

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: P451670

Luminaire Tested: **GALN-SA2C-750-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451670
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-SA2C-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14755 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

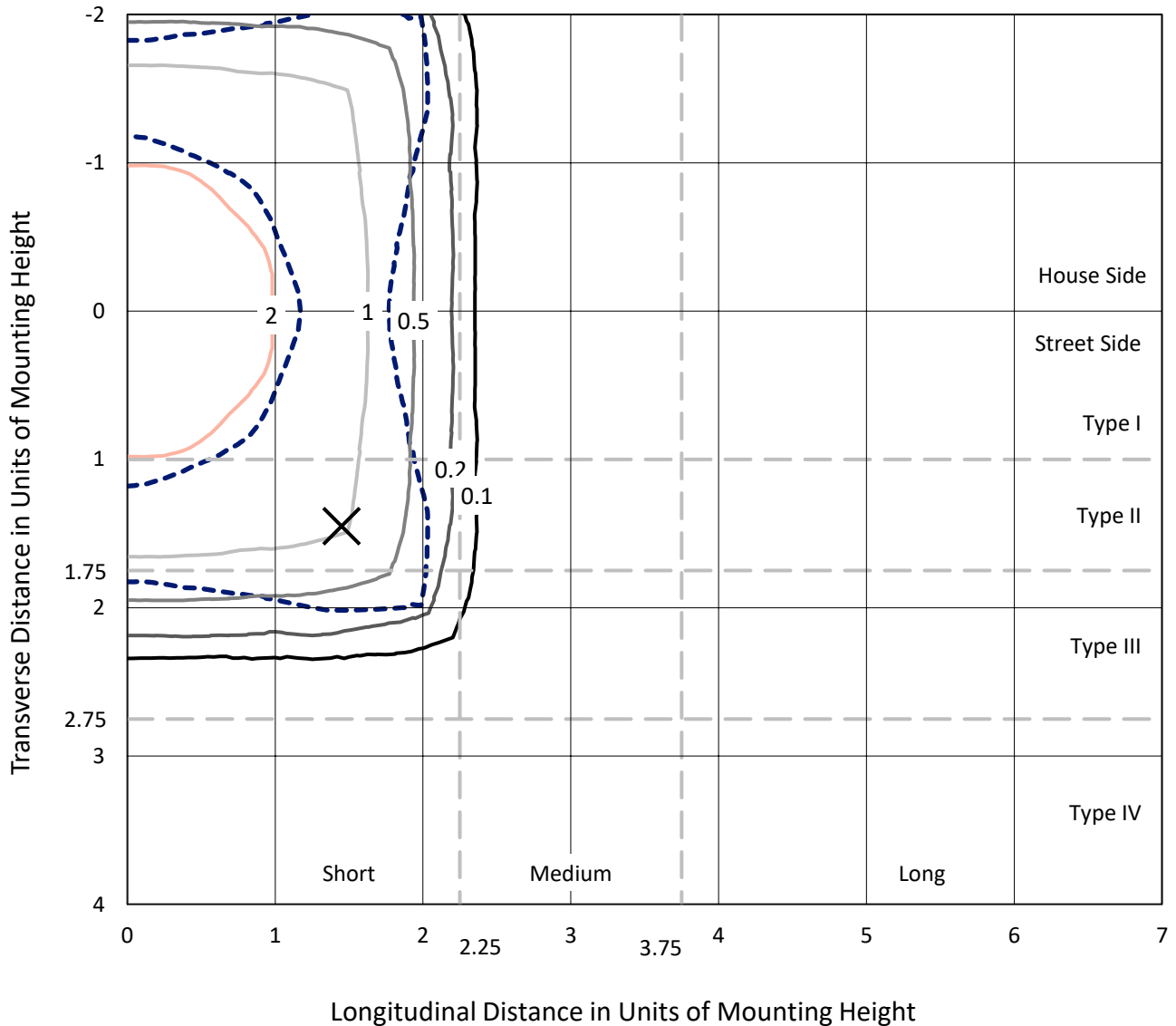
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

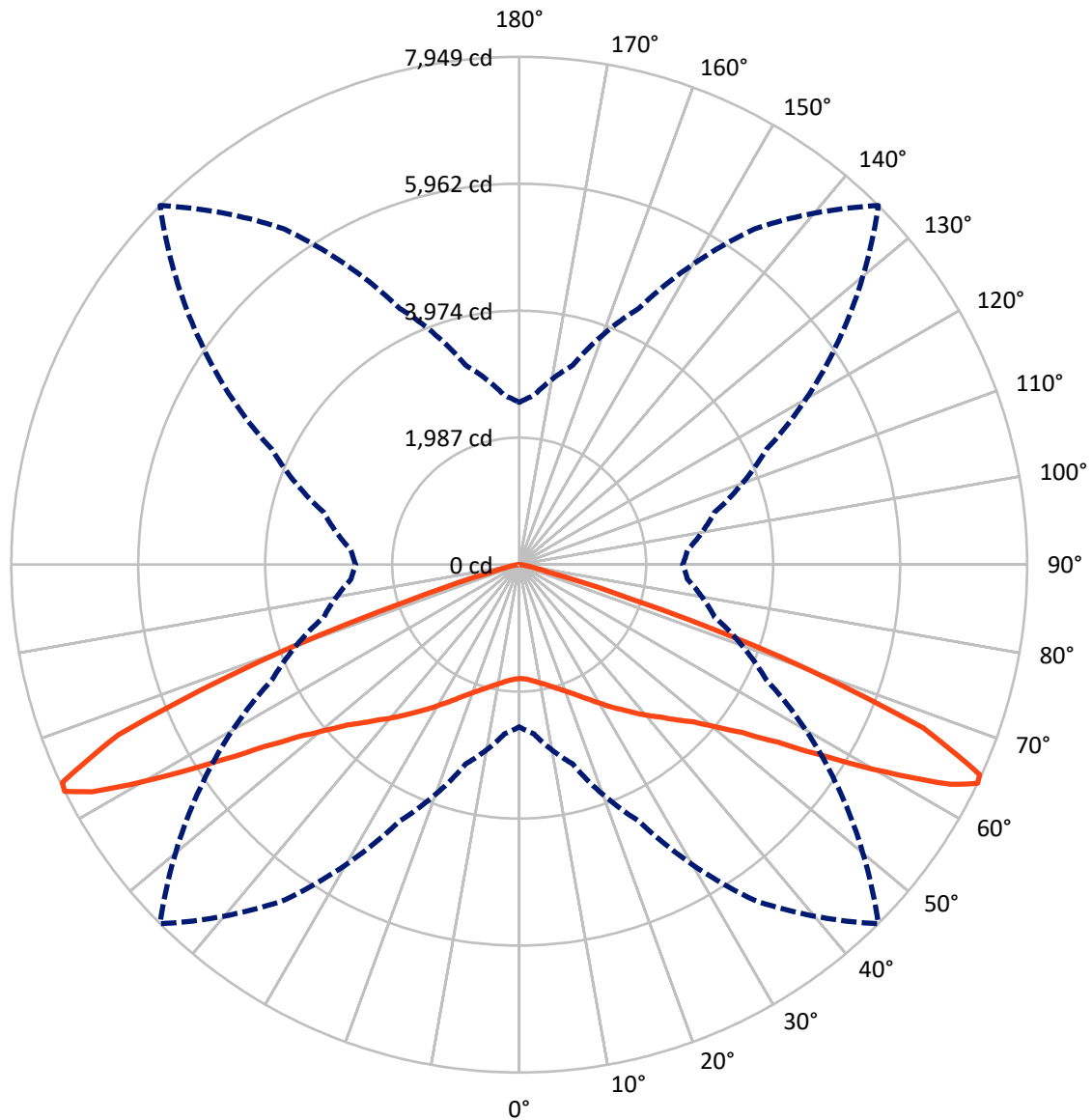
✕ Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7377.5	0.0	7377.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7377.5	0.0	7377.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14755.0	0.0	14755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	1.2
10°-20°	565.1	3.8
20°-30°	1068.0	7.2
30°-40°	1768.7	12.0
40°-50°	2761.2	18.7
50°-60°	4268.8	28.9
60°-70°	3680.9	24.9
70°-80°	417.1	2.8
80°-90°	50.0	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°	14755.0	100.0
0°-180°	14755.0	100.0

Coefficient of Utilization



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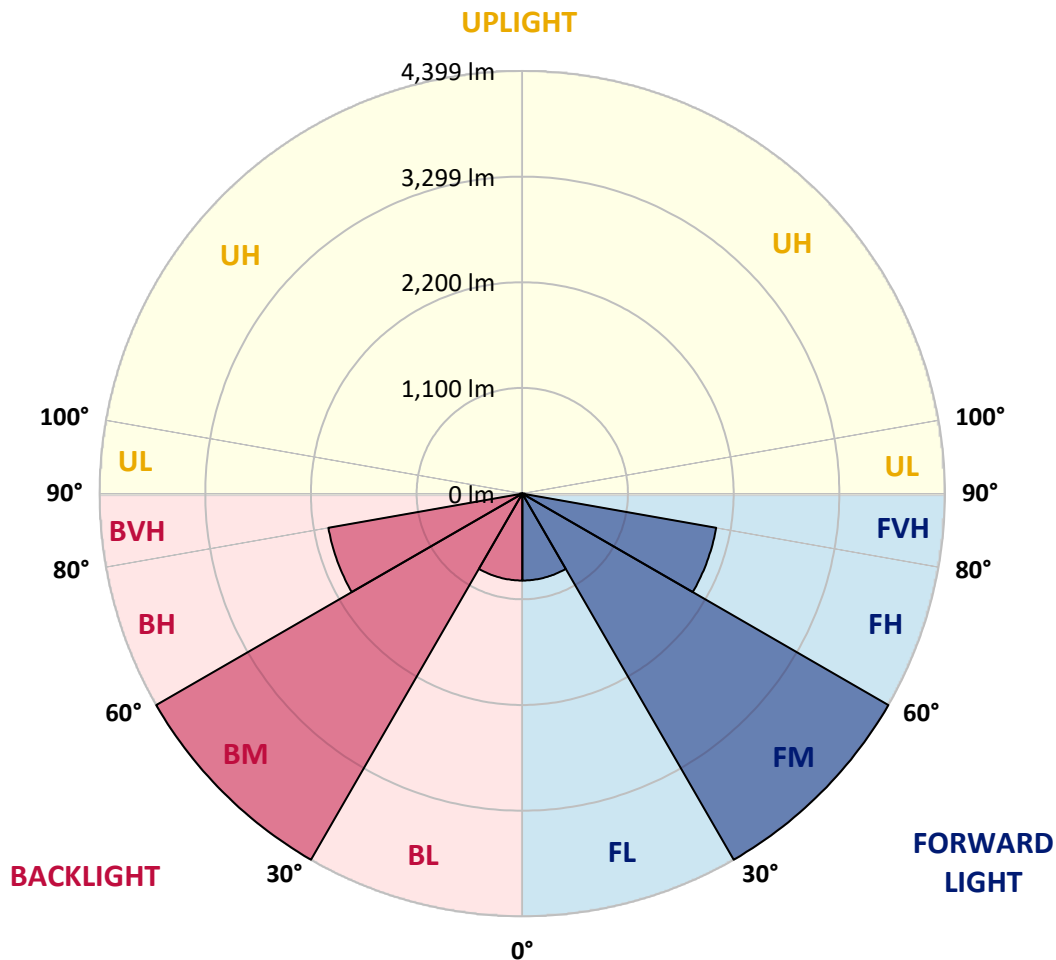
