

PROJECT:

TYPE:

DATE:

PRODUCT CODE:

ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

ESS-385



Description:

Applications

This versatile LED track light is ideal for accentuating displays and creating focused illumination in retail, galleries, museums, hospitality, supermarkets, and commercial spaces, offering adjustable positioning and a range of color temperatures to suit any environment.

Features

- Compact LED track light providing optimal lumen output
- Precise aiming for accent, task, or general illumination
- Seamlessly integrates into any design
- Track heads adjustability: 360° horizontal/ 180° vertical
- Compatible with 1-circuit and 2-circuit tracks
- Friction-based locking system for secure adjustments
- Allows precise positioning of the light as needed
- Available in a range of color temperatures, from cool to warm tones

Wattage:

Nominal Lumens	Delivered Lumens	Wattage
2000	2130	23W

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

Specifications:

Lumens 2000

CCT 40K

CRI 90+

Color Quality 2 Step Mac Adam Ellipse

Optics MD (Medium Distribution 38°)

Finish White, Black, Custom Color (RAL)

Aiming 360° (horizontal), 180° (vertically)

Dimming Flicker Free 10% Dimming TRIAC forward-phase or leading-edge 120V.

Lifetime L70 at 50,000 Hours

Photometrics In Accordance with IES LM79-08, LM-08 and TM-30, TM-21

Certifications & Features



PART NUMBER: **ESS-385-2000L-40K-90-38D-DIMTR-120V-WH**

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Finish
ESS-385	2000L	40K	90+	38D (38°)	DIMTR	120V	WH (White) BK (Black) CC (RAL)

Optics

A polycarbonate optical refractor ensures accurate beam control and uniform light distribution, available in various lumen options.

Construction

Each track head features CoolLED Advanced Thermodynamic Design, with a body made of extruded aluminum and a custom die-cast concealed heat sink. This thermal management system is specifically engineered for extended lifespan and durability.

Finish

Available in white, black and custom RAL Color finishes.

Accessories

Track heads can support 1 to 3 accessories. Please contact the factory for standard or custom options.

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Track Compatibility

Track heads are standard and compatible with Mono-point, 1-Circuit, and 2-Circuit type H tracks. Type J (Juno) adapter option available upon request.

Please consult the factory for compatibility with 2-Circuit, 2-Neutral 120V Track, 2-Circuit, 2-Neutral 277V Track, 3-Circuit 1-Neutral Track, and DALI System Track.

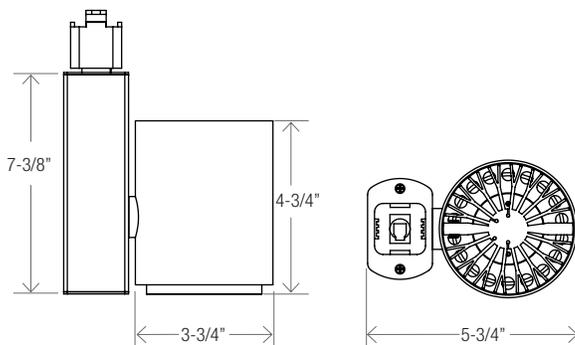
Dimming and Driver

DIMTR

Electronic constant current LED driver compatible with TRIAC forward-phase (leading-edge) dimming, available in 120V. Standard dimming down to 1%. The LED driver operates at 50 to 60Hz with a 120V input, maintains less than 20% THD, and achieves a power factor between 90% and 100%. It is thermally protected for enhanced safety. Please consult the factory for 277V or 0-10V dimming options.

Warranty

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



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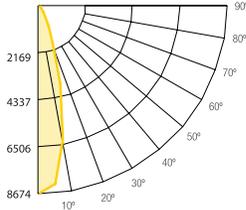
ESS-385

EPT-385-2000L-40K-90-38D-DIMTR-120-WH

TEST NO: **EPL061871**

INPUT WATTS: 23 LUMENS: 2130 CRI: 90 EFFICACY: 93 CCT: 4000K SPACING CRITERIA: 0.46

Candle Power Distribution (Candelas)



Cone of Light		
4.0	30 fc	8 ft
8.0	7.5 fc	16 ft
12.0	3.33 fc	23.9 ft
16.0	1.88 fc	31.9 ft
20.0	1.2 fc	39.9 ft
24.0	0.83 fc	47.9 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1582.00	76.50	74.30
0-30	1992.4	96.30	93.50
0-40	2073.58	100.30	97.30
0-60	2113.79	102.20	99.20
0-80	2127.82	102.90	99.90
0-90	2130.49	103.00	100.00

Luminance (Average candela/ft²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	918	1135	2154
55	488	571	581
65	453	441	539
75	507	551	556
85	623	917	944

Lumens Per Zone

Zone	Lumens
0-10	642.25
10-20	939.75
20-30	410.40
30-40	81.18
40-50	28.38
50-60	11.83
60-70	8.22
70-80	5.81
80-90	2.67

Candela Tabulation

Zone	Lumens	Ω
0-10	642.25	0
10-20	939.75	5
20-30	410.40	15
30-40	81.18	25
40-50	28.38	35
50-60	11.83	45
60-70	8.22	55
70-80	5.81	65
80-90	2.67	75
		85
		90

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	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%		
0	123	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	105	105	105	105	105	105	105	103	
1	118	116	114	112	112	116	114	112	110	110	108	107	106	105	104	102	101	101	101	101	101	101	101	101	99	
2	114	110	107	104	104	112	108	105	103	105	103	101	102	100	98	99	98	96	96	96	96	96	96	96	95	
3	110	105	101	98	98	108	104	100	97	101	98	96	99	96	94	96	94	94	93	93	93	93	93	91		
4	106	100	96	93	93	105	99	95	92	97	94	91	95	92	90	94	91	91	89	88	88	88	88	88		
5	103	96	92	89	89	101	96	91	88	94	90	87	92	89	87	91	88	86	86	86	86	86	86	85		
6	100	93	88	85	85	98	92	88	85	91	87	84	89	86	84	88	85	83	83	83	83	83	83	82		
7	97	89	85	82	82	95	89	85	81	88	84	81	87	83	81	86	83	80	80	80	80	80	80	79		
8	94	86	82	79	79	93	86	82	79	85	81	78	84	81	78	83	80	78	77	77	77	77	77	77		
9	91	84	79	76	76	90	83	79	76	82	78	76	82	78	76	81	78	75	74	74	74	74	74	74		
10	88	81	77	74	74	87	81	76	74	80	76	73	79	76	73	79	75	73	72	72	72	72	72	72		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance