

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: P646874

Luminaire Tested: **GALN-SA4C-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11359 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

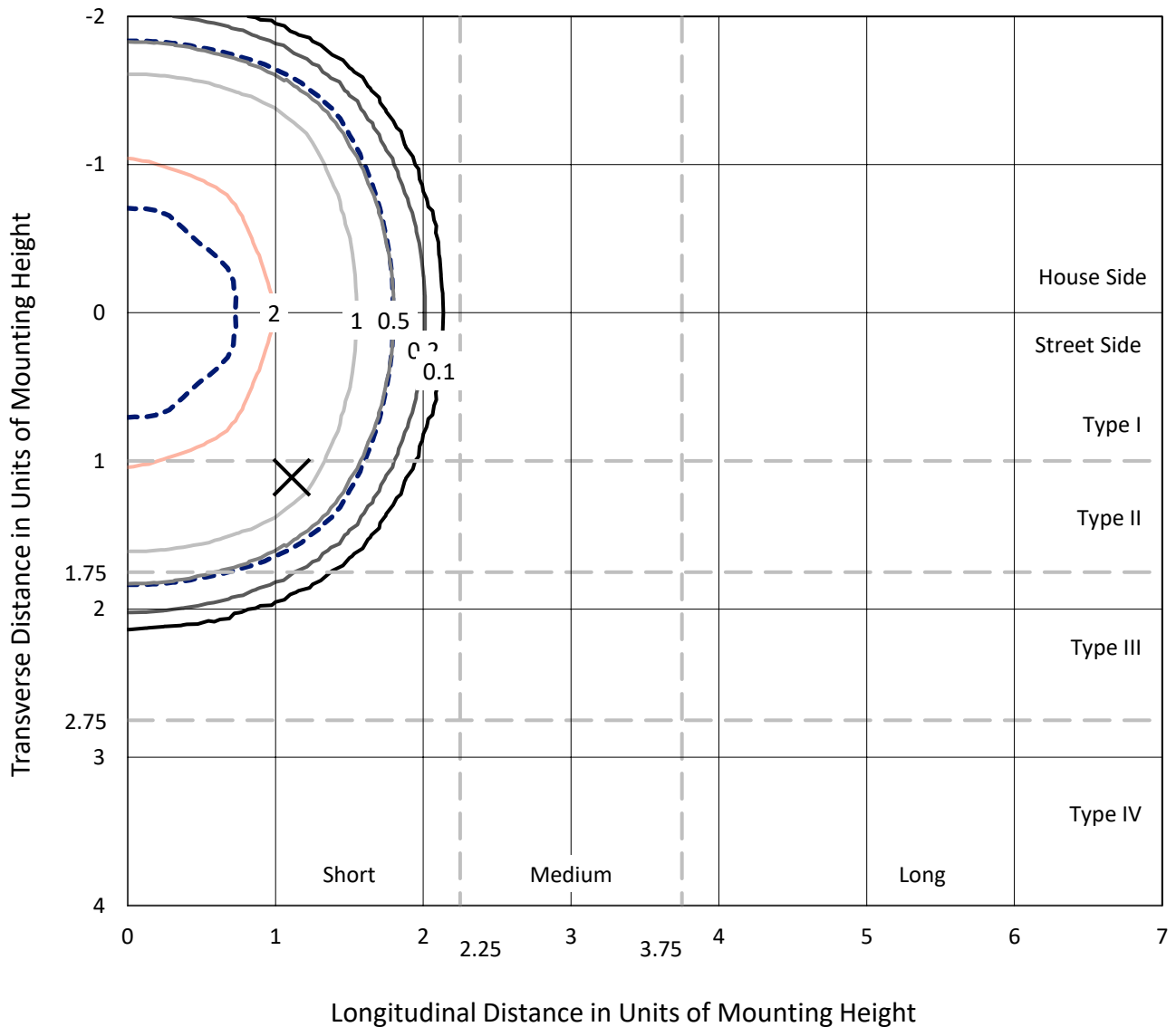
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

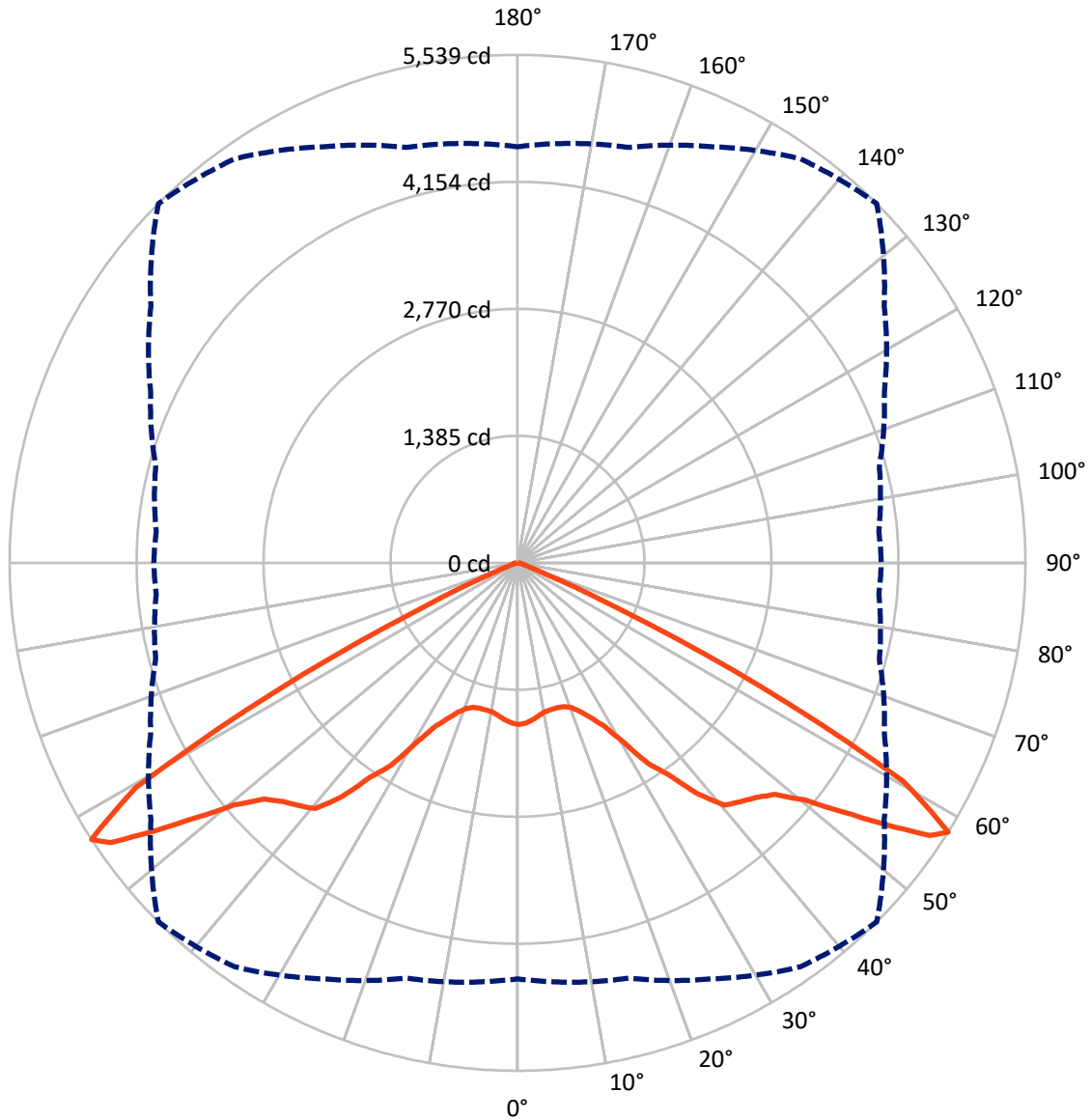
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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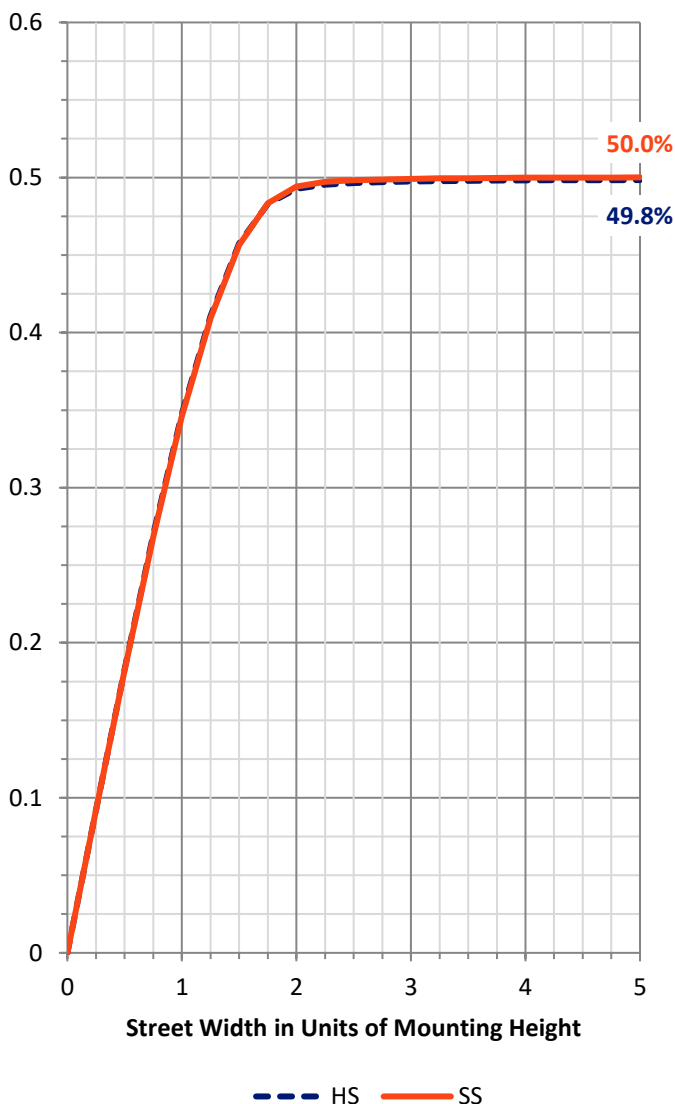
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5679.5	0.0	5679.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5679.5	0.0	5679.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11359.0	0.0	11359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	1.4
10°-20°	468.0	4.1
20°-30°	863.9	7.6
30°-40°	1698.9	15.0
40°-50°	2767.0	24.4
