

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: P651218

Luminaire Tested: **GALN-SA2D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13653.7 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

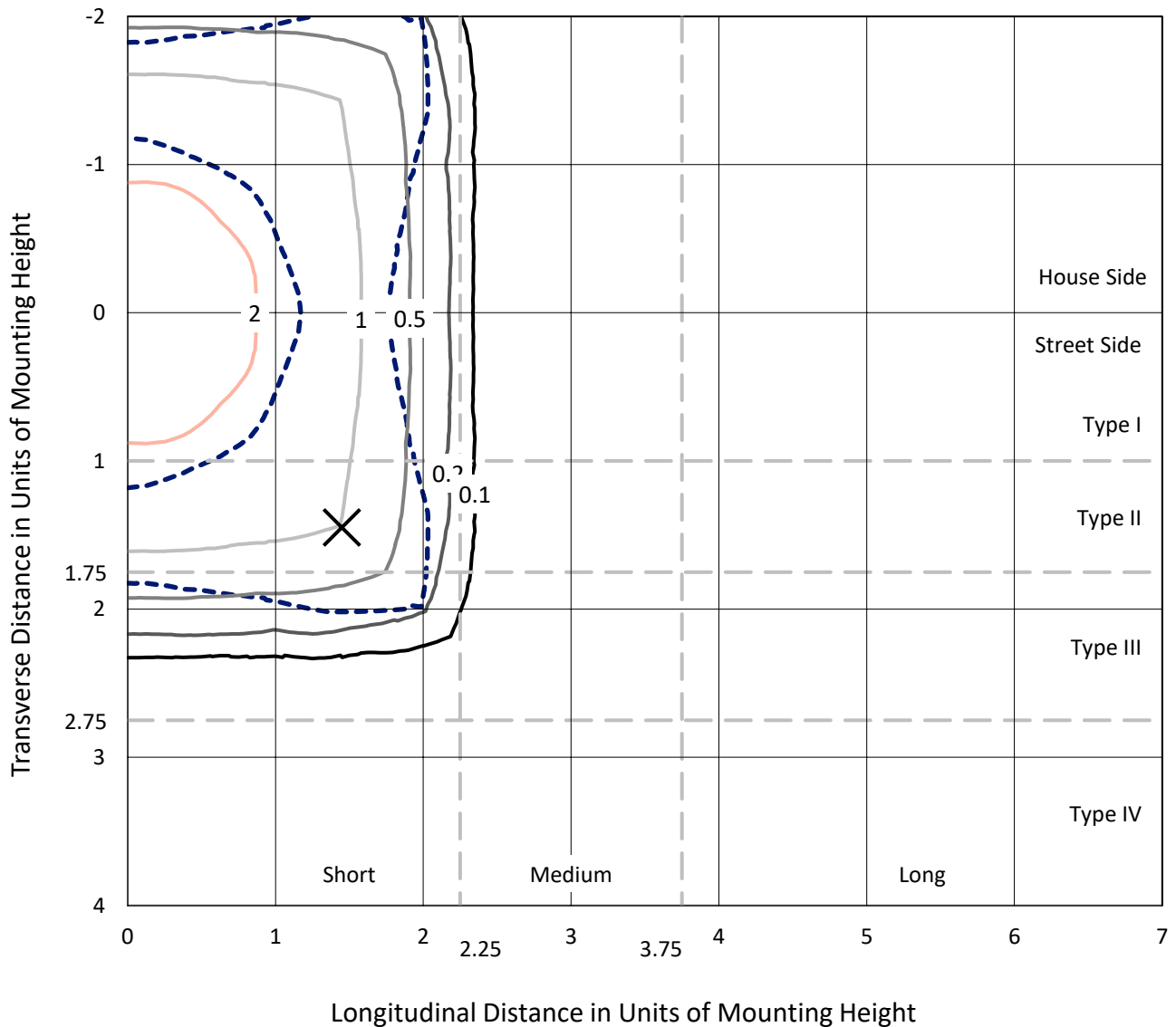
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

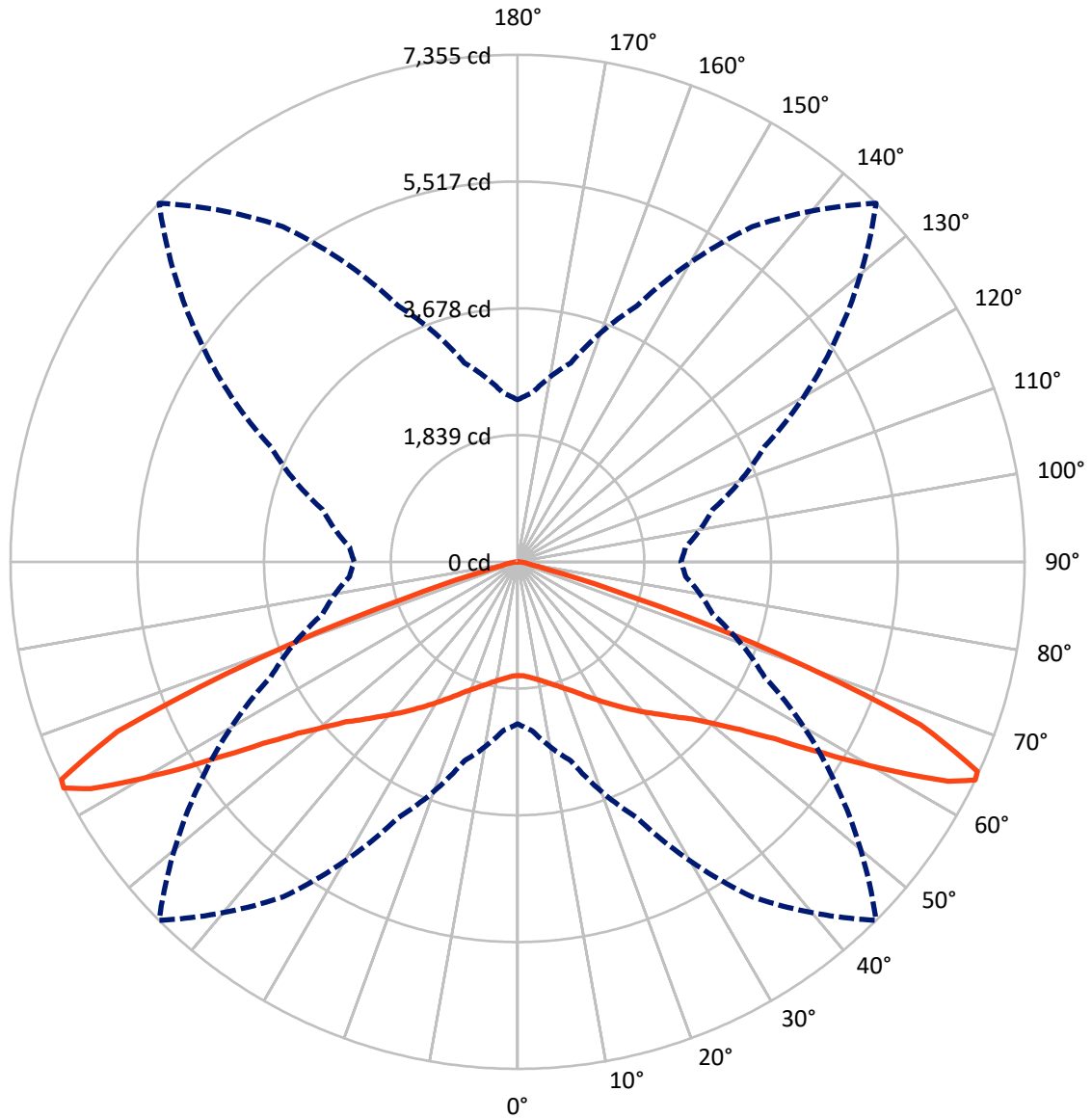
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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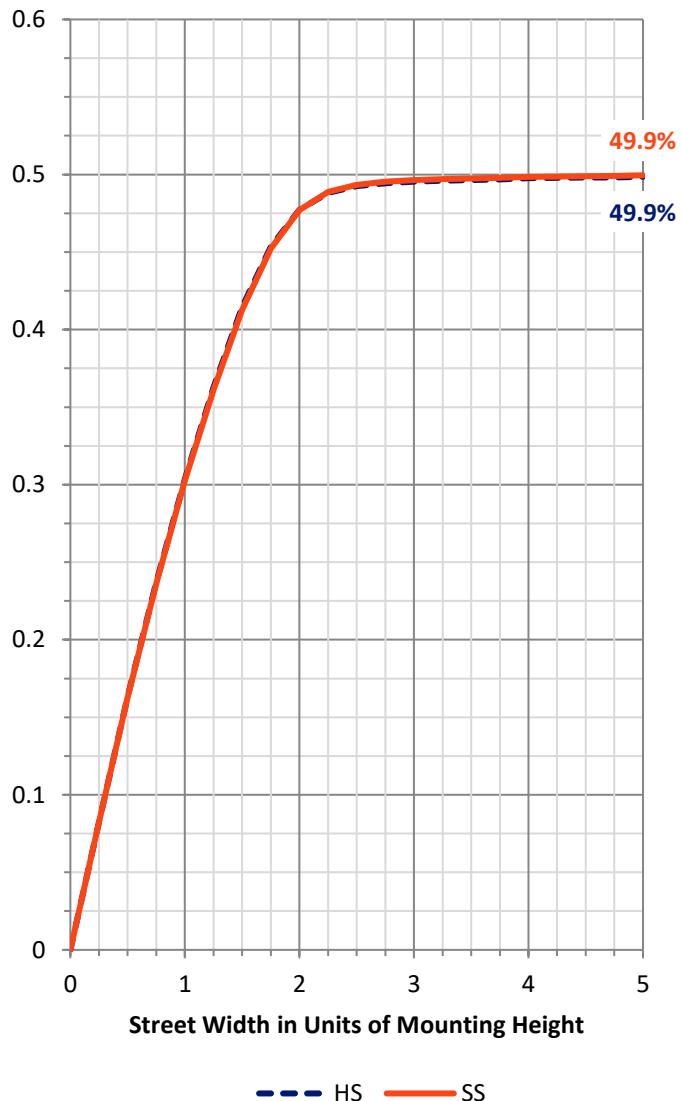
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6826.8	0.0	6826.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6826.8	0.0	6826.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	13653.7	0.0	13653.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.2
10°-20°	523.0	3.8
20°-30°	988.3	7.2
30°-40°	1636.7	12.0
40°-50°	2555.1	18.7
50°-60°	3950.1	28.9
