

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: P652207

Luminaire Tested: **GALN-SA2B-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8668.2 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

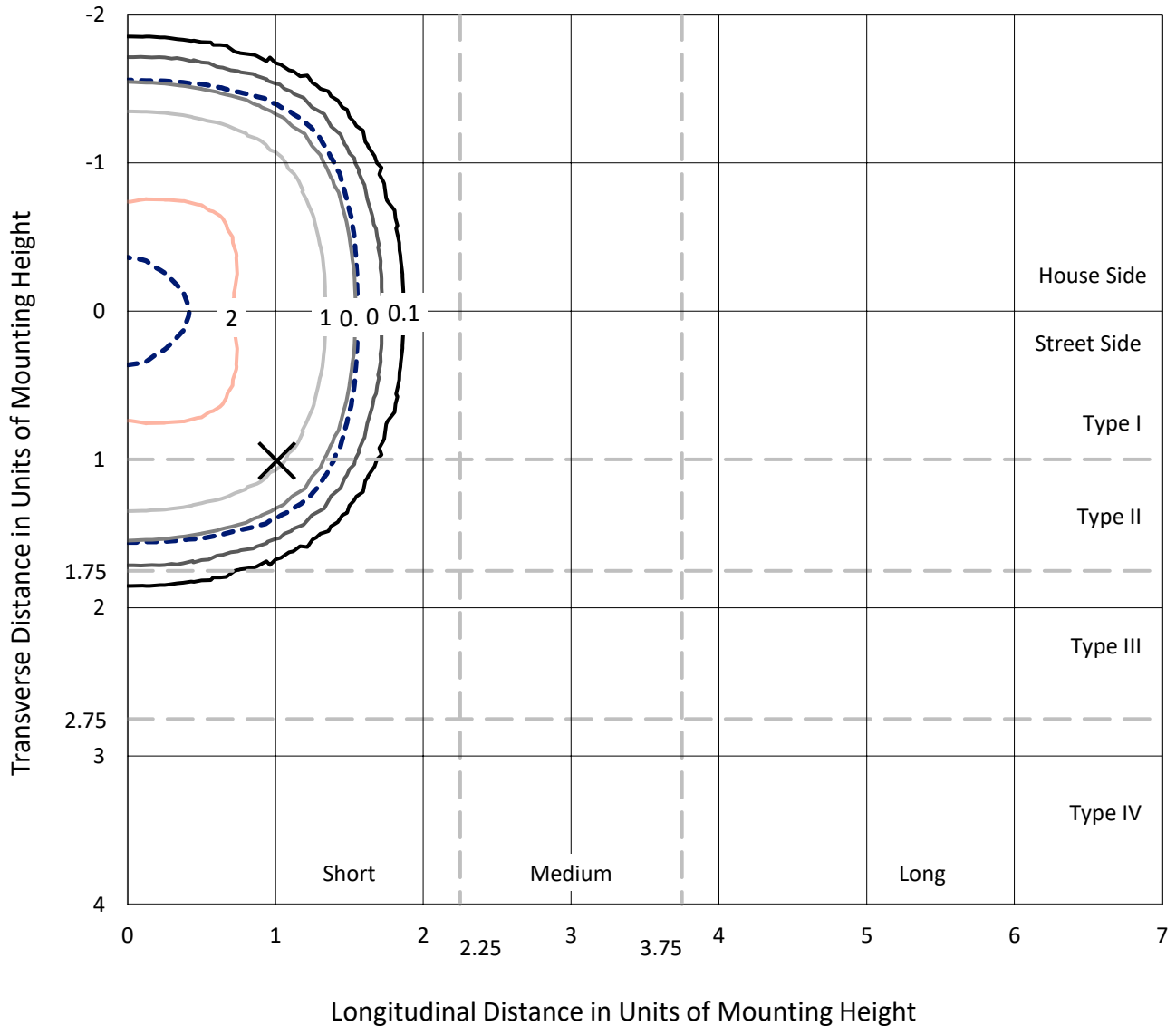
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

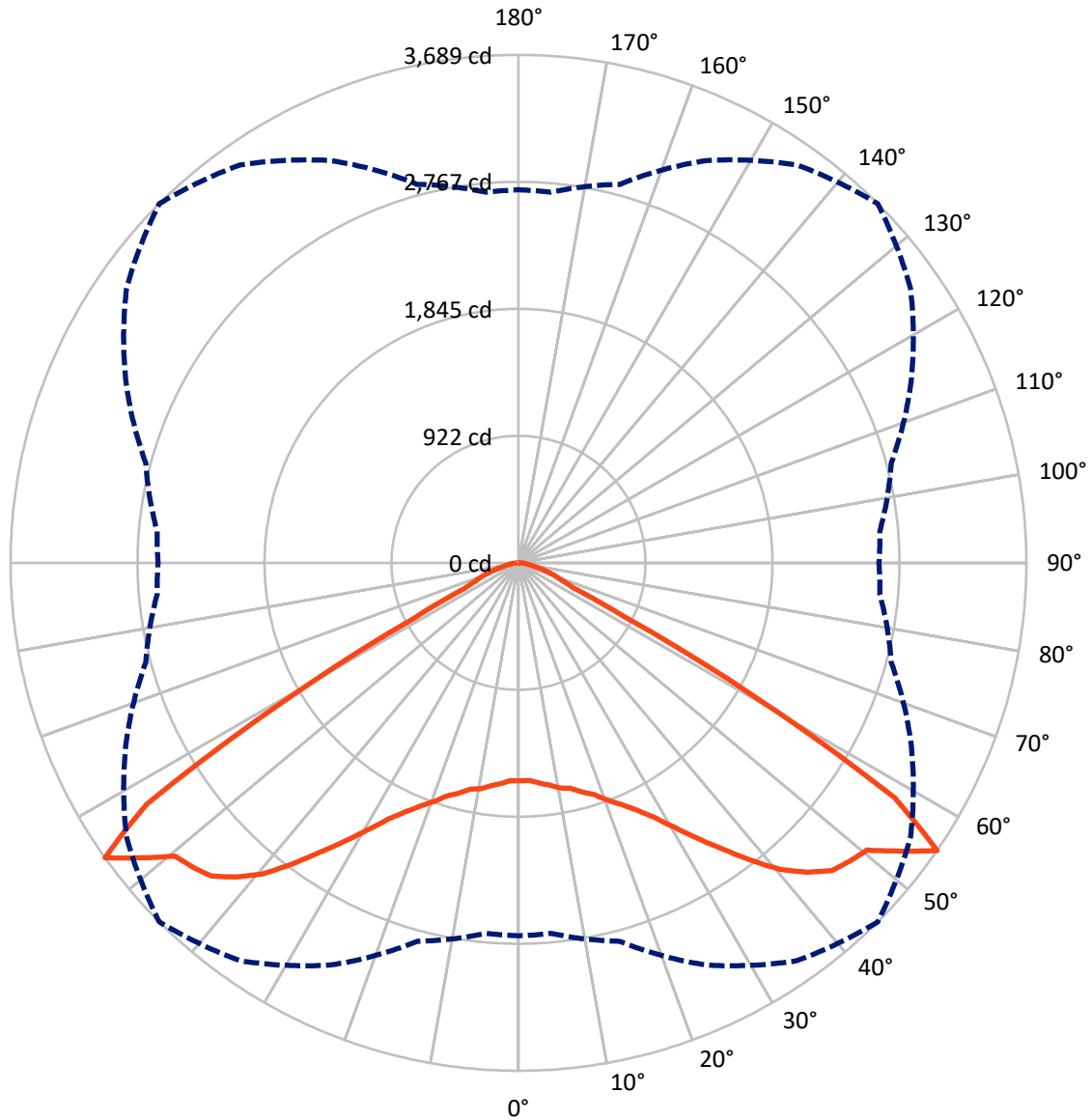
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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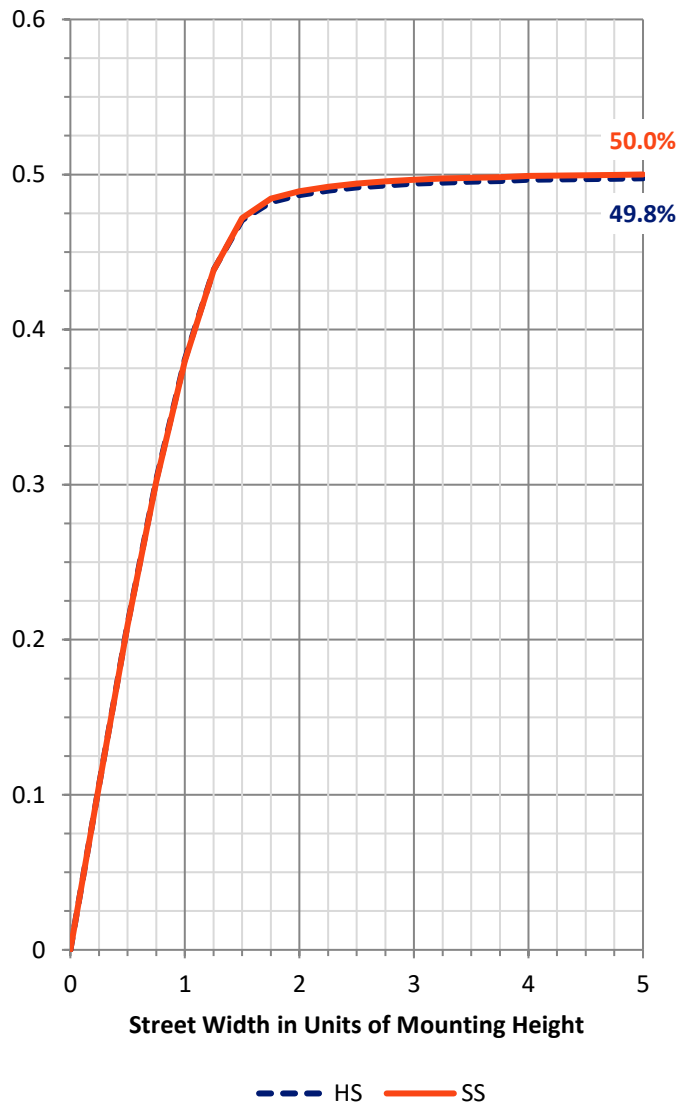
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4334.1	0.0	4334.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4334.1	0.0	4334.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8668.2	0.0	8668.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.8
10°-20°	489.9	5.7
20°-30°	913.5	10.5
30°-40°	1529.5	17.6
40°-50°	2380.0	27.5
