

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: P453008

Luminaire Tested: **GALN-SA4A-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453008
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-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 16998 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

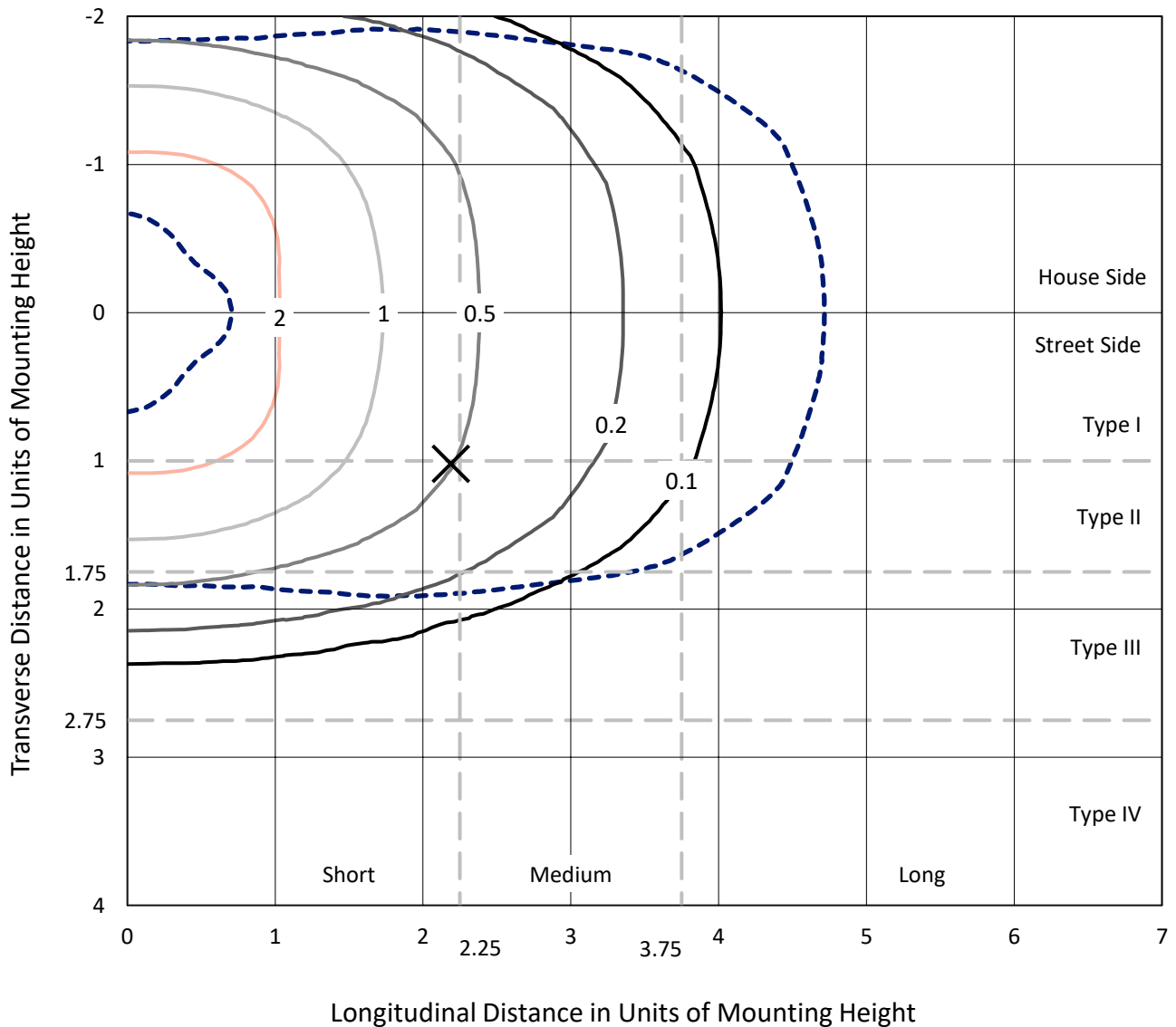
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

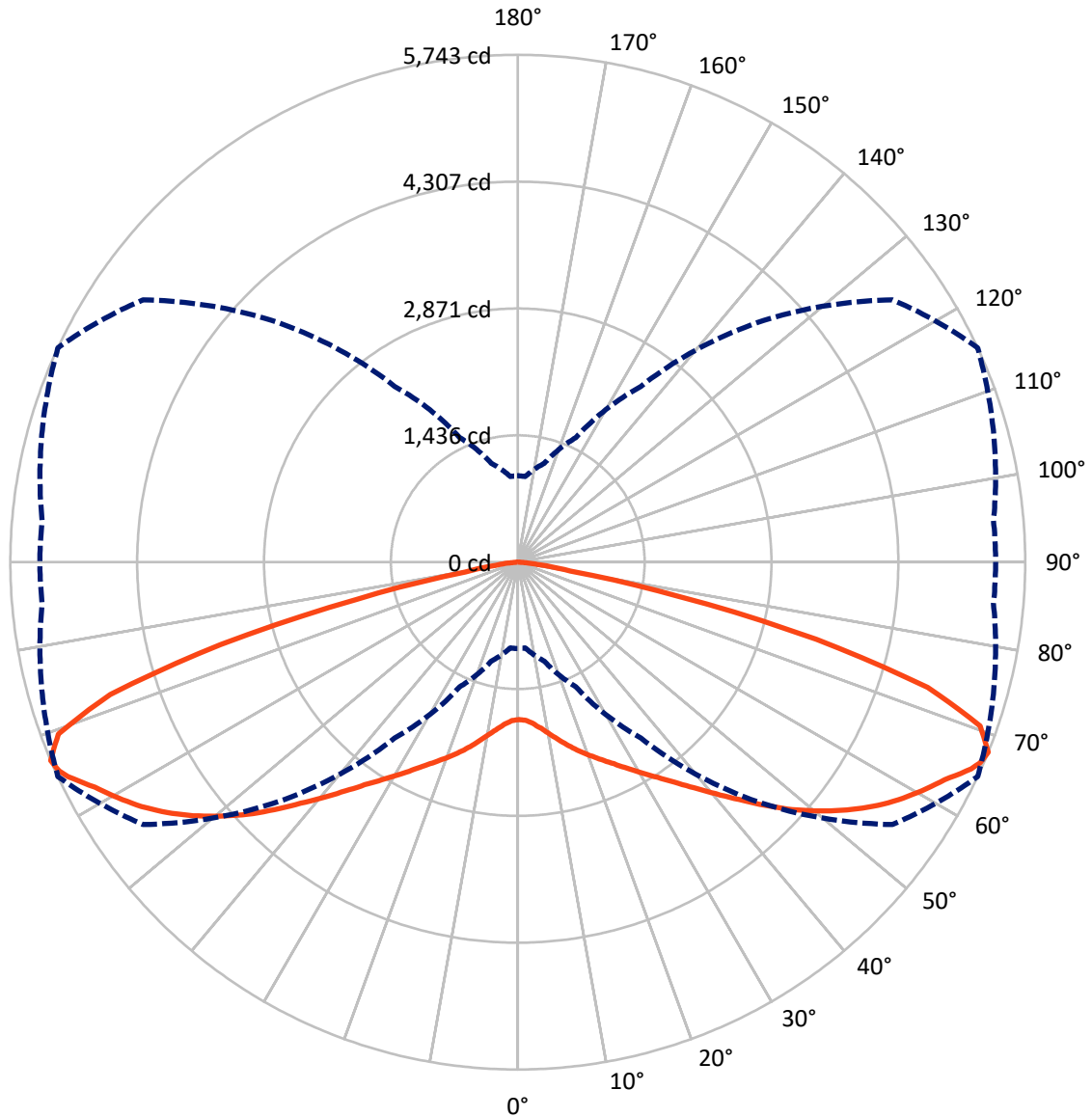
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8499.0	0.0	8499.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8499.0	0.0	8499.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16998.0	0.0	16998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	1.0
10°-20°	587.7	3.5
20°-30°	1149.6	6.8
30°-40°	1955.3	11.5
40°-50°	3094.6	18.2
50°-60°	4103.4	24.1
60°-70°	3870.8	22.8
70°-80°	1913.5	11.3
80°-90°	147.5	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°	16998.0	100.0
0°-180°	16998.0	100.0

Coefficient of Utilization



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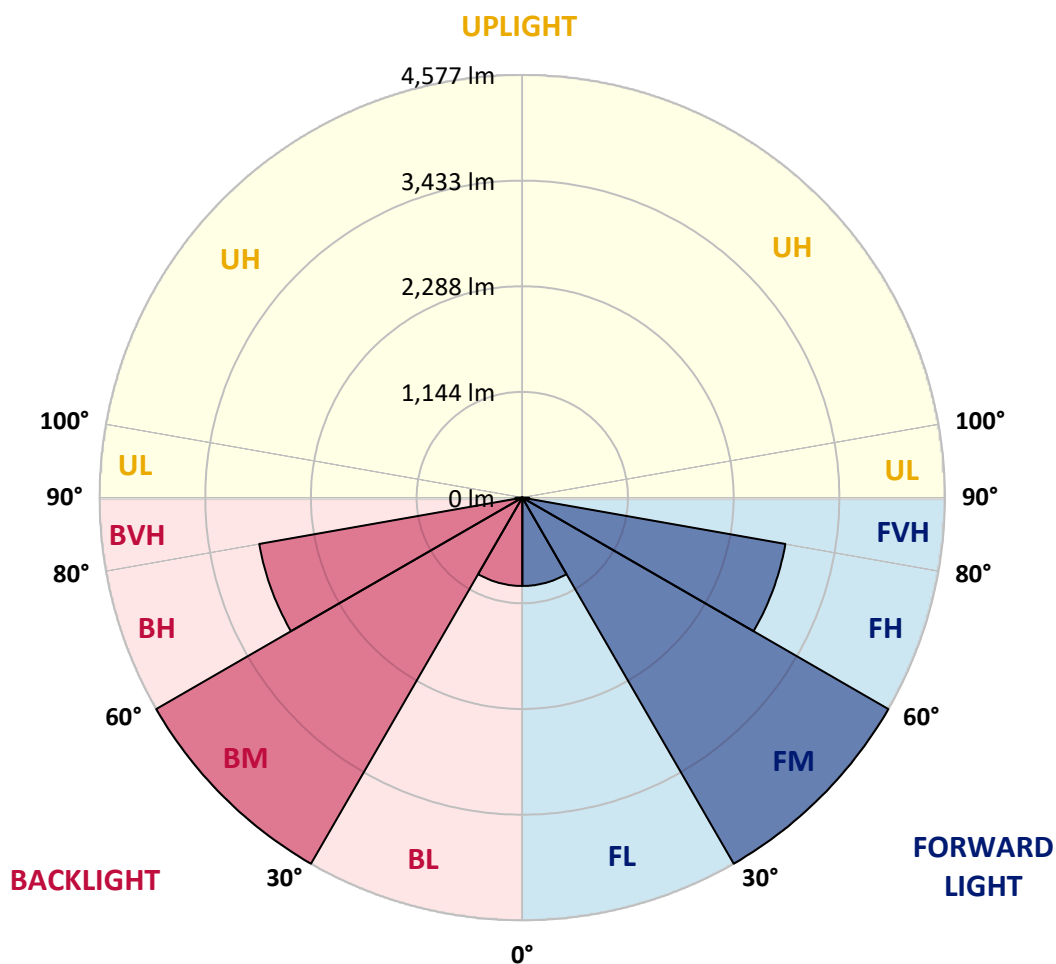
