

PROJECT:

TYPE:

DATE:

PRODUCT CODE:

ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

ESS-328



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
600	619	10W

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

Specifications:

Lumens 600

CCT 30K

CRI 90+

Color Quality 2 Step Mac Adam Ellipse

Optics NSPD (Narrow Spot 15°), SPD (Spot Light 25°), MD (Medium Distribution 38°), WD (Wide Distribution 60°)

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

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



PART NUMBER: **ESS-328-600L-30K-90-25D-DIMTR-120V-WH**

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Finish
ESS-328	600L	30K	90+	15D (15°) 25D (25°) 38D (38°) 60D (60°)	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.

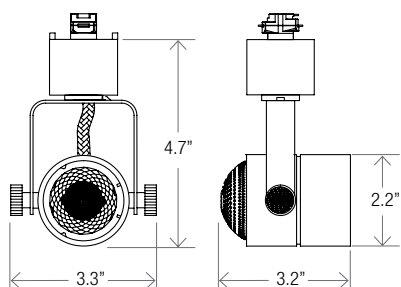
Dimming and Driver

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)

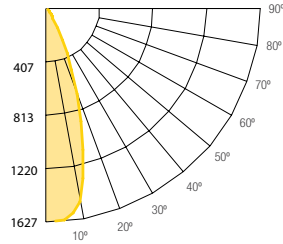


ESS-328-600L-30K-90-38D-DIMTR-120-WH

TEST NO: **EPL111808**

INPUT WATTS: 10 LUMENS: 619 CRI: 90 EFFICACY: 62 CCT: 3000K SPACING CRITERIA: 0.56

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	406.21	65.90	65.60
0-30	548.26	89.00	88.60
0-40	587.43	95.30	94.90
0-60	613.28	99.50	99.10
0-80	618.41	100.40	99.90
0-90	618.97	100.40	100.00

Luminance (Average candela/ft²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	11092	15778	24097
55	6786	7655	7633
65	3050	4110	4620
75	1861	2319	2351
85	970	3782	4073

Lumens Per Zone

Zone	Lumens
0-10	140.78
10-20	265.43
20-30	142.05
30-40	39.17
40-50	17.81
50-60	8.04
60-70	3.79
70-80	1.34
80-90	0.56

Candela Tabulation

Q	
0	1608.43
5	1585.13
15	1038.55
25	292.87
35	52.91
45	18.56
55	9.21
65	3.05
75	1.14
85	0.20
90	0.02

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	120	120	120	120	120	117	117	117	117	112	112	112	107	107	107	102	102	102	100	102	102	100	97	96
1	115	112	110	108	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	99	98	97	96	96
2	110	106	103	100	100	108	104	101	99	101	99	96	98	96	94	96	94	92	91	96	94	92	91	91
3	106	100	96	93	93	104	99	95	92	97	93	91	94	92	89	92	89	88	87	92	90	88	87	87
4	102	96	91	87	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	90	87	84	83	83
5	98	91	86	83	83	97	90	86	82	89	85	82	87	84	81	85	83	80	79	87	84	80	79	79
6	94	87	82	79	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	82	79	77	76	76
7	91	83	78	75	75	90	83	78	75	82	77	74	81	77	74	79	76	74	73	77	74	71	70	70
8	88	80	75	72	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70	74	71	68	67	67
9	85	77	72	69	69	84	77	72	69	76	72	69	75	71	68	74	71	68	67	71	68	67	66	66
10	82	74	69	66	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65	70	68	66	65	65

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light		
4.0	5.57 ft	10.5 ft
8.0	1.39 ft	21 ft
12.0	0.62 ft	31.5 ft
16.0	0.35 ft	42 ft
20.0	0.22 ft	52.5 ft
24.0	0.15 ft	63 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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