

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: P646876

Luminaire Tested: **GALN-SA4C-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22791.5 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

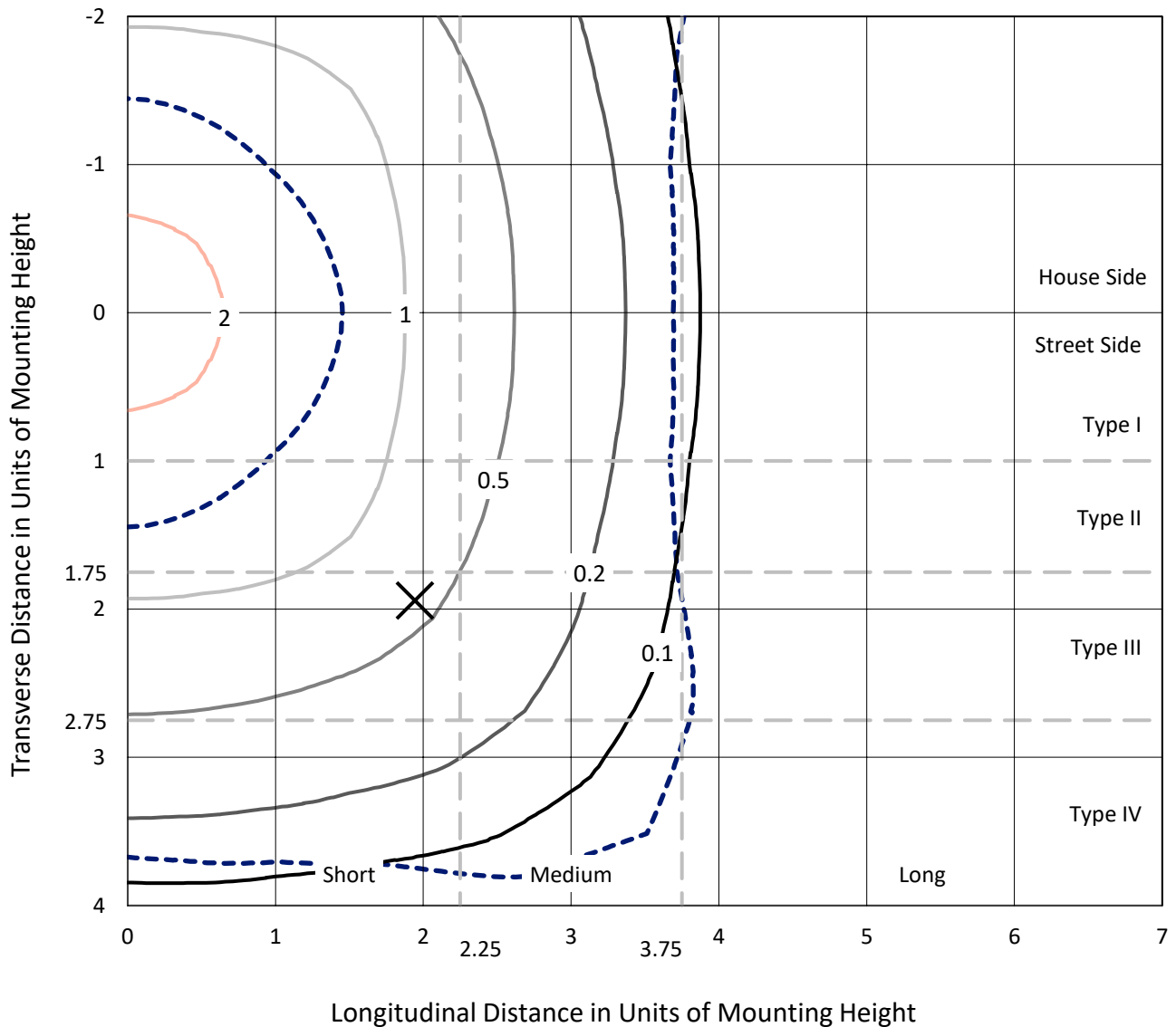
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

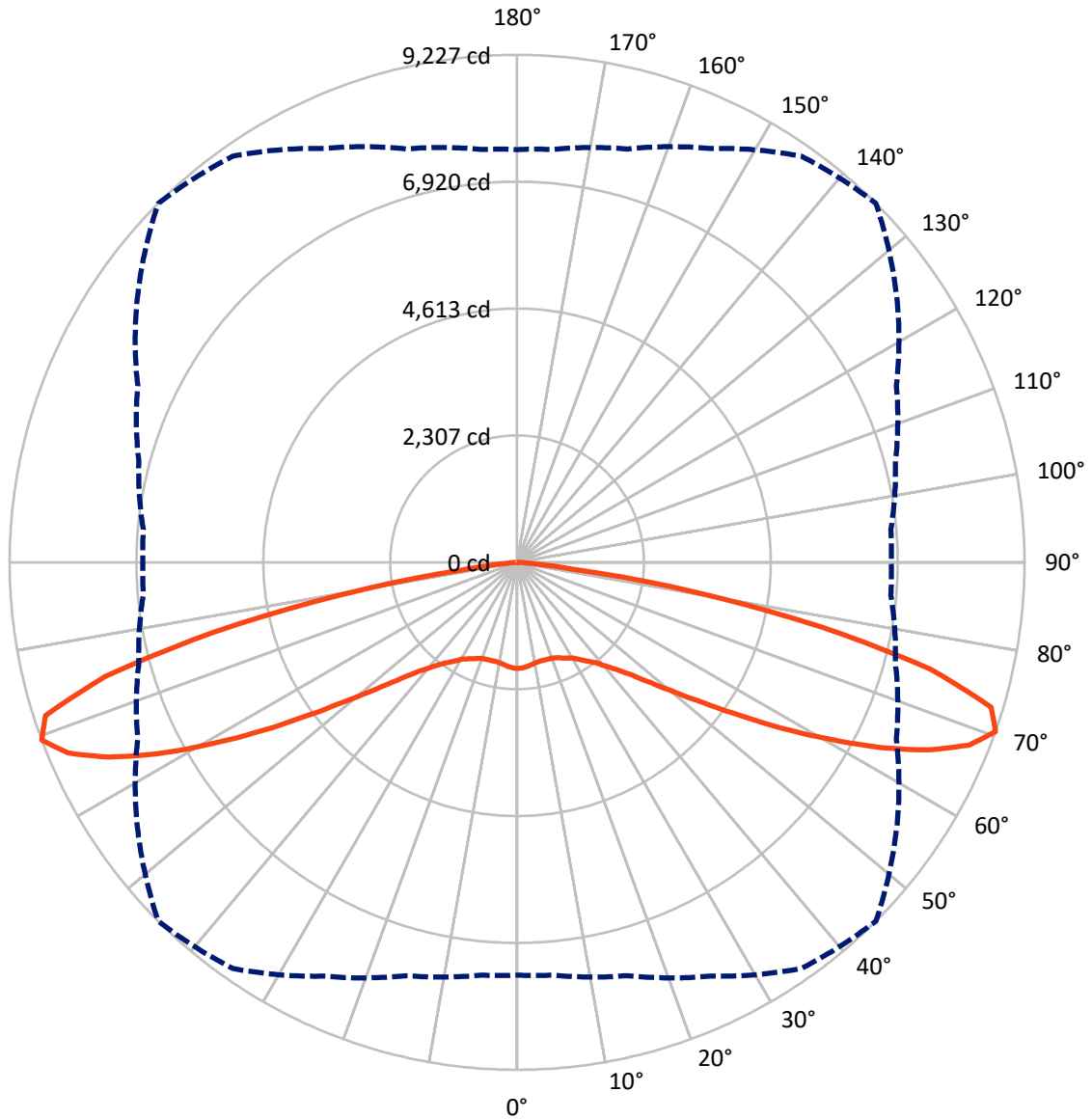
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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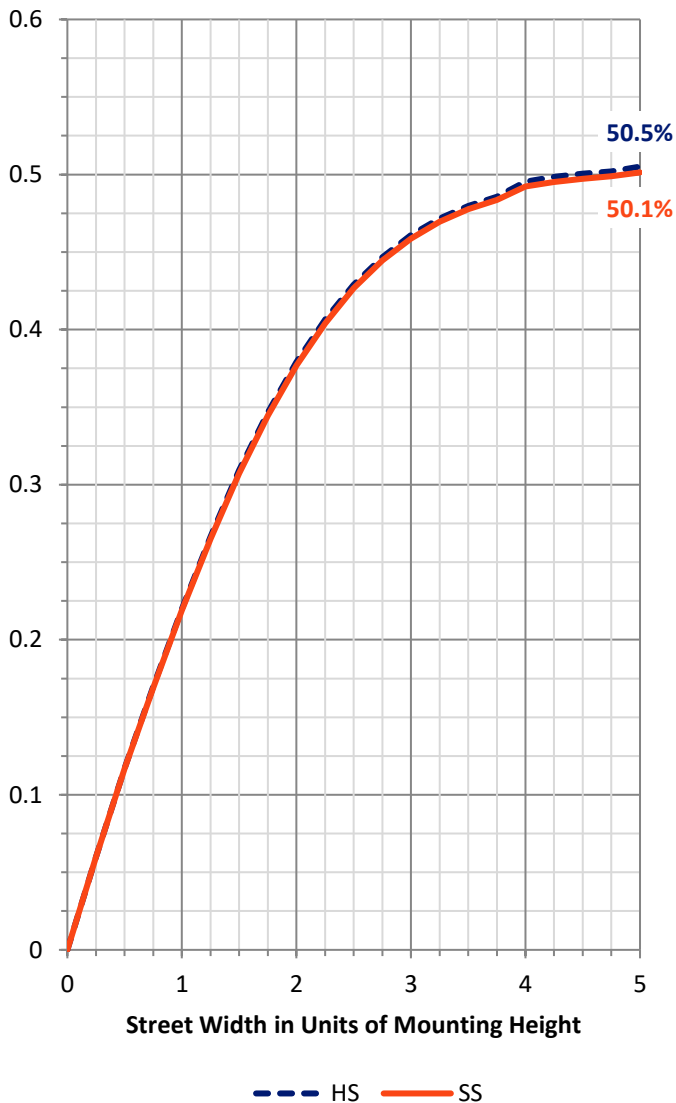
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11395.8	0.0	11395.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11395.8	0.0	11395.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	22791.5	0.0	22791.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	0.8
10°-20°	528.3	2.3
20°-30°	900.1	3.9
30°-40°	1395.1	6.1
40°-50°	2348.2	10.3