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	956.4	5.6			
FM	(30°-60°)	4576.7	26.9			
FH	(60°-80°)	2892.2	17.0			G2/5000
FVH	(80°-90°)	73.7	0.4			G1/100
BL	(0°-30°)	956.4	5.6	B2/1000		
BM	(30°-60°)	4576.7	26.9	B3/5000		
BH	(60°-80°)	2892.2	17.0	B4/5000		G4/5000
BVH	(80°-90°)	73.7	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°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1771.3	1773.1	1774.9	1777.7	1781.3	1786.8	1790.4	1793.1	1800.4	1801.3	1800.4
5°	1764.9	1766.7	1771.3	1779.5	1791.3	1807.7	1820.5	1835.9	1847.8	1856.0	1854.2
7.5°	1764.0	1767.6	1774.9	1792.2	1815.0	1843.2	1872.4	1898.8	1921.5	1939.8	1937.0
10°	1778.6	1783.1	1795.0	1820.5	1856.0	1897.0	1937.9	1977.1	2009.9	2033.6	2041.8
12.5°	1803.2	1806.8	1828.7	1866.9	1917.9	1968.9	2015.3	2063.6	2109.1	2149.2	2149.2
15°	1846.0	1852.3	1879.7	1935.2	1998.0	2057.2	2104.6	2155.6	2204.8	2250.3	2264.0
17.5°	1905.2	1914.3	1955.2	2026.3	2106.4	2161.1	2205.7	2247.6	2290.4	2334.1	2340.5
20°	1986.2	1995.3	2050.0	2135.6	2230.3	2295.8	2325.9	2335.9	2356.9	2398.7	2404.2
22.5°	2096.4	2105.5	2166.5	2263.1	2368.7	2439.7	2452.5	2428.8	2423.3	2456.1	2459.8
