

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: P647873

Luminaire Tested: **GALN-SA4A-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14614.8 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

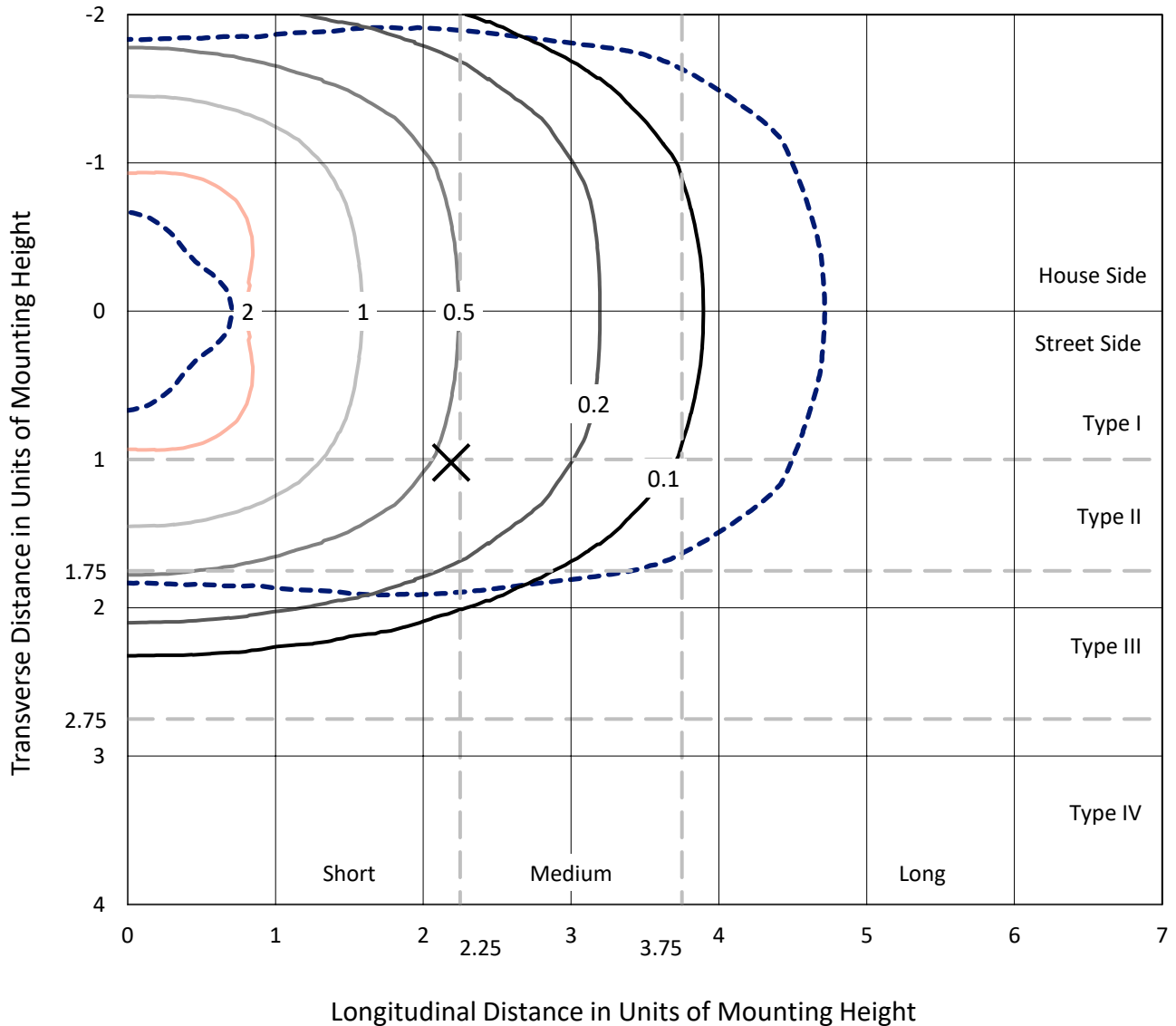




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Iso-Footcandle Lines of Horizontal Illumination