60°-70°	3406.2	24.9
70°-80°	386.0	2.8
80°-90°	46.2	0.3
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°	13653.7	100.0
0°-180°	13653.7	100.0

Coefficient of Utilization



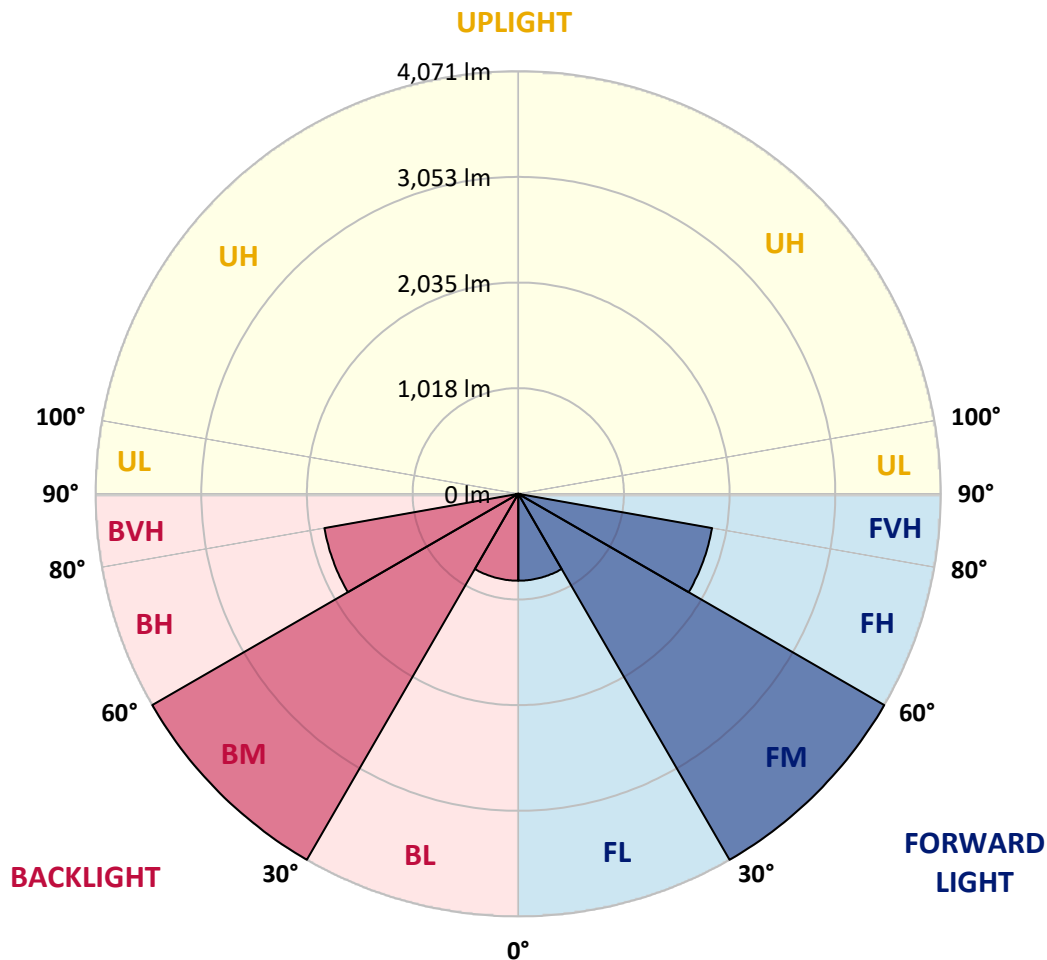
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.7	6.1			
FM (30°-60°)	4070.9	29.8			
FH (60°-80°)	1896.1	13.9			G2/5000
FVH (80°-90°)	23.1	0.2			G1/100
BL (0°-30°)	836.7	6.1	B2/1000		
BM (30°-60°)	4070.9	29.8	B3/5000		
BH (60°-80°)	1896.1	13.9	B3/2500		G2/5000
BVH (80°-90°)	23.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3
2.5°	1656.8	1660.4	1657.5	1656.8	1656.1	1656.1	1656.1	1656.8	1659.7	1661.8	1660.4
5°	1677.7	1680.7	1679.2	1678.5	1677.7	1678.5	1677.0	1676.3	1678.5	1678.5	1677.7
7.5°	1703.8	1707.4	1706.0	1707.4	1708.2	1708.8	1705.2	1702.4	1701.6	1703.8	1702.4
10°	1739.2	1742.1	1742.8	1743.6	1745.0	1744.3	1739.9	1734.9	1734.1	1733.5	1732.7
