

PROJECT:

TYPE:

DATE:

PRODUCT CODE:

# ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

# ESS-212



### 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	835	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



# ESSENCE TRACK

ARCHITECTURAL TRACK HEAD

ESS-212

PART NUMBER: ESS-212-800L-30K-90-38D-DIMTR-120V-WH

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Finish
ESS-212	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.

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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.

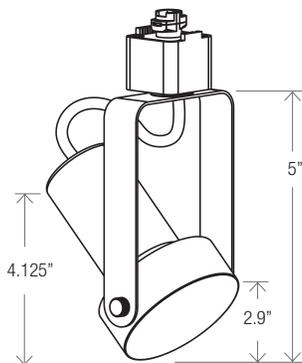
### Dimming and Driver

#### 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)

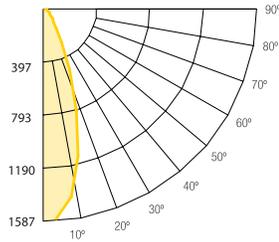


**ESS-212-800L-30K-90-38D-DIMTR-120V-WH**

TEST NO: **EPL0818122**

INPUT WATTS: 11.3      LUMENS: 835      CRI: 90      EFFICACY: 74      CCT: 3000K      SPACING CRITERIA: 0.58

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	382.90	46.50	45.90
0-30	559.19	67.90	67.00
0-40	655.31	79.50	78.50
0-60	768.80	93.30	92.10
0-80	827.20	100.40	99.10
0-90	834.53	101.30	100.00

Luminance (Average candela/ft²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	59505	57609	60309
55	47124	46438	42011
65	46602	43519	40067
75	46844	43311	39027
85	44521	46260	41314

Lumens Per Zone

Zone	Lumens
0-10	131.69
10-20	251.22
20-30	176.29
30-40	96.12
40-50	65.82
50-60	47.68
60-70	36.30
70-80	22.09
80-90	7.33

Candela Tabulation

Q	Q
0	1565.94
5	1586.55
15	1138.76
25	501.87
35	172.40
45	88.81
55	57.05
65	41.57
75	25.59
85	8.19
90	0.13

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%		
0	121	121	121	121	118	118	118	118	113	113	113	108	108	108	103	103	103	103	101		
1	114	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	92	92		
2	107	102	97	93	105	100	96	92	96	93	90	93	90	88	91	88	86	84	84		
3	101	94	88	84	99	93	87	83	90	85	82	87	84	81	85	82	79	78	78		
4	96	88	81	77	94	86	81	76	84	79	75	82	78	74	80	77	74	72	72		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67		
6	87	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63	63		
7	83	73	66	62	81	72	66	62	71	65	62	70	65	61	68	64	61	59	59		
8	79	69	63	58	78	68	62	58	67	62	58	66	61	58	65	61	58	56	56		
9	76	66	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53	53		
10	72	63	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51	51		

RC - Ceiling Cavity Reflectance      RW - Wall Reflectance

Cone of Light		
4.0	5.42 fc	10.4 ft
8.0	1.35 fc	20.8 ft
12.0	0.6 fc	31.2 ft
16.0	0.34 fc	41.5 ft
20.0	0.22 fc	52 ft
24.0	0.15 fc	62.4 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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