

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P948863

Luminaire Tested: **GALN-SB3D-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-750-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33849 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

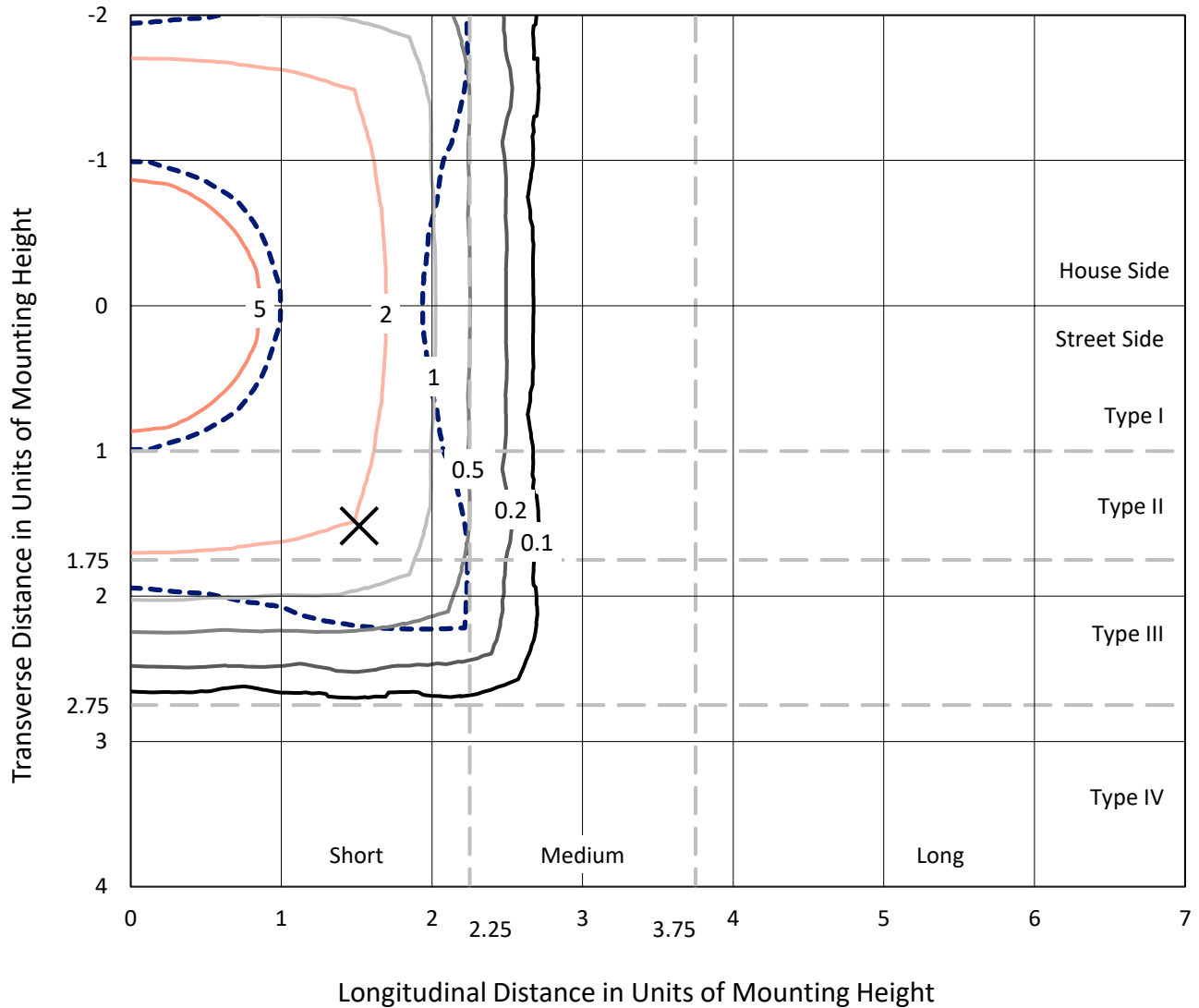
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

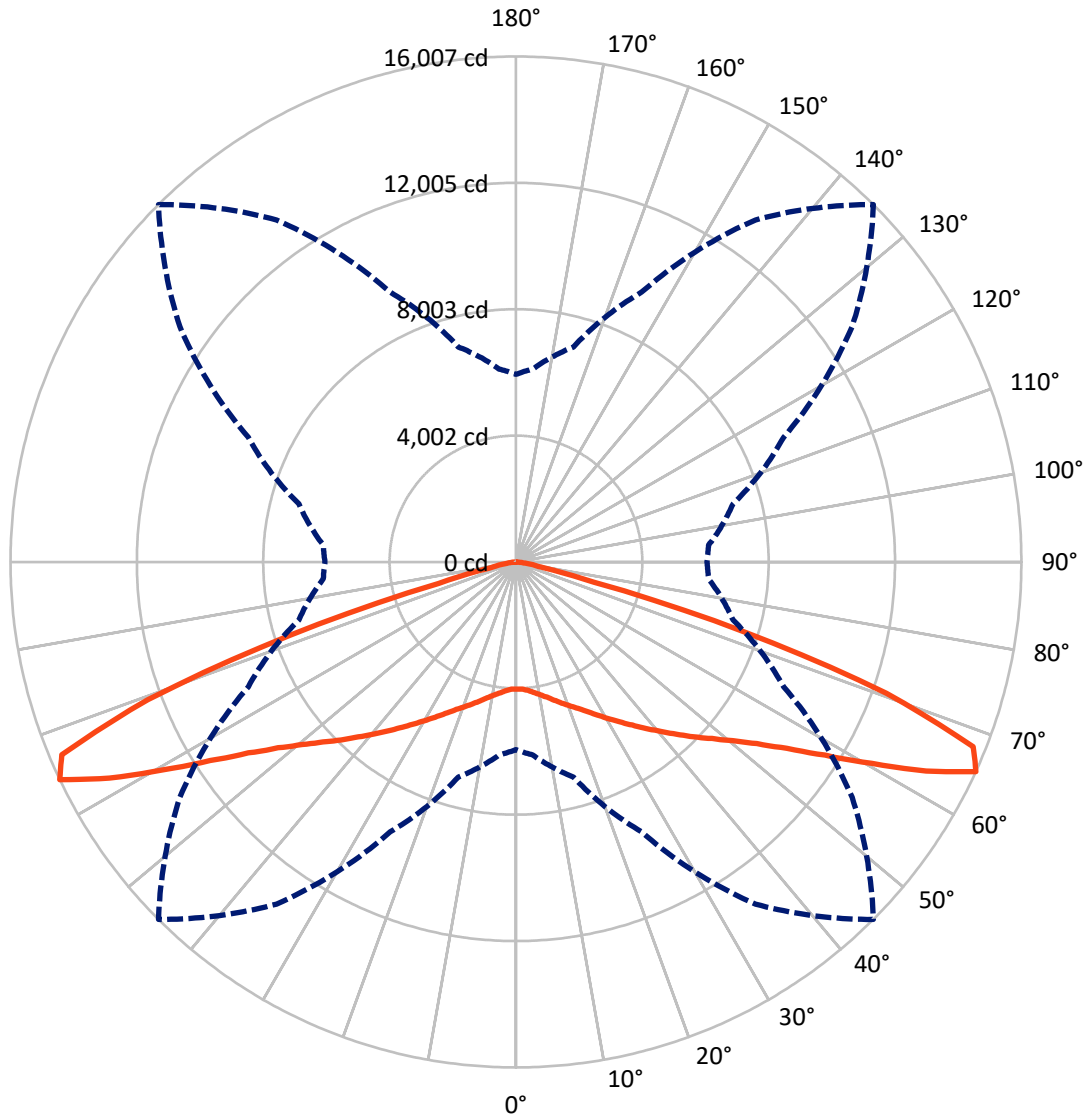
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16924.5 | 0.0 | 16924.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16924.5 | 0.0 | 16924.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33849.0 | 0.0 | 33849.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 397.6 | 1.2 |
| 10°-20° | 1297.3 | 3.8 |
| 20°-30° | 2449.4 | 7.2 |
| 30°-40° | 4010.8 | 11.8 |
| 40°-50° | 6218.8 | 18.4 |
| 50°-60° | 9186.5 | 27.1 |
| 60°-70° | 8744.6 | 25.8 |
| 70°-80° | 1411.1 | 4.2 |
| 80°-90° | 133.0 | 0.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 33849.0 | 100.0 |
| 0°-180° | 33849.0 | 100.0 |

Coefficient of Utilization



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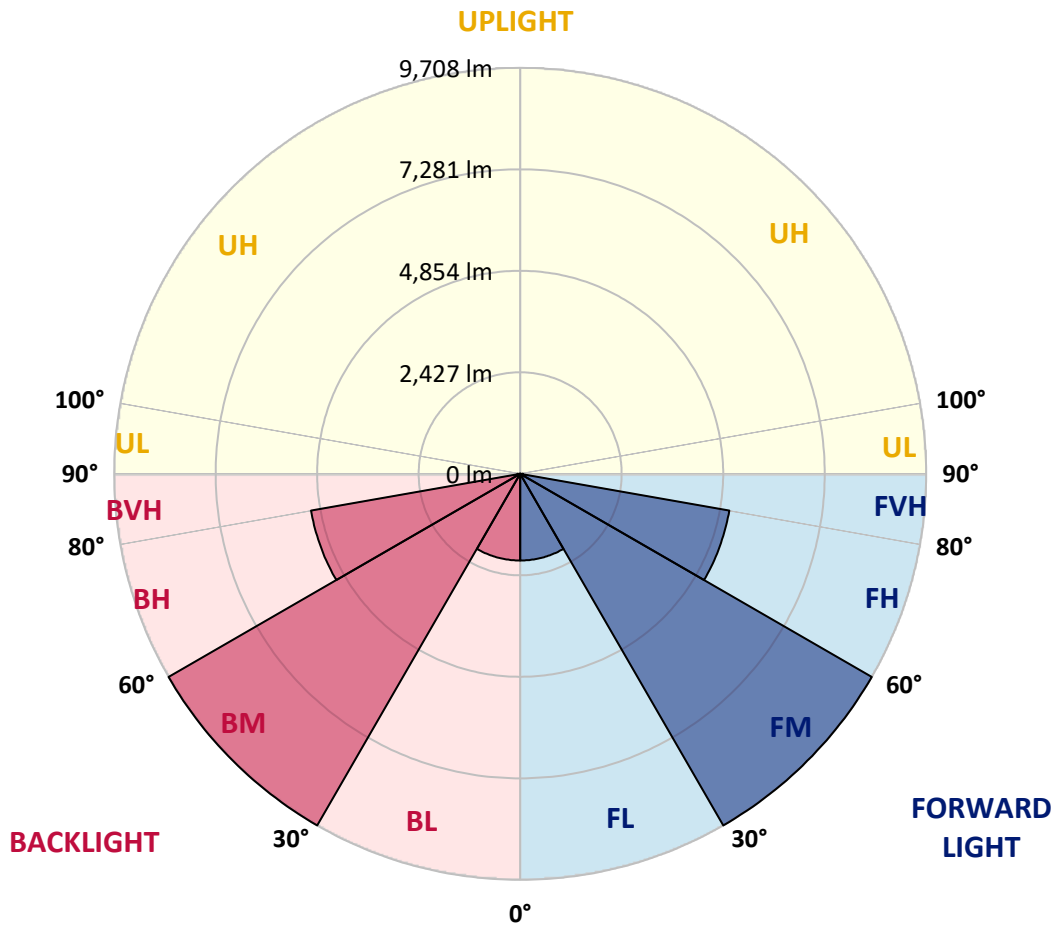
