

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: P529036

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12597 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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



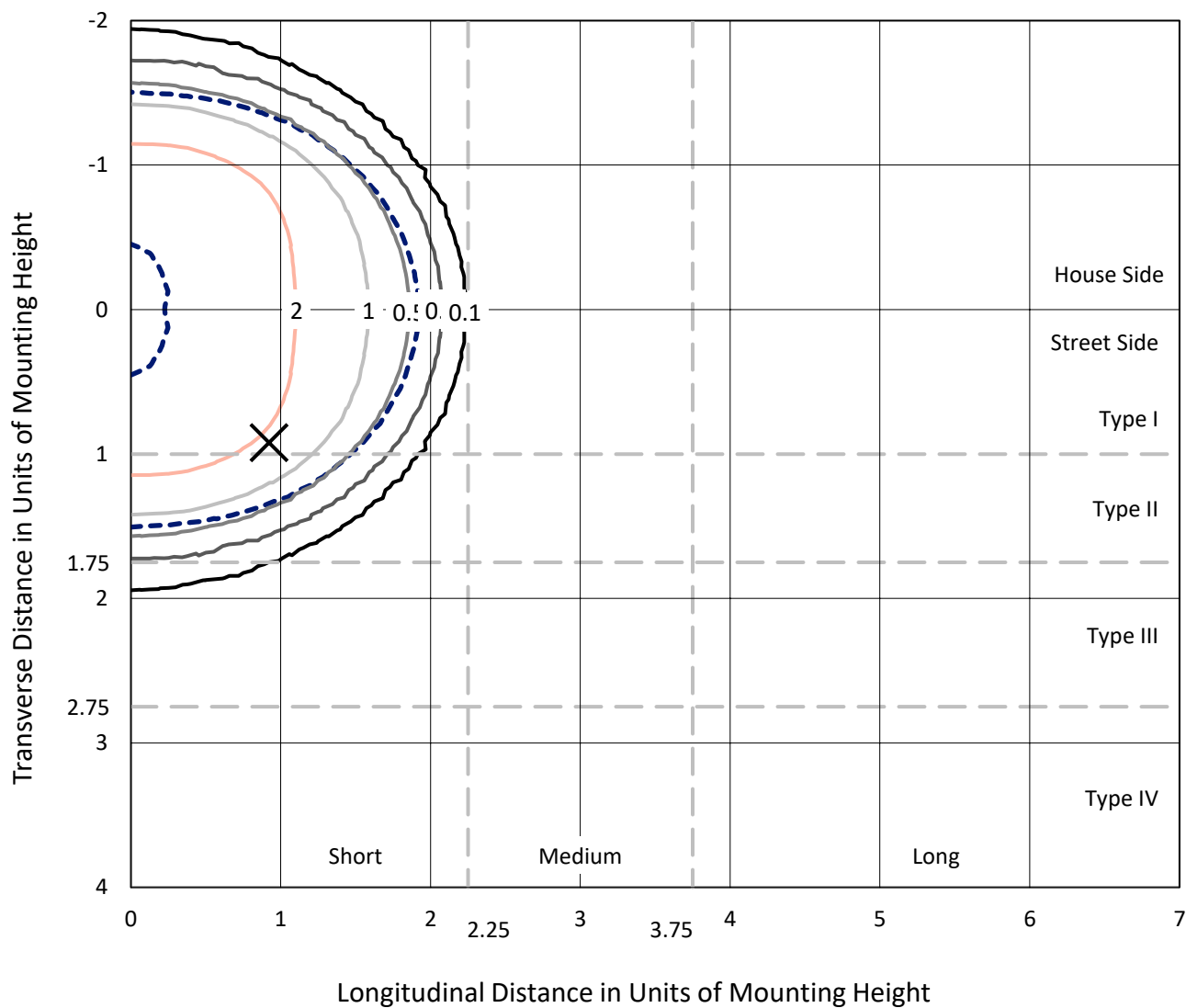
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

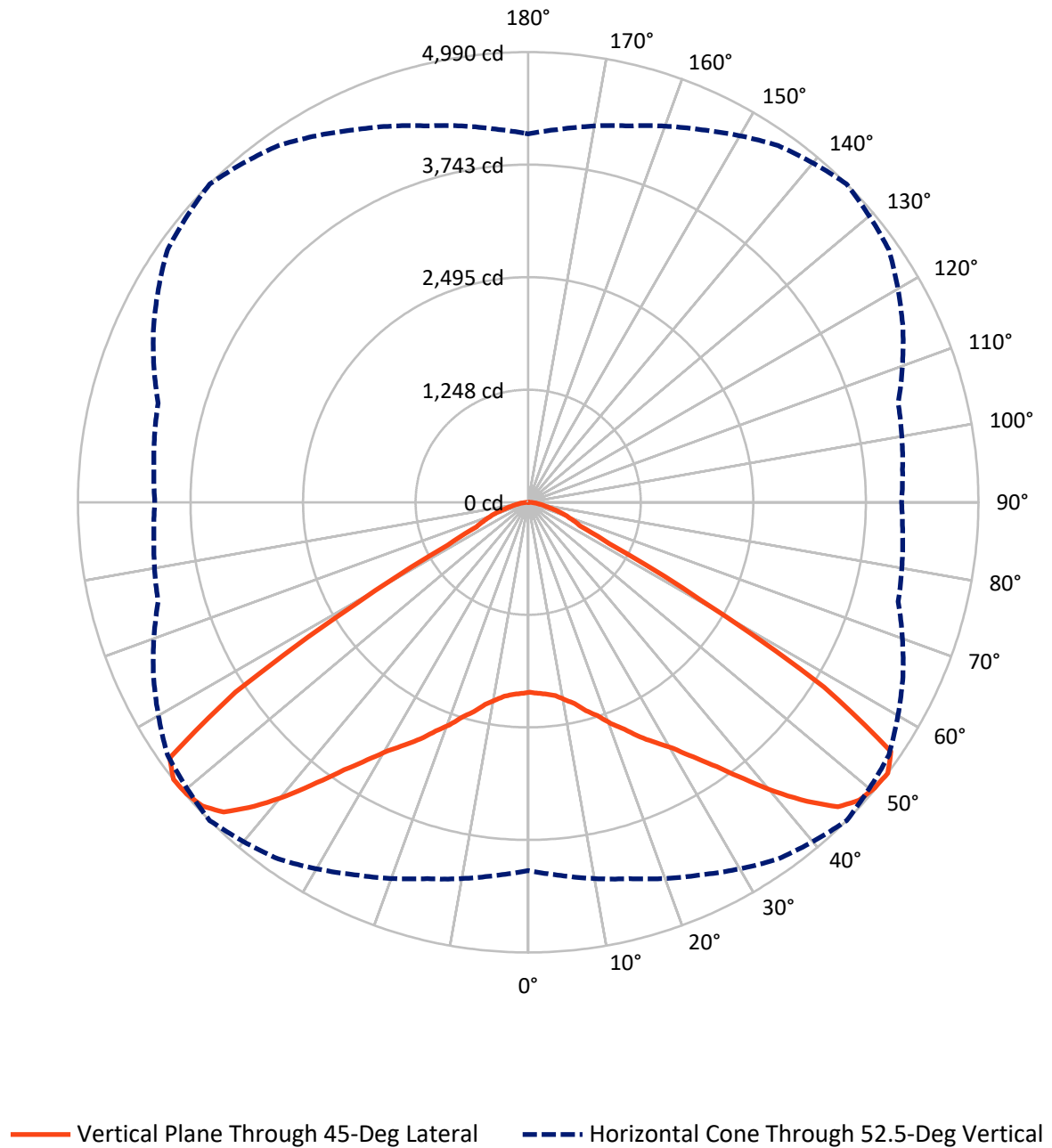


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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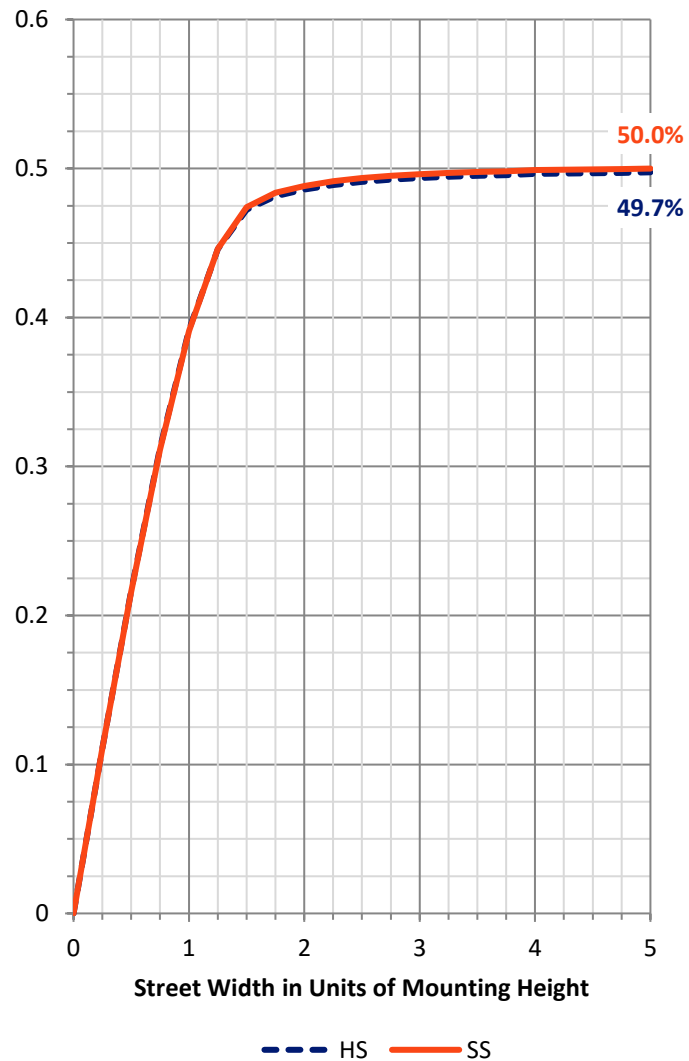
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6298.5	0.0	6298.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6298.5	0.0	6298.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12597.0	0.0	12597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.6
10°-20°	679.8	5.4
20°-30°	1294.3	10.3
30°-40°	2222.3	17.6
40°-50°	3415.8	27.1
50°-60°	3468.7	27.5
60°-70°	966.7	7.7
70°-80°	285.2	2.3
80°-90°	57.4	0.5
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°	12597.0	100.0
0°-180°	12597.0	100.0

Coefficient of Utilization



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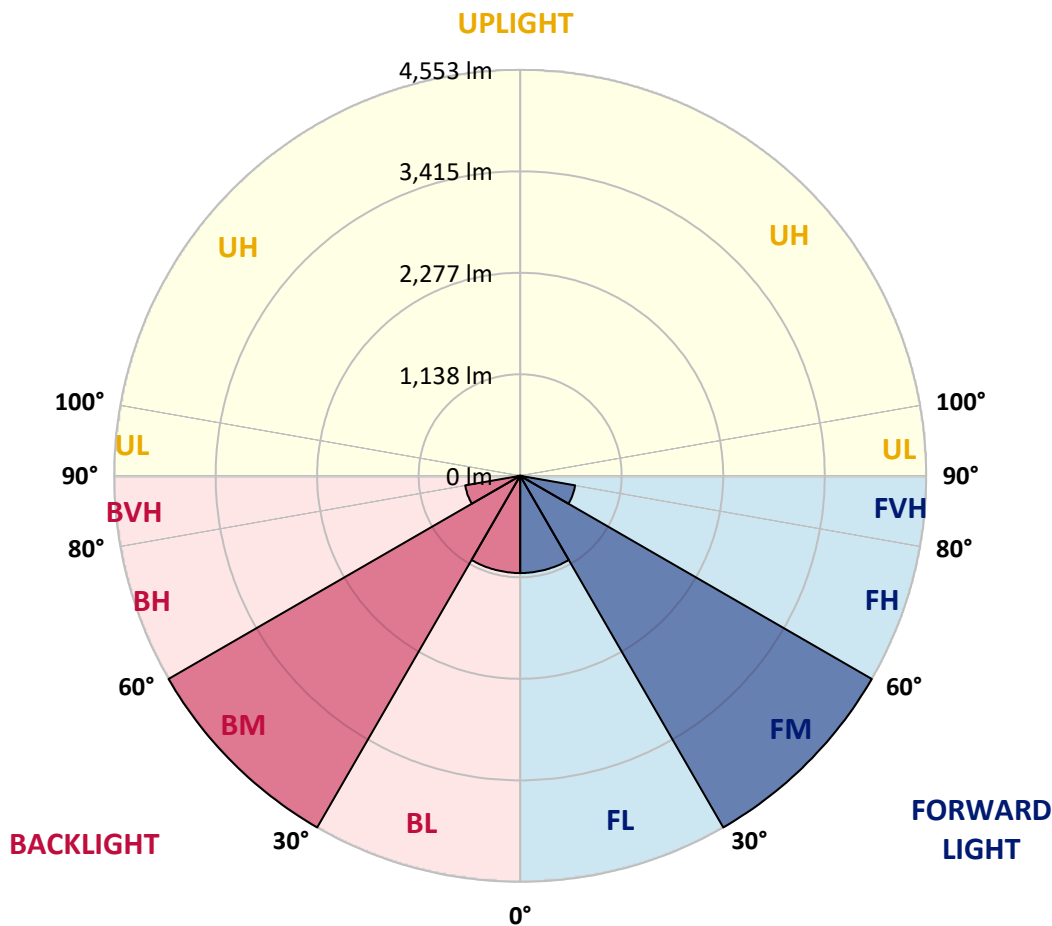
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1090.5	8.7			
FM	(30°-60°)	4553.4	36.1			
FH	(60°-80°)	625.9	5.0			G0/660
FVH	(80°-90°)	28.7	0.2			G1/100
BL	(0°-30°)	1090.5	8.7	B3/2500		
BM	(30°-60°)	4553.4	36.1	B3/5000		
BH	(60°-80°)	625.9	5.0	B2/1000		G0/660
BVH	(80°-90°)	28.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8
2.5°	2110.4	2088.6	2096.4	2101.1	2121.4	2119.8	2115.1	2121.4	2127.6	2129.2	2126.1
5°	2108.9	2093.2	2099.5	2104.2	2124.5	2135.5	2132.3	2158.9	2177.7	2173.0	2196.4
7.5°	2096.4	2105.8	2097.9	2121.4	2138.6	2165.2	2193.3	2218.3	2241.8	2268.3	2273.0
10°	2124.5	2124.5	2138.6	2157.3	2202.7	2223.0	2263.6	2299.6	2344.9	2376.2	2363.7
12.5°	2154.2	2158.9	2158.9	2207.4	2244.9	2290.2	2327.7	2376.2	2440.3	2477.8	2496.6
15°	2183.9	2187.0	2202.7	2268.3	2324.6	2396.5	2430.9	2474.7	2510.6	2581.0	2582.6
17.5°	2210.5	2227.7	2274.6	2348.1	2418.4	2487.2	2541.9	2587.2	2618.5	2646.7	2640.4
20°	2310.5	2323.1	2371.5	2445.0	2549.7	2617.0	2635.7	2643.5	2663.8	2720.1	2702.9
22.5°	2407.5	2412.2	2457.5	2570.1	2643.5	2732.6	2753.0	2748.3	2756.1	2770.2	2795.2
25°	2507.5	2515.3	2577.9	2673.2	2776.4	2882.7	2899.9	2864.0	2853.0	2868.6	2870.2
27.5°	2635.7	2637.3	2717.0	2799.9	2917.1	3017.2	3043.7	3015.6	2964.0	2976.5	2996.8
30°	2798.3	2787.3	2867.1	2985.9	3109.4	3165.7	3211.0	3196.9	3140.7	3129.7	3112.5
32.5°	2985.9	2989.0	3060.9	3190.7	3272.0	3365.8	3414.2	3390.8	3354.8	3336.1	3347.0
35°	3250.1	3264.2	3312.6	3420.5	3551.8	3598.7	3675.3	3625.3	3531.5	3554.9	3575.2
37.5°	3467.4	3508.0	3598.7	3726.9	3805.1	3891.0	3919.2	3852.0	3783.2	3755.0	3822.2
40°	3800.4	3787.9	3887.9	4016.1	4131.8	4217.8	4181.8	4114.6	3944.2	3945.7	3964.5
42.5°	4086.4	4092.7	4169.3	4322.5	4480.4	4533.5	4419.4	4255.3	4066.1	4045.8	4086.4
45°	4327.2	4352.2	4396.0	4600.8	4755.5	4813.4	4602.3	4408.5	4155.2	4070.8	4138.0
47.5°	4413.2	4453.8	4549.2	4736.8	4890.0	4936.9	4768.0	4489.8	4238.1	4100.5	4136.5
50°	4425.7	4411.6	4567.9	4739.9	4874.3	4976.0	4827.4	4549.2	4217.8	4145.9	4134.9
52.5°	4083.3	4152.1	4319.4	4555.4	4827.4	4990.0	4880.6	4582.0	4245.9	4164.6	4138.0
55°	3304.8	3223.5	3528.4	3925.4	4425.7	4877.5	4861.8	4599.2	4263.1	4195.9	4159.9
57.5°	1844.7	1868.1	2040.1	2471.6	3117.2	3867.6	4322.5	4417.9	4255.3	4216.2	4235.0
