

PROJECT:

TYPE:

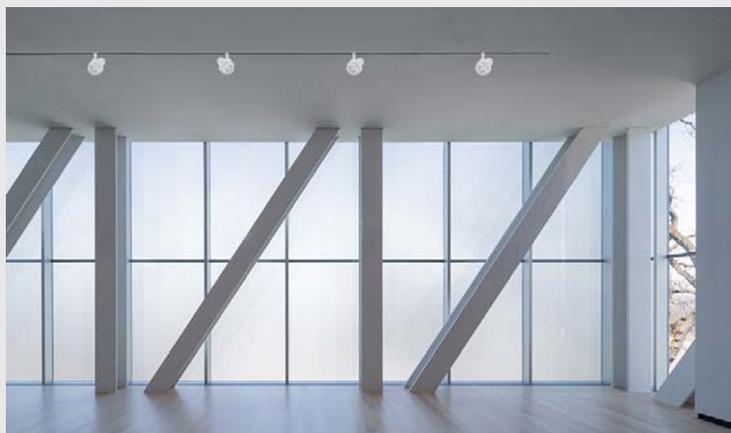
DATE:

PRODUCT CODE:

ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

ESS-334



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
1000	936	12.2W

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

Specifications:

Lumens 1000

CCT 30K

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-334-1000L-30K-90-38D-DIMTR-120V-WH**

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Finish
ESS-334	1000L	30K	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.

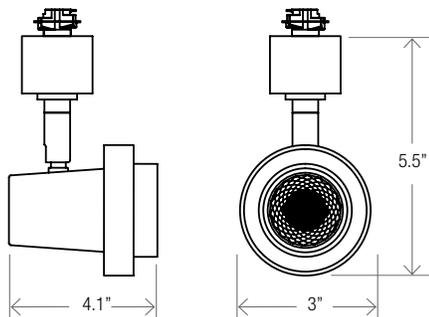
Dimming and Driver

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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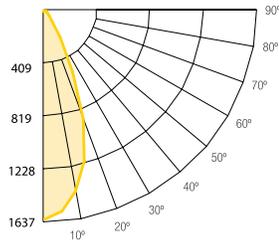
ESS-334

ESS-334-1000L-30K-90-38D-DIMTR-120-WH

TEST NO: **EPL1018112**

INPUT WATTS: 12.2 LUMENS: 936 CRI: 90 EFFICACY: 77 CCT: 3000K SPACING CRITERIA: 0.68

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	486.94	52.70	52.00
0-30	756.40	81.80	80.90
0-40	861.07	93.10	92.00
0-60	915.69	99.10	97.90
0-80	932.68	100.90	99.70
0-90	935.54	101.20	100.00

Luminance (Average candela/ft²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	7798	9645	18756
55	4816	5286	5553
65	4795	4779	5433
75	5561	5832	5527
85	4600	7038	6762

Lumens Per Zone

Zone	Lumens
0-10	147.70
10-20	339.24
20-30	269.46
30-40	104.67
40-50	40.27
50-60	14.35
60-70	9.95
70-80	7.05
80-90	2.86

Candela Tabulation

Zone	Candela
0	1637.45
5	1576.76
15	1223.91
25	532.59
35	110.04
45	25.17
55	12.61
65	9.25
75	6.57
85	1.83
90	0.05

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%				
0		120	120	120	120	118	118	118	118	112	112	112	112	108	108	108	103	103	103	103	103	101	101	101	101
1		115	112	110	108	113	110	108	106	106	104	103	103	102	101	100	99	98	98	97	97	95	95	95	95
2		110	105	101	98	108	103	100	97	100	97	95	95	97	95	93	94	92	91	91	91	89	89	89	89
3		105	99	94	90	103	97	93	89	95	91	88	88	92	89	87	90	87	85	85	84	84	84	84	84
4		100	93	88	84	98	92	87	83	90	85	82	82	88	84	81	86	83	80	80	79	79	79	79	79
5		96	88	82	78	94	87	82	78	85	81	77	77	83	80	77	82	79	76	76	74	74	74	74	74
6		91	83	78	74	90	82	77	73	81	76	73	73	80	75	72	78	75	72	72	71	71	71	71	71
7		88	79	73	69	86	78	73	69	77	72	69	69	76	72	69	75	71	68	68	67	67	67	67	67
8		84	75	70	66	83	75	69	66	74	69	65	65	73	68	65	72	68	65	65	64	64	64	64	64
9		81	72	66	63	80	71	66	62	70	66	62	62	69	65	62	69	65	62	62	61	61	61	61	61
10		77	68	63	60	76	68	63	59	67	63	59	59	66	62	59	66	62	59	59	58	58	58	58	58

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light		
4.0	5.67 fc	13.7 ft
8.0	1.42 fc	27.4 ft
12.0	0.63 fc	41.1 ft
16.0	0.35 fc	54.8 ft
20.0	0.23 fc	68.5 ft
24.0	0.16 fc	82.2 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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