CATALOG NUMBER: GALN-SB3D-750-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2072.1 | 6.1 | | | |
| FM (30°-60°) | 9708.0 | 28.7 | | | |
| FH (60°-80°) | 5077.8 | 15.0 | | | G3/7500 |
| FVH (80°-90°) | 66.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2072.1 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 9708.0 | 28.7 | B5 | | |
| BH (60°-80°) | 5077.8 | 15.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 66.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4028.4 | 4028.4 | 4028.4 | 4028.4 | 4028.4 | 4028.4 | 4028.4 | 4028.4 | 4028.4 | 4028.4 |
| 2.5° | 4055.5 | 4042.0 | 4052.1 | 4043.7 | 4036.9 | 4030.1 | 4033.5 | 4045.4 | 4050.4 | 4052.1 |
| 5° | 4109.9 | 4098.0 | 4103.1 | 4103.1 | 4091.2 | 4087.8 | 4089.5 | 4098.0 | 4108.2 | 4108.2 |
| 7.5° | 4198.2 | 4186.3 | 4198.2 | 4191.4 | 4181.2 | 4177.8 | 4176.1 | 4182.9 | 4198.2 | 4198.2 |
| 10° | 4305.2 | 4291.6 | 4298.4 | 4295.0 | 4283.1 | 4278.0 | 4276.3 | 4286.5 | 4300.1 | 4298.4 |
| 12.5° | 4422.4 | 4407.1 | 4415.6 | 4405.4 | 4402.0 | 4396.9 | 4396.9 | 4395.2 | 4403.7 | 4396.9 |
