PROJECT:

TYPE:

DATE:

PRODUCT CODE:

ESSENCE TRACK

ESS-322

ARCHITECTURAL TRACK HEAD

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 accenr, 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	816	9.6W

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	**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

Intertek

ASSEMBLED IN AMERICA

QUICK SHIP

5YRS LIMITED WARRANTY

ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

ESS-322

PART NUMBER: **ESS-322-800L-30K-90-25D-DIMTR-120V-WH**

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Finish
ESS-322	800L	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.

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Finish

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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.

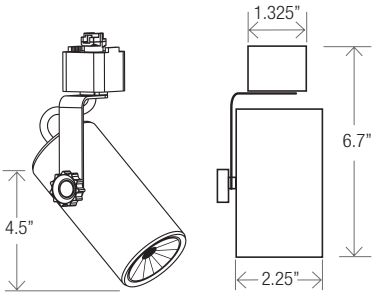
Dimming and Driver

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)



ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

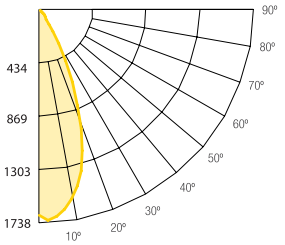
ESS-322

ESS-322-800L-30K-90-38D-DIMTR-120V-WH

TEST NO: **EPL0217105**

INPUT WATTS: 9.6 | LUMENS: 816 | CRI: 90 | EFFICACY: 85 | CCT: 3000K | SPACING CRITERIA: 0.62

Candle Power Distribution (Candelas)



Cone of Light		
4.0	106 fc	2.8 ft
8.0	26.5 fc	5.7 ft
12.0	11.8 fc	8.5 ft
16.0	6.63 fc	11.3 ft
20.0	4.25 fc	14.1 ft
24.0	2.95 fc	17 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	471.30	58.00	57.80
0-30	686.36	84.50	84.20
0-40	755.96	93.00	92.70
0-60	798.34	98.30	97.90
0-80	806.21	99.20	98.90
0-90	806.62	99.30	98.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	24641	23595	21518
55	12772	11755	9530
65	6680	6365	5318
75	4251	3903	3026
85	2920	2516	1572

Lumens Per Zone

Zone	Lumens
0-10	150.30
10-20	321.00
20-30	215.06
30-40	69.59
40-50	29.28
50-60	13.10
60-70	5.68
70-80	2.19
80-90	0.41

Candela Tabulation

	0
0	1698.552
5	1710.380
15	1371.990
25	659.070
35	142.410
45	44.500
55	18.710
65	7.210
75	2.810
85	0.650
90	0.040

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%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	114	112	109	107	112	109	107	106	105	104	102	101	100	99	98	97	96	94
	2	109	105	101	98	107	103	100	97	100	97	95	97	94	93	94	92	90	89
	3	105	99	94	91	103	97	93	90	95	91	88	92	89	87	90	88	86	84
	4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80
	5	96	89	84	80	94	88	83	79	86	82	79	84	81	78	83	79	77	76
	6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	73	72
	7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
	8	85	77	72	68	84	76	71	68	75	71	67	74	70	67	73	69	67	66
	9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63
	10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60

RC - Ceiling Cavity Reflectance RW - Wall Reflectance