

PROJECT:

TYPE:

DATE:

PRODUCT CODE:

ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

ESS-216



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
800	775	11W

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

Specifications:

Lumens 800

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-216-800L-30K-90-38D-DIMTR-120V-WH**

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Finish
ESS-216	800L	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.

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.

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.

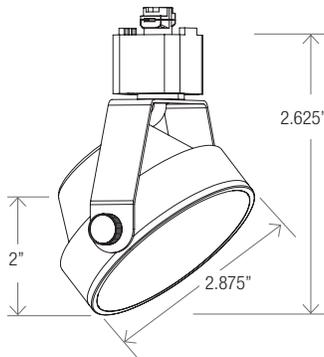
Dimming and Driver

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)

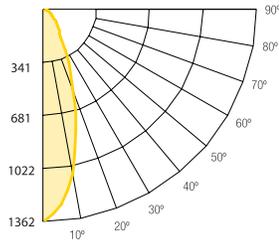


ESS-216-800L-30K-90-38D-DIMTR-120V-WH

TEST NO: **EPL0818106**

INPUT WATTS: 11 LUMENS: 775 CRI: 90 EFFICACY: 70 CCT: 3000K SPACING CRITERIA: 0.60

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	338.62	43.80	43.70
0-30	505.26	65.40	65.20
0-40	599.22	77.50	77.40
0-60	712.84	92.20	92.00
0-80	768.09	99.40	99.20
0-90	774.54	100.20	100.00

Luminance (Average candela/ft²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	35316	31264	29595
55	24197	25374	23804
65	22091	22826	22489
75	20511	20191	20151
85	20610	19808	13008

Lumens Per Zone

Zone	Lumens
0-10	113.97
10-20	224.66
20-30	166.64
30-40	93.96
40-50	66.11
50-60	47.50
60-70	34.89
70-80	20.37
80-90	6.45

Candela Tabulation

0	
0	1362.26
5	1260.79
15	810.19
25	375.36
35	164.64
45	96.48
55	53.62
65	36.07
75	20.51
85	6.94
90	0.15

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%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	111	107	107	107	107	102	102	102	102	102	102		
1	112	109	106	103	110	107	104	102	103	101	99	99	99	97	96	96	96	94	93	93	93	91		
2	106	100	95	92	104	98	94	90	95	92	88	88	92	89	87	87	89	87	85	85	85	83		
3	100	93	87	82	98	91	86	82	88	84	80	80	86	82	79	79	84	80	78	78	78	76		
4	94	86	80	75	93	85	79	75	83	78	74	74	81	76	73	73	79	75	72	72	72	70		
5	90	80	74	69	88	79	73	69	78	72	68	68	76	71	68	68	74	70	67	67	67	65		
6	85	75	69	64	84	75	69	64	73	68	64	64	72	67	63	63	70	66	63	63	63	61		
7	81	71	65	60	80	70	64	60	69	64	60	60	68	63	59	59	67	62	59	59	59	58		
8	77	67	61	57	76	67	61	56	66	60	56	56	64	60	56	56	63	59	56	56	56	54		
9	74	64	58	53	73	63	57	53	62	57	53	53	61	57	53	53	61	56	53	53	53	51		
10	71	61	55	51	70	60	55	51	59	54	51	51	59	54	50	50	58	53	50	50	50	49		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light		
4.0	4.71 fc	11 ft
8.0	1.18 fc	22 ft
12.0	0.52 fc	32.9 ft
16.0	0.29 fc	43.9 ft
20.0	0.19 fc	54.9 ft
24.0	0.13 fc	65.9 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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