

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: P453153

Luminaire Tested: **GALN-SA4A-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453153
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-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14832 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 121
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

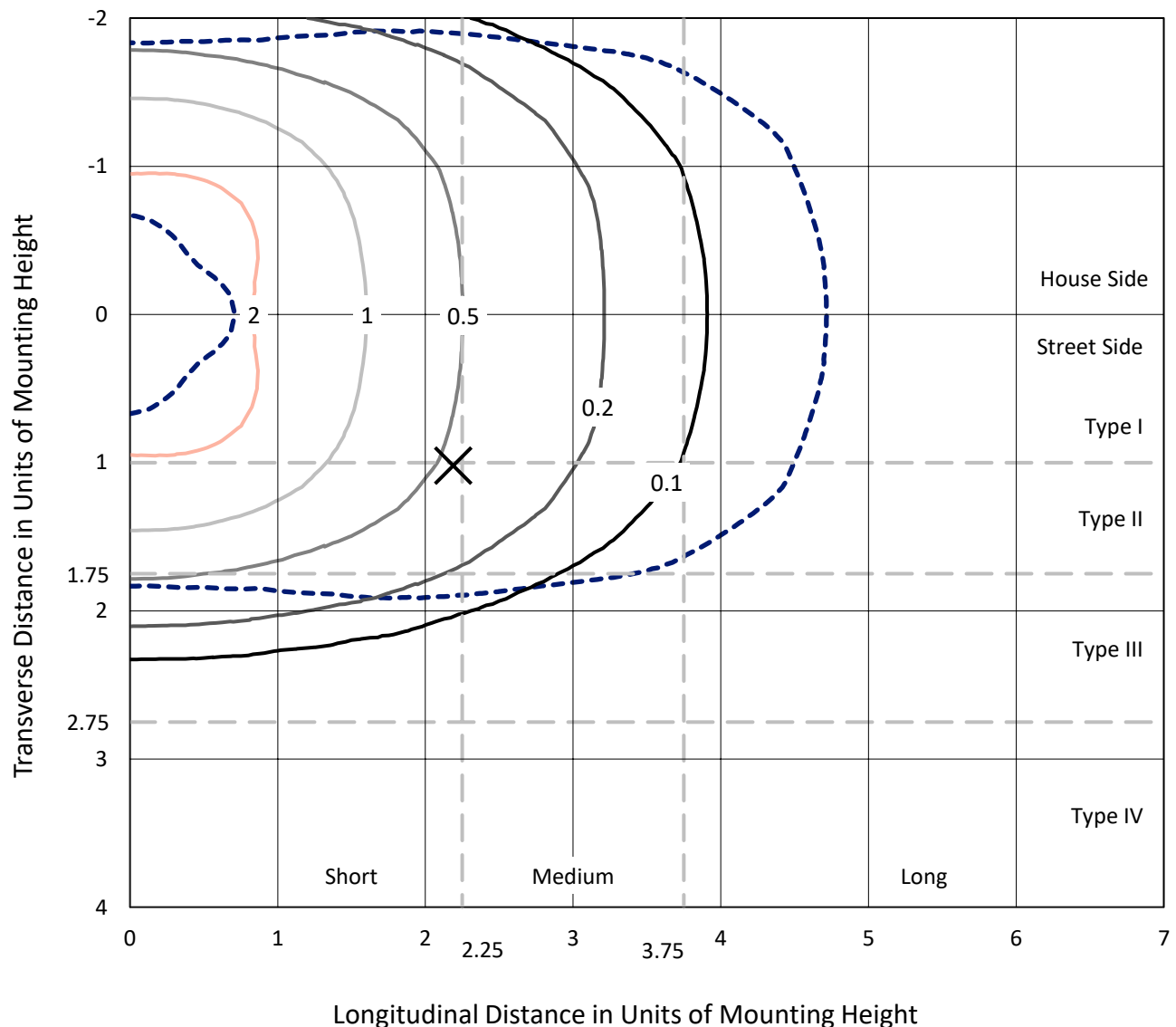


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

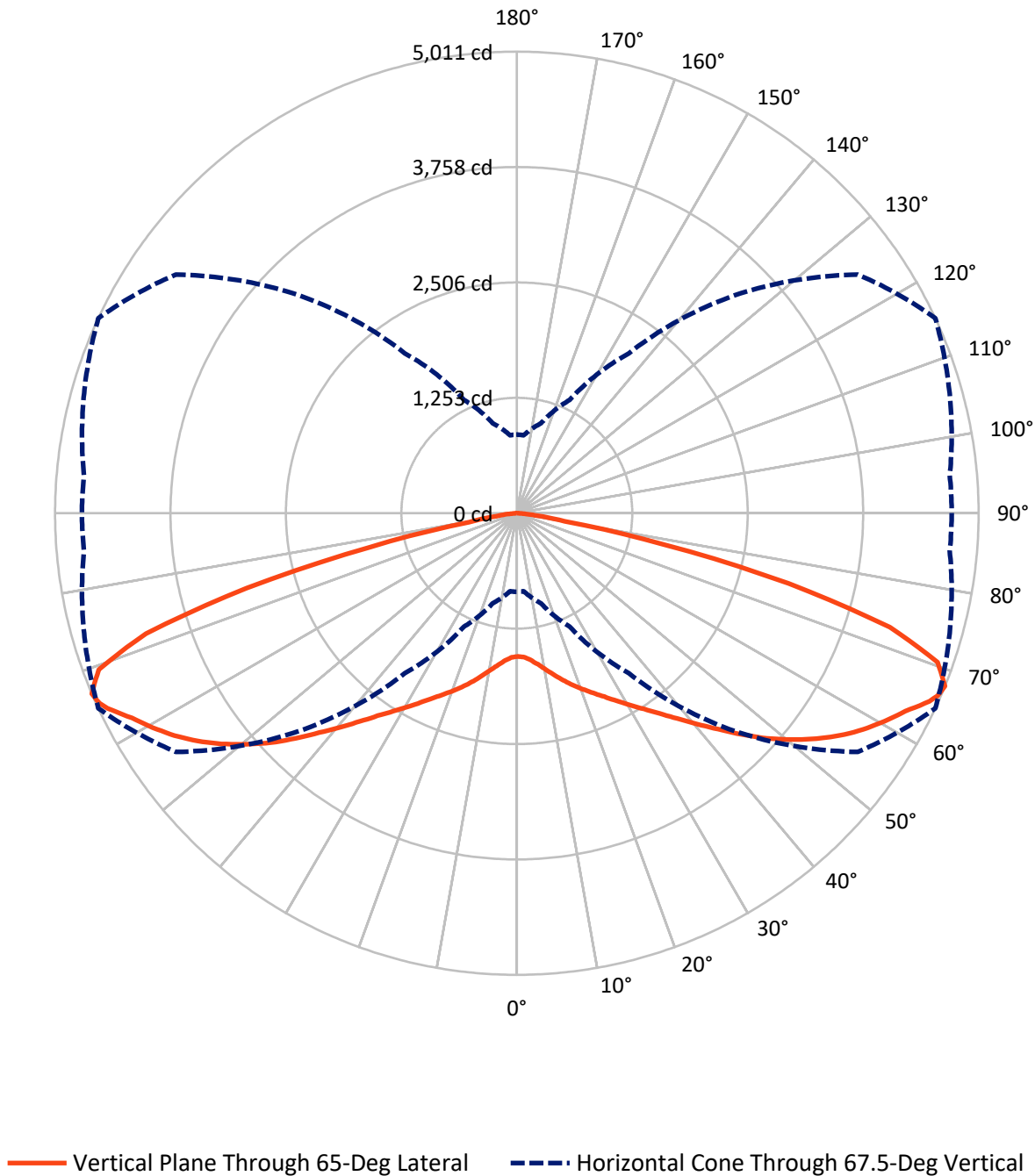


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7416.0	0.0	7416.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7416.0	0.0	7416.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14832.0	0.0	14832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.0
10°-20°	512.8	3.5
20°-30°	1003.1	6.8
30°-40°	1706.1	11.5
40°-50°	2700.3	18.2
50°-60°	3580.5	24.1
60°-70°	3377.5	22.8
70°-80°	1669.7	11.3
80°-90°	128.7	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°	14832.0	100.0
0°-180°	14832.0	100.0