12.5°	1779.0	1781.2	1781.9	1784.8	1787.0	1787.7	1782.6	1778.3	1771.1	1772.5	1769.6
15°	1823.8	1828.2	1827.4	1831.8	1837.6	1839.0	1834.0	1826.7	1820.2	1816.6	1814.5
17.5°	1878.8	1881.7	1880.2	1884.6	1891.8	1895.4	1891.1	1881.7	1875.2	1867.2	1862.9
20°	1943.9	1948.9	1950.4	1950.4	1956.9	1960.5	1954.0	1951.1	1940.9	1935.2	1931.6
22.5°	2017.6	2019.8	2024.1	2028.5	2035.0	2033.5	2031.4	2027.1	2017.6	2012.6	2006.8
25°	2100.8	2103.0	2113.9	2123.2	2125.4	2123.9	2121.1	2118.9	2110.2	2098.6	2094.3
27.5°	2197.7	2202.1	2216.5	2225.2	2225.2	2225.9	2220.2	2227.4	2208.6	2194.8	2193.4
30°	2319.2	2322.1	2334.4	2343.0	2338.7	2335.1	2333.7	2340.9	2320.7	2296.1	2290.3
32.5°	2439.2	2449.4	2460.3	2479.0	2463.9	2457.3	2455.9	2460.9	2437.8	2410.3	2402.4
35°	2568.0	2575.2	2595.5	2611.4	2597.6	2582.5	2588.9	2604.8	2577.4	2540.5	2539.1
