

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: P533685

Luminaire Tested: **GALN-SA9A-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15897 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

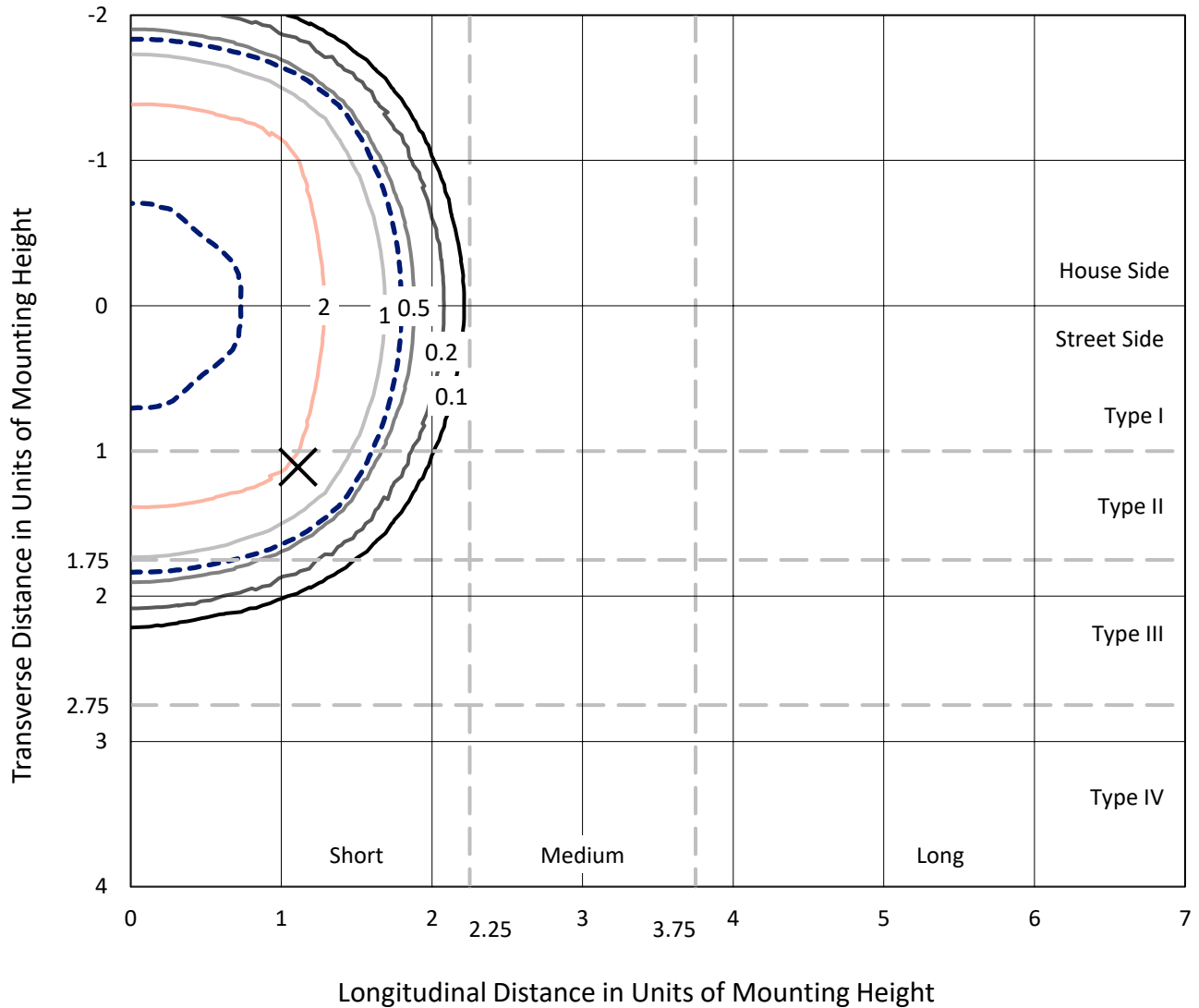
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

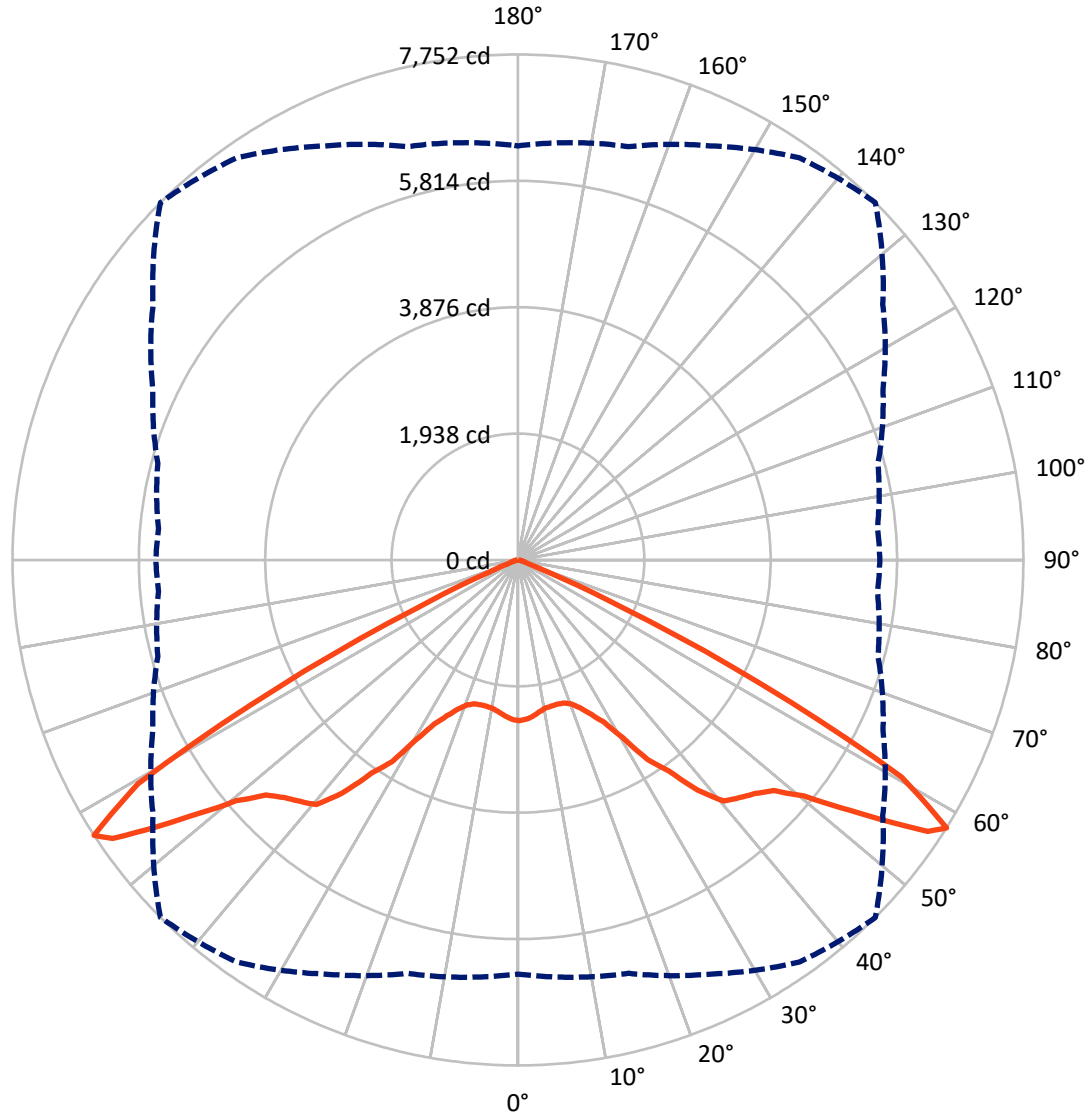
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7948.5	0.0	7948.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7948.5	0.0	7948.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15897.0	0.0	15897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	1.4
10°-20°	655.0	4.1
20°-30°	1209.0	7.6
30°-40°	2377.6	15.0
40°-50°	3872.4	24.4
50°-60°	5522.6	34.7
60°-70°	1912.1	12.0
70°-80°	102.6	0.6
80°-90°	19.3	0.1
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°	15897.0	100.0
0°-180°	15897.0	100.0

Coefficient of Utilization



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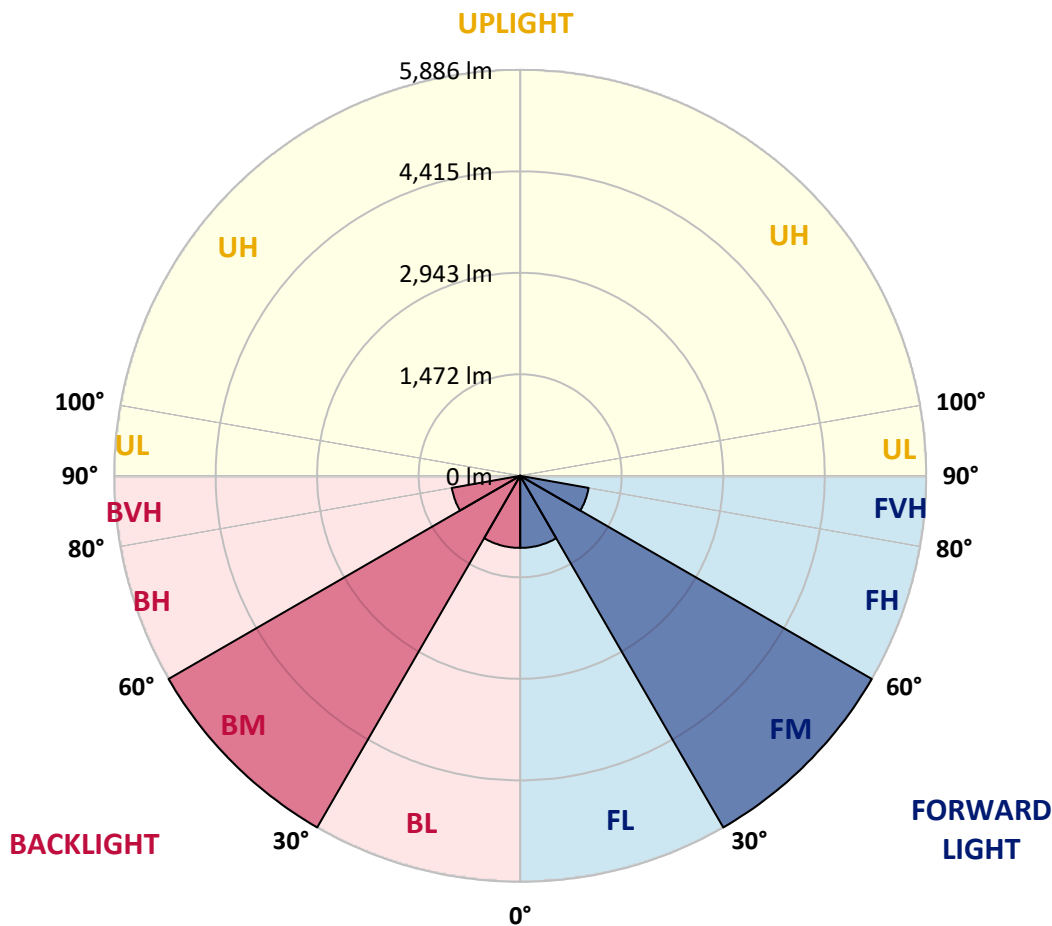
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.3	6.6			