50°-60°	3946.1	34.7
60°-70°	1366.2	12.0
70°-80°	73.3	0.6
80°-90°	13.8	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°	11359.0	100.0
0°-180°	11359.0	100.0



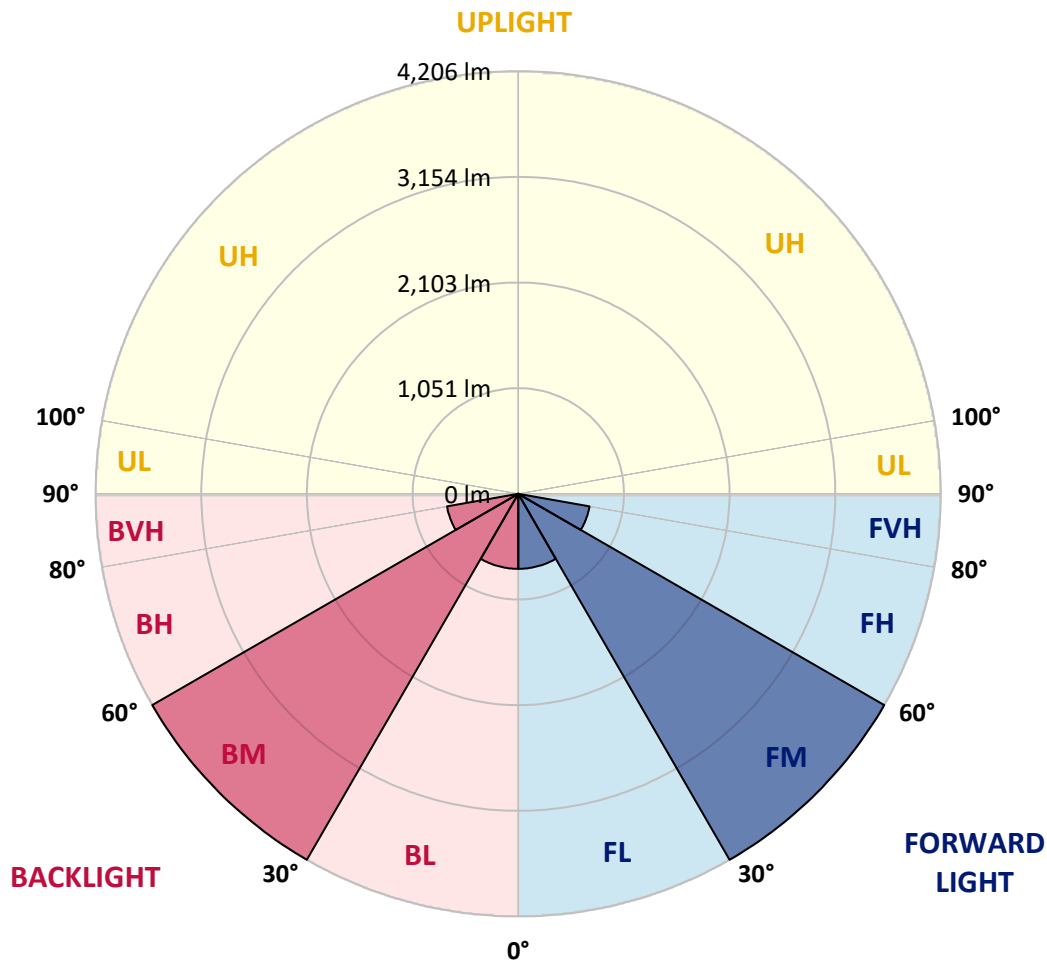
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.9	6.6			
FM (30°-60°)	4206.0	37.0			
FH (60°-80°)	719.8	6.3			G1/1800
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	746.9	6.6	B2/1000		
BM (30°-60°)	4206.0	37.0	B3/5000		
BH (60°-80°)	719.8	6.3	B2/1000		G1/1800
BVH (80°-90°)	6.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9
2.5°	1757.1	1766.6	1754.8	1750.1	1747.7	1747.7	1740.6	1740.6	1738.2	1740.6	1731.1
5°	1728.7	1738.2	1738.2	1735.8	1721.7	1719.2	1712.2	1707.4	1709.8	1700.4	1707.4
7.5°	1700.4	1707.4	1697.9	1695.6	1690.9	1681.4	1679.0	1657.7	1660.0	1660.0	1664.8