50°-60°	2471.2	28.5
60°-70°	524.1	6.0
70°-80°	172.6	2.0
80°-90°	32.9	0.4
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°	8668.2	100.0
0°-180°	8668.2	100.0

Coefficient of Utilization



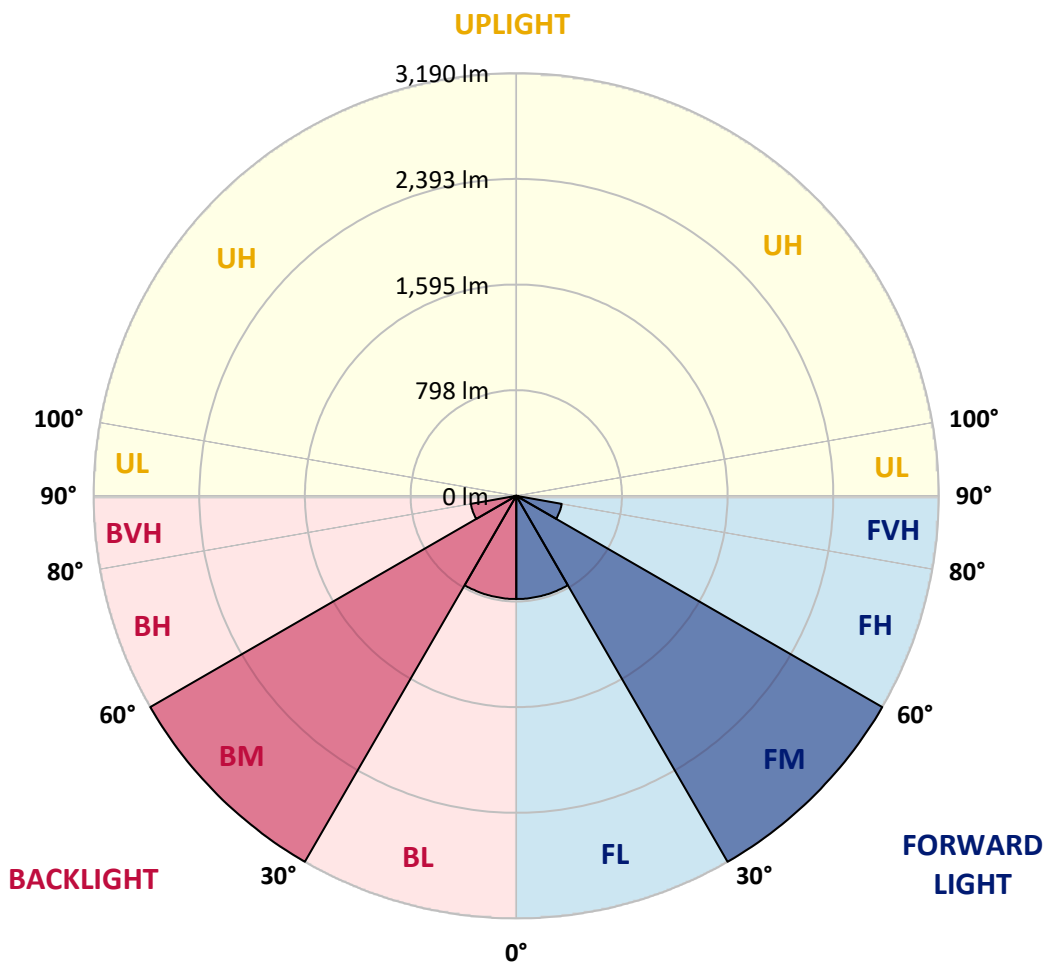
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.0	9.0			
FM (30°-60°)	3190.3	36.8			
FH (60°-80°)	348.3	4.0			G0/660
FVH (80°-90°)	16.4	0.2			G1/100
BL (0°-30°)	779.0	9.0	B2/1000		
BM (30°-60°)	3190.3	36.8	B3/5000		
BH (60°-80°)	348.3	4.0	B1/500		G0/660
BVH (80°-90°)	16.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
2.5°	1601.5	1594.2	1581.7	1591.1	1598.4	1582.7	1589.0	1592.1	1590.0	1581.7	1584.8
5°	1624.6	1620.4	1609.9	1617.2	1607.8	1607.8	1601.5	1593.2	1605.7	1603.6	1608.8
7.5°	1624.6	1619.3	1640.3	1626.7	1630.9	1630.9	1620.4	1612.0	1618.3	1608.8	1603.6
