

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: P458805

Luminaire Tested: **GALN-SA3C-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20462 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

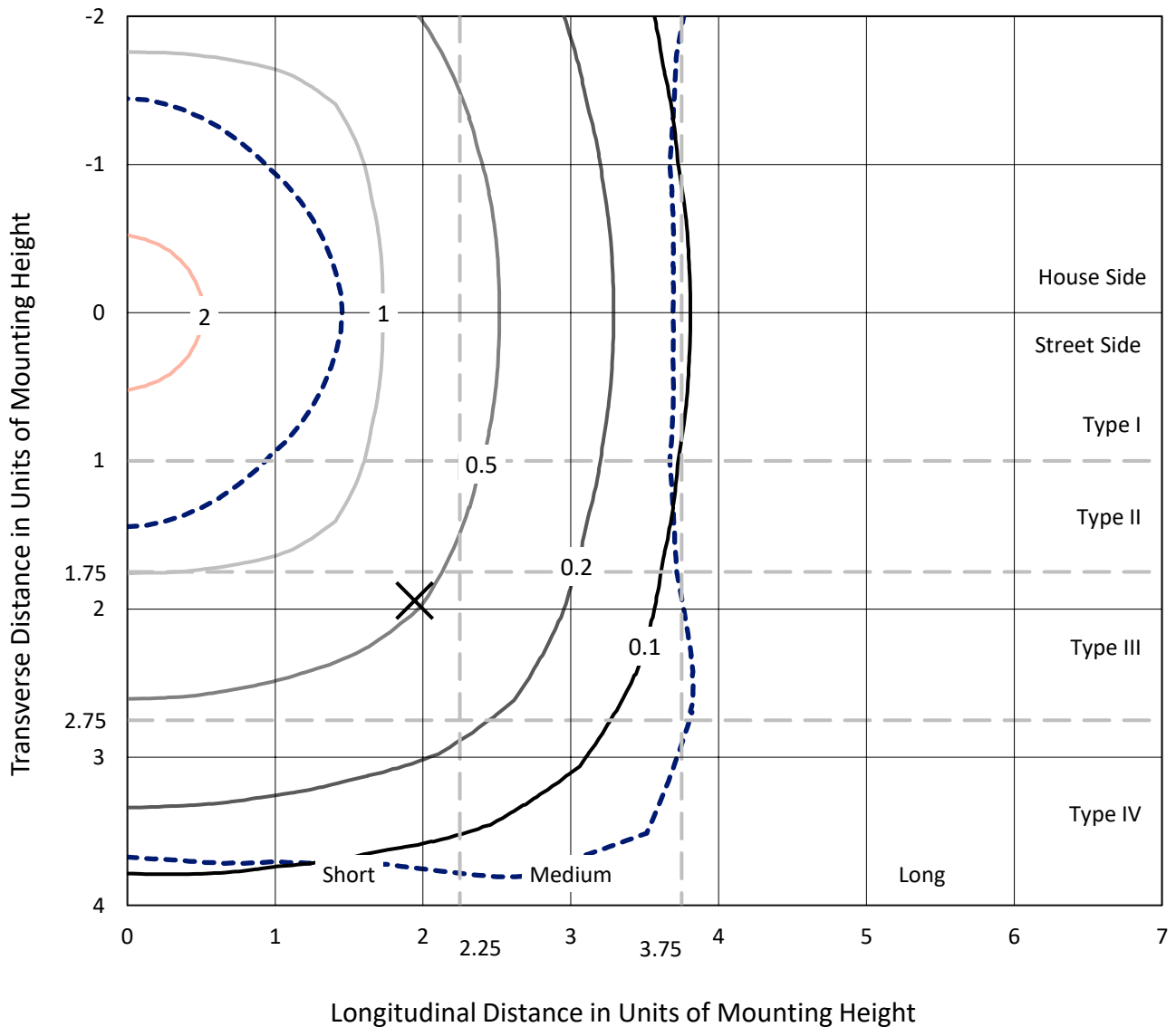
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458805
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Iso-Footcandle Lines of Horizontal Illumination

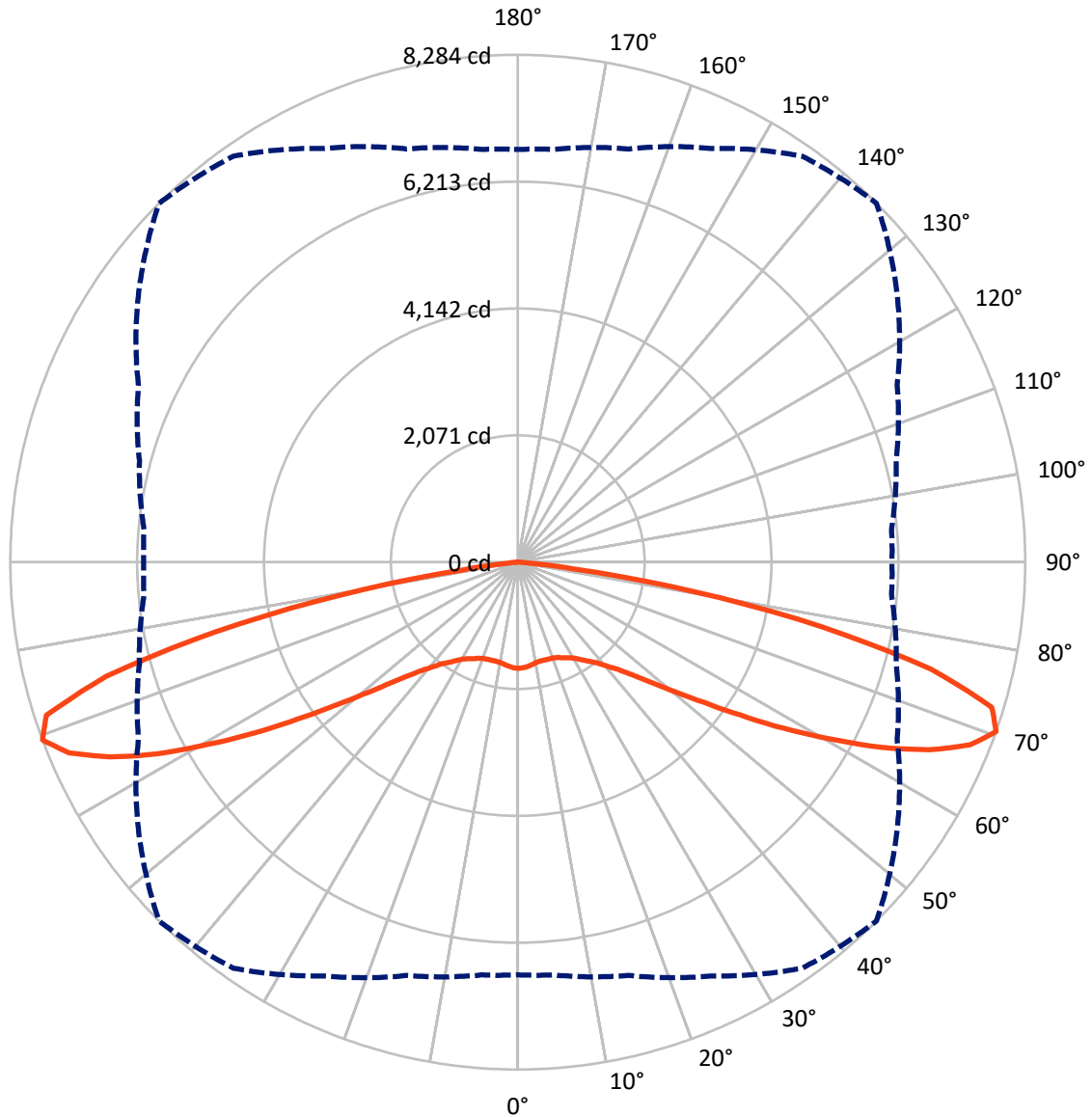
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P458805
CATALOG NUMBER: GALN-SA3C-735-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10231.0	0.0	10231.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10231.0	0.0	10231.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20462.0	0.0	20462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	0.8
10°-20°	474.3	2.3
20°-30°	808.1	3.9
30°-40°	1252.5	6.1
40°-50°	2108.2	10.3
50°-60°	3835.7	18.7
60°-70°	6493.7	31.7
70°-80°	5026.4	24.6
80°-90°	301.2	1.5
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°	20462.0	100.0
0°-180°	20462.0	100.0



