specify Koto™ LED Module part number (Select one)

Example: ELK19TWD

ITEM	COLOR TEMPERATURE		BEAM ANGLE	
ELK19				
ELK19	T41D	1800K - 4000K	(Blank)	38
	TWD	2700K - 6500K	-S	18°
			-N	25°
			-W	60°
			-E ¹	90°
			¹ 90° Frosted Reflector	

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
5000K	1.1	90°	0.95
SD	0.80		
HC	0.85		

PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

2" KOTO™ ROUND TRIMS



Style: **Deep Reflector**

Item: **ELK2818W** (All White)
ELK2818BB (All Black)
ELK2818BZ (All Bronze)
ELK2818B (Black/White Ring)
ELK2818H (Haze/White Ring)



Style: **Adjustable Pinhole**

Item: **ELK2827W** (All White)
ELK2827BB (All Black)
ELK2827BZ (All Bronze)
ELK2827B (Black/White Ring)



Style: **Adjustable Reflector**

Item: **ELK2829W** (All White)
ELK2829BB (All Black)
ELK2829BZ (All Bronze)
ELK2829B (Black/White Ring)
ELK2829H (Haze/White Ring)



Style: **Micro Flange Reflector**

Item: **ELK2863W** (All White)
ELK2863BB (All Black)



Style: **Curved Reflector**

Item: **ELK2872W** (All White)
ELK2872B (All Black)



Style: **Gimbal**

Item: **ELK2888W** (All White)
ELK2888B (All Black)
ELK2888BZ (All Bronze)

2" KOTO™ SQUARE TRIMS



Style: **Deep Reflector**

Item: **ELK2518W** (All White)
ELK2518BB (All Black)
ELK2518B (Black/White Ring)



Style: **Adjustable Pinhole**

Item: **ELK2527W** (All White)
ELK2527BB (All Black)
ELK2527B (Black/White Ring)



Style: **Adjustable Reflector**

Item: **ELK2529W** (All White)
ELK2529BB (All Black)
ELK2529B (Black/White Ring)



Style: **Reflector**

Item: **ELK2541W** (All White)
ELK2541BB (All Black)
ELK2541B (Black/White Ring)



Style: **Gimbal**

Item: **ELK2588W** (All White)
ELK2588B (All Black)
ELK2588BZ (All Bronze)

2" KOTO™ ROUND TRIMLESS



Style: **Adjustable Trimless Reflector**

Item: **ELK215W** (All White)
ELK215B (All Black)

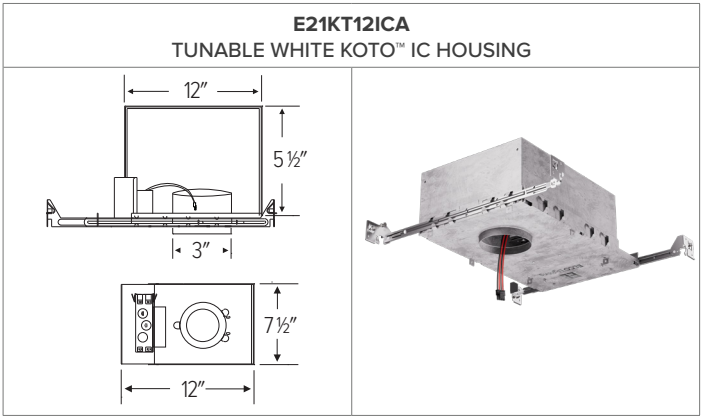
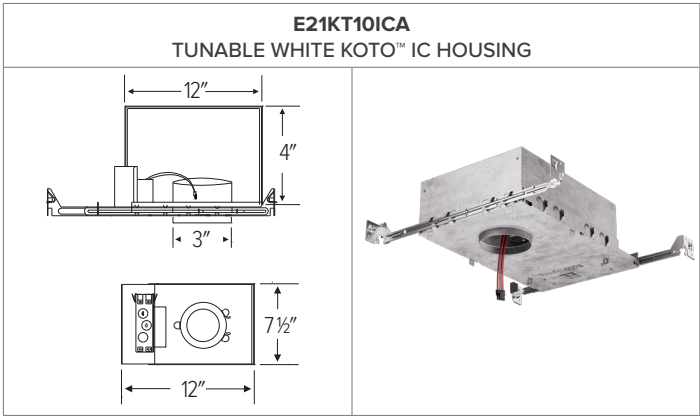


