

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: P528663

Luminaire Tested: **GALN-SA3D-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12911 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

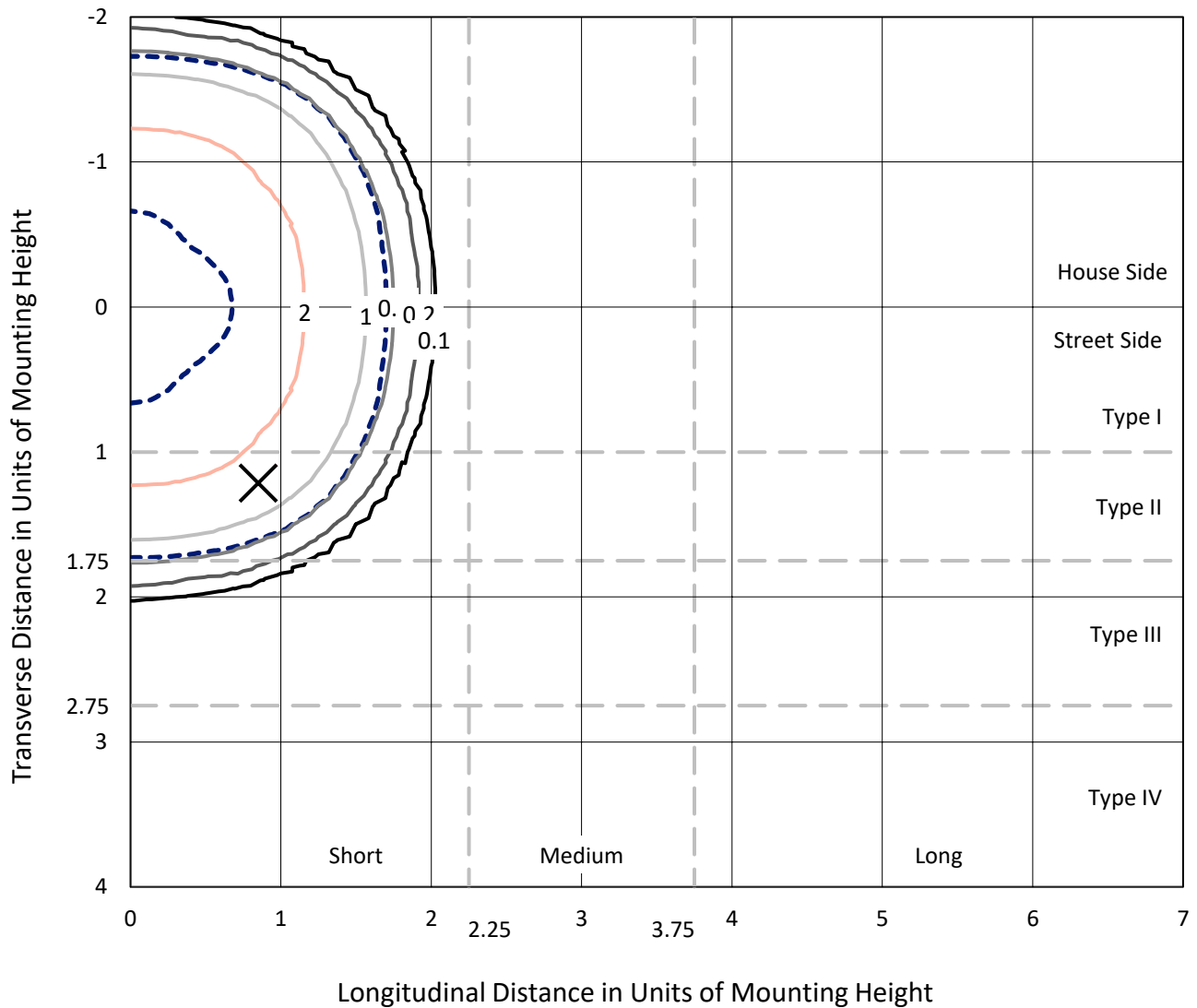
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528663
 CATALOG NUMBER: GALN-SA3D-735-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