| 15° | 4553.1 | 4543.0 | 4546.4 | 4539.6 | 4544.7 | 4541.3 | 4527.7 | 4520.9 | 4524.3 | 4514.1 |
| 17.5° | 4707.7 | 4683.9 | 4695.8 | 4692.4 | 4692.4 | 4699.2 | 4677.1 | 4668.6 | 4675.4 | 4665.2 |
| 20° | 4886.0 | 4862.2 | 4867.3 | 4860.5 | 4852.0 | 4858.8 | 4831.7 | 4838.5 | 4843.6 | 4836.8 |
| 22.5° | 5081.3 | 5050.7 | 5049.0 | 5052.4 | 5033.8 | 5035.5 | 5016.8 | 5033.8 | 5044.0 | 5025.3 |
| 25° | 5281.7 | 5249.4 | 5271.5 | 5263.0 | 5239.3 | 5244.4 | 5230.8 | 5247.7 | 5256.2 | 5232.5 |
| 27.5° | 5494.0 | 5471.9 | 5492.3 | 5497.4 | 5468.5 | 5488.9 | 5468.5 | 5483.8 | 5492.3 | 5456.6 |
| 30° | 5742.0 | 5719.9 | 5738.6 | 5752.1 | 5718.2 | 5750.4 | 5733.5 | 5743.7 | 5745.4 | 5702.9 |
| 32.5° | 6012.0 | 5978.0 | 6025.6 | 6032.4 | 5995.0 | 6034.1 | 6012.0 | 6025.6 | 6034.1 | 5976.3 |
| 35° | 6341.5 | 6299.0 | 6353.3 | 6344.9 | 6312.6 | 6344.9 | 6324.5 | 6344.9 | 6365.2 | 6295.6 |
| 37.5° | 6696.4 | 6652.2 | 6710.0 | 6694.7 | 6664.1 | 6686.2 | 6674.3 | 6687.9 | 6720.2 | 6645.5 |
| 40° | 7087.0 | 7032.7 | 7110.8 | 7083.6 | 7054.7 | 7051.3 | 7058.1 | 7066.6 | 7109.1 | 7025.9 |
| 42.5° | 7504.8 | 7447.0 | 7564.2 | 7521.8 | 7481.0 | 7453.8 | 7475.9 | 7492.9 | 7533.7 | 7440.3 |