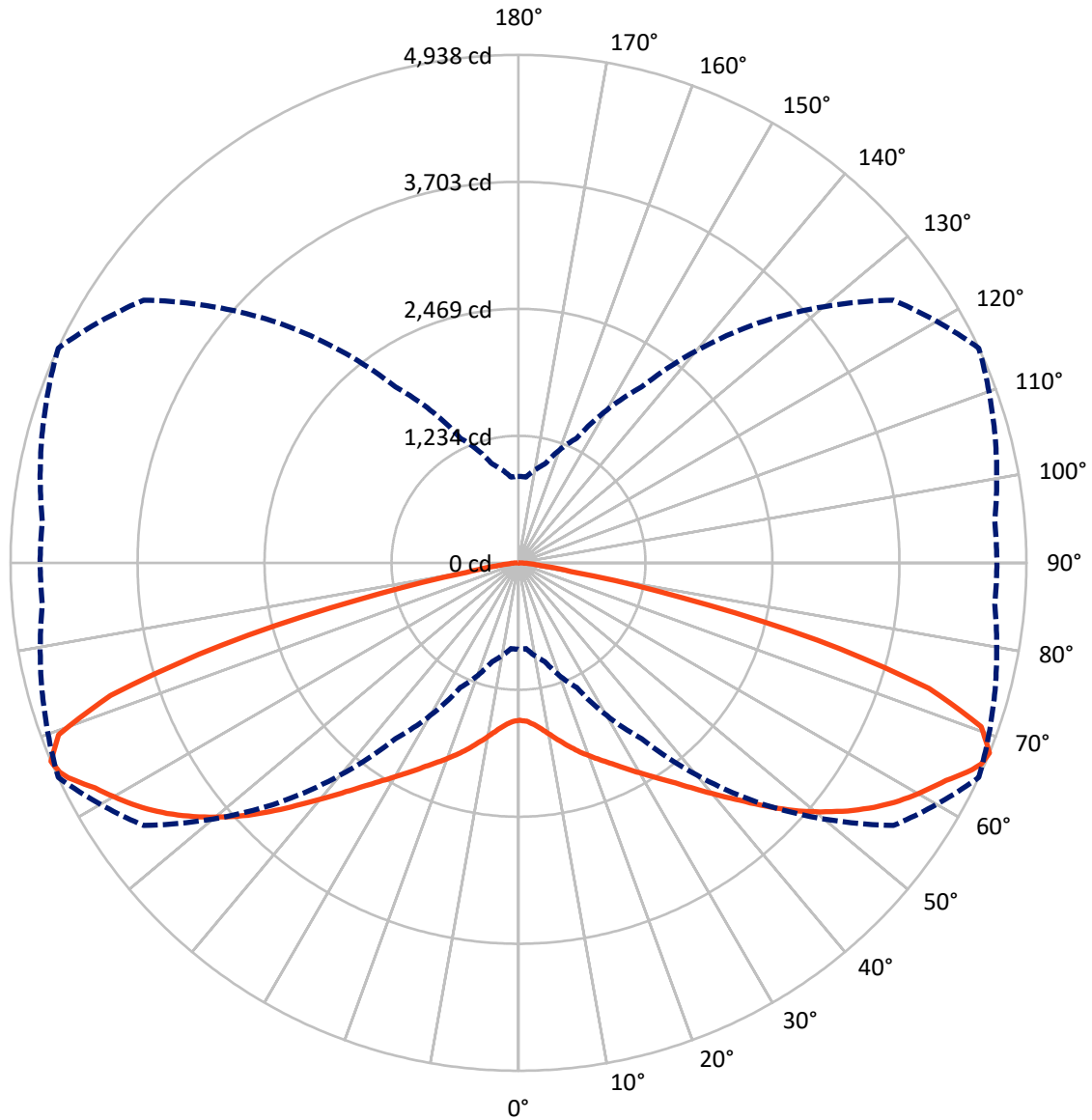
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7307.4	0.0	7307.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7307.4	0.0	7307.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	14614.8	0.0	14614.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.0
10°-20°	505.3	3.5
20°-30°	988.4	6.8
30°-40°	1681.1	11.5
40°-50°	2660.7	18.2
50°-60°	3528.1	24.1
60°-70°	3328.1	22.8
70°-80°	1645.2	11.3
80°-90°	126.8	0.9
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°	14614.8	100.0
0°-180°	14614.8	100.0