50°-60°	4272.4	18.7
60°-70°	7233.0	31.7
70°-80°	5598.6	24.6
80°-90°	335.5	1.5
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°	22791.5	100.0
0°-180°	22791.5	100.0



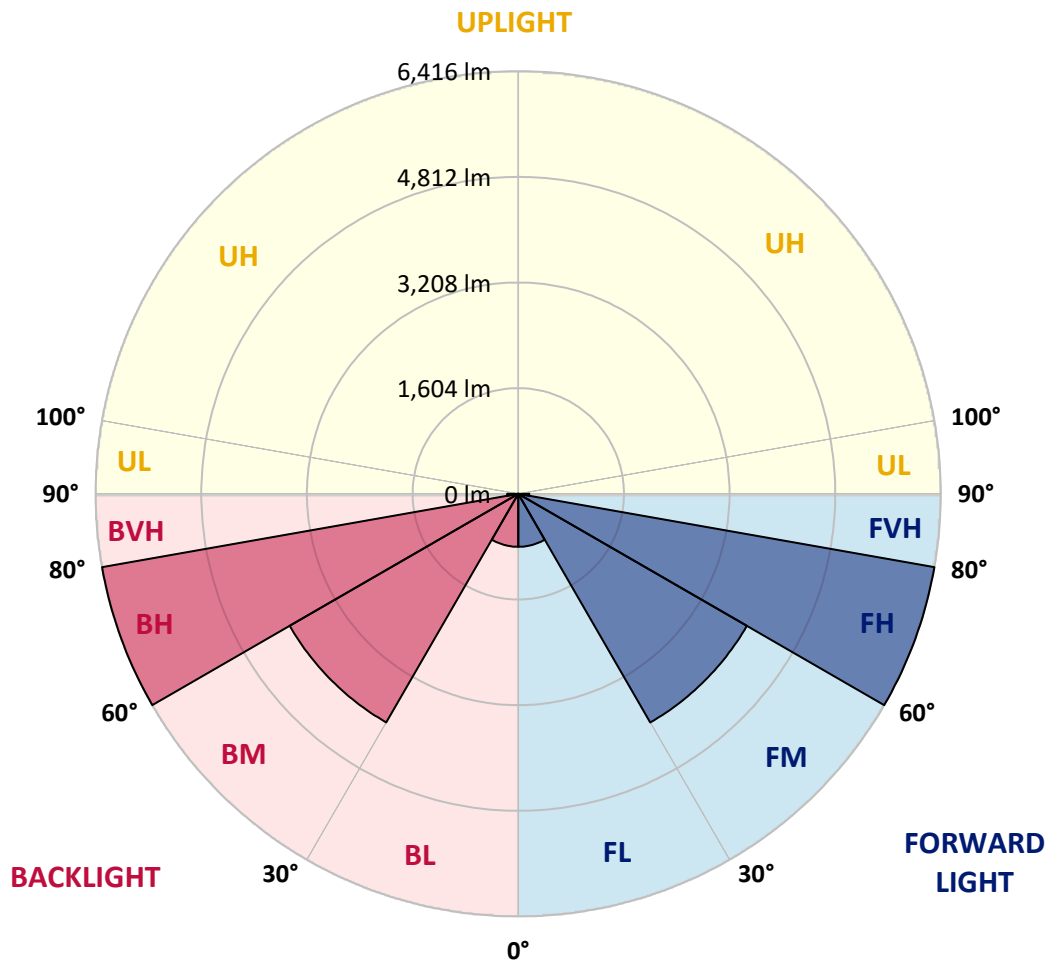
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.4	3.5			
FM (30°-60°)	4007.8	17.6			
FH (60°-80°)	6415.8	28.1			G3/7500
FVH (80°-90°)	167.7	0.7			G2/225
BL (0°-30°)	804.4	3.5	B2/1000		
BM (30°-60°)	4007.8	17.6	B3/5000		
BH (60°-80°)	6415.8	28.1	B5		G3/7500
BVH (80°-90°)	167.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5
2.5°	1924.8	1925.9	1925.9	1923.6	1922.3	1922.3	1921.2	1921.2	1924.8	1925.9	1927.2
5°	1907.9	1907.9	1907.9	1906.7	1904.3	1904.3	1901.9	1901.9	1903.1	1906.7	1904.3
7.5°	1885.1	1887.4	1887.4	1882.6	1879.0	1879.0	1877.8	1879.0	1880.2	1883.8	1882.6
10°	1877.8	1879.0	1873.0	1864.6	1858.5	1854.9	1856.2	1858.5	1864.6	1867.0	1868.2
