

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: P651821

Luminaire Tested: **GALN-SA4A-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651821
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-SA4A-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 10452 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

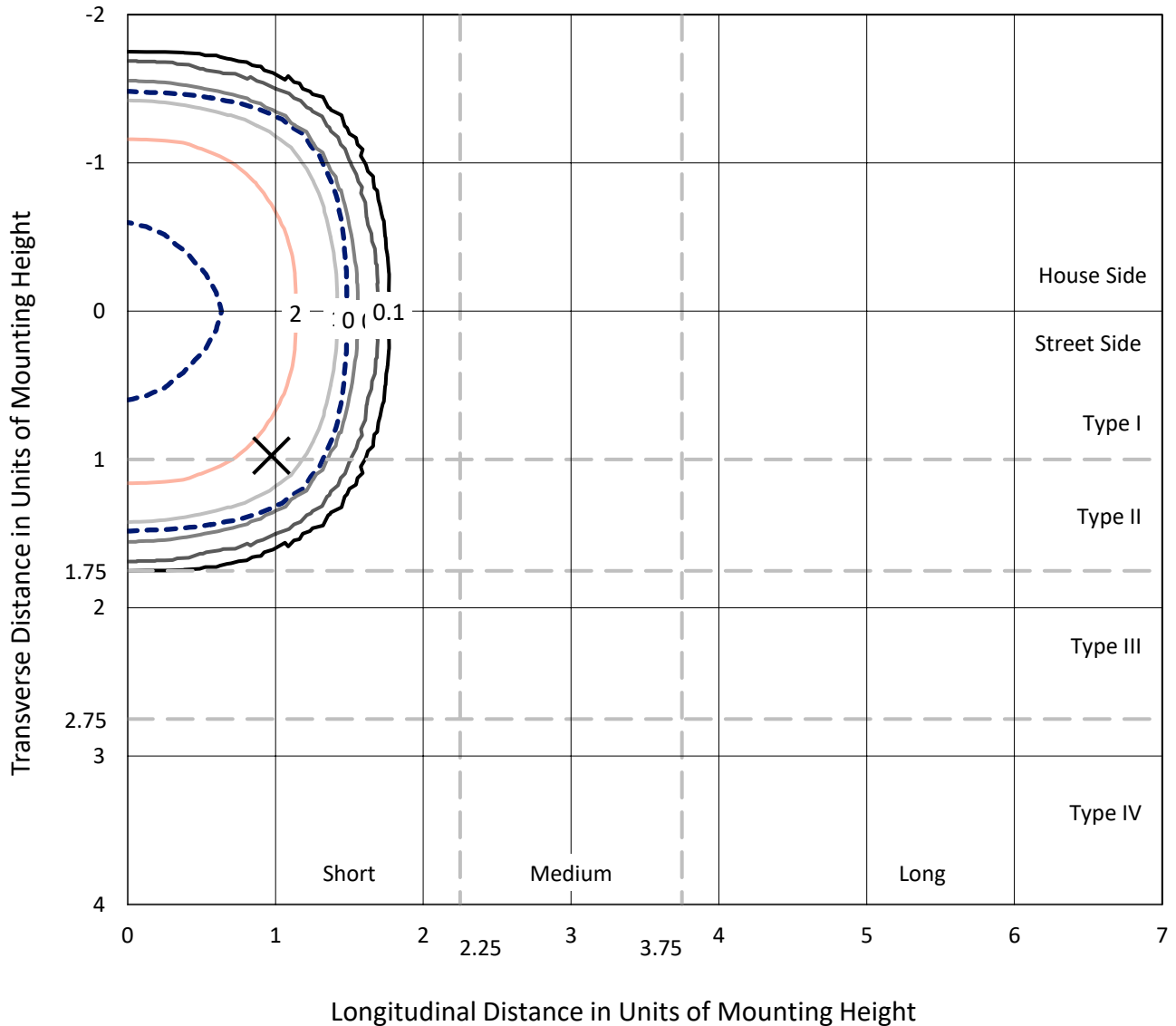
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

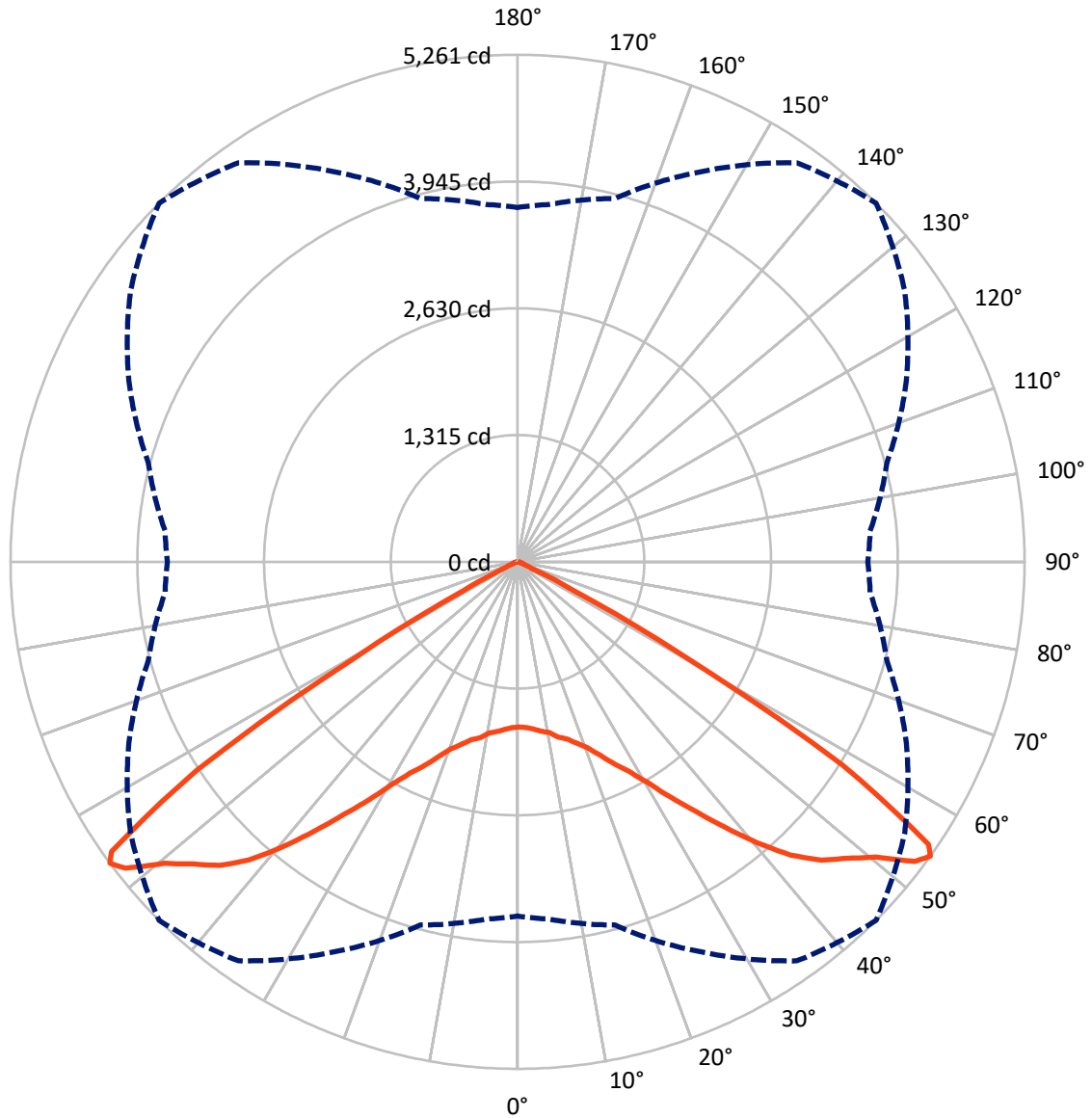
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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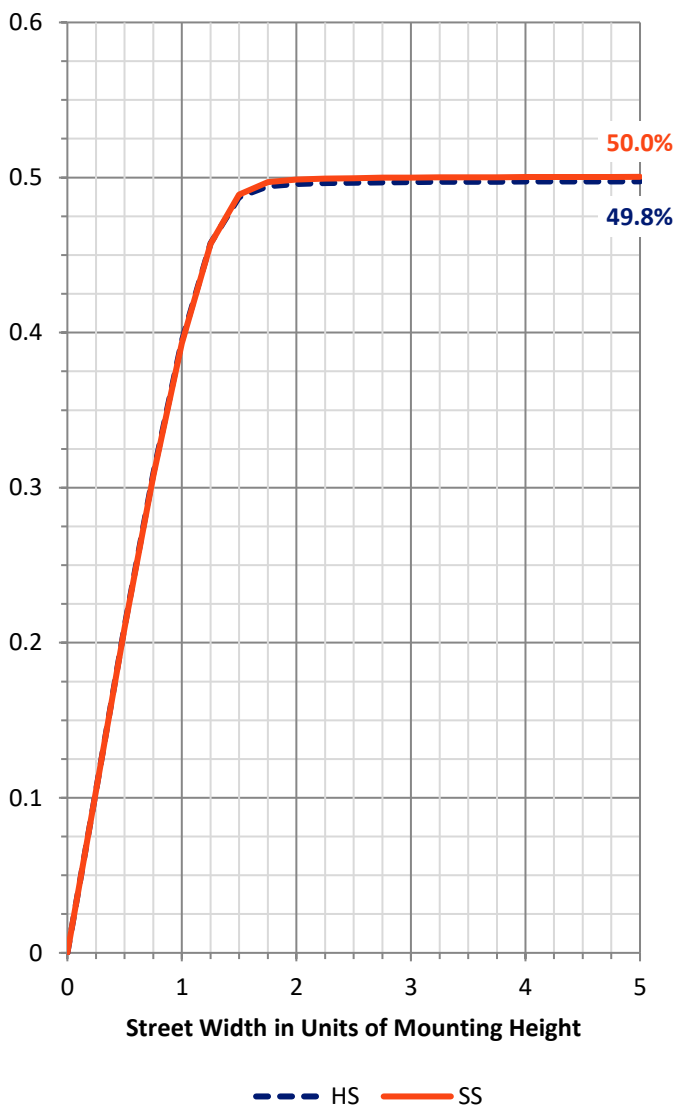
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5226.0	0.0	5226.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5226.0	0.0	5226.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10452.0	0.0	10452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.6
