

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: P647858

Luminaire Tested: **GALN-SA4A-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647858
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-SA4A-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 8501 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

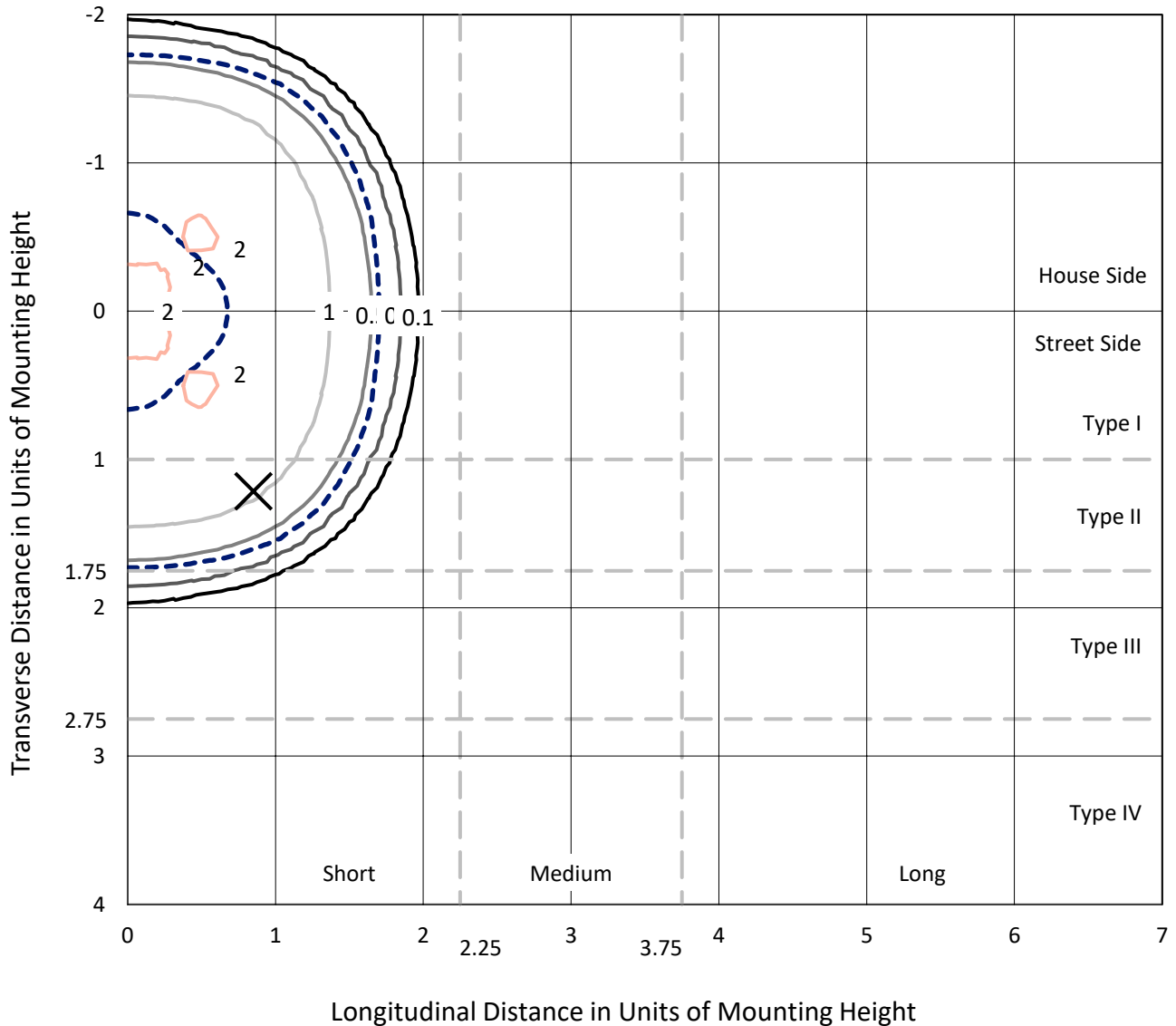
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

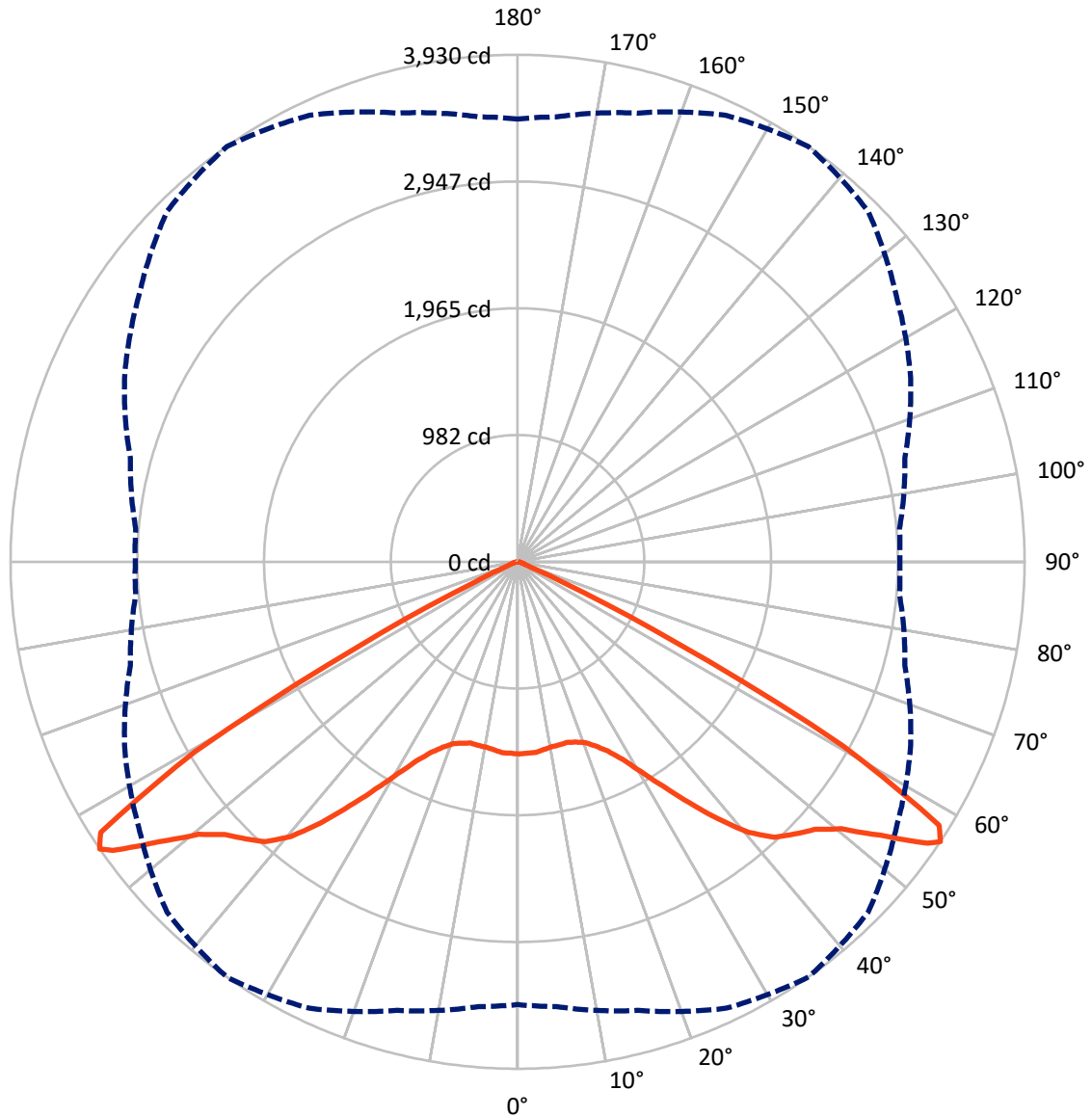
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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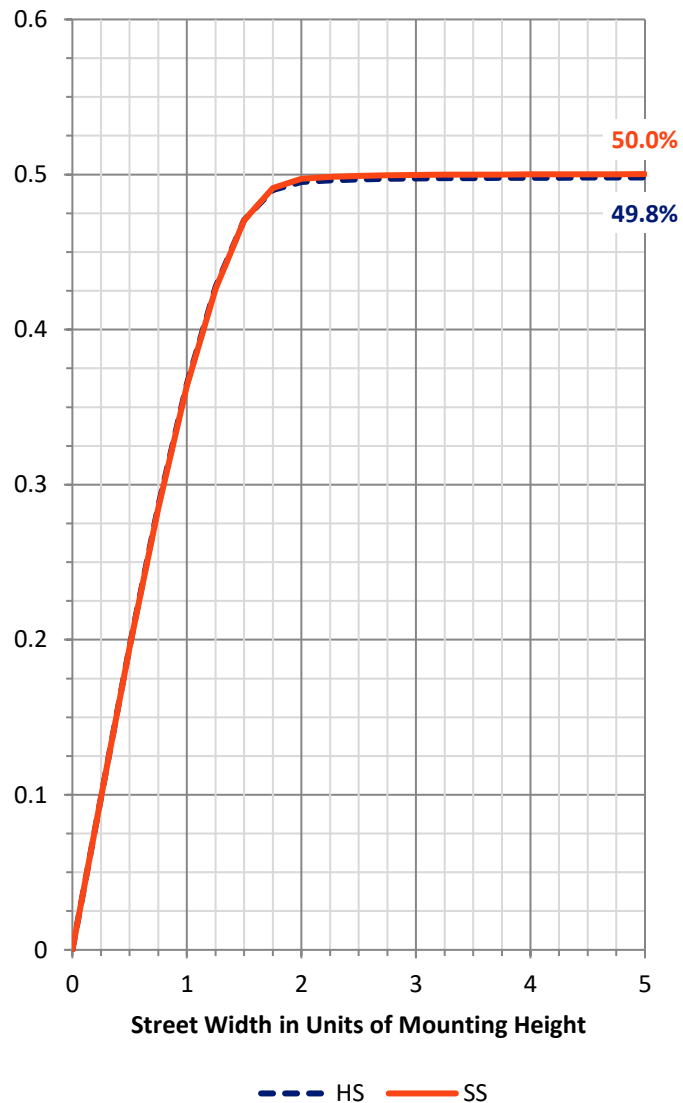
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4250.5	0.0	4250.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4250.5	0.0	4250.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8501.0	0.0	8501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.6
10°-20°	408.7	4.8
20°-30°	740.1	8.7
30°-40°	1372.5	16.1
40°-50°	2252.8	26.5
50°-60°	2902.3	34.1
60°-70°	639.6	7.5
70°-80°	37.1	0.4
80°-90°	7.8	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°	8501.0	100.0
0°-180°	8501.0	100.0

Coefficient of Utilization

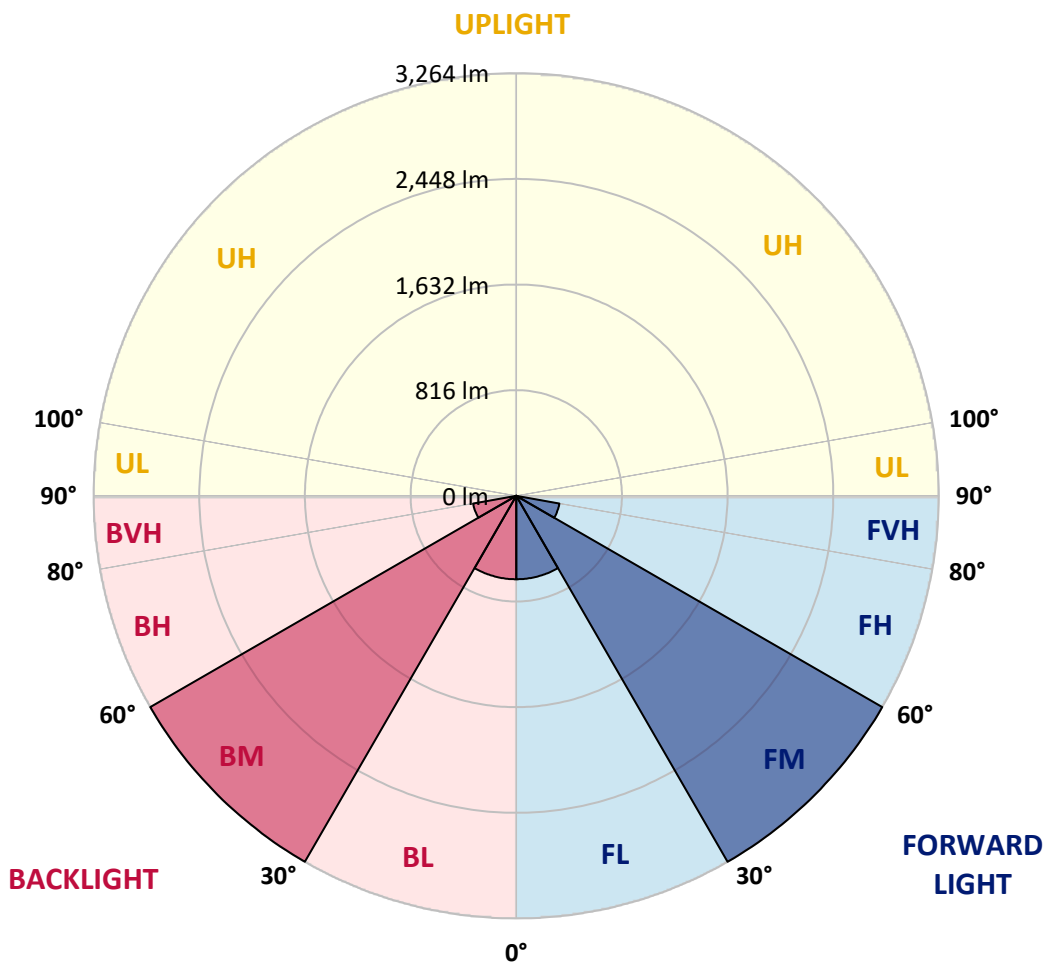


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.4	7.6			
FM (30°-60°)	3263.8	38.4			
FH (60°-80°)	338.4	4.0			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	644.4	7.6	B2/1000		
BM (30°-60°)	3263.8	38.4	B3/5000		
BH (60°-80°)	338.4	4.0	B1/500		G0/660
BVH (80°-90°)	3.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6
2.5°	1492.6	1492.6	1494.2	1495.7	1485.0	1480.3	1481.8	1478.8	1477.2	1481.8	1481.8
5°	1488.0	1488.0	1483.4	1485.0	1485.0	1471.1	1471.1	1474.2	1474.2	1464.9	1461.9
7.5°	1475.7	1472.6	1466.5	1474.2	1469.5	1469.5	1458.7	1451.1	1448.0	1454.1	1448.0
10°	1449.5	1451.1	1457.2	1460.3	1457.2	1466.5	1448.0	1437.2	1426.4	1421.8	1421.8
12.5°	1437.2	1446.4	1437.2	1444.9	1455.7	1448.0	1437.2	1429.5	1414.1	1407.9	1407.9
15°	1435.6	1441.8	1444.9	1455.7	1451.1	1454.1	1432.6	1423.3	1400.2	1389.4	1384.8
17.5°	1434.1	1441.8	1446.4	1466.5	1469.5	1471.1	1454.1	1426.4	1406.3	1395.6	1384.8
20°	1451.1	1454.1	1463.3	1483.4	1495.7	1517.3	1486.4	1457.2	1414.1	1401.7	1397.1
22.5°	1472.6	1488.0	1497.3	1518.9	1551.2	1569.7	1529.6	1492.6	1448.0	1432.6	1414.1
25°	1542.0	1538.8	1554.3	1599.0	1625.1	1639.0	1606.6	1552.7	1494.2	1475.7	1478.8
27.5°	1628.2	1631.3	1645.2	1694.4	1732.9	1754.5	1716.0	1645.2	1588.2	1557.3	1554.3
30°	1740.6	1737.6	1753.0	1819.2	1888.5	1920.9	1853.1	1769.9	1714.5	1674.4	1683.7
32.5°	1859.2	1860.8	1903.9	1964.0	2076.4	2139.6	2030.2	1928.6	1845.4	1817.7	1803.8