Coefficient of Utilization



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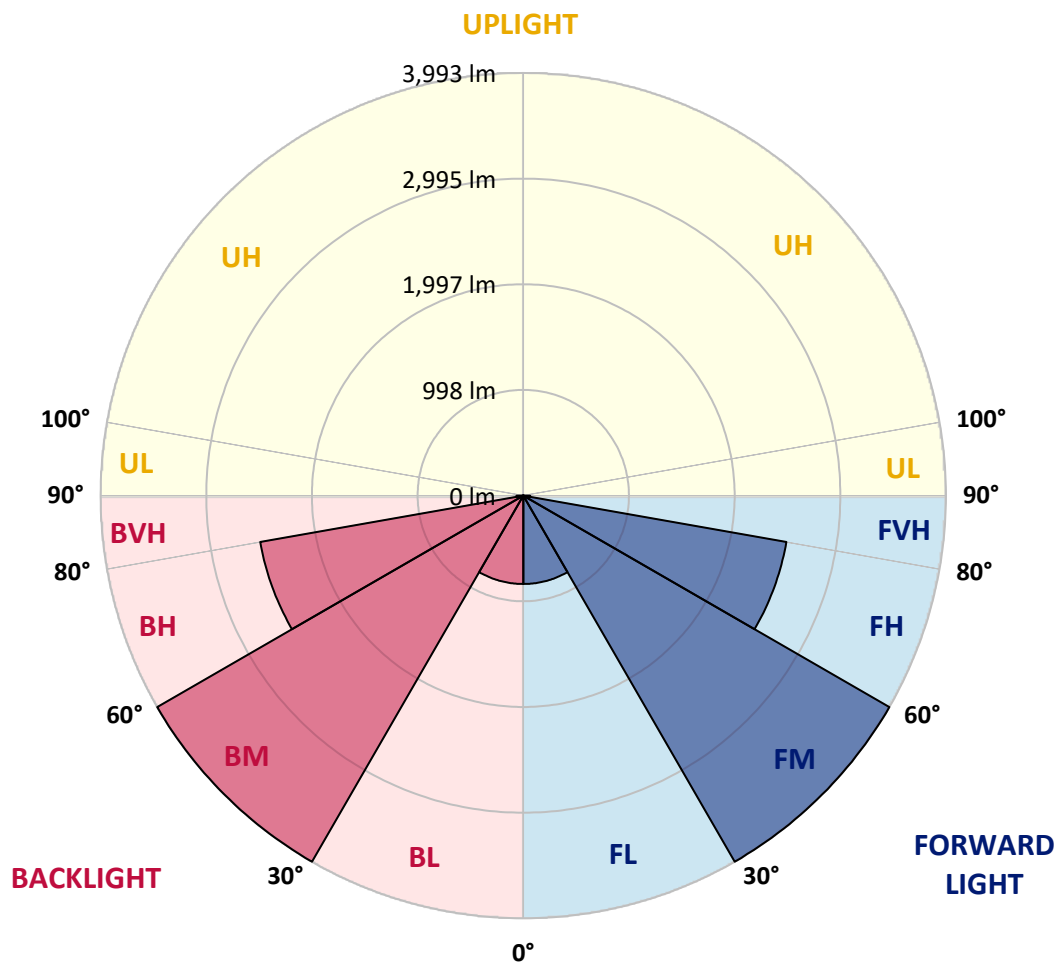
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.6	5.6			
FM	(30°-60°)	3993.5	26.9			
FH	(60°-80°)	2523.6	17.0			G2/5000
FVH	(80°-90°)	64.3	0.4			G1/100
BL	(0°-30°)	834.6	5.6	B2/1000		
BM	(30°-60°)	3993.5	26.9	B3/5000		
BH	(60°-80°)	2523.6	17.0	B4/5000		G4/5000
BVH	(80°-90°)	64.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5
2.5°	1545.6	1547.2	1548.8	1551.1	1554.3	1559.1	1562.3	1564.6	1571.0	1571.8	1571.0
5°	1540.0	1541.6	1545.6	1552.7	1563.1	1577.4	1588.5	1602.0	1612.3	1619.5	1617.9
7.5°	1539.2	1542.4	1548.8	1563.9	1583.7	1608.4	1633.8	1656.8	1676.7	1692.6	1690.2
10°	1551.9	1555.9	1566.2	1588.5	1619.5	1655.2	1691.0	1725.2	1753.8	1774.4	1781.6
12.5°	1573.4	1576.6	1595.6	1629.0	1673.5	1718.0	1758.5	1800.7	1840.4	1875.4	1875.4
15°	1610.7	1616.3	1640.1	1688.6	1743.4	1795.1	1836.4	1880.9	1923.8	1963.6	1975.5
17.5°	1662.4	1670.3	1706.1	1768.1	1838.0	1885.7	1924.6	1961.2	1998.5	2036.7	2042.2
20°	1733.1	1741.1	1788.7	1863.4	1946.1	2003.3	2029.5	2038.3	2056.5	2093.1	2097.8
22.5°	1829.3	1837.2	1890.4	1974.7	2066.9	2128.8	2140.0	2119.3	2114.5	2143.1	2146.3
25°	1938.1	1945.3	2006.5	2097.1	2192.4	2260.0	2256.8	2205.9	2177.3	2194.8	2199.6
27.5°	2060.5	2070.8	2132.8	2226.6	2329.9	2389.5	2379.9	2306.0	2244.9	2241.7	2243.3
30°	2217.0	2228.2	2287.0	2376.8	2478.5	2533.3	2513.4	2414.1	2319.6	2287.8	2287.8
32.5°	2382.3	2410.1	2469.7	2563.5	2643.0	2682.7	2652.5	2533.3	2407.8	2363.3	2360.9
35°	2597.7	2612.8	2671.6	2763.0	2822.6	2853.6	2795.5	2667.6	2523.0	2470.5	2463.4
37.5°	2808.3	2821.0	2889.3	2976.7	3049.0	3047.4	2968.8	2827.3	2666.0	2607.2	2602.4