10°-20°	543.2	5.2
20°-30°	1064.6	10.2
30°-40°	1914.5	18.3
40°-50°	3277.2	31.4
50°-60°	3171.0	30.3
60°-70°	271.5	2.6
70°-80°	32.2	0.3
80°-90°	10.1	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°	10452.0	100.0
0°-180°	10452.0	100.0

Coefficient of Utilization



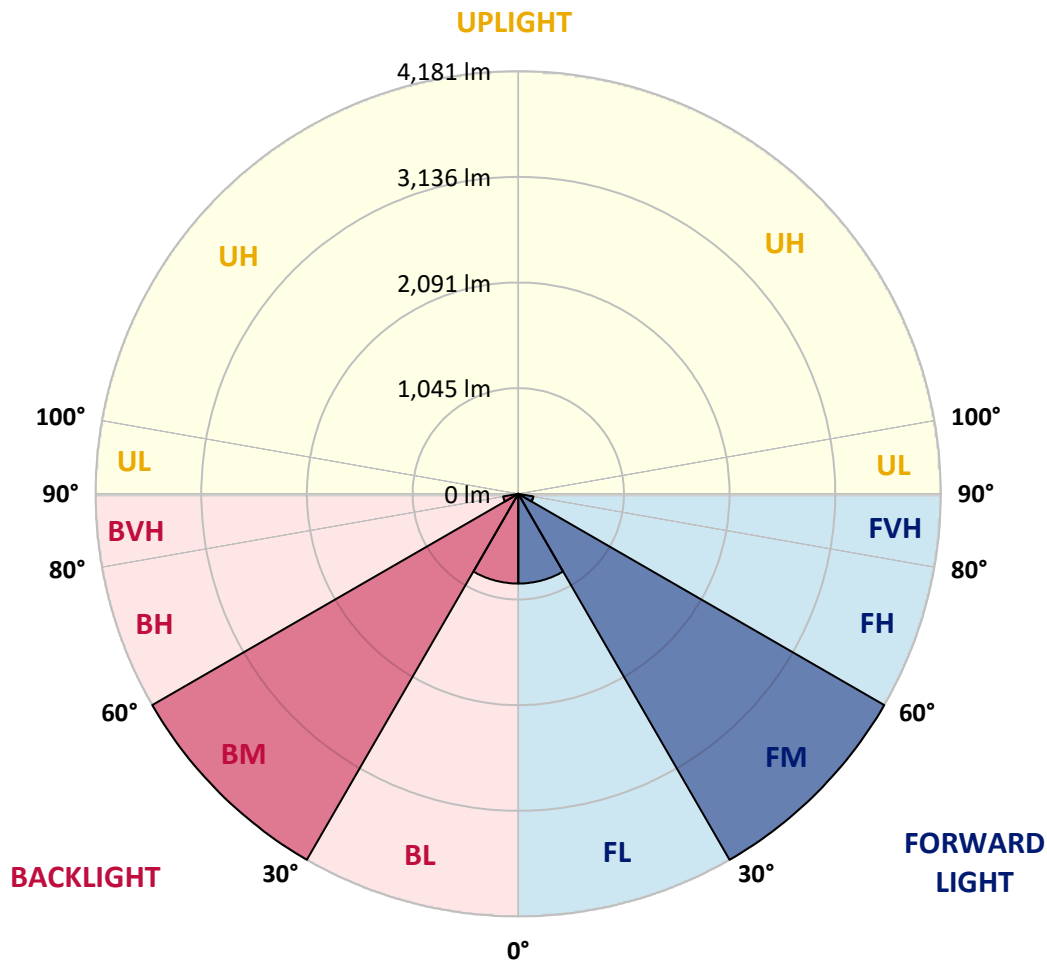
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.8	8.5			
FM (30°-60°)	4181.3	40.0			
FH (60°-80°)	151.8	1.5			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	887.8	8.5	B2/1000		
BM (30°-60°)	4181.3	40.0	B3/5000		
BH (60°-80°)	151.8	1.5	B1/500		G0/660
BVH (80°-90°)	5.0	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°	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8
2.5°	1722.0	1732.0	1725.4	1730.4	1730.4	1722.0	1727.1	1707.1	1720.4	1710.5	1712.1
5°	1748.6	1746.9	1746.9	1748.6	1742.0	1745.2	1738.6	1732.0	1727.1	1720.4	1740.3