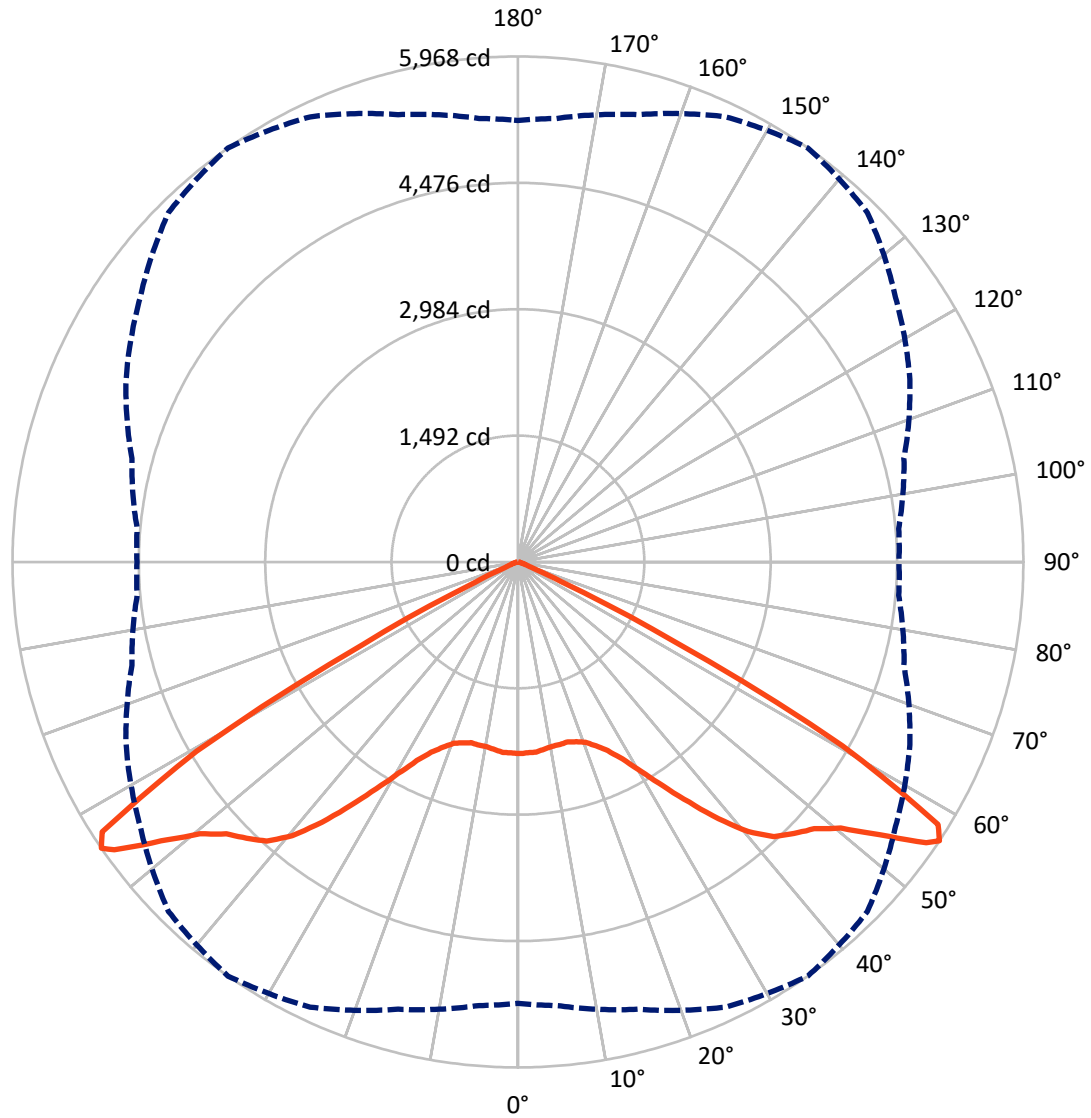
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