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.2	6.1			
FM (30°-60°)	4399.3	29.8			
FH (60°-80°)	2049.0	13.9			G2/5000
FVH (80°-90°)	25.0	0.2			G1/100
BL (0°-30°)	904.2	6.1	B2/1000		
BM (30°-60°)	4399.3	29.8	B3/5000		
BH (60°-80°)	2049.0	13.9	B3/2500		G2/5000
BVH (80°-90°)	25.0	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°	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4
2.5°	1790.4	1794.3	1791.2	1790.4	1789.6	1789.6	1789.6	1790.4	1793.5	1795.9	1794.3
5°	1813.1	1816.2	1814.6	1813.9	1813.1	1813.9	1812.3	1811.5	1813.9	1813.9	1813.1
7.5°	1841.2	1845.1	1843.6	1845.1	1845.9	1846.7	1842.8	1839.7	1838.9	1841.2	1839.7
10°	1879.5	1882.6	1883.4	1884.2	1885.8	1885.0	1880.3	1874.8	1874.0	1873.3	1872.5
12.5°	1922.5	1924.8	1925.6	1928.7	1931.1	1931.9	1926.4	1921.7	1913.9	1915.5	1912.3
15°	1971.0	1975.6	1974.9	1979.5	1985.8	1987.4	1981.9	1974.1	1967.0	1963.1	1960.8
17.5°	2030.3	2033.5	2031.9	2036.6	2044.4	2048.3	2043.6	2033.5	2026.4	2017.8	2013.2
20°	2100.7	2106.2	2107.7	2107.7	2114.7	2118.7	2111.6	2108.5	2097.6	2091.3	2087.4