Coefficient of Utilization



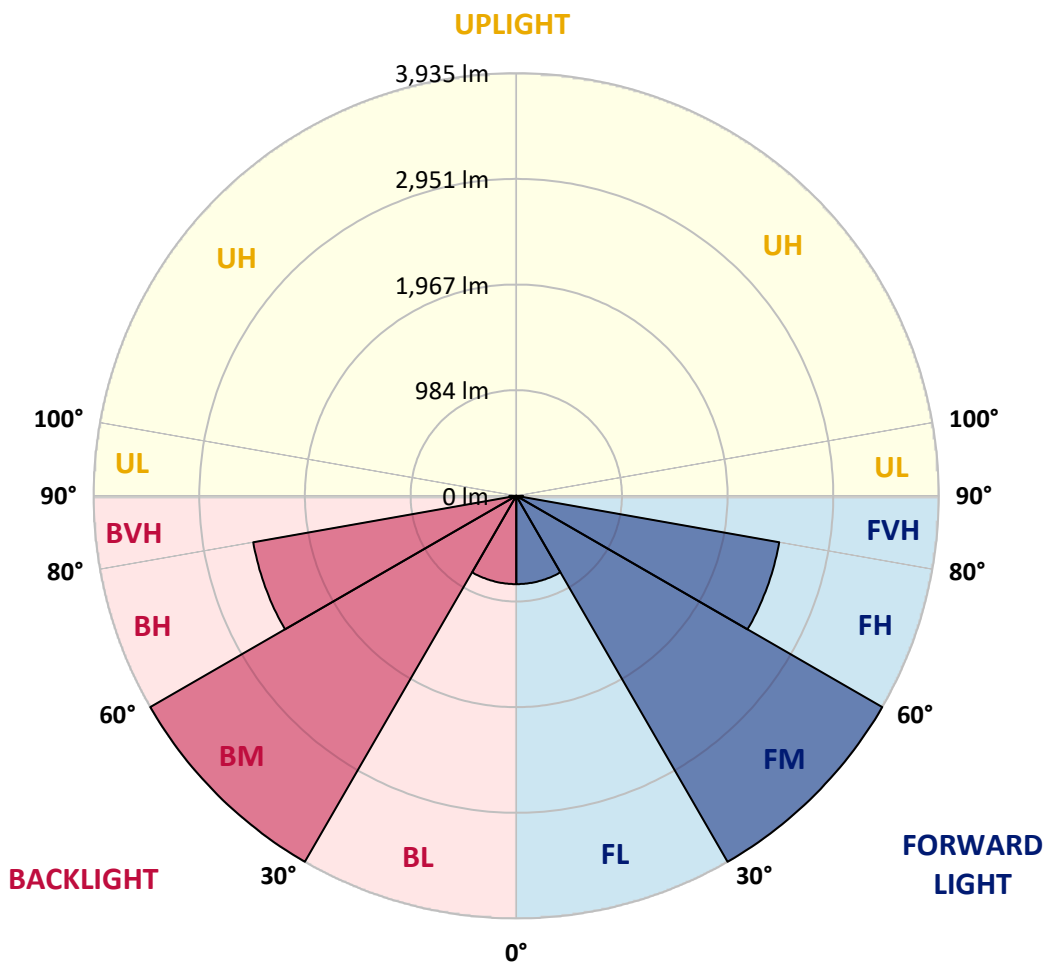
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.3	5.6			
FM (30°-60°)	3935.0	26.9			
FH (60°-80°)	2486.7	17.0			G2/5000
FVH (80°-90°)	63.4	0.4			G1/100
BL (0°-30°)	822.3	5.6	B2/1000		
BM (30°-60°)	3935.0	26.9	B3/5000		
BH (60°-80°)	2486.7	17.0	B3/2500		G3/2500
BVH (80°-90°)	63.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8
2.5°	1522.9	1524.5	1526.1	1528.4	1531.5	1536.2	1539.4	1541.7	1548.0	1548.8	1548.0
5°	1517.5	1519.0	1522.9	1530.0	1540.2	1554.3	1565.2	1578.5	1588.7	1595.8	1594.2
7.5°	1516.7	1519.8	1526.1	1540.9	1560.5	1584.8	1609.8	1632.6	1652.1	1667.8	1665.4
10°	1529.2	1533.1	1543.3	1565.2	1595.8	1631.0	1666.2	1699.9	1728.1	1748.4	1755.5
12.5°	1550.3	1553.5	1572.3	1605.2	1649.0	1692.8	1732.8	1774.3	1813.4	1847.9	1847.9
15°	1587.1	1592.6	1616.1	1663.9	1717.9	1768.8	1809.5	1853.4	1895.6	1934.8	1946.5
17.5°	1638.0	1645.9	1681.1	1742.2	1811.1	1858.1	1896.4	1932.4	1969.2	2006.8	2012.3
20°	1707.7	1715.6	1762.5	1836.1	1917.6	1973.9	1999.8	2008.4	2026.4	2062.4	2067.1
22.5°	1802.5	1810.3	1862.8	1945.8	2036.6	2097.7	2108.6	2088.3	2083.6	2111.8	2114.9
25°	1909.7	1916.8	1977.1	2066.3	2160.3	2226.9	2223.7	2173.6	2145.4	2162.6	2167.3
27.5°	2030.3	2040.5	2101.6	2194.0	2295.8	2354.5	2345.1	2272.3	2212.0	2208.8	2210.4
30°	2184.6	2195.5	2253.5	2342.0	2442.2	2496.2	2476.6	2378.8	2285.6	2254.3	2254.3
32.5°	2347.4	2374.8	2433.6	2526.0	2604.3	2643.4	2613.7	2496.2	2372.5	2328.6	2326.3
35°	2559.6	2574.5	2632.4	2722.5	2781.2	2811.8	2754.6	2628.5	2486.0	2434.3	2427.3
37.5°	2767.1	2779.6	2847.0	2933.1	3004.4	3002.8	2925.3	2785.9	2627.0	2569.0	2564.3