12.5°	1882.6	1882.6	1871.8	1859.8	1848.9	1844.1	1842.9	1851.3	1862.2	1869.4	1871.8
15°	1888.7	1886.2	1873.0	1857.4	1846.5	1845.3	1844.1	1850.2	1865.8	1880.2	1881.5
17.5°	1892.3	1891.1	1874.2	1854.9	1848.9	1848.9	1847.7	1852.6	1869.4	1887.4	1888.7
20°	1904.3	1900.7	1881.5	1861.0	1856.2	1858.5	1854.9	1861.0	1879.0	1900.7	1905.5
22.5°	1928.4	1924.8	1905.5	1885.1	1882.6	1882.6	1881.5	1887.4	1906.7	1929.5	1933.2
25°	1957.3	1953.7	1935.6	1921.2	1923.6	1928.4	1925.9	1927.2	1942.9	1962.1	1968.1
27.5°	1995.8	1989.8	1974.1	1962.1	1969.3	1969.3	1969.3	1968.1	1977.7	1995.8	2001.8
30°	2042.8	2040.3	2023.5	2022.3	2028.3	2022.3	2022.3	2023.5	2024.7	2041.5	2047.5
32.5°	2104.2	2099.3	2090.9	2088.5	2105.3	2110.1	2093.3	2077.6	2086.1	2102.9	2106.5
35°	2205.2	2198.0	2186.0	2172.7	2186.0	2208.8	2172.7	2160.7	2182.4	2205.2	2207.7