10°	1657.0	1664.4	1654.9	1658.1	1656.0	1663.3	1647.6	1642.4	1637.2	1634.0	1627.8
12.5°	1695.8	1690.6	1693.7	1691.6	1699.0	1680.1	1670.6	1659.1	1668.5	1654.9	1664.4
15°	1727.2	1724.0	1727.2	1735.6	1728.3	1727.2	1710.5	1699.0	1684.3	1687.5	1672.7
17.5°	1770.1	1767.0	1768.1	1775.4	1774.3	1769.1	1756.6	1734.6	1729.3	1720.9	1711.5
20°	1834.1	1828.8	1826.7	1829.8	1835.1	1839.3	1814.2	1805.8	1788.0	1774.3	1758.6
22.5°	1888.5	1886.4	1894.9	1881.2	1892.8	1905.3	1881.2	1877.0	1833.0	1825.7	1808.9
25°	1964.0	1960.8	1955.6	1975.5	1989.0	1988.0	1965.0	1942.0	1908.4	1900.1	1900.1
27.5°	2043.5	2025.7	2053.0	2058.2	2082.3	2089.6	2069.7	2036.2	2004.8	1987.0	1991.2
30°	2143.0	2126.3	2132.6	2170.3	2201.7	2229.0	2178.7	2129.4	2085.4	2054.1	2048.8
32.5°	2242.6	2225.8	2244.6	2281.3	2344.2	2385.0	2335.8	2249.9	2198.5	2152.5	2161.9