7.5°	1781.7	1781.7	1770.1	1773.4	1770.1	1775.1	1761.8	1748.6	1743.6	1738.6	1735.3
10°	1813.1	1809.8	1804.9	1819.8	1808.2	1801.6	1794.9	1786.6	1768.5	1761.8	1755.2
12.5°	1859.5	1857.9	1851.2	1866.1	1859.5	1866.1	1841.3	1819.8	1816.5	1794.9	1806.6
15°	1914.1	1929.1	1917.5	1917.5	1914.1	1905.9	1896.0	1886.0	1856.2	1847.9	1849.6
17.5°	1985.3	1980.4	1982.1	1982.1	1998.6	1977.1	1957.2	1932.4	1917.5	1912.5	1896.0
20°	2053.2	2059.9	2058.2	2069.8	2079.7	2056.6	2035.1	2031.7	1990.3	1997.0	1973.7
22.5°	2172.5	2167.5	2175.8	2184.1	2177.4	2174.2	2154.2	2129.4	2093.0	2076.4	2073.1
25°	2298.3	2290.0	2275.2	2295.0	2304.9	2319.8	2281.7	2268.5	2212.2	2187.4	2189.0
27.5°	2405.9	2417.5	2434.1	2442.3	2467.2	2462.2	2435.7	2392.7	2349.7	2321.5	2303.2
30°	2553.3	2559.9	2588.1	2599.7	2642.8	2654.3	2612.9	2563.2	2487.1	2450.7	2429.1