Style: **Trimless Spackle Frame**

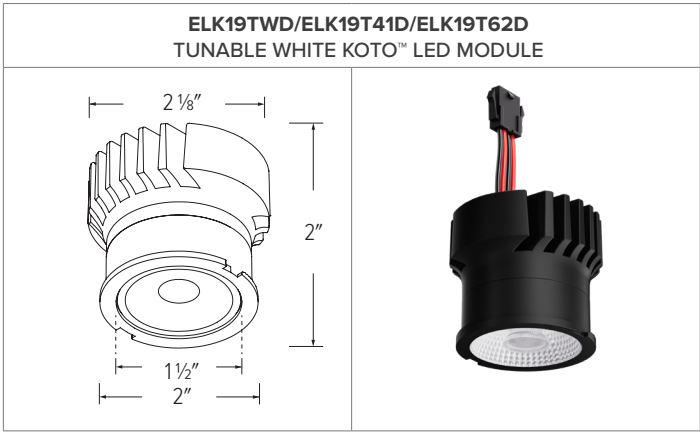
Item: **EL25FR**
For use with ELK215

PRODUCT DIMENSIONS

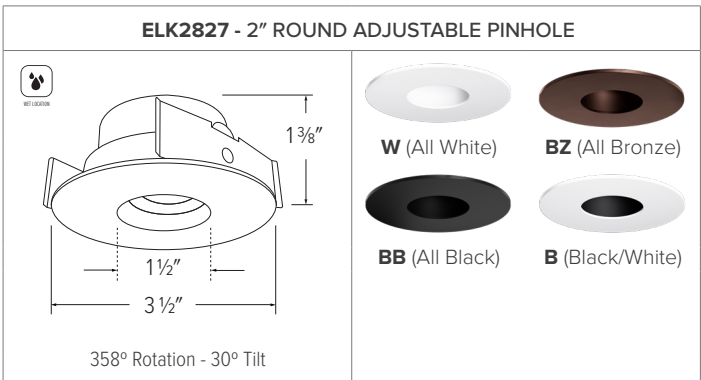
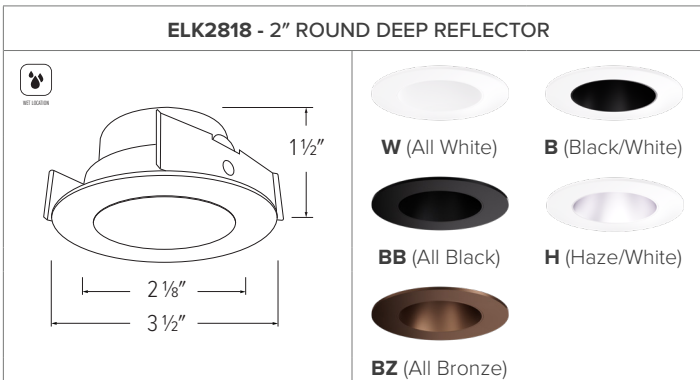
TUNABLE WHITE KOTO™ IC AIRTIGHT HOUSING