37.5°	2710.5	2716.9	2743.0	2759.6	2749.5	2723.5	2734.3	2753.1	2725.6	2680.1	2670.7
40°	2858.7	2872.4	2905.0	2922.3	2905.7	2871.0	2891.2	2911.5	2886.9	2834.1	2813.1
42.5°	3025.0	3046.7	3093.7	3102.4	3070.6	3023.6	3059.0	3091.5	3074.2	3013.5	3005.5
45°	3219.5	3232.6	3290.4	3309.3	3265.1	3206.6	3250.6	3309.9	3296.9	3226.7	3211.6
47.5°	3437.3	3449.5	3509.6	3537.8	3482.1	3403.3	3482.7	3560.1	3552.2	3477.0	3469.8
50°	3694.7	3697.5	3780.7	3812.5	3756.8	3688.9	3759.8	3855.9	3824.1	3727.9	3726.5
52.5°	3976.7	3980.3	4085.2	4146.6	4115.5	4038.9	4122.8	4181.4	4100.4	3974.6	3965.1
55°	4221.1	4239.2	4382.4	4545.9	4588.5	4532.8	4558.1	4530.6	4331.1	4154.6	4127.1
57.5°	4321.0	4356.4	4574.0	4879.2	5156.9	5239.3	5044.1	4782.3	4422.9	4173.4	4146.6
60°	4077.3	4115.5	4453.3	5032.5	5741.3	6099.2	5550.3	4825.0	4213.9	3863.1	3821.3
62.5°	3265.1	3275.9	3772.8	4671.7	6081.9	7009.0	5763.6	4461.3	3605.7	3129.2	3112.5