22.5°	2180.4	2182.7	2187.4	2192.1	2199.1	2197.6	2195.2	2190.6	2180.4	2174.9	2168.7
25°	2270.3	2272.6	2284.3	2294.5	2296.8	2295.3	2292.1	2289.8	2280.4	2267.9	2263.2
27.5°	2375.0	2379.7	2395.3	2404.7	2404.7	2405.5	2399.2	2407.0	2386.7	2371.9	2370.3
30°	2506.3	2509.4	2522.7	2532.1	2527.4	2523.5	2521.9	2529.7	2507.8	2481.3	2475.0
32.5°	2636.0	2647.0	2658.7	2679.0	2662.6	2655.5	2654.0	2659.5	2634.4	2604.7	2596.2
35°	2775.1	2782.9	2804.8	2822.0	2807.2	2790.7	2797.8	2815.0	2785.3	2745.4	2743.9
37.5°	2929.1	2936.1	2964.2	2982.2	2971.3	2943.1	2954.9	2975.2	2945.5	2896.3	2886.1
40°	3089.3	3104.1	3139.3	3158.1	3140.1	3102.6	3124.4	3146.3	3119.8	3062.7	3040.0
42.5°	3269.0	3292.5	3343.3	3352.6	3318.3	3267.5	3305.8	3340.9	3322.2	3256.5	3247.9
45°	3479.3	3493.3	3555.8	3576.2	3528.5	3465.2	3512.9	3576.9	3562.9	3487.1	3470.7
47.5°	3714.5	3727.8	3792.6	3823.1	3762.9	3677.8	3763.7	3847.3	3838.7	3757.5	3749.7
50°	3992.7	3995.8	4085.7	4120.1	4059.9	3986.4	4063.0	4167.0	4132.6	4028.6	4027.1
52.5°	4297.5	4301.4	4414.7	4481.1	4447.5	4364.7	4455.3	4518.7	4431.1	4295.1	4285.0
55°	4561.6	4581.2	4735.9	4912.5	4958.6	4898.5	4925.8	4896.1	4680.4	4489.7	4460.0