TUNABLE WHITE KOTO™ LED MODULE



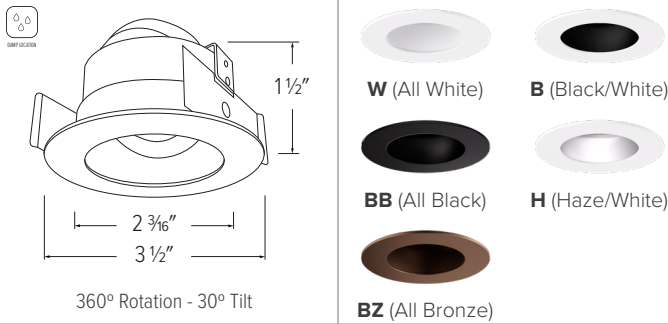
KOTO™ TRIMS



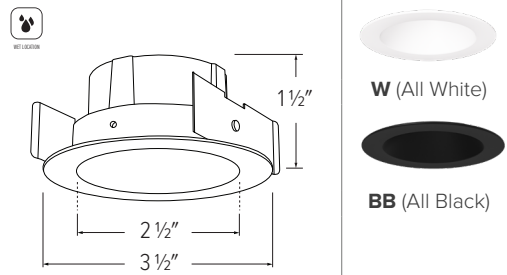
PRODUCT DIMENSIONS

KOTO™ TRIMS

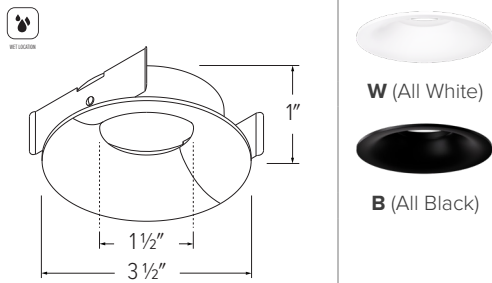
ELK2829 - 2" ROUND ADJUSTABLE REFLECTOR



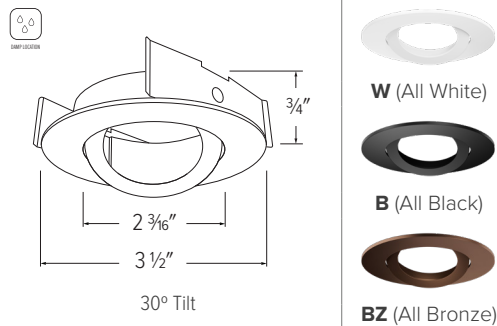
ELK2863 - 2" ROUND MICRO FLANGE REFLECTOR