REPORT NUMBER: P528663
CATALOG NUMBER: GALN-SA3D-735-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528663
 CATALOG NUMBER: GALN-SA3D-735-U-5MQ-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6455.5 | 0.0 | 6455.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6455.5 | 0.0 | 6455.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12911.0 | 0.0 | 12911.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 212.6 | 1.6 |
| 10°-20° | 620.7 | 4.8 |
| 20°-30° | 1124.1 | 8.7 |
| 30°-40° | 2084.5 | 16.1 |
| 40°-50° | 3421.5 | 26.5 |
| 50°-60° | 4407.9 | 34.1 |
| 60°-70° | 971.4 | 7.5 |
| 70°-80° | 56.4 | 0.4 |
| 80°-90° | 11.9 | 0.1 |
| 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° | 12911.0 | 100.0 |
| 0°-180° | 12911.0 | 100.0 |

Coefficient of Utilization

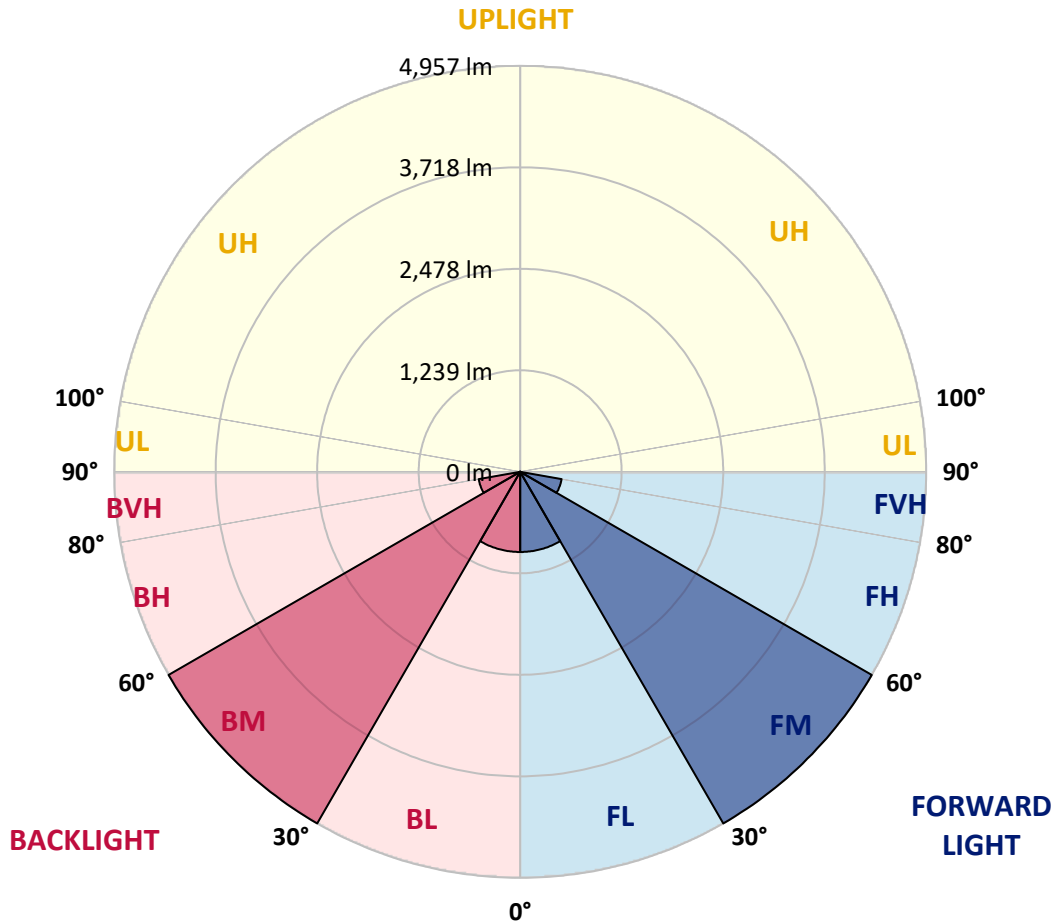


REPORT NUMBER: P528663
 CATALOG NUMBER: GALN-SA3D-735-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 978.7 | 7.6 | | | |
| FM (30°-60°) | 4956.9 | 38.4 | | | |
| FH (60°-80°) | 513.9 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 5.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 978.7 | 7.6 | B2/1000 | | |
| BM (30°-60°) | 4956.9 | 38.4 | B3/5000 | | |
| BH (60°-80°) | 513.9 | 4.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 5.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0
 Type V Short