| 45° | 7982.0 | 7915.8 | 8068.6 | 8017.7 | 7953.1 | 7897.1 | 7932.8 | 7958.2 | 8017.7 | 7905.6 |
| 47.5° | 8508.5 | 8433.8 | 8596.8 | 8581.5 | 8476.2 | 8353.9 | 8435.5 | 8508.5 | 8552.6 | 8416.8 |
| 50° | 9023.1 | 8965.3 | 9179.3 | 9198.0 | 9068.9 | 8897.4 | 9011.2 | 9121.6 | 9133.5 | 8955.1 |
| 52.5° | 9505.4 | 9447.6 | 9758.4 | 9875.6 | 9760.1 | 9556.3 | 9676.9 | 9789.0 | 9699.0 | 9468.0 |
| 55° | 9890.9 | 9843.4 | 10239.1 | 10541.4 | 10580.4 | 10412.3 | 10483.6 | 10480.2 | 10184.7 | 9829.8 |
| 57.5° | 9984.3 | 9977.5 | 10476.8 | 11117.1 | 11524.7 | 11545.0 | 11404.1 | 11044.1 | 10407.2 | 9930.0 |
| 60° | 9559.7 | 9602.2 | 10288.3 | 11417.7 | 12504.6 | 12956.3 | 12346.6 | 11319.2 | 10154.1 | 9491.8 |
| 62.5° | 8289.4 | 8401.5 | 9228.6 | 11050.8 | 13296.0 | 14579.9 | 13102.4 | 10901.4 | 9114.8 | 8250.3 |
| 65° | 5940.7 | 6136.0 | 7049.6 | 9430.7 | 13224.7 | 16006.5 | 12993.7 | 9354.2 | 7117.6 | 6120.7 |
| 67.5° | 2695.2 | 2893.9 | 3670.0 | 6456.9 | 11495.8 | 15619.3 | 11468.6 | 6524.9 | 3853.4 | 2904.1 |