25°	2221.2	2229.4	2299.5	2403.3	2512.6	2590.0	2586.3	2528.1	2495.3	2515.3	2520.8
27.5°	2361.4	2373.2	2444.3	2551.7	2670.1	2738.4	2727.5	2642.8	2572.7	2569.0	2570.9
30°	2540.8	2553.6	2621.0	2723.9	2840.4	2903.3	2880.5	2766.7	2658.3	2621.9	2621.9
32.5°	2730.2	2762.1	2830.4	2937.9	3028.9	3074.5	3039.9	2903.3	2759.4	2708.4	2705.6
35°	2977.0	2994.3	3061.7	3166.5	3234.8	3270.3	3203.8	3057.2	2891.4	2831.3	2823.1
37.5°	3218.4	3232.9	3311.3	3411.4	3494.3	3492.5	3402.3	3240.2	3055.4	2988.0	2982.5
40°	3465.2	3480.6	3569.9	3661.9	3744.7	3737.5	3628.2	3446.9	3250.2	3174.7	3189.2
42.5°	3679.2	3696.5	3797.6	3928.7	4003.4	4001.6	3875.0	3671.0	3466.1	3398.7	3411.4
45°	3874.1	3889.5	4007.0	4157.3	4266.6	4280.2	4141.8	3926.0	3715.6	3629.1	3632.7
47.5°	4011.6	4040.7	4163.7	4335.8	4484.2	4532.5	4396.8	4185.5	3943.3	3853.1	3858.6
50°	4116.3	4134.5	4268.4	4464.2	4651.8	4752.0	4642.7	4425.9	4170.9	4075.3	4088.1
52.5°	4129.0	4150.9	4296.6	4522.5	4762.9	4915.0	4861.2	4660.9	4403.2	4304.8	4332.1
55°	4025.2	4038.0	4211.9	4486.0	4806.6	5036.1	5049.8	4879.5	4624.5	4549.8	4568.0