60°	853.6	861.4	934.8	1136.5	1536.7	2193.3	2792.0	3400.2	3680.0	3736.3	3736.3
62.5°	636.3	633.1	651.9	687.8	772.3	1008.3	1346.0	1829.1	2213.6	2482.5	2552.9
65°	575.3	573.7	583.1	595.6	601.9	634.7	709.7	858.2	983.3	1055.2	1042.7
67.5°	503.4	501.8	504.9	512.8	523.7	540.9	559.7	590.9	634.7	631.6	623.8
70°	406.5	406.5	411.1	417.4	429.9	450.2	472.1	494.0	531.5	539.3	537.8
72.5°	300.2	295.5	304.8	317.3	329.9	354.9	378.3	398.6	425.2	433.0	429.9
75°	190.7	193.8	200.1	214.2	236.1	253.3	278.3	295.5	312.7	318.9	320.5
77.5°	106.3	109.4	120.4	137.6	159.5	178.2	200.1	214.2	225.1	226.7	228.2
80°	64.1	65.7	76.6	92.2	111.0	131.3	148.5	162.6	172.0	167.3	165.7
82.5°	39.1	40.6	50.0	64.1	79.7	95.4	114.1	126.6	136.0	129.8	123.5
85°	20.3	21.9	29.7	39.1	51.6	59.4	59.4	53.2	51.6	48.5	46.9
87.5°	6.3	6.3	7.8	9.4	7.8	9.4	10.9	12.5	12.5	14.1	12.5
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)