57.5°	4669.5	4707.8	4943.0	5272.8	5572.9	5662.0	5451.0	5168.1	4779.7	4510.1	4481.1
60°	4406.1	4447.5	4812.5	5438.5	6204.4	6591.2	5998.0	5214.2	4553.8	4174.8	4129.5
62.5°	3528.5	3540.2	4077.1	5048.5	6572.4	7574.3	6228.6	4821.1	3896.6	3381.6	3363.6
64°	2539.1	2659.5	3228.4	4426.4	6411.5	7948.7	6095.7	4270.1	3165.1	2643.8	2559.4
65°	1899.1	1931.9	2602.4	3780.1	6127.8	7920.5	5837.8	3743.4	2621.2	2023.3	1929.5
67.5°	717.4	721.3	960.5	1884.2	4362.3	6814.7	4455.3	2036.6	1104.3	798.7	769.8
70°	297.8	303.2	352.5	633.8	1874.8	4375.6	2148.4	734.6	404.0	327.4	322.8
72.5°	218.0	221.2	236.0	281.3	576.7	1796.7	706.5	311.8	236.8	211.8	209.4
75°	171.1	172.7	183.7	207.1	268.8	497.8	293.8	214.1	180.5	162.6	161.0
77.5°	130.5	134.4	142.2	157.9	180.5	236.0	194.6	160.2	139.1	124.3	121.9
80°	89.9	94.6	109.4	115.7	121.1	153.2	132.9	121.1	108.6	90.7	85.2
82.5°	55.5	58.6	73.5	78.9	76.6	86.0	85.2	86.7	77.4	56.3	52.4
85°	28.9	30.5	39.9	41.4	38.3	35.2	43.8	50.8	47.7	32.0	31.3
87.5°	6.3	7.0	8.6	7.8	8.6	8.6	10.9	16.4	17.2	10.9	10.2
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)