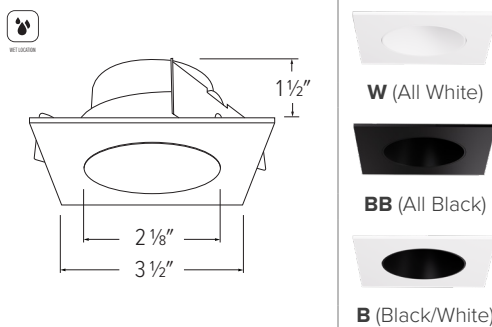
ELK2872 - 2" ROUND CURVED REFLECTOR



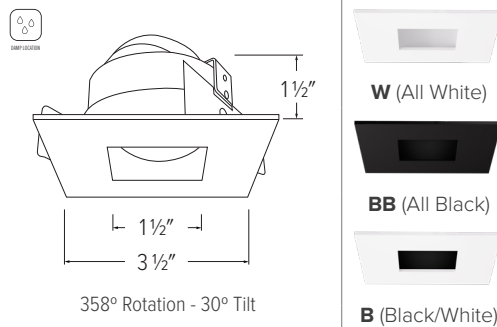
ELK2888 - 2" ROUND GIMBAL



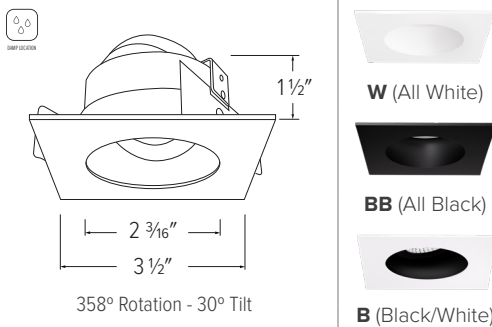
ELK2518 - 2" SQUARE DEEP REFLECTOR



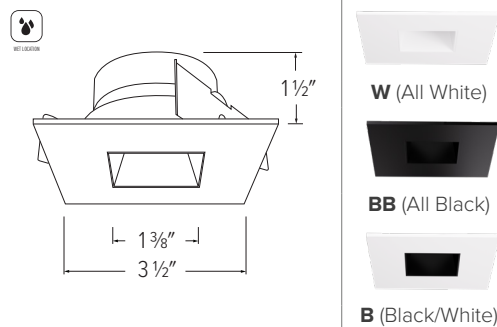
ELK2527 - 2" SQUARE ADJUSTABLE PINHOLE



ELK2529 - 2" SQUARE ADJUSTABLE REFLECTOR



ELK2541 - 2" SQUARE REFLECTOR



PRODUCT DIMENSIONS

KOTO™ TRIMS

ELK2588 - 2" SQUARE GIMBAL

30° Tilt

W (All White)

B (All Black)

BZ (All Bronze)

KOTO™ TRIMLESS

ELK215 - 2" ROUND ADJUSTABLE TRIMLESS REFLECTOR

Requires EL4SFR (Sold Separately)

W (All White)

B (All Black)

EL2SFR - 2" ROUND TRIMLESS SPACKLE FRAME

For use with ELK215

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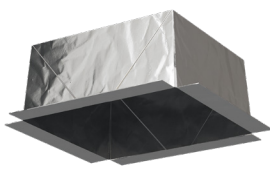
ACCESSORIES

LENS & OPTICS (field changeable)

FIELD CHANGEABLE LENS		HEX LOUVER	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / EP732C (25°) EP733C (38°) / EP734C (60°)		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

FIRE RATED PRODUCTS

1-HOUR FIRE ENCLOSURE FOR RECESSED FIXTURES	MICA ADHESIVE FIRE TAPE FOR FIRE ENCLOSURE	2-HOUR FIRE COVER FOR RECESSED FIXTURES
		
FIREENCL Standard - 9" H x 20 3/8" L x 14 3/8" W FIREENCL-S Shallow (-S) - 7 1/4" H x 16" L x 14 3/8" W Provides fire barrier around recessed lights. ETL approved 1-hour fire rating. Meets UL 263, ASTM E119 Specifications. To be used with Mica Tape to seal the power feeding point. (FIRETAPE sold separately)	FIRETAPE 3/4" W x 16' L Fire proof mica adhesive tape helps seal the power feeding point on Fire Enclosure. Offers outstanding high temperature and flame resistance, and provides excellent electrical insulation.	FIRECVR 9 3/4" H x 17" O.D. x 13" I.D. Made of heat activated intumescent material. UL approved for most ceiling types: sheetrock drywall, gypsum & acoustical tiles. UL Rated enclosure stops flame spread and heat transmission for up to 2 hours.

EMERGENCY BATTERY BACKUP

EMERGENCY BATTERY BACKUP

KEM-ERT 90 minutes of emergency operation. Input: 100-277VAC, 50/60Hz., 25W Max Output: 170VDC, 25W Charging time: 36 hours cUL listed - Suitable for damp location

HOUSING ACCESSORY

2" EXTENSION COLLAR

ELK2X-125 It allows the housing to install in ceiling thicknesses up to 1.25"

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.

Construction (Housing): Double Wall IC Rated for direct contact with insulation. For use in IC and Non-IC conditions. Up to 1100 lumens. Housing adjusts in the frame to accommodate up to 1 1/2" ceiling thickness. Airtight housing with gasket to restrict airflow in accordance with ASTM E-283 air-tight requirements.

Installation (Light Engine): Twist-on design for toolless trim installation. For use with standard Koto™ trims only.