37.5°	2342.5	2338.8	2319.6	2295.5	2294.3	2318.4	2281.1	2279.9	2320.8	2348.5	2352.1
40°	2514.6	2518.2	2494.2	2471.2	2459.2	2478.5	2449.6	2460.4	2500.1	2531.4	2529.0
42.5°	2756.6	2743.3	2706.0	2684.4	2671.0	2663.8	2656.6	2673.5	2718.0	2751.7	2778.2
45°	3039.4	3034.6	2987.7	2961.1	2932.3	2921.5	2919.0	2949.2	3003.4	3044.2	3047.8
47.5°	3359.6	3348.8	3318.7	3291.0	3280.1	3266.9	3254.9	3277.8	3331.9	3360.8	3369.2
50°	3689.4	3691.8	3691.8	3687.1	3697.9	3700.3	3667.8	3676.2	3706.3	3703.9	3701.5
52.5°	4066.2	4079.4	4142.1	4148.1	4199.9	4234.7	4175.7	4140.8	4130.0	4065.0	4069.8
55°	4509.2	4521.2	4615.1	4709.0	4848.6	4907.6	4783.7	4675.3	4598.2	4499.6	4504.4
57.5°	5061.7	5067.7	5156.8	5337.3	5558.8	5697.3	5479.4	5265.1	5108.7	5014.7	4977.5
60°	5656.3	5662.3	5792.4	6012.7	6356.9	6525.4	6255.8	5905.5	5708.1	5564.9	5574.5
62.5°	6370.2	6394.2	6511.0	6814.4	7232.0	7421.0	7063.5	6595.3	6328.0	6149.8	6157.1