64°	2349.6	2460.9	2987.4	4096.0	5932.9	7355.4	5640.8	3951.4	2928.9	2446.5	2368.3
65°	1757.3	1787.7	2408.1	3498.0	5670.4	7329.3	5402.1	3464.0	2425.5	1872.3	1785.5
67.5°	663.9	667.5	888.8	1743.6	4036.7	6306.1	4122.8	1884.6	1021.8	739.1	712.3
70°	275.5	280.6	326.1	586.5	1734.9	4049.0	1988.0	679.8	373.9	303.0	298.6
72.5°	201.8	204.6	218.4	260.4	533.7	1662.6	653.7	288.5	219.1	196.0	193.9
75°	158.4	159.8	170.0	191.7	248.8	460.7	271.9	198.1	167.0	150.5	148.9
77.5°	120.8	124.4	131.6	146.1	167.0	218.4	180.1	148.3	128.8	115.0	112.8
80°	83.2	87.5	101.3	107.1	112.1	141.7	123.0	112.1	100.5	83.8	78.8
82.5°	51.4	54.2	68.0	73.0	70.9	79.6	78.8	80.2	71.6	52.1	48.4
85°	26.7	28.2	36.9	38.3	35.4	32.5	40.5	47.0	44.2	29.7	28.9
87.5°	5.8	6.5	8.0	7.2	8.0	8.0	10.1	15.2	15.9	10.1	9.4
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)