

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: P529499

Luminaire Tested: **GALN-SA4C-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529499
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-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 11528 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

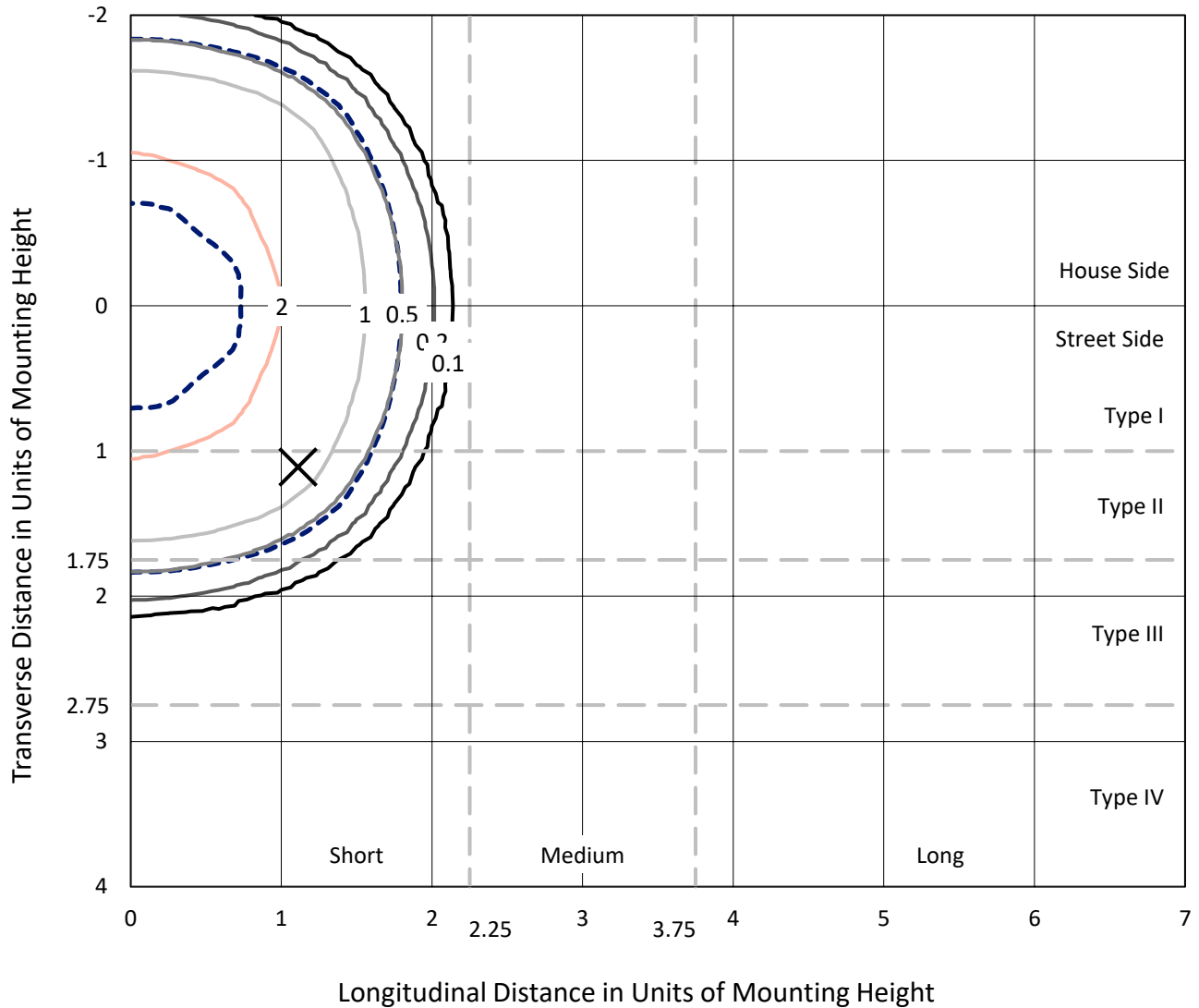
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

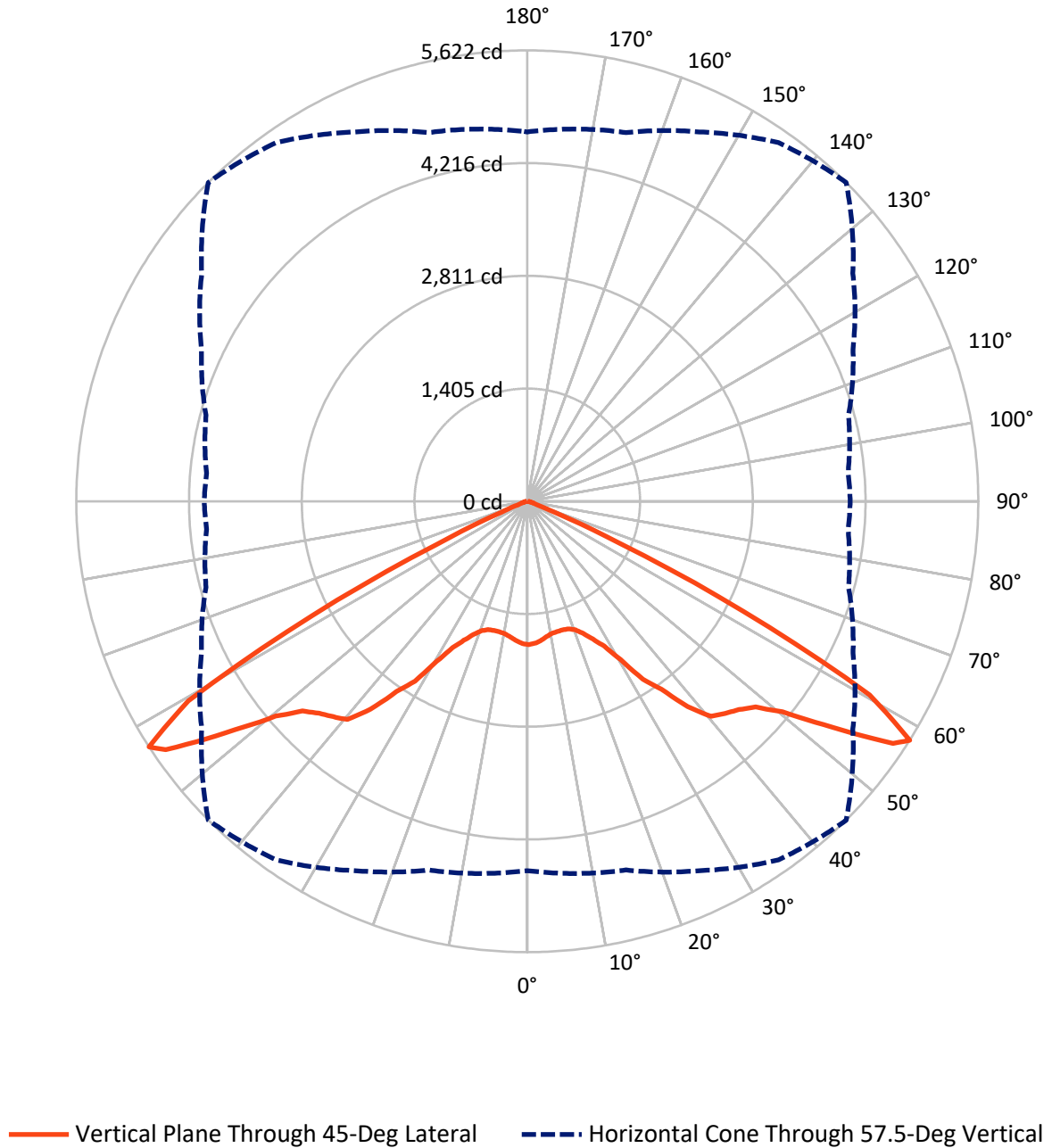
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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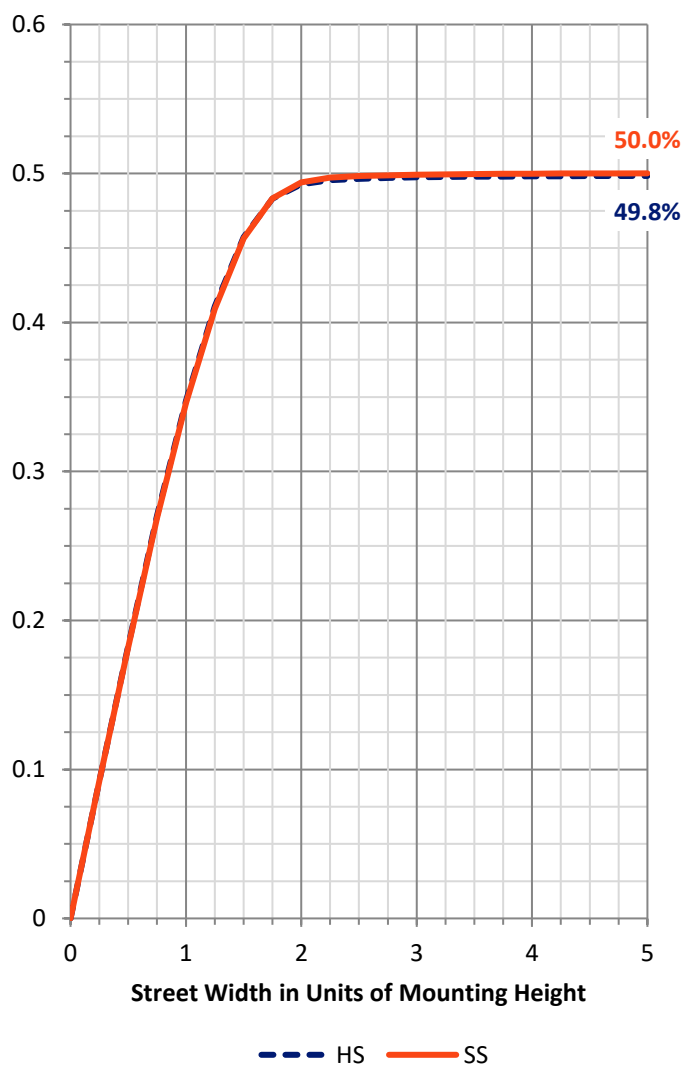
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5764.0	0.0	5764.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5764.0	0.0	5764.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11528.0	0.0	11528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.4
10°-20°	475.0	4.1
20°-30°	876.7	7.6
30°-40°	1724.1	15.0
40°-50°	2808.2	24.4
50°-60°	4004.8	34.7
60°-70°	1386.6	12.0
70°-80°	74.4	0.6
80°-90°	14.0	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°	11528.0	100.0
0°-180°	11528.0	100.0

Coefficient of Utilization

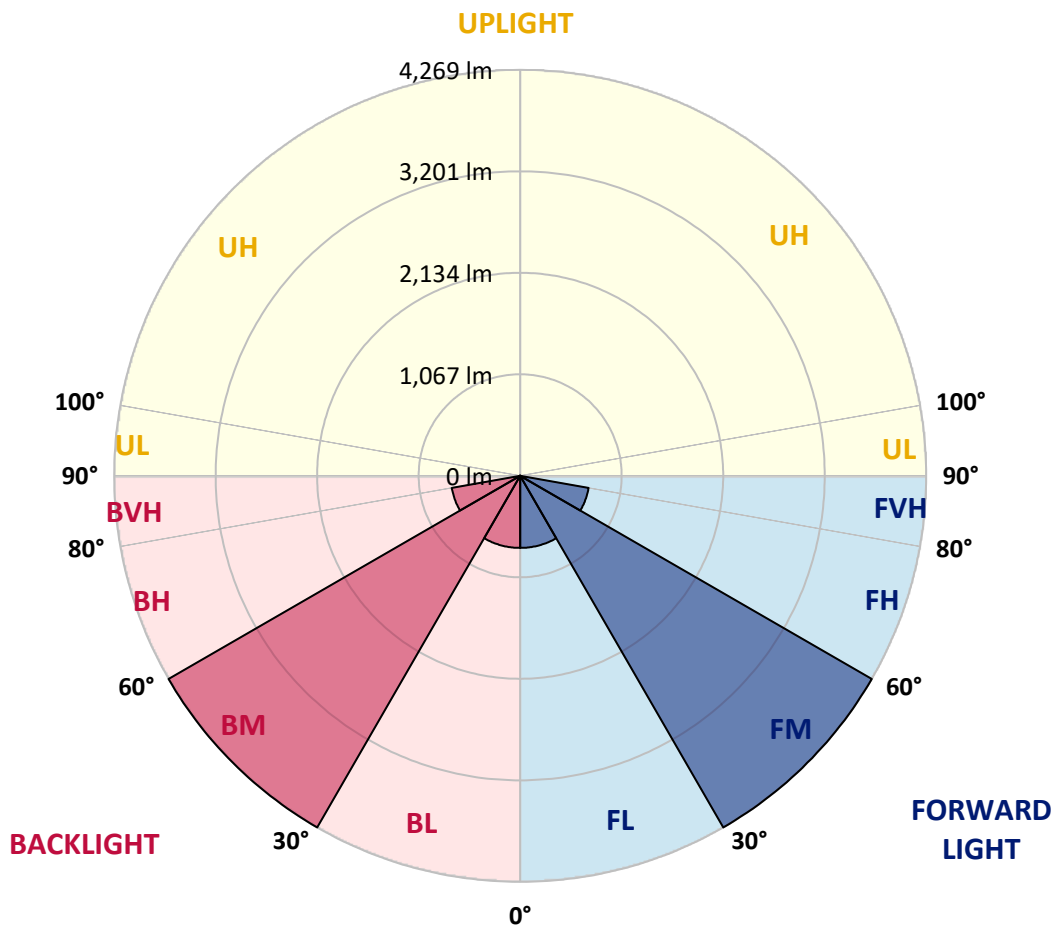


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.0	6.6			
FM (30°-60°)	4268.6	37.0			
FH (60°-80°)	730.5	6.3			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	758.0	6.6	B2/1000		
BM (30°-60°)	4268.6	37.0	B3/5000		
BH (60°-80°)	730.5	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.0	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°	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1
2.5°	1783.3	1792.9	1780.9	1776.1	1773.7	1773.7	1766.5	1766.5	1764.1	1766.5	1756.9
5°	1754.5	1764.1	1764.1	1761.7	1747.3	1744.9	1737.6	1732.8	1735.2	1725.6	1732.8
7.5°	1725.6	1732.8	1723.2	1720.8	1716.0	1706.4	1704.0	1682.4	1684.8	1684.8	1689.6
10°	1720.8	1718.4	1704.0	1692.0	1677.6	1675.2	1667.9	1663.1	1663.1	1660.7	1667.9
12.5°	1720.8	1708.8	1706.4	1680.0	1655.9	1665.5	1646.3	1634.3	1651.1	1655.9	1665.5
15°	1718.4	1730.4	1689.6	1677.6	1660.7	1663.1	1646.3	1634.3	1643.9	1648.7	1655.9
17.5°	1732.8	1725.6	1713.6	1689.6	1682.4	1672.8	1651.1	1641.5	1641.5	1653.5	1655.9
20°	1771.3	1752.1	1728.0	1716.0	1723.2	1711.2	1684.8	1648.7	1658.3	1667.9	1675.2
22.5°	1807.3	1792.9	1776.1	1768.9	1809.7	1790.5	1744.9	1704.0	1689.6	1706.4	1718.4
25°	1877.0	1877.0	1845.8	1855.4	1901.1	1903.5	1850.6	1778.5	1768.9	1776.1	1780.9
27.5°	2018.8	2026.0	1999.6	2009.2	2028.5	2045.3	1999.6	1939.5	1917.9	1915.5	1922.7
30°	2172.7	2187.1	2184.7	2225.5	2280.8	2290.4	2223.1	2124.6	2059.7	2047.7	2057.3
32.5°	2374.5	2381.7	2376.9	2425.0	2574.0	2643.7	2468.3	2328.9	2242.4	2264.0	2242.4
35°	2754.3	2747.1	2694.2	2703.8	2826.4	2876.8	2708.6	2619.7	2578.8	2622.1	2612.5
37.5°	3081.1	3054.7	3011.4	3073.9	3201.3	3247.0	3071.5	2915.3	2840.8	2912.9	2944.1
40°	3357.5	3290.2	3230.1	3292.6	3463.3	3525.8	3268.6	3141.2	3112.4	3165.2	3232.5
42.5°	3590.6	3547.4	3468.1	3472.9	3585.8	3614.7	3408.0	3333.5	3304.6	3388.8	3422.4
45°	3756.5	3715.6	3641.1	3636.3	3722.8	3703.6	3518.5	3468.1	3484.9	3540.2	3557.0
47.5°	3840.6	3862.2	3819.0	3831.0	3876.6	3831.0	3684.4	3684.4	3645.9	3679.6	3662.7
50°	4083.3	4016.0	4071.3	4071.3	4119.4	4124.2	3977.6	3924.7	3821.4	3763.7	3763.7
52.5°	4366.9	4371.7	4393.4	4472.7	4554.4	4624.1	4415.0	4189.1	4016.0	3941.5	3931.9
55°	4600.1	4648.1	4734.7	4883.7	5119.2	5215.3	4854.8	4451.1	4239.6	4124.2	4100.2
56°	4727.4	4681.8	4830.8	5035.1	5342.7	5467.7	4926.9	4503.9	4270.8	4141.0	4138.6
57.5°	4604.9	4655.3	4758.7	5080.7	5458.1	5621.5	4953.4	4479.9	4145.8	4013.6	4025.7
60°	3636.3	3684.4	3823.8	4184.3	4775.5	4902.9	4191.5	3694.0	3396.0	3206.1	3208.5
62.5°	2057.3	2093.3	2201.5	2535.6	2903.3	3025.9	2612.5	2280.8	2074.1	1968.4	1934.7
65°	757.1	742.6	759.5	930.1	1156.0	1259.4	1086.3	918.1	809.9	771.5	757.1
67.5°	283.6	262.0	245.1	262.0	329.3	348.5	319.6	266.8	250.0	257.2	262.0
70°	175.4	165.8	132.2	125.0	122.6	120.2	127.4	134.6	153.8	180.3	185.1
72.5°	122.6	115.4	93.7	88.9	84.1	81.7	93.7	103.3	120.2	139.4	141.8
75°	48.1	50.5	48.1	52.9	55.3	57.7	67.3	74.5	81.7	81.7	79.3
77.5°	9.6	9.6	14.4	19.2	24.0	31.2	45.7	52.9	55.3	52.9	45.7
80°	0.0	0.0	4.8	9.6	19.2	26.4	40.9	45.7	50.5	45.7	36.1
82.5°	0.0	0.0	4.8	12.0	19.2	24.0	38.5	48.1	55.3	50.5	38.5
85°	0.0	0.0	4.8	9.6	14.4	16.8	16.8	12.0	12.0	7.2	4.8
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)