35°	2323.3	2335.8	2366.2	2421.7	2486.6	2552.6	2474.1	2408.0	2334.8	2283.4	2290.7
37.5°	2453.1	2491.9	2515.9	2579.9	2672.0	2740.1	2658.4	2572.5	2494.0	2427.0	2403.9
40°	2622.8	2649.0	2676.2	2751.6	2860.6	2928.6	2851.2	2739.1	2661.5	2592.4	2589.3
42.5°	2809.2	2834.3	2862.7	2954.9	3019.8	3071.1	2999.8	2940.1	2854.3	2799.8	2796.7
45°	3026.1	3008.3	3039.7	3100.4	3154.9	3188.4	3142.3	3113.0	3051.2	3000.9	2995.6
47.5°	3170.6	3154.9	3211.4	3265.9	3274.3	3237.6	3247.1	3274.3	3209.3	3126.6	3152.8
50°	3254.4	3254.4	3292.1	3342.4	3326.7	3279.6	3353.9	3356.0	3291.1	3217.8	3217.8
52.5°	3108.8	3141.3	3248.1	3412.5	3464.9	3478.5	3461.8	3390.6	3220.9	3071.1	3063.8
55°	2708.7	2701.4	2845.9	3223.0	3527.7	3689.0	3475.4	3147.5	2803.0	2634.3	2617.5
57.5°	1761.8	1770.1	1985.9	2370.4	2920.3	3220.9	2860.6	2399.7	1985.9	1753.4	1775.4
