

PROJECT:

TYPE:

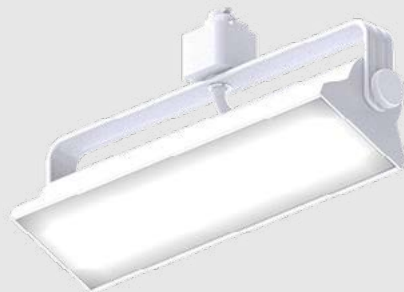
DATE:

PRODUCT CODE:

ESSENCE TRACK

ARCHITECTURAL WALL WASH TRACK HEAD

ESS-363



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 |
|----------------|------------------|---------|
| 4400 | 4470 | 55.7W |

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

Specifications:

| | |
|----------------------|--|
| Lumens | 4400 |
| CCT | 40K |
| CRI | 80+ |
| Color Quality | 3 Step Mac Adam Ellipse |
| Optics | VWD (Very Wide 98°) |
| Finish | White, Black, Custom (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-363-4400L-40K-90-98D-DIMTR-120V**

| Series | Lumens | CCT | CRI | Optics | Drivers | Voltage | Finish |
|---------|--------|-----|-----|--------------|---------|---------|---|
| ESS-363 | 4400L | 40K | 80+ | 98D (98°) | 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.

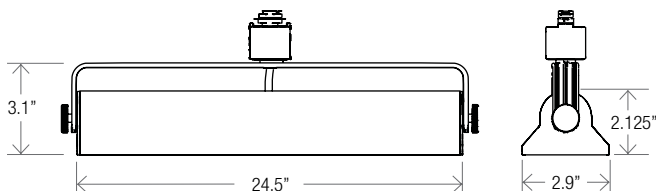
Dimming and Driver

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)

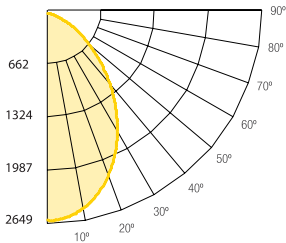


ESS-363-4400L-40K-80-98D-DIMTR-120

TEST NO: **EPL011947**

INPUT WATTS: 55.7 LUMENS: 4470 CRI: 80 EFFICACY: 80 CCT: 4000K SPACING CRITERIA: 1.12

Candle Power Distribution (Candelas)



Zonal Lumens Summary

| Zone | Lumens | %Lamp | %Fixt |
|------|---------|-------|-------|
| 0-20 | 925.12 | 20.70 | 20.70 |
| 0-30 | 1854.37 | 41.50 | 41.50 |
| 0-40 | 2809.26 | 62.80 | 62.90 |
| 0-60 | 4136.23 | 92.50 | 92.50 |
| 0-80 | 4464.29 | 99.90 | 99.90 |
| 0-90 | 4464.42 | 99.90 | 99.90 |

Luminance (Average candela/m²)

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45 | 5 | 5 | 6 |
| 55 | 4 | 4 | 4 |
| 65 | 2 | 2 | 3 |
| 75 | 1 | 1 | 1 |
| 85 | 0 | 0 | 0 |

Lumens Per Zone

| Zone | Lumens |
|-------|--------|
| 0-10 | 247.73 |
| 10-20 | 677.39 |
| 20-30 | 929.25 |
| 30-40 | 954.90 |
| 40-50 | 792.48 |
| 50-60 | 534.48 |
| 60-70 | 267.15 |
| 70-80 | 60.91 |
| 80-90 | 0.13 |

Candela Tabulation

| Zone | Ω |
|------|---------|
| 0 | 2640.77 |
| 5 | 2615.41 |
| 15 | 2386.43 |
| 25 | 1973.20 |
| 35 | 1460.55 |
| 45 | 955.82 |
| 55 | 539.27 |
| 65 | 230.17 |
| 75 | 36.83 |
| 85 | 0.07 |
| 90 | 0.10 |

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% |
| ROOM CAVITY RATIO | 0 | | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 | | |
| | 1 | | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | 89 | 89 | 89 | | |
| | 2 | | 103 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 79 | 79 | 79 | 79 | | |
| | 3 | | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | 69 | 69 | 69 | | |
| | 4 | | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 70 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 61 | 61 | 61 | 61 | | |
| | 5 | | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 63 | 58 | 67 | 61 | 57 | 65 | 60 | 57 | 55 | 55 | 55 | 55 | | |
| | 6 | | 77 | 66 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 49 | 49 | 49 | 49 | | |
| | 7 | | 72 | 60 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 47 | 57 | 51 | 46 | 55 | 50 | 46 | 44 | 44 | 44 | 44 | | |
| | 8 | | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 51 | 46 | 42 | 40 | 40 | 40 | 40 | | |
| | 9 | | 64 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 42 | 39 | 37 | 37 | 37 | 37 | | |
| | 10 | | 60 | 48 | 41 | 36 | 59 | 47 | 41 | 36 | 46 | 40 | 36 | 46 | 40 | 36 | 45 | 39 | 35 | 34 | 34 | 34 | 34 | | |

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

| Cone of Light | | |
|-------------------|-----------------------------|---------------|
| 4.0 | 9.14 fc | 28.4 ft |
| 8.0 | 2.28 fc | 56.7 ft |
| 12.0 | 1.02 fc | 85.1 ft |
| 16.0 | 0.57 fc | 113.4 ft |
| 20.0 | 0.37 fc | 141.8 ft |
| 24.0 | 0.25 fc | 170.2 ft |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

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