10°	1695.6	1693.2	1679.0	1667.2	1653.0	1650.6	1643.5	1638.7	1638.7	1636.4	1643.5
12.5°	1695.6	1683.8	1681.4	1655.3	1631.6	1641.1	1622.1	1610.3	1626.9	1631.6	1641.1
15°	1693.2	1705.1	1664.8	1653.0	1636.4	1638.7	1622.1	1610.3	1619.8	1624.6	1631.6
17.5°	1707.4	1700.4	1688.5	1664.8	1657.7	1648.2	1626.9	1617.4	1617.4	1629.3	1631.6
20°	1745.3	1726.4	1702.7	1690.9	1697.9	1686.1	1660.0	1624.6	1634.0	1643.5	1650.6
22.5°	1780.9	1766.6	1750.1	1743.0	1783.2	1764.3	1719.2	1679.0	1664.8	1681.4	1693.2
25°	1849.5	1849.5	1818.8	1828.2	1873.2	1875.6	1823.5	1752.4	1743.0	1750.1	1754.8
27.5°	1989.2	1996.3	1970.3	1979.7	1998.7	2015.3	1970.3	1911.1	1889.8	1887.4	1894.5
30°	2140.8	2155.0	2152.6	2192.9	2247.4	2256.8	2190.5	2093.4	2029.5	2017.6	2027.1
32.5°	2339.8	2346.8	2342.1	2389.5	2536.3	2605.0	2432.1	2294.7	2209.5	2230.8	2209.5
35°	2713.9	2706.8	2654.7	2664.2	2784.9	2834.7	2668.9	2581.2	2541.0	2583.7	2574.2
37.5°	3035.9	3009.9	2967.3	3028.9	3154.4	3199.3	3026.5	2872.6	2799.1	2870.2	2900.9
40°	3308.3	3242.0	3182.8	3244.4	3412.5	3474.1	3220.6	3095.2	3066.8	3118.8	3185.2
42.5°	3538.0	3495.4	3417.2	3421.9	3533.3	3561.7	3358.1	3284.6	3256.2	3339.1	3372.2
45°	3701.4	3661.2	3587.7	3583.0	3668.3	3649.3	3467.0	3417.2	3433.8	3488.3	3504.9
47.5°	3784.3	3805.6	3762.9	3774.8	3819.8	3774.8	3630.4	3630.4	3592.5	3625.6	3609.1
50°	4023.4	3957.1	4011.6	4011.6	4059.0	4063.7	3919.3	3867.2	3765.4	3708.5	3708.5
52.5°	4302.9	4307.7	4329.0	4407.1	4487.6	4556.3	4350.3	4127.7	3957.1	3883.8	3874.3
55°	4532.6	4580.0	4665.3	4812.1	5044.2	5138.8	4783.7	4385.8	4177.4	4063.7	4040.0
56°	4658.1	4613.1	4759.9	4961.2	5264.3	5387.5	4854.7	4437.9	4208.2	4080.3	4077.9
57.5°	4537.3	4587.1	4688.9	5006.3	5378.0	5539.1	4880.8	4414.2	4085.1	3954.8	3966.6
60°	3583.0	3630.4	3767.7	4123.0	4705.5	4831.0	4130.0	3639.9	3346.2	3159.1	3161.4
62.5°	2027.1	2062.7	2169.2	2498.4	2860.7	2981.5	2574.2	2247.4	2043.7	1939.5	1906.4
65°	746.0	731.8	748.3	916.5	1139.1	1240.9	1070.4	904.6	798.0	760.1	746.0
67.5°	279.5	258.2	241.6	258.2	324.4	343.3	315.0	262.9	246.3	253.4	258.2
70°	172.9	163.4	130.2	123.2	120.7	118.4	125.5	132.6	151.6	177.6	182.4
72.5°	120.7	113.7	92.4	87.6	82.9	80.5	92.4	101.9	118.4	137.3	139.7
75°	47.4	49.7	47.4	52.1	54.5	56.8	66.3	73.4	80.5	80.5	78.1
77.5°	9.5	9.5	14.2	18.9	23.6	30.8	45.0	52.1	54.5	52.1	45.0
80°	0.0	0.0	4.7	9.5	18.9	26.1	40.2	45.0	49.7	45.0	35.5
82.5°	0.0	0.0	4.7	11.8	18.9	23.6	37.9	47.4	54.5	49.7	37.9
85°	0.0	0.0	4.7	9.5	14.2	16.6	16.6	11.8	11.8	7.1	4.7
87.5°	0.0	0.0	0.0	0.0	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)