60°	792.9	821.2	952.1	1239.1	1711.5	1956.6	1715.7	1302.0	999.3	867.2	878.8
62.5°	455.7	460.9	466.1	553.0	729.0	862.0	757.3	584.5	515.4	492.3	492.3
65°	384.4	381.3	382.3	389.6	408.5	435.7	424.2	408.5	410.6	408.5	405.4
67.5°	326.8	331.0	327.8	333.1	334.1	338.3	345.7	352.0	353.0	355.1	353.0
70°	268.1	269.2	271.3	275.5	276.5	279.6	290.1	295.4	298.6	298.6	302.7
72.5°	205.3	204.3	206.4	210.5	215.8	216.8	226.2	233.5	237.8	232.5	233.5
75°	135.1	136.2	139.3	142.5	149.8	157.1	160.3	167.6	168.6	170.7	165.5
77.5°	80.7	82.8	85.9	92.2	98.5	104.7	112.1	117.3	119.4	117.3	111.0
80°	52.4	52.4	56.6	61.8	69.1	74.3	78.5	82.8	85.9	82.8	80.7
82.5°	32.5	32.5	37.7	44.0	49.2	52.4	58.6	63.9	67.0	64.9	61.8
85°	16.7	17.8	22.0	27.2	31.5	33.6	32.5	29.4	26.2	25.1	23.0
87.5°	5.2	5.2	6.3	6.3	5.2	5.2	6.3	5.2	6.3	6.3	6.3
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)