

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: P529707

Luminaire Tested: **GALN-SA4D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529707
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-SA4D-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA 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: 11735 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

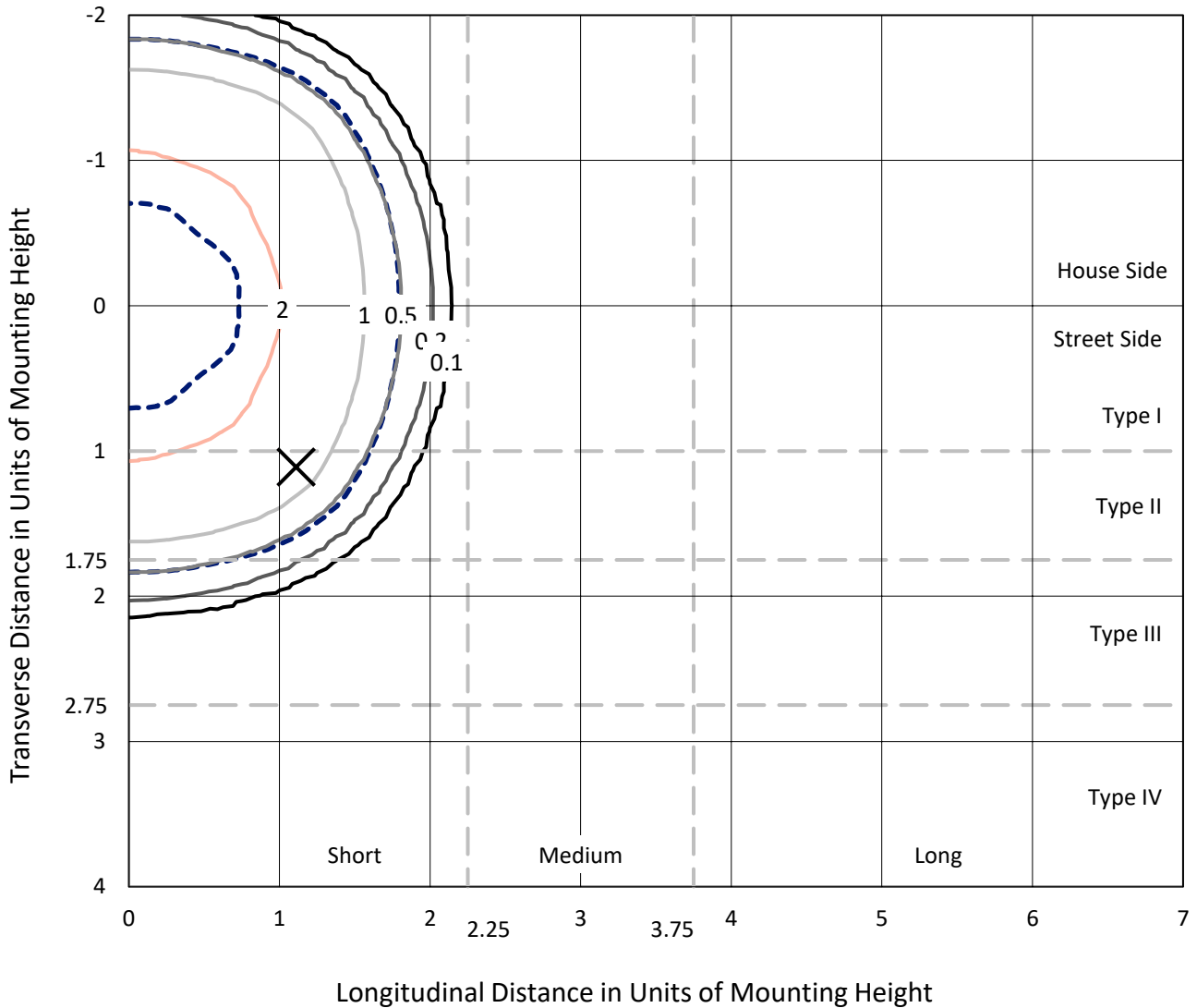
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

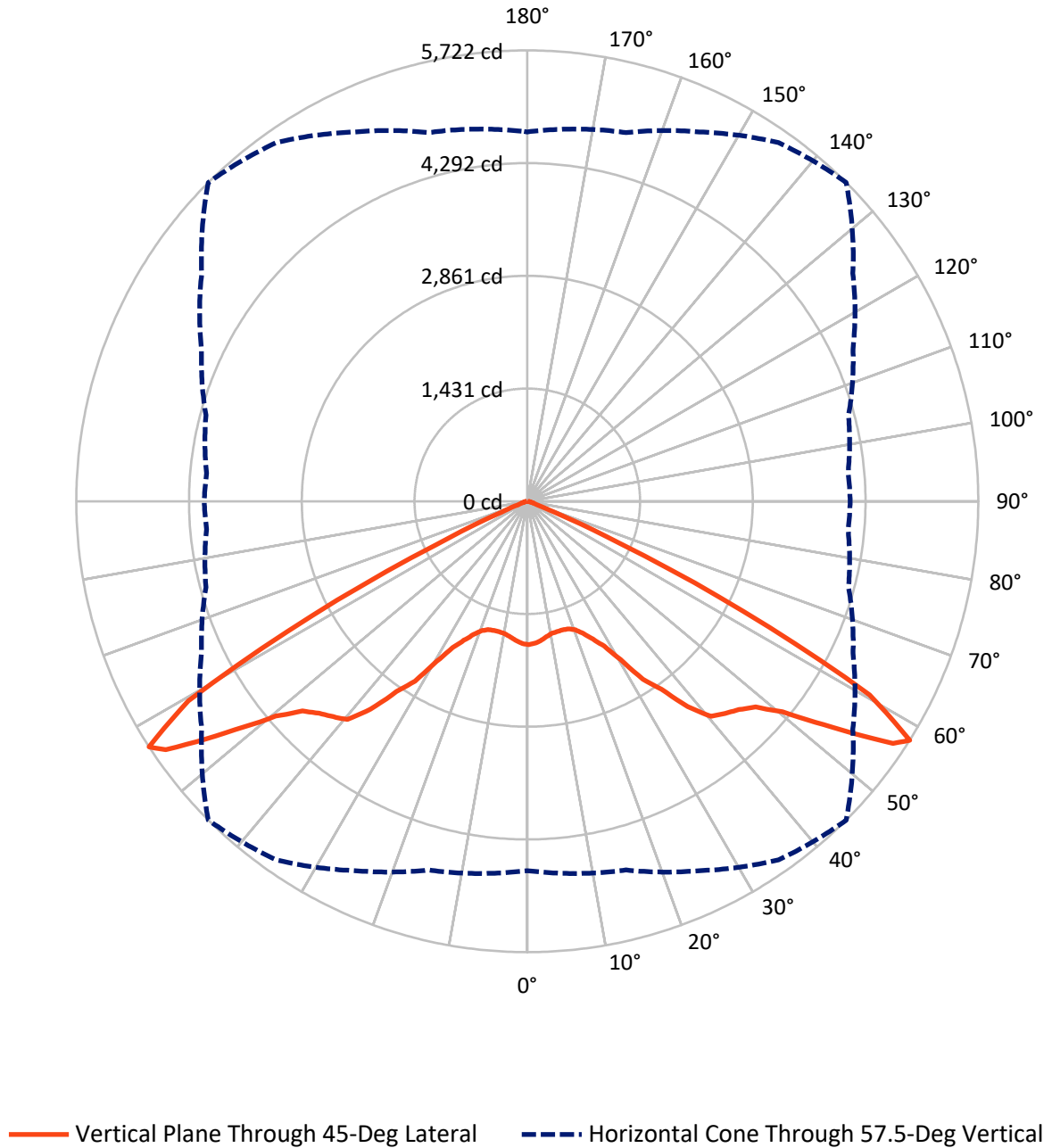
✕ Max cd
 - - - 1/2 Max cd



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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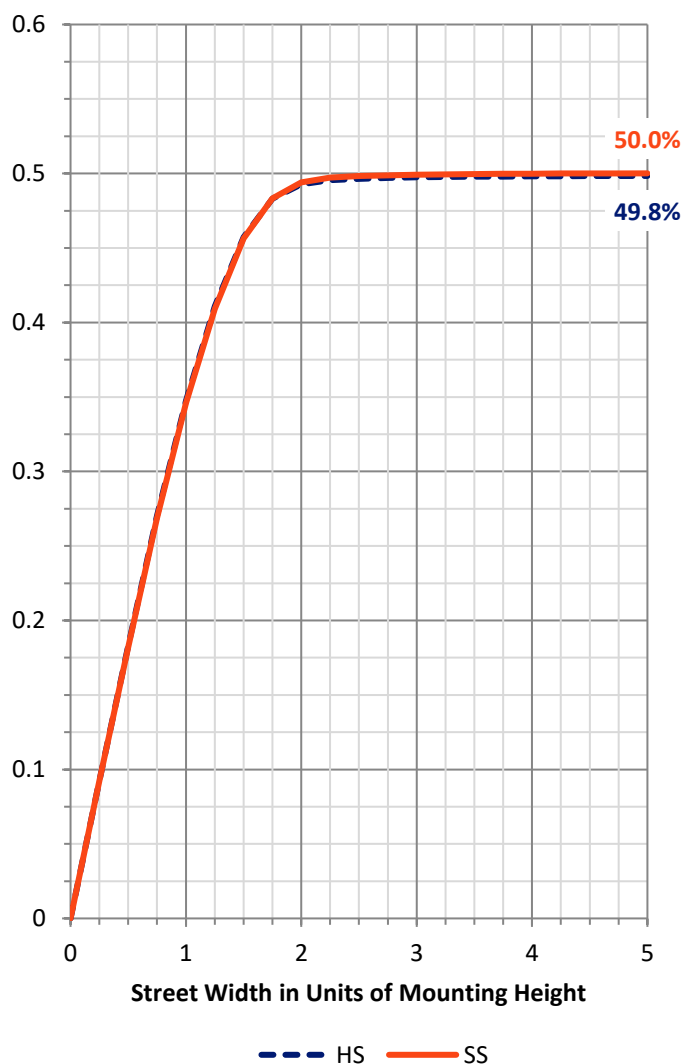
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5867.5	0.0	5867.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5867.5	0.0	5867.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11735.0	0.0	11735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	1.4
10°-20°	483.5	4.1
20°-30°	892.4	7.6
30°-40°	1755.1	15.0
40°-50°	2858.6	24.4
50°-60°	4076.7	34.7
60°-70°	1411.5	12.0
70°-80°	75.7	0.6
80°-90°	14.2	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°	11735.0	100.0
0°-180°	11735.0	100.0

Coefficient of Utilization

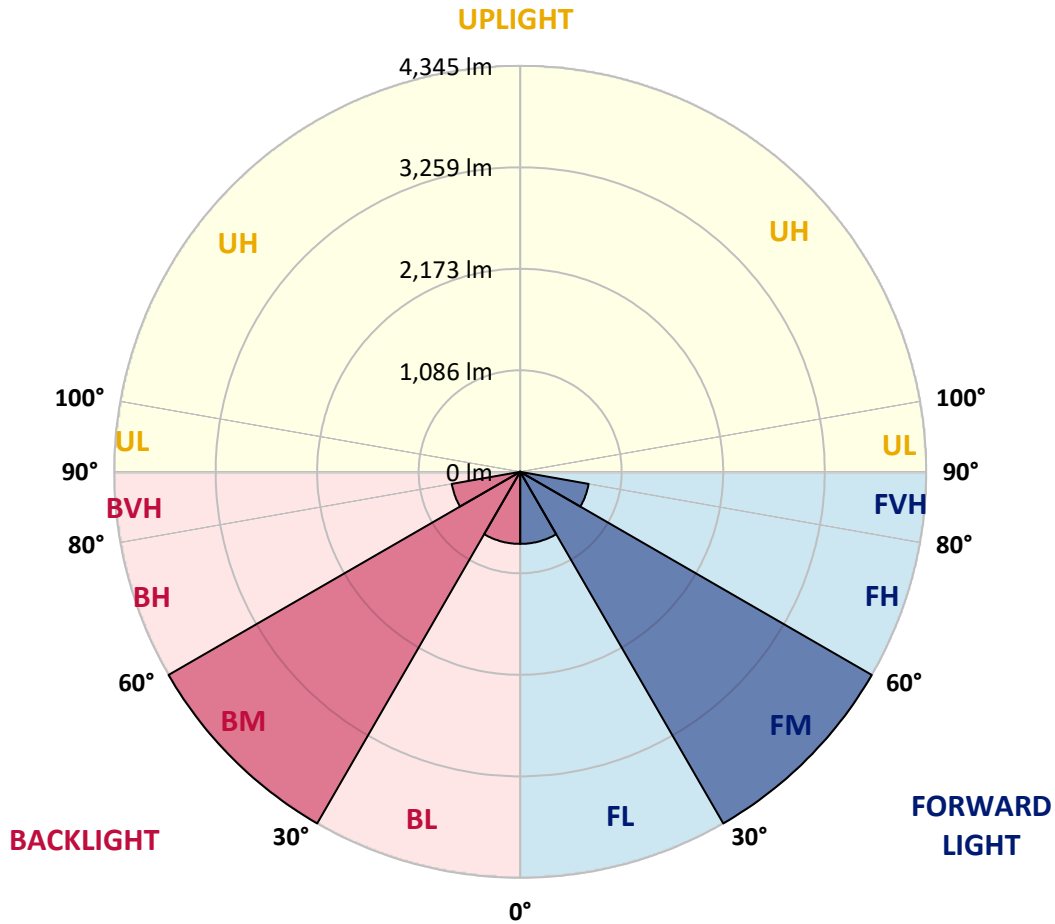


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.6	6.6			
FM (30°-60°)	4345.2	37.0			
FH (60°-80°)	743.6	6.3			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	771.6	6.6	B2/1000		
BM (30°-60°)	4345.2	37.0	B3/5000		
BH (60°-80°)	743.6	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.1	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°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1815.3	1825.1	1812.9	1808.0	1805.5	1805.5	1798.2	1798.2	1795.8	1798.2	1788.4
5°	1786.0	1795.8	1795.8	1793.3	1778.6	1776.2	1768.8	1764.0	1766.4	1756.6	1764.0
7.5°	1756.6	1764.0	1754.2	1751.7	1746.8	1737.0	1734.6	1712.6	1715.0	1715.0	1719.9
10°	1751.7	1749.3	1734.6	1722.4	1707.7	1705.2	1697.9	1693.0	1693.0	1690.6	1697.9
12.5°	1751.7	1739.5	1737.0	1710.1	1685.7	1695.4	1675.9	1663.6	1680.8	1685.7	1695.4
15°	1749.3	1761.5	1719.9	1707.7	1690.6	1693.0	1675.9	1663.6	1673.4	1678.3	1685.7
17.5°	1764.0	1756.6	1744.4	1719.9	1712.6	1702.8	1680.8	1671.0	1671.0	1683.2	1685.7
20°	1803.1	1783.5	1759.1	1746.8	1754.2	1741.9	1715.0	1678.3	1688.1	1697.9	1705.2
22.5°	1839.8	1825.1	1808.0	1800.6	1842.2	1822.7	1776.2	1734.6	1719.9	1737.0	1749.3
25°	1910.7	1910.7	1878.9	1888.7	1935.2	1937.7	1883.8	1810.4	1800.6	1808.0	1812.9
27.5°	2055.1	2062.4	2035.5	2045.3	2064.9	2082.0	2035.5	1974.4	1952.3	1949.9	1957.2
30°	2211.7	2226.3	2223.9	2265.5	2321.8	2331.5	2263.0	2162.7	2096.7	2084.4	2094.2
32.5°	2417.2	2424.5	2419.6	2468.6	2620.2	2691.2	2512.6	2370.7	2282.6	2304.6	2282.6
35°	2803.7	2796.4	2742.6	2752.4	2877.1	2928.5	2757.2	2666.7	2625.1	2669.2	2659.4
37.5°	3136.5	3109.5	3065.5	3129.1	3258.8	3305.3	3126.7	2967.6	2891.8	2965.2	2997.0
40°	3417.8	3349.3	3288.1	3351.8	3525.5	3589.1	3327.3	3197.6	3168.3	3222.1	3290.6
42.5°	3655.1	3611.1	3530.3	3535.2	3650.2	3679.6	3469.2	3393.3	3364.0	3449.6	3483.9
45°	3823.9	3782.3	3706.5	3701.6	3789.7	3770.1	3581.7	3530.3	3547.5	3603.7	3620.9
47.5°	3909.6	3931.6	3887.5	3899.8	3946.3	3899.8	3750.5	3750.5	3711.4	3745.6	3728.5
50°	4156.7	4088.2	4144.4	4144.4	4193.4	4198.3	4049.0	3995.2	3890.0	3831.3	3831.3
52.5°	4445.4	4450.2	4472.3	4553.0	4636.2	4707.1	4494.3	4264.3	4088.2	4012.3	4002.5
55°	4682.7	4731.6	4819.7	4971.4	5211.1	5309.0	4942.0	4531.0	4315.7	4198.3	4173.8
56°	4812.3	4765.8	4917.5	5125.5	5438.6	5565.9	5015.4	4584.8	4347.5	4215.4	4212.9
57.5°	4687.6	4738.9	4844.1	5172.0	5556.1	5722.4	5042.3	4560.3	4220.3	4085.7	4097.9
60°	3701.6	3750.5	3892.4	4259.4	4861.3	4990.9	4266.8	3760.3	3457.0	3263.7	3266.1
62.5°	2094.2	2130.9	2241.0	2581.1	2955.4	3080.2	2659.4	2321.8	2111.4	2003.7	1969.5
65°	770.7	756.0	773.1	946.8	1176.8	1282.0	1105.8	934.6	824.5	785.3	770.7
67.5°	288.7	266.7	249.5	266.7	335.2	354.7	325.4	271.6	254.4	261.8	266.7
70°	178.6	168.8	134.6	127.2	124.8	122.3	129.7	137.0	156.6	183.5	188.4
72.5°	124.8	117.4	95.4	90.5	85.6	83.2	95.4	105.2	122.3	141.9	144.3
75°	48.9	51.4	48.9	53.8	56.3	58.7	68.5	75.8	83.2	83.2	80.7
77.5°	9.8	9.8	14.7	19.6	24.5	31.8	46.5	53.8	56.3	53.8	46.5
80°	0.0	0.0	4.9	9.8	19.6	26.9	41.6	46.5	51.4	46.5	36.7
82.5°	0.0	0.0	4.9	12.2	19.6	24.5	39.1	48.9	56.3	51.4	39.1
85°	0.0	0.0	4.9	9.8	14.7	17.1	17.1	12.2	12.2	7.3	4.9
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)