65°	7134.5	7175.5	7303.0	7636.5	8021.7	8225.1	7786.9	7246.5	6914.3	6696.4	6719.2
67.5°	7630.5	7666.6	7850.7	8219.1	8699.4	8867.9	8302.1	7672.6	7257.3	6997.3	6949.1
70°	7504.0	7534.2	7779.7	8302.1	9013.6	9226.6	8424.9	7610.0	7121.3	6821.6	6802.3
72.5°	6624.2	6561.5	6920.2	7670.2	8654.8	9012.3	8038.5	6950.4	6335.3	6027.1	5991.0
75°	4390.0	4526.1	5055.7	5939.2	7322.3	7765.3	6861.3	5580.5	4806.5	4550.1	4510.4
77.5°	1467.3	1572.1	2042.8	3366.8	4991.9	5657.6	4999.1	3649.7	2582.0	2080.0	2089.7
80°	388.8	384.0	497.1	925.7	2157.1	3276.5	2511.0	1236.2	676.5	489.9	464.6
82.5°	139.6	156.5	201.0	256.4	571.7	1018.4	718.6	346.7	254.0	187.8	181.7
85°	61.4	60.2	86.7	102.3	143.2	190.2	168.5	146.9	128.8	85.5	79.5
87.5°	13.2	13.2	20.4	15.7	25.3	25.3	31.3	37.3	38.5	25.3	20.4
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)