32.5°	2689.1	2735.4	2733.8	2791.8	2861.3	2909.3	2834.8	2758.6	2682.5	2639.4	2601.3
35°	2909.3	2901.0	2949.1	3010.3	3122.9	3177.6	3096.4	3008.7	2892.8	2823.2	2793.4
37.5°	3114.6	3117.9	3182.5	3280.2	3409.4	3493.9	3422.6	3278.6	3159.3	3069.9	3028.5
40°	3412.7	3419.3	3485.5	3596.5	3742.2	3833.3	3750.4	3604.8	3445.8	3376.3	3376.3
42.5°	3762.0	3790.2	3833.3	3929.3	4060.1	4161.1	4086.6	3972.4	3811.7	3722.4	3735.6
45°	4121.4	4134.6	4162.8	4305.2	4366.5	4416.1	4346.5	4293.6	4186.0	4076.7	4058.5
47.5°	4457.6	4462.5	4545.3	4590.0	4638.0	4596.6	4641.3	4571.8	4450.9	4344.9	4323.4
50°	4606.6	4598.3	4715.8	4851.6	4888.1	4815.1	4777.1	4730.7	4547.0	4419.5	4363.1
52.5°	4172.7	4220.7	4439.3	4816.8	5101.7	5162.9	4941.0	4727.4	4384.6	4136.3	4098.2
54°	3675.9	3720.7	3901.1	4460.8	5053.7	5260.6	4902.9	4449.2	3965.7	3671.0	3633.0