FM (30°-60°)	5886.3	37.0			
FH (60°-80°)	1007.3	6.3			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	1045.3	6.6	B3/2500		
BM (30°-60°)	5886.3	37.0	B4/8500		
BH (60°-80°)	1007.3	6.3	B3/2500		G1/1800
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8
2.5°	2459.2	2472.4	2455.8	2449.2	2445.9	2445.9	2436.0	2436.0	2432.6	2436.0	2422.7
5°	2419.4	2432.6	2432.6	2429.3	2409.4	2406.1	2396.2	2389.6	2392.9	2379.6	2389.6
7.5°	2379.6	2389.6	2376.3	2373.0	2366.4	2353.1	2349.8	2320.0	2323.3	2323.3	2329.9
10°	2373.0	2369.7	2349.8	2333.2	2313.3	2310.0	2300.1	2293.5	2293.5	2290.1	2300.1
12.5°	2373.0	2356.4	2353.1	2316.7	2283.5	2296.8	2270.3	2253.7	2276.9	2283.5	2296.8
15°	2369.7	2386.2	2329.9	2313.3	2290.1	2293.5	2270.3	2253.7	2266.9	2273.6	2283.5
17.5°	2389.6	2379.6	2363.0	2329.9	2320.0	2306.7	2276.9	2263.6	2263.6	2280.2	2283.5
20°	2442.6	2416.1	2382.9	2366.4	2376.3	2359.7	2323.3	2273.6	2286.8	2300.1	2310.0
22.5°	2492.3	2472.4	2449.2	2439.3	2495.6	2469.1	2406.1	2349.8	2329.9	2353.1	2369.7
25°	2588.4	2588.4	2545.3	2558.6	2621.6	2624.9	2552.0	2452.5	2439.3	2449.2	2455.8
27.5°	2784.0	2793.9	2757.4	2770.7	2797.2	2820.4	2757.4	2674.6	2644.8	2641.4	2651.4
30°	2996.1	3016.0	3012.6	3069.0	3145.2	3158.5	3065.7	2929.8	2840.3	2823.7	2837.0
32.5°	3274.5	3284.4	3277.8	3344.1	3549.5	3645.7	3403.7	3211.5	3092.2	3122.0	3092.2
35°	3798.1	3788.2	3715.3	3728.5	3897.5	3967.1	3735.1	3612.5	3556.2	3615.8	3602.6
37.5°	4248.8	4212.4	4152.7	4238.9	4414.6	4477.5	4235.6	4020.2	3917.4	4016.9	4059.9
40°	4630.0	4537.2	4454.3	4540.5	4775.8	4862.0	4507.4	4331.7	4291.9	4364.8	4457.6
42.5°	4951.5	4891.8	4782.4	4789.1	4944.8	4984.6	4699.6	4596.8	4557.1	4673.1	4719.5
45°	5180.2	5123.8	5021.1	5014.4	5133.8	5107.2	4852.0	4782.4	4805.6	4881.9	4905.1
47.5°	5296.1	5326.0	5266.3	5282.9	5345.9	5282.9	5080.7	5080.7	5027.7	5074.1	5050.9
50°	5630.9	5538.1	5614.3	5614.3	5680.6	5687.2	5485.1	5412.1	5269.6	5190.1	5190.1
52.5°	6022.0	6028.6	6058.4	6167.8	6280.5	6376.6	6088.3	5776.7	5538.1	5435.3	5422.1
55°	6343.4	6409.7	6529.0	6734.5	7059.3	7191.9	6694.8	6138.0	5846.3	5687.2	5654.1
56°	6519.1	6456.1	6661.6	6943.3	7367.5	7539.9	6794.2	6210.9	5889.4	5710.4	5707.1
57.5°	6350.1	6419.7	6562.2	7006.3	7526.6	7752.0	6830.6	6177.7	5717.1	5534.8	5551.3
60°	5014.4	5080.7	5272.9	5770.1	6585.4	6761.0	5780.0	5094.0	4683.0	4421.2	4424.5
62.5°	2837.0	2886.7	3035.8	3496.5	4003.6	4172.6	3602.6	3145.2	2860.2	2714.4	2668.0
65°	1044.0	1024.1	1047.3	1282.6	1594.1	1736.7	1498.0	1266.0	1116.9	1063.9	1044.0
67.5°	391.1	361.3	338.1	361.3	454.1	480.6	440.8	367.9	344.7	354.6	361.3
70°	241.9	228.7	182.3	172.3	169.0	165.7	175.7	185.6	212.1	248.6	255.2
72.5°	169.0	159.1	129.3	122.6	116.0	112.7	129.3	142.5	165.7	192.2	195.5
75°	66.3	69.6	66.3	72.9	76.2	79.5	92.8	102.7	112.7	112.7	109.4
77.5°	13.3	13.3	19.9	26.5	33.1	43.1	63.0	72.9	76.2	72.9	63.0
80°	0.0	0.0	6.6	13.3	26.5	36.5	56.3	63.0	69.6	63.0	49.7
82.5°	0.0	0.0	6.6	16.6	26.5	33.1	53.0	66.3	76.2	69.6	53.0
85°	0.0	0.0	6.6	13.3	19.9	23.2	23.2	16.6	16.6	9.9	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)