57.5°	3729.3	3762.0	3982.4	4315.7	4746.5	5100.8	5190.9	5078.0	4848.5	4774.7	4803.9
60°	3243.9	3276.6	3497.9	3920.5	4519.7	5070.7	5307.5	5253.7	5051.6	4992.4	5007.9
62.5°	2541.7	2539.0	2813.1	3331.3	4068.9	4923.2	5394.0	5423.1	5251.9	5177.2	5200.9
65°	1647.4	1655.6	1920.6	2478.9	3388.7	4548.0	5413.1	5639.0	5448.6	5335.7	5353.0
66°	1325.0	1349.6	1574.6	2089.1	3041.7	4302.1	5355.7	5702.7	5508.7	5372.1	5380.3
67.5°	978.1	973.5	1158.4	1555.5	2428.8	3834.9	5176.3	5742.8	5577.0	5404.9	5408.6
70°	558.3	557.3	622.9	854.2	1428.0	2700.2	4363.1	5550.6	5715.5	5523.3	5513.3
72.5°	408.0	405.3	414.4	471.7	696.7	1363.3	3009.8	4851.2	5644.4	5504.2	5476.0
75°	342.4	340.6	338.8	346.1	390.7	617.4	1597.3	3489.7	4897.7	5166.3	5137.2
77.5°	279.6	279.6	280.5	278.7	280.5	325.1	662.1	1870.5	2982.5	3329.5	3410.5
80°	218.6	217.7	233.1	226.8	212.2	208.5	293.2	602.0	989.9	984.5	812.3
82.5°	161.2	150.3	177.6	173.0	156.6	133.0	171.2	256.8	330.6	214.9	159.4
85°	102.0	101.1	125.7	114.7	95.6	62.8	82.0	110.2	136.6	82.9	67.4
87.5°	18.2	17.3	40.1	29.1	29.1	18.2	22.8	30.1	44.6	31.0	22.8
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)