35°	2034.9	2042.5	2076.4	2168.9	2293.6	2375.3	2255.1	2133.4	2037.9	1987.1	1993.3
37.5°	2252.1	2244.4	2301.3	2401.5	2532.4	2592.5	2490.8	2352.2	2255.1	2221.2	2242.8
40°	2483.1	2490.8	2520.1	2611.0	2757.3	2797.3	2646.4	2570.9	2486.2	2469.3	2495.4
42.5°	2714.2	2709.6	2731.1	2812.8	2919.0	2891.3	2802.0	2757.3	2697.2	2663.4	2698.8
45°	2883.6	2876.0	2916.0	2971.4	3009.9	2957.5	2917.5	2902.1	2871.3	2834.3	2866.6
47.5°	3048.5	3042.3	3080.8	3096.2	3099.3	3030.0	3037.6	3065.4	2988.4	2911.4	2948.3
50°	3188.6	3177.8	3225.6	3259.5	3251.8	3140.8	3168.6	3140.8	3020.7	2929.8	2916.0
52.5°	3422.7	3427.3	3478.2	3539.9	3521.3	3428.9	3388.9	3262.5	3108.5	3026.8	2979.2
55°	3570.6	3547.5	3635.3	3831.0	3852.5	3757.0	3579.9	3393.5	3162.5	3062.3	3050.0
56°	3432.0	3461.3	3599.9	3818.6	3929.6	3841.7	3584.5	3361.2	3106.9	2971.4	2962.2