40°	3023.6	3037.1	3115.0	3195.2	3267.6	3261.2	3165.8	3007.7	2836.1	2770.1	2782.8
42.5°	3210.3	3225.4	3313.6	3428.1	3493.2	3491.6	3381.2	3203.2	3024.4	2965.6	2976.7
45°	3380.4	3393.9	3496.4	3627.5	3722.9	3734.8	3614.0	3425.7	3242.1	3166.6	3169.8
47.5°	3500.4	3525.8	3633.1	3783.3	3912.8	3954.9	3836.5	3652.2	3440.8	3362.1	3366.9
50°	3591.8	3607.7	3724.5	3895.3	4059.0	4146.4	4051.1	3862.0	3639.5	3556.0	3567.1
52.5°	3602.9	3622.0	3749.1	3946.2	4156.0	4288.7	4241.8	4067.0	3842.1	3756.3	3780.1
55°	3512.3	3523.4	3675.2	3914.4	4194.1	4394.4	4406.3	4257.7	4035.2	3970.0	3985.9
57.5°	3254.1	3282.7	3475.0	3765.8	4141.7	4450.8	4529.4	4430.9	4230.7	4166.3	4191.7
60°	2830.5	2859.1	3052.2	3420.9	3943.8	4424.6	4631.2	4584.3	4407.9	4356.2	4369.7
62.5°	2217.8	2215.5	2454.6	2906.8	3550.5	4295.8	4706.7	4732.1	4582.7	4517.5	4538.2
65°	1437.5	1444.7	1675.9	2163.0	2956.9	3968.4	4723.3	4920.4	4754.3	4655.8	4670.9
66°	1156.2	1177.7	1373.9	1822.9	2654.1	3753.9	4673.3	4976.0	4806.8	4687.6	4694.7
67.5°	853.4	849.5	1010.8	1357.2	2119.3	3346.2	4516.7	5011.0	4866.4	4716.2	4719.4
70°	487.1	486.3	543.5	745.4	1246.0	2356.1	3807.1	4843.3	4987.2	4819.5	4810.8
72.5°	356.0	353.6	361.6	411.6	607.9	1189.6	2626.3	4233.0	4925.2	4802.8	4778.2
75°	298.8	297.2	295.6	302.0	340.9	538.8	1393.8	3045.1	4273.6	4508.0	4482.6
77.5°	244.0	244.0	244.7	243.2	244.7	283.7	577.7	1632.2	2602.4	2905.2	2975.9
80°	190.7	189.9	203.4	197.9	185.2	182.0	255.9	525.3	863.8	859.0	708.8
82.5°	140.7	131.1	155.0	151.0	136.7	116.0	149.4	224.1	288.5	187.5	139.1
85°	89.0	88.2	109.7	100.1	83.4	54.8	71.5	96.2	119.2	72.3	58.8
87.5°	15.9	15.1	35.0	25.4	25.4	15.9	19.9	26.2	38.9	27.0	19.9
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)