

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: P453583

Luminaire Tested: **GALN-SA4C-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21443 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

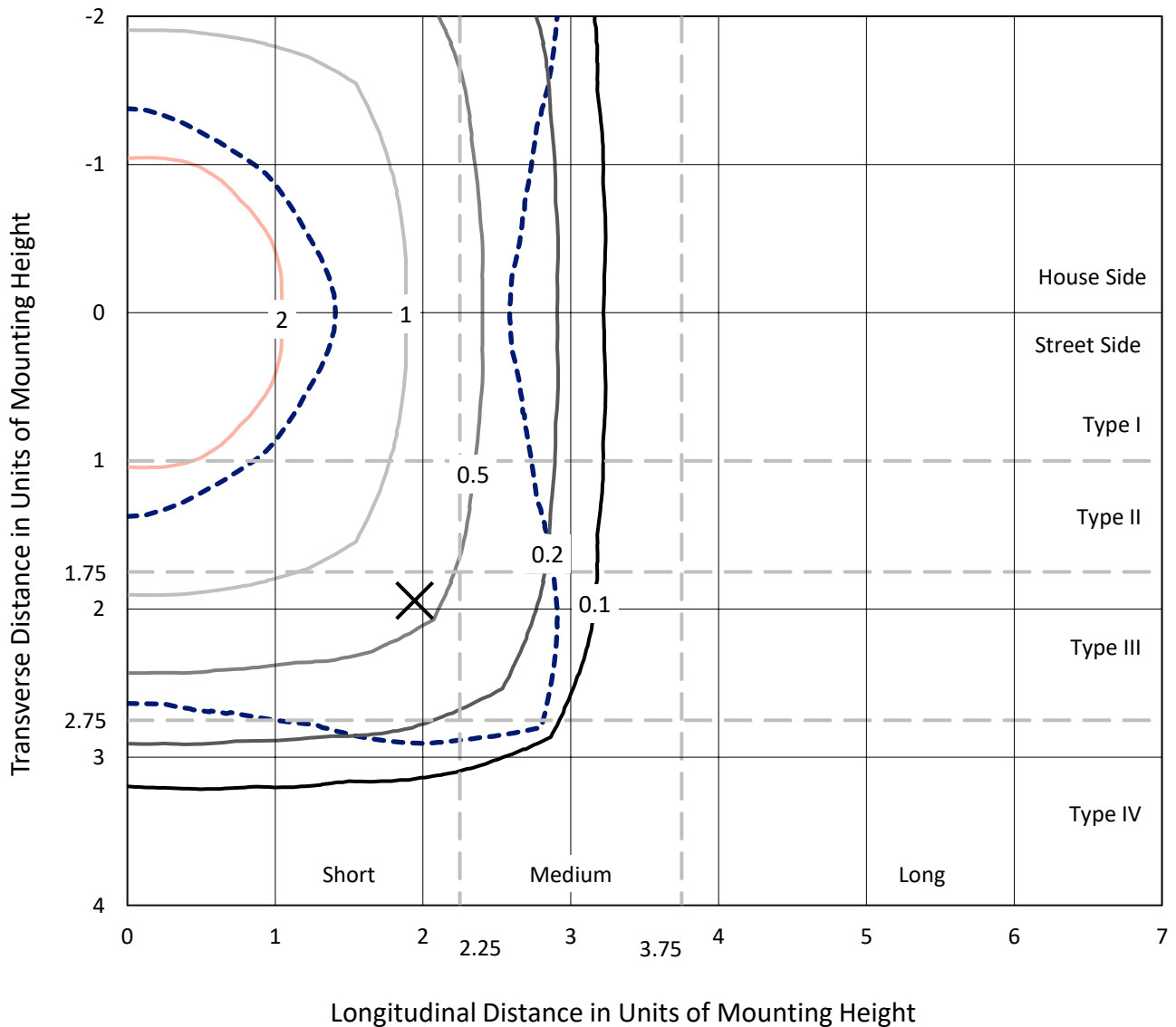
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