REPORT NUMBER: P528663
 CATALOG NUMBER: GALN-SA3D-735-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 |
| 2.5° | 2267.0 | 2267.0 | 2269.3 | 2271.6 | 2255.3 | 2248.2 | 2250.6 | 2245.9 | 2243.6 | 2250.6 | 2250.6 |
| 5° | 2259.9 | 2259.9 | 2252.9 | 2255.3 | 2255.3 | 2234.2 | 2234.2 | 2238.9 | 2238.9 | 2224.9 | 2220.2 |
| 7.5° | 2241.2 | 2236.6 | 2227.2 | 2238.9 | 2231.9 | 2231.9 | 2215.5 | 2203.8 | 2199.1 | 2208.5 | 2199.1 |
| 10° | 2201.5 | 2203.8 | 2213.2 | 2217.8 | 2213.2 | 2227.2 | 2199.1 | 2182.7 | 2166.4 | 2159.3 | 2159.3 |
| 12.5° | 2182.7 | 2196.8 | 2182.7 | 2194.4 | 2210.8 | 2199.1 | 2182.7 | 2171.0 | 2147.6 | 2138.3 | 2138.3 |
| 15° | 2180.4 | 2189.8 | 2194.4 | 2210.8 | 2203.8 | 2208.5 | 2175.7 | 2161.7 | 2126.6 | 2110.2 | 2103.2 |
| 17.5° | 2178.1 | 2189.8 | 2196.8 | 2227.2 | 2231.9 | 2234.2 | 2208.5 | 2166.4 | 2136.0 | 2119.6 | 2103.2 |
| 20° | 2203.8 | 2208.5 | 2222.5 | 2252.9 | 2271.6 | 2304.4 | 2257.6 | 2213.2 | 2147.6 | 2128.9 | 2121.9 |
| 22.5° | 2236.6 | 2259.9 | 2274.0 | 2306.7 | 2355.9 | 2383.9 | 2323.1 | 2267.0 | 2199.1 | 2175.7 | 2147.6 |
| 25° | 2341.8 | 2337.1 | 2360.5 | 2428.4 | 2468.2 | 2489.2 | 2440.1 | 2358.2 | 2269.3 | 2241.2 | 2245.9 |
| 27.5° | 2472.8 | 2477.5 | 2498.6 | 2573.4 | 2631.9 | 2664.7 | 2606.2 | 2498.6 | 2412.0 | 2365.2 | 2360.5 |
| 30° | 2643.6 | 2638.9 | 2662.3 | 2762.9 | 2868.2 | 2917.3 | 2814.4 | 2688.1 | 2603.9 | 2543.0 | 2557.1 |
| 32.5° | 2823.8 | 2826.1 | 2891.6 | 2982.8 | 3153.6 | 3249.5 | 3083.4 | 2929.0 | 2802.7 | 2760.6 | 2739.5 |
| 35° | 3090.5 | 3102.2 | 3153.6 | 3294.0 | 3483.5 | 3607.5 | 3425.0 | 3240.2 | 3095.1 | 3017.9 | 3027.3 |
| 37.5° | 3420.3 | 3408.6 | 3495.2 | 3647.3 | 3846.1 | 3937.4 | 3783.0 | 3572.4 | 3425.0 | 3373.5 | 3406.3 |
| 40° | 3771.3 | 3783.0 | 3827.4 | 3965.4 | 4187.7 | 4248.5 | 4019.2 | 3904.6 | 3775.9 | 3750.2 | 3790.0 |