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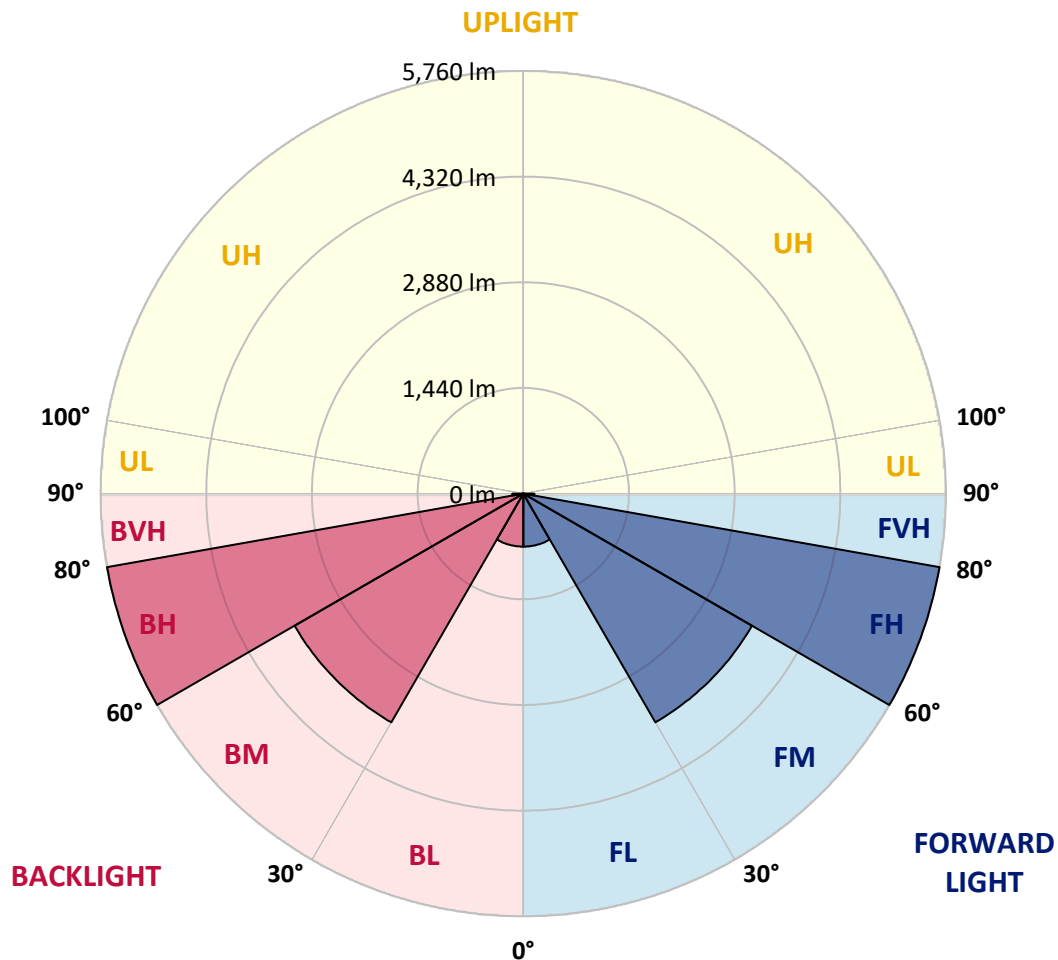
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.2	3.5			
FM (30°-60°)	3598.2	17.6			
FH (60°-80°)	5760.0	28.1			G3/7500
FVH (80°-90°)	150.6	0.7			G2/225
BL (0°-30°)	722.2	3.5	B2/1000		
BM (30°-60°)	3598.2	17.6	B3/5000		
BH (60°-80°)	5760.0	28.1	B5		G3/7500
BVH (80°-90°)	150.6	0.7			G2/225
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°	90°
0°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1728.0	1729.1	1729.1	1727.0	1725.9	1725.9	1724.8	1724.8	1728.0	1729.1	1730.2
5°	1712.9	1712.9	1712.9	1711.8	1709.7	1709.7	1707.5	1707.5	1708.6	1711.8	1709.7
7.5°	1692.4	1694.5	1694.5	1690.2	1687.0	1687.0	1685.9	1687.0	1688.1	1691.3	1690.2
10°	1685.9	1687.0	1681.6	1674.0	1668.6	1665.4	1666.4	1668.6	1674.0	1676.2	1677.2
12.5°	1690.2	1690.2	1680.5	1669.7	1660.0	1655.6	1654.5	1662.1	1671.8	1678.3	1680.5
15°	1695.6	1693.5	1681.6	1667.5	1657.8	1656.7	1655.6	1661.0	1675.1	1688.1	1689.1
17.5°	1698.9	1697.8	1682.6	1665.4	1660.0	1660.0	1658.9	1663.2	1678.3	1694.5	1695.6
20°	1709.7	1706.4	1689.1	1670.8	1666.4	1668.6	1665.4	1670.8	1687.0	1706.4	1710.7