Installation (Housing): Designed for ceiling plenums where 2x6 joists or taller are used. High-strength hanger bars can easily be nailed to joists. Suitable for T-grid and drop ceiling applications. See the installation sheet for detailed information. For use with ELCO Tunable White Koto™ LED Light Engines (ELK19TWD Series)

Hanger Bars: Pre-installed hanger bars with True Nail 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 90°. 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 of 95+. Lumen Maintenance 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 technology. No LED pixilation.

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

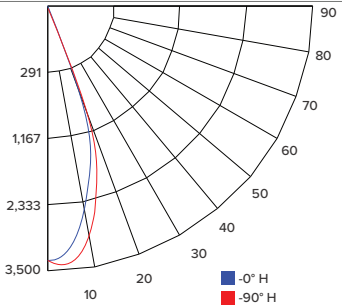
Dimming: 0-10V dimming in one driver. 0-10V dimming down to 5% with a compatible dimmer. Can be specified with Lutron drivers for 0.1% and 1% dimming. For a full list of dimmers refer to the Dimmer Compatibility List.

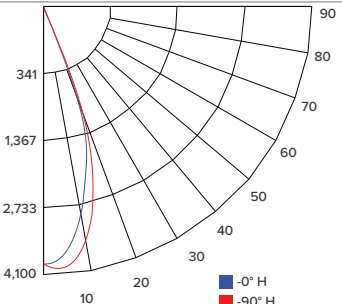
Emergency Battery Pack: Optional 25W MAX. 90 minute battery backup.

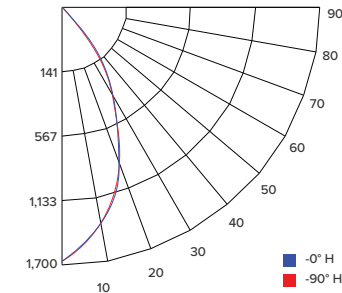
Listings: UL and cUL Listed for Damp Locations. UL and cUL Listed for Wet Location with Wet location trims. RoHS Compliant. Meets Energy Star & California Title 24 JA8-2022-E standards.

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

TUNABLE WHITE KOTO™ LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK19TWD (E21KT12ICAD) @2700K Wattage / Lumens: 16.9 W / 1353.4 lm Luminaire LPW: 80 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	3401	5'	136	3.0'
	5	3111	7.5'	60.5	4.6'
	15	1814	10'	34.0	6.1'
	25	543	12.5'	21.8	7.6'
	35	122	ZONAL LUMEN SUMMARY		
	45	58			
	55	34	Zone	Lumens	%Luminaire
	65	18	0-30°	1,145.4	84.7
	75	9	0-40°	1,244.7	92
	85	0	0-60°	1,324.7	97.9
	90	0	0-90°	1,352.7	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK19TWD (E21KT12ICAD) @4000K Wattage / Lumens: 15.66 W / 1569.2 lm Luminaire LPW: 100.2 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	3946	5'	158	3.0'
	5	3646	7.5'	70.1	4.5'
	15	2195	10'	39.5	6.0'
	25	691	12.5'	25.3	7.5'
	35	160	ZONAL LUMEN SUMMARY		
	45	79			
	55	45	Zone	Lumens	%Luminaire
	65	24	0-30°	1,332.2	84.9
	75	10	0-40°	1,447.6	92.3
	85	0	0-60°	1,539.1	98.1
	90	0	0-90°	1,568.3	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK19TWD (E21KT12ICAD) @6500K Wattage / Lumens: 17.06 W / 1650.9 lm Luminaire LPW: 96.7 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	4080	5'	163	3.0'
	5	3745	7.5'	72.5	4.6'
	15	2229	10'	40.8	6.1'
	25	703	12.5'	26.1	7.6'
	35	150	ZONAL LUMEN SUMMARY		
	45	73			
	55	45	Zone	Lumens	%Luminaire
	65	25	0-30°	1,386.3	84
	75	13	0-40°	1,509.8	91.5
	85	6	0-60°	1,610.3	97.6
	90	5	0-90°	1,649.9	100