55°	3184.2	3134.5	3462.4	4033.6	4828.4	5174.5	4752.2	4090.0	3536.9	3266.9	3214.0
57.5°	1723.7	1732.0	2008.6	2548.3	3392.8	3967.4	3503.8	2766.9	2089.6	1786.6	1760.1
60°	546.4	559.7	680.5	1030.0	1621.0	1935.6	1659.1	1111.0	768.3	615.9	591.1
62.5°	170.6	177.2	193.8	288.1	443.8	634.2	496.8	298.1	221.9	203.7	207.0
65°	104.3	104.3	106.0	112.6	132.5	154.0	149.0	130.8	125.8	122.5	120.9
67.5°	67.9	66.3	69.6	74.5	77.8	79.5	84.4	89.4	87.8	84.4	84.4
70°	41.4	39.8	43.1	49.7	51.3	54.7	59.6	66.3	64.6	61.2	62.9
72.5°	23.2	23.2	24.8	29.8	34.7	38.1	43.1	48.0	49.7	48.0	48.0
75°	8.2	9.9	13.3	18.2	21.5	26.5	31.5	36.4	41.4	38.1	36.4
77.5°	3.3	3.3	6.6	11.6	16.6	21.5	29.8	34.7	38.1	34.7	31.5
80°	1.7	1.7	5.0	9.9	14.9	19.8	24.8	29.8	31.5	28.2	24.8
82.5°	1.7	1.7	5.0	9.9	14.9	18.2	26.5	29.8	33.1	29.8	24.8
85°	0.0	1.7	5.0	9.9	13.3	14.9	14.9	9.9	8.2	5.0	5.0
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)