22.5°	1731.3	1728.0	1710.7	1692.4	1690.2	1690.2	1689.1	1694.5	1711.8	1732.4	1735.6
25°	1757.2	1754.0	1737.8	1724.8	1727.0	1731.3	1729.1	1730.2	1744.2	1761.5	1766.9
27.5°	1791.8	1786.4	1772.3	1761.5	1768.0	1768.0	1768.0	1766.9	1775.6	1791.8	1797.2
30°	1833.9	1831.8	1816.7	1815.6	1821.0	1815.6	1815.6	1816.7	1817.7	1832.9	1838.3
32.5°	1889.1	1884.7	1877.2	1875.0	1890.1	1894.5	1879.3	1865.3	1872.8	1888.0	1891.2
35°	1979.8	1973.4	1962.5	1950.7	1962.5	1983.1	1950.7	1939.9	1959.3	1979.8	1982.0
37.5°	2103.0	2099.8	2082.5	2060.9	2059.8	2081.4	2047.9	2046.8	2083.6	2108.4	2111.7
40°	2257.6	2260.8	2239.2	2218.7	2207.9	2225.2	2199.2	2208.9	2244.6	2272.7	2270.5
42.5°	2474.8	2462.9	2429.4	2410.0	2398.1	2391.6	2385.1	2400.2	2440.2	2470.5	2494.3
45°	2728.8	2724.4	2682.3	2658.5	2632.6	2622.9	2620.7	2647.7	2696.3	2733.1	2736.3
47.5°	3016.2	3006.5	2979.5	2954.6	2944.9	2933.0	2922.2	2942.7	2991.4	3017.3	3024.9
50°	3312.3	3314.5	3314.5	3310.2	3319.9	3322.1	3292.9	3300.5	3327.5	3325.3	3323.1
52.5°	3650.6	3662.5	3718.7	3724.1	3770.6	3801.9	3748.9	3717.6	3707.9	3649.5	3653.8