| 70° | 976.5 | 1010.5 | 1260.1 | 2584.8 | 7346.8 | 12445.1 | 7661.0 | 2603.5 | 1340.0 | 1076.7 |
| 72.5° | 591.0 | 596.1 | 648.8 | 925.6 | 2552.5 | 7555.7 | 2661.2 | 956.1 | 662.3 | 587.6 |
| 75° | 375.3 | 371.9 | 461.9 | 565.5 | 905.2 | 2549.1 | 949.4 | 565.5 | 460.2 | 419.5 |
| 77.5° | 270.0 | 278.5 | 331.2 | 422.9 | 570.6 | 864.4 | 560.4 | 404.2 | 331.2 | 271.7 |
| 80° | 202.1 | 207.2 | 241.2 | 329.5 | 400.8 | 538.4 | 356.6 | 298.9 | 249.7 | 169.8 |
| 82.5° | 146.1 | 146.1 | 157.9 | 239.5 | 244.6 | 290.4 | 193.6 | 210.6 | 164.7 | 120.6 |
| 85° | 86.6 | 84.9 | 98.5 | 142.7 | 127.4 | 107.0 | 88.3 | 129.1 | 103.6 | 74.7 |
| 87.5° | 30.6 | 32.3 | 30.6 | 40.8 | 34.0 | 28.9 | 27.2 | 35.7 | 28.9 | 25.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 4028.4 |
| 4052.1 |
| 4108.2 |
| 4193.1 |
| 4295.0 |
| 4400.3 |
| 4515.8 |
| 4673.7 |
| 4852.0 |
| 5044.0 |
| 5259.6 |
| 5483.8 |
| 5728.4 |
| 6015.4 |
| 6338.1 |
| 6691.3 |
| 7053.0 |
| 7489.5 |
| 7963.3 |
| 8462.6 |
| 8977.2 |
| 9474.8 |
| 9841.7 |
| 9899.4 |
| 9413.7 |
| 8199.4 |
| 6047.6 |
| 2861.6 |
| 1063.1 |
| 597.8 |
| 422.9 |
| 276.8 |
| 174.9 |
| 120.6 |
| 73.0 |
| 23.8 |
| 0.0 |

OF REPORT)