40°	2979.3	2992.6	3069.4	3148.4	3219.7	3213.4	3119.5	2963.7	2794.5	2729.5	2742.1
42.5°	3163.3	3178.2	3265.1	3377.9	3442.1	3440.5	3331.7	3156.3	2980.1	2922.2	2933.1
45°	3330.9	3344.2	3445.2	3574.4	3668.4	3680.1	3561.1	3375.5	3194.6	3120.3	3123.4
47.5°	3449.1	3474.2	3579.9	3727.9	3855.5	3897.0	3780.3	3598.7	3390.4	3312.9	3317.6
50°	3539.2	3554.8	3669.9	3838.3	3999.6	4085.7	3991.7	3805.4	3586.1	3503.9	3514.9
52.5°	3550.1	3568.9	3694.2	3888.4	4095.1	4225.9	4179.7	4007.4	3785.8	3701.2	3724.7
55°	3460.9	3471.8	3621.4	3857.1	4132.7	4330.0	4341.7	4195.3	3976.1	3911.9	3927.5
57.5°	3206.4	3234.6	3424.1	3710.6	4081.0	4385.6	4463.1	4366.0	4168.7	4105.3	4130.3
60°	2789.0	2817.2	3007.5	3370.8	3886.0	4359.7	4563.3	4517.1	4343.3	4292.4	4305.7
62.5°	2185.4	2183.0	2418.7	2864.2	3498.4	4232.9	4637.7	4662.8	4515.6	4451.4	4471.7
65°	1416.4	1423.5	1651.3	2131.3	2913.5	3910.3	4654.2	4848.3	4684.7	4587.6	4602.5
66°	1139.3	1160.4	1353.8	1796.2	2615.2	3698.9	4604.8	4903.1	4736.4	4618.9	4626.0
67.5°	840.9	837.0	996.0	1337.4	2088.3	3297.2	4450.6	4937.6	4795.1	4647.1	4650.2
70°	480.0	479.2	535.6	734.5	1227.7	2321.6	3751.4	4772.4	4914.1	4748.9	4740.3
72.5°	350.8	348.4	356.3	405.6	599.0	1172.2	2587.8	4171.0	4853.0	4732.5	4708.2
75°	294.4	292.8	291.3	297.5	335.9	530.9	1373.4	3000.5	4211.0	4442.0	4416.9
77.5°	240.4	240.4	241.2	239.6	241.2	279.5	569.2	1608.3	2564.3	2862.6	2932.3
80°	187.9	187.1	200.4	195.0	182.4	179.3	252.1	517.6	851.1	846.4	698.4
82.5°	138.6	129.2	152.7	148.8	134.7	114.3	147.2	220.8	284.2	184.8	137.0
85°	87.7	86.9	108.1	98.7	82.2	54.0	70.5	94.7	117.4	71.3	57.9
87.5°	15.7	14.9	34.5	25.1	25.1	15.7	19.6	25.8	38.4	26.6	19.6
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)