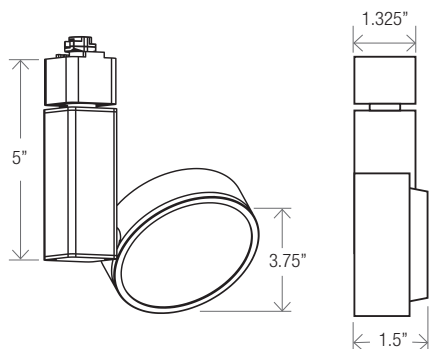
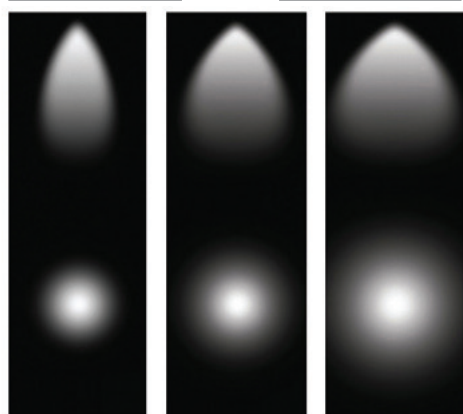




OPTICS



SP
Spot
15°

NFL
Narrow Flood
24°, 25°

FL
Flood
36°, 38°

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
1100	1222	16 W

Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

FEATURES

A small profile LED track light that delivers optimal lumen output, with precise aiming for accent, task, or general illumination, integrating into any design. Track heads are adjustable up to 360 degrees horizontally, 180 degrees vertically, and are compatible with 1-circuit and 2-circuit track. With the use of a friction-based locking movement system, the head can be adjusted and re-adjusted to a precise position, delivering light where needed. Available in an array of color temperatures, it can accentuate the full spectrum of cool to warm tones, and is the perfect complement for retail merchandising, galleries, museums, supermarkets, hospitality, and commercial.

LUMENS	1100
CCT	30K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTION	SP (Spot), NFL (Narrow Flood), FL (Flood)
AIMING	360 degrees horizontally, 180 degrees vertically
FINISH	AWH (Architectural White) ABK (Architectural Black) Custom RAL
DIMMING	Flicker Free 10% Dimming TRIAC forward-phase or leading-edge 120V.
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



OPTICS

A polycarbonate optical refractor allows for precise beam control and even distribution, with a variety of lumen options.

CONSTRUCTION

All track heads are designed using a proprietary coolLED Advanced Thermodynamic Design. The track head body is constructed of extruded aluminum, with a die-cast custom designed concealed heat sink, providing a thermal management system that is engineered for extremely long life and service period.

FINISH

Post-painted available in white, black and custom RAL colors.

ACCESSORIES

Track heads may accommodate 1 to 3 accessories. Please consult factory for standard or custom options.

TRACK COMPATIBILITY

Track heads are standard, with the compatibility for use with Mono-point, 1-Circuit, and 2-Circuit type H track. Please consult factory for 2-Circuit, 2-Neutral 120V Track, 2-Circuit, 2-Neutral 277V Track, 3-Circuit 1-Neutral, and Dali System Track.

DIMMING AND DRIVER INFORMATION

DIMTR – Electronic constant current LED driver compatible with TRIAC forward-phase or leading-edge dimming. Available in 120V. Dimmable down to 1%, standard. The LED driver is rated for 50 to 60Hz at 120V input, produces less than 20%THD, and has a power factor between 90% and 100%, and is thermally protected for additional safety.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

Example: **ET-LED-310-1100L-DIMTR-120-FL-30K-90-AWH**

SERIES	LUMENS	DIMMING	OPTICS	CCT/CRI	COLOR
ET-LED-310	 1100L - 1100 lumens	 DIMTR-120	 SP - Spot 12°  NFL - Narrow Flood 24°-25°  FL - Flood 36°-38°	 30K-90	 AWH - Architectural White  ABK - Architectural Black

ET-LED-310-1100L-DIMTR-120-30K-90-FL-AWH

TEST NO.: **EL011948**

INPUT WATTS: **16**

LUMENS: **1222**

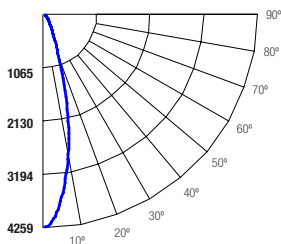
CRI: **90**

EFFICACY: **76**

CCT: **3000K**

SPACING CRITERIA: **0.48**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	852.83	69.80	69.80
0-30	1058.54	86.60	86.60
0-40	1138.6	93.10	93.10
0-60	1204.66	98.50	98.60
0-80	1220.78	99.90	99.90
0-90	1220.8	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

Lumens Per Zone

Zone	Lumens
0-10	342.01
10-20	510.82
20-30	205.71
30-40	80.05
40-50	39.14
50-60	26.93
60-70	14.23
70-80	1.88
80-90	0.02

Candela Tabulation

0	
0	4239.78
5	3739.43
15	1693.94
25	354.72
35	97.87
45	44.61
55	27.47
65	13.27
75	0.34
85	0.02
90	0.04

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	99	98	97	95
1	114	112	110	108	112	110	108	106	106	106	104	103	102	101	100	99	98	97	96	95	94	93	92	91
2	110	106	102	100	108	104	101	98	101	98	96	96	96	94	94	91	89	92	90	88	87	86	85	84
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	86	84	81	86	83	81	79	78	77	76
4	102	95	91	88	100	94	90	87	92	89	86	90	87	85	82	80	77	83	80	77	75	73	71	70
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	78	75	72	78	75	72	70	68	66	65
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	75	72	69	75	72	69	67	65	63	62
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	72	69	66	72	69	66	64	62	60	59
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	69	66	63	69	66	63	61	59	57	56
9	86	78	73	70	85	78	73	70	77	73	70	76	72	69	66	63	60	66	63	60	58	56	54	53
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	64	61	58	64	61	58	56	54	52	51

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance