

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: P527755

Luminaire Tested: **GALN-SA2D-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10687 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

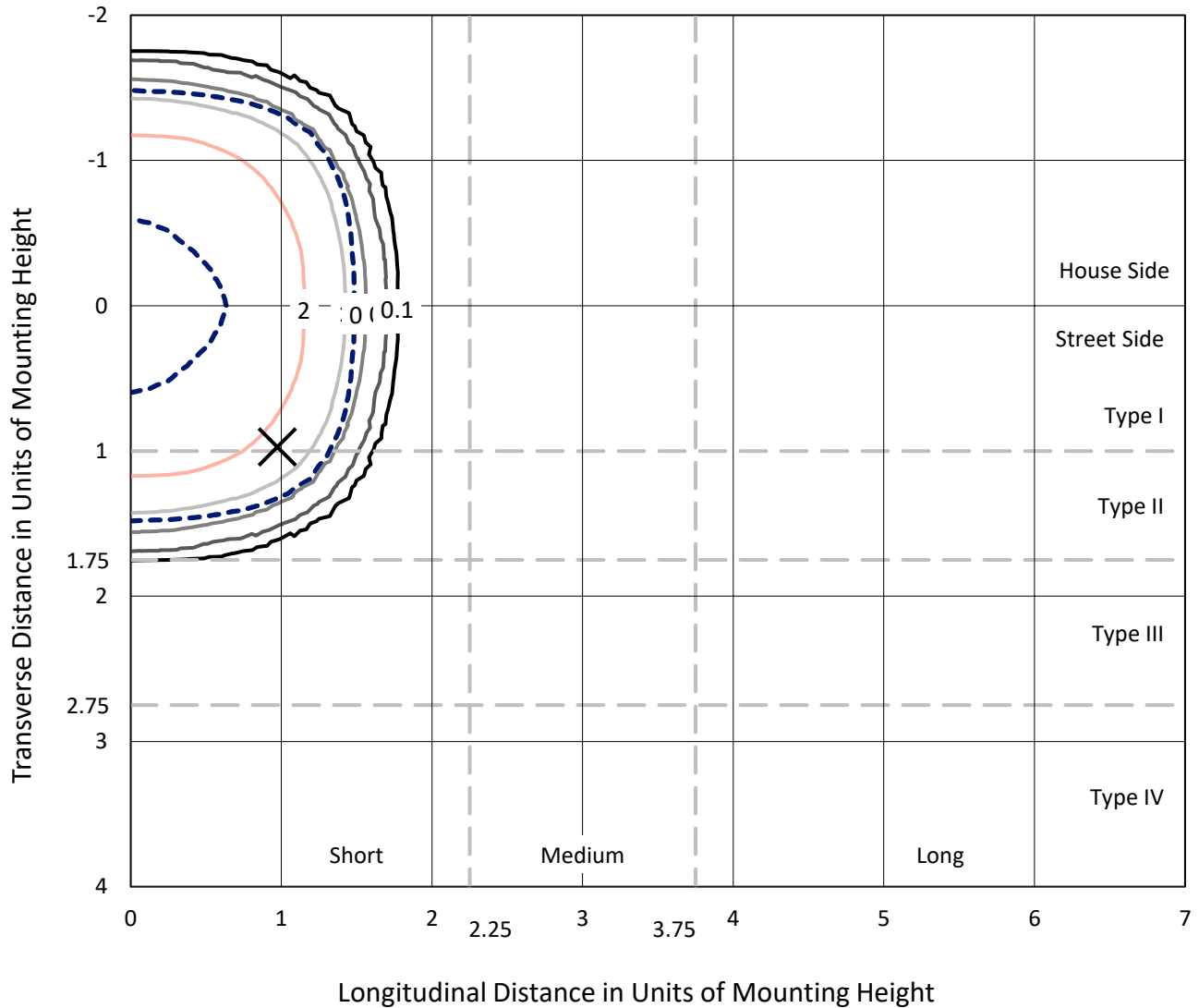
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

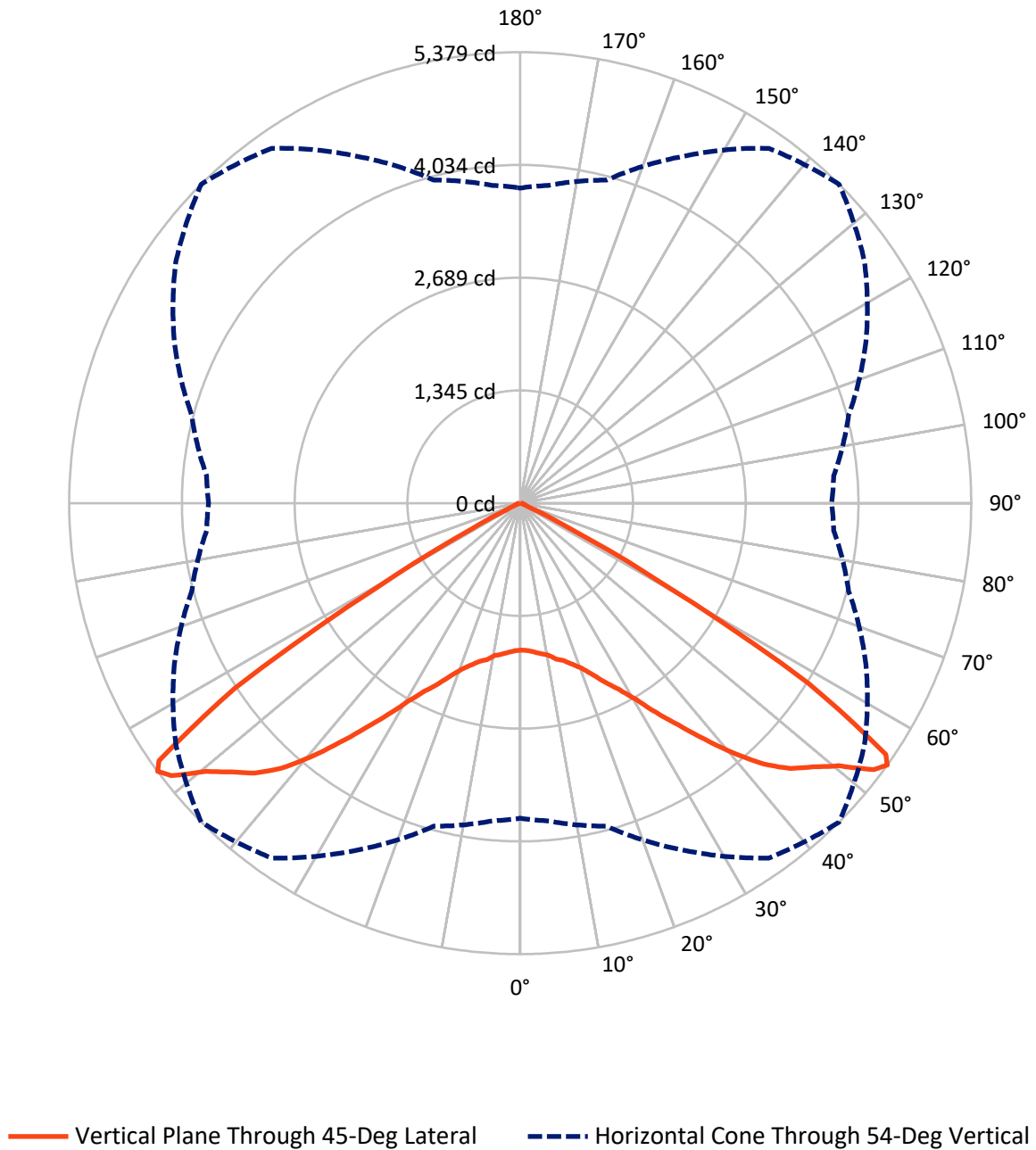
× Max cd
 - - - 1/2 Max cd



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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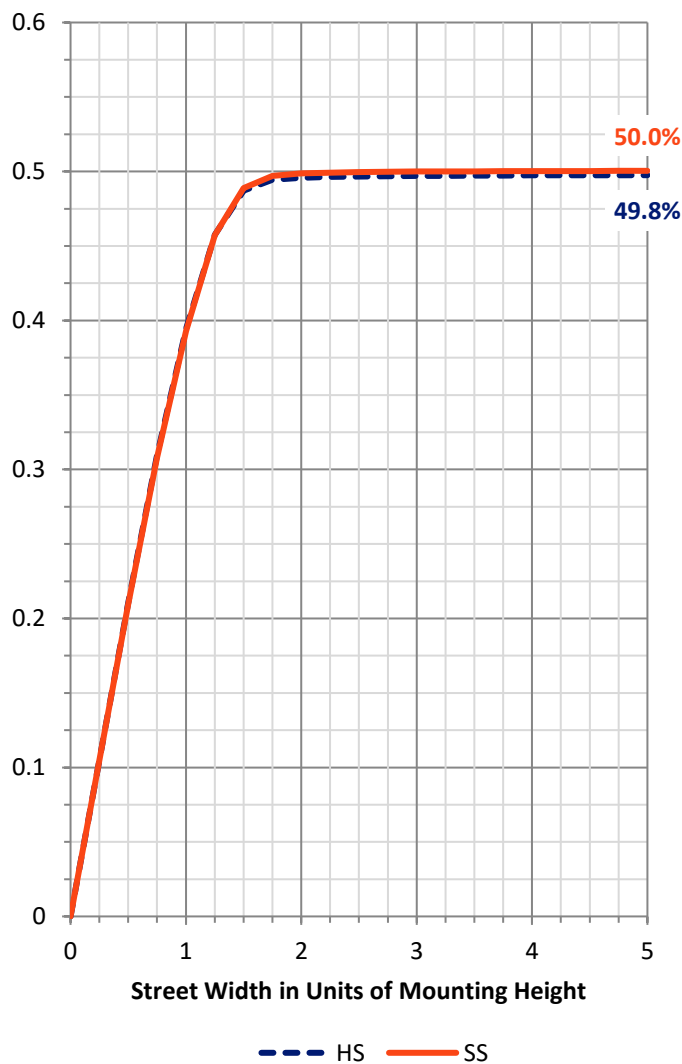
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5343.5	0.0	5343.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5343.5	0.0	5343.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10687.0	0.0	10687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	1.6
10°-20°	555.4	5.2
20°-30°	1088.6	10.2
30°-40°	1957.5	18.3
40°-50°	3350.9	31.4
50°-60°	3242.3	30.3
60°-70°	277.6	2.6
70°-80°	32.9	0.3
80°-90°	10.3	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°	10687.0	100.0
0°-180°	10687.0	100.0

Coefficient of Utilization

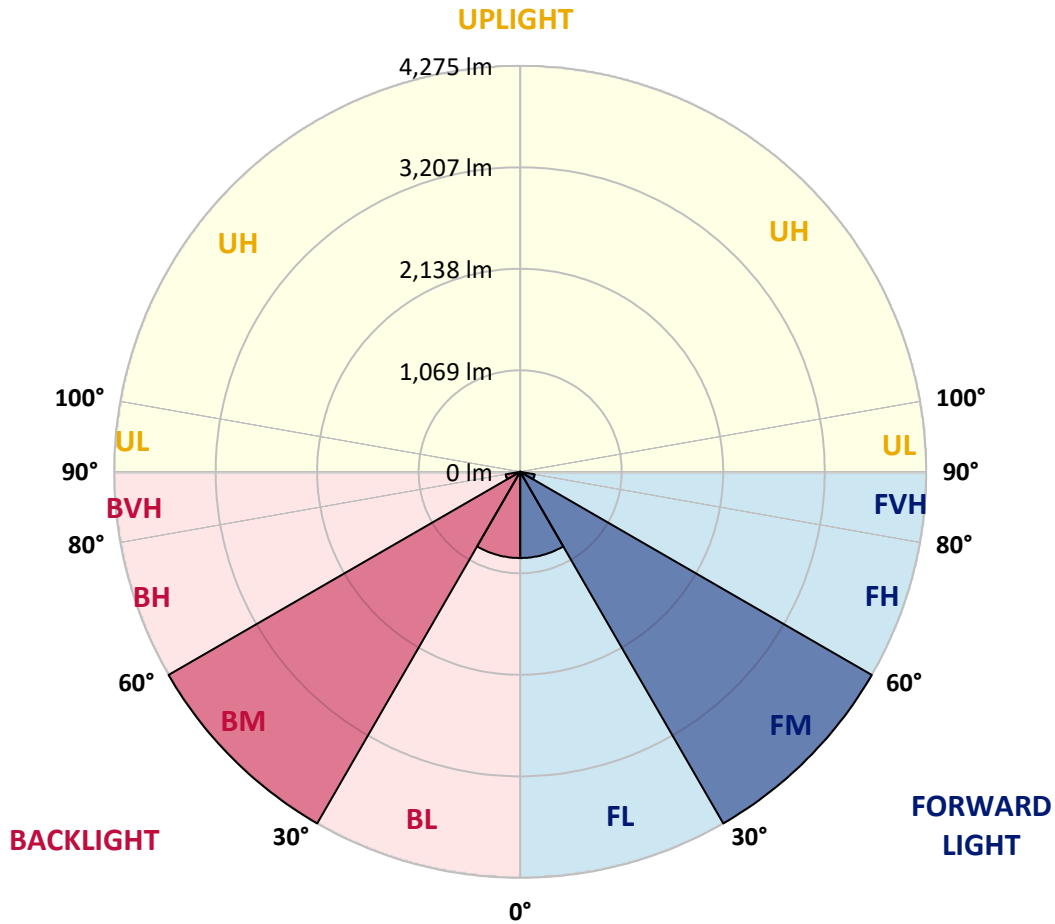


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.8	8.5			
FM (30°-60°)	4275.4	40.0			
FH (60°-80°)	155.2	1.5			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	907.8	8.5	B2/1000		
BM (30°-60°)	4275.4	40.0	B3/5000		
BH (60°-80°)	155.2	1.5	B1/500		G0/660
BVH (80°-90°)	5.2	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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1760.8	1771.0	1764.2	1769.3	1769.3	1760.8	1765.9	1745.6	1759.1	1748.9	1750.6
5°	1787.9	1786.2	1786.2	1787.9	1781.1	1784.5	1777.7	1771.0	1765.9	1759.1	1779.4
7.5°	1821.8	1821.8	1809.9	1813.3	1809.9	1815.0	1801.4	1787.9	1782.8	1777.7	1774.3
10°	1853.9	1850.5	1845.5	1860.7	1848.8	1842.1	1835.3	1826.8	1808.2	1801.4	1794.7
12.5°	1901.3	1899.6	1892.9	1908.1	1901.3	1908.1	1882.7	1860.7	1857.3	1835.3	1847.1
15°	1957.2	1972.4	1960.6	1960.6	1957.2	1948.7	1938.6	1928.4	1897.9	1889.5	1891.2
17.5°	2030.0	2024.9	2026.6	2026.6	2043.5	2021.5	2001.2	1975.8	1960.6	1955.5	1938.6
20°	2099.4	2106.2	2104.5	2116.3	2126.5	2102.8	2080.8	2077.4	2035.1	2041.9	2018.1
22.5°	2221.3	2216.2	2224.7	2233.2	2226.4	2223.0	2202.7	2177.3	2140.0	2123.1	2119.7
25°	2350.0	2341.5	2326.3	2346.6	2356.8	2372.0	2333.1	2319.5	2262.0	2236.6	2238.2
27.5°	2460.0	2471.9	2488.8	2497.3	2522.7	2517.6	2490.5	2446.5	2402.5	2373.7	2355.1
30°	2610.7	2617.5	2646.3	2658.1	2702.2	2714.0	2671.7	2620.9	2543.0	2505.8	2483.7
32.5°	2749.6	2797.0	2795.3	2854.5	2925.6	2974.7	2898.5	2820.7	2742.8	2698.8	2659.8
35°	2974.7	2966.3	3015.4	3078.0	3193.1	3249.0	3166.1	3076.3	2957.8	2886.7	2856.2
37.5°	3184.7	3188.1	3254.1	3354.0	3486.0	3572.4	3499.6	3352.3	3230.4	3139.0	3096.6
40°	3489.4	3496.2	3563.9	3677.4	3826.4	3919.5	3834.8	3685.8	3523.3	3452.2	3452.2
42.5°	3846.7	3875.5	3919.5	4017.7	4151.4	4254.7	4178.5	4061.7	3897.5	3806.0	3819.6
45°	4214.1	4227.6	4256.4	4402.0	4464.6	4515.4	4444.3	4390.1	4280.1	4168.4	4149.7
47.5°	4557.8	4562.8	4647.5	4693.2	4742.3	4700.0	4745.7	4674.6	4551.0	4442.6	4420.6
50°	4710.1	4701.7	4821.9	4960.7	4998.0	4923.5	4884.5	4837.1	4649.2	4518.8	4461.3
52.5°	4266.6	4315.7	4539.1	4925.2	5216.4	5279.0	5052.1	4833.7	4483.3	4229.3	4190.4
54°	3758.6	3804.3	3988.9	4561.2	5167.3	5378.9	5013.2	4549.3	4054.9	3753.6	3714.6
55°	3255.8	3205.0	3540.2	4124.3	4937.0	5290.9	4859.1	4181.9	3616.4	3340.4	3286.3
57.5°	1762.5	1771.0	2053.7	2605.6	3469.1	4056.6	3582.6	2829.1	2136.7	1826.8	1799.7
60°	558.7	572.3	695.9	1053.1	1657.5	1979.2	1696.5	1136.1	785.6	629.8	604.4
62.5°	174.4	181.2	198.1	294.6	453.7	648.4	507.9	304.8	226.9	208.2	211.6
65°	106.7	106.7	108.4	115.1	135.4	157.5	152.4	133.8	128.7	125.3	123.6
67.5°	69.4	67.7	71.1	76.2	79.6	81.3	86.3	91.4	89.7	86.3	86.3
70°	42.3	40.6	44.0	50.8	52.5	55.9	61.0	67.7	66.0	62.6	64.3
72.5°	23.7	23.7	25.4	30.5	35.6	38.9	44.0	49.1	50.8	49.1	49.1
75°	8.5	10.2	13.5	18.6	22.0	27.1	32.2	37.2	42.3	38.9	37.2
77.5°	3.4	3.4	6.8	11.9	16.9	22.0	30.5	35.6	38.9	35.6	32.2
80°	1.7	1.7	5.1	10.2	15.2	20.3	25.4	30.5	32.2	28.8	25.4
82.5°	1.7	1.7	5.1	10.2	15.2	18.6	27.1	30.5	33.9	30.5	25.4
85°	0.0	1.7	5.1	10.2	13.5	15.2	15.2	10.2	8.5	5.1	5.1
87.5°	0.0	0.0	1.7	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)