57.5°	3079.2	3063.9	3251.8	3550.6	3852.5	3815.6	3458.2	3130.1	2834.3	2681.9	2663.4
60°	1916.2	1960.9	2125.8	2495.4	2899.1	2917.5	2563.2	2281.3	1936.3	1800.7	1833.1
62.5°	750.2	711.7	814.9	1090.6	1367.9	1429.5	1295.5	1076.7	884.2	750.2	741.0
65°	174.1	169.4	191.0	263.4	368.2	426.7	405.1	291.1	214.2	203.3	187.9
67.5°	98.6	98.6	94.0	94.0	103.2	109.4	104.8	103.2	107.8	112.4	110.9
70°	69.3	67.8	64.7	66.2	63.2	63.2	67.8	75.5	81.7	81.7	83.2
72.5°	41.6	41.6	41.6	46.2	46.2	46.2	50.8	57.0	58.6	57.0	55.4
75°	18.5	18.5	21.5	26.2	29.3	30.8	35.4	38.5	41.6	38.5	35.4
77.5°	4.6	4.6	7.7	10.8	13.9	16.9	23.1	27.7	29.3	27.7	23.1
80°	1.6	1.6	3.1	7.7	13.9	16.9	23.1	24.7	26.2	23.1	18.5
82.5°	1.6	1.6	3.1	7.7	10.8	13.9	18.5	21.5	23.1	20.0	18.5
85°	0.0	1.6	3.1	6.2	9.2	12.3	12.3	9.2	7.7	4.6	6.2
87.5°	0.0	0.0	1.6	1.6	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)