55°	4048.3	4059.1	4143.4	4227.7	4353.1	4406.0	4294.7	4197.4	4128.3	4039.6	4044.0
57.5°	4544.3	4549.7	4629.7	4791.8	4990.7	5114.9	4919.3	4727.0	4586.5	4502.2	4468.7
60°	5078.2	5083.6	5200.3	5398.1	5707.2	5858.5	5616.4	5301.9	5124.7	4996.1	5004.7
62.5°	5719.1	5740.7	5845.5	6117.8	6492.8	6662.5	6341.5	5921.1	5681.2	5521.3	5527.8
65°	6405.3	6442.0	6556.6	6855.9	7201.8	7384.4	6991.0	6505.8	6207.5	6011.9	6032.5
67.5°	6850.5	6883.0	7048.3	7379.0	7810.2	7961.5	7453.6	6888.4	6515.5	6282.1	6238.9
70°	6737.1	6764.1	6984.6	7453.6	8092.3	8283.6	7563.8	6832.2	6393.4	6124.3	6107.0
72.5°	5947.1	5890.9	6212.9	6886.2	7770.2	8091.2	7216.9	6240.0	5687.7	5411.1	5378.6
75°	3941.3	4063.4	4538.9	5332.2	6573.9	6971.6	6160.0	5010.1	4315.2	4085.0	4049.4
77.5°	1317.4	1411.4	1833.9	3022.7	4481.7	5079.3	4488.1	3276.7	2318.1	1867.4	1876.1
80°	349.1	344.7	446.3	831.1	1936.6	2941.7	2254.3	1109.9	607.4	439.8	417.1
82.5°	125.4	140.5	180.5	230.2	513.3	914.3	645.2	311.2	228.0	168.6	163.2
85°	55.1	54.0	77.8	91.9	128.6	170.8	151.3	131.8	115.6	76.7	71.3
87.5°	11.9	11.9	18.4	14.0	22.7	22.7	28.1	33.5	34.6	22.7	18.4
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)