| 42.5° | 4122.2 | 4115.2 | 4147.9 | 4271.9 | 4433.3 | 4391.2 | 4255.5 | 4187.7 | 4096.4 | 4045.0 | 4098.8 |
| 45° | 4379.5 | 4367.8 | 4428.7 | 4512.9 | 4571.4 | 4491.8 | 4431.0 | 4407.6 | 4360.8 | 4304.7 | 4353.8 |
| 47.5° | 4629.8 | 4620.5 | 4679.0 | 4702.4 | 4707.0 | 4601.8 | 4613.5 | 4655.6 | 4538.6 | 4421.6 | 4477.8 |
| 50° | 4842.7 | 4826.4 | 4898.9 | 4950.4 | 4938.7 | 4770.2 | 4812.3 | 4770.2 | 4587.7 | 4449.7 | 4428.7 |
| 52.5° | 5198.3 | 5205.4 | 5282.6 | 5376.1 | 5348.1 | 5207.7 | 5146.9 | 4955.0 | 4721.1 | 4597.1 | 4524.6 |
| 55° | 5422.9 | 5387.8 | 5521.2 | 5818.3 | 5851.1 | 5706.0 | 5437.0 | 5153.9 | 4803.0 | 4650.9 | 4632.2 |
| 56° | 5212.4 | 5256.8 | 5467.4 | 5799.6 | 5968.0 | 5834.7 | 5444.0 | 5104.8 | 4718.7 | 4512.9 | 4498.8 |
| 57.5° | 4676.6 | 4653.2 | 4938.7 | 5392.5 | 5851.1 | 5794.9 | 5252.2 | 4753.8 | 4304.7 | 4073.0 | 4045.0 |
| 60° | 2910.3 | 2978.2 | 3228.5 | 3790.0 | 4402.9 | 4431.0 | 3892.9 | 3464.8 | 2940.7 | 2734.9 | 2784.0 |
| 62.5° | 1139.3 | 1080.8 | 1237.6 | 1656.4 | 2077.5 | 2171.0 | 1967.5 | 1635.3 | 1342.9 | 1139.3 | 1125.3 |
| 65° | 264.4 | 257.3 | 290.1 | 400.1 | 559.1 | 648.0 | 615.3 | 442.2 | 325.2 | 308.8 | 285.4 |
| 67.5° | 149.7 | 149.7 | 142.7 | 142.7 | 156.7 | 166.1 | 159.1 | 156.7 | 163.8 | 170.8 | 168.4 |
| 70° | 105.3 | 102.9 | 98.3 | 100.6 | 95.9 | 95.9 | 102.9 | 114.6 | 124.0 | 124.0 | 126.3 |
| 72.5° | 63.2 | 63.2 | 63.2 | 70.2 | 70.2 | 70.2 | 77.2 | 86.6 | 88.9 | 86.6 | 84.2 |
| 75° | 28.1 | 28.1 | 32.8 | 39.8 | 44.5 | 46.8 | 53.8 | 58.5 | 63.2 | 58.5 | 53.8 |
| 77.5° | 7.0 | 7.0 | 11.7 | 16.4 | 21.1 | 25.7 | 35.1 | 42.1 | 44.5 | 42.1 | 35.1 |
| 80° | 2.3 | 2.3 | 4.7 | 11.7 | 21.1 | 25.7 | 35.1 | 37.4 | 39.8 | 35.1 | 28.1 |
| 82.5° | 2.3 | 2.3 | 4.7 | 11.7 | 16.4 | 21.1 | 28.1 | 32.8 | 35.1 | 30.4 | 28.1 |
| 85° | 0.0 | 2.3 | 4.7 | 9.4 | 14.0 | 18.7 | 18.7 | 14.0 | 11.7 | 7.0 | 9.4 |
| 87.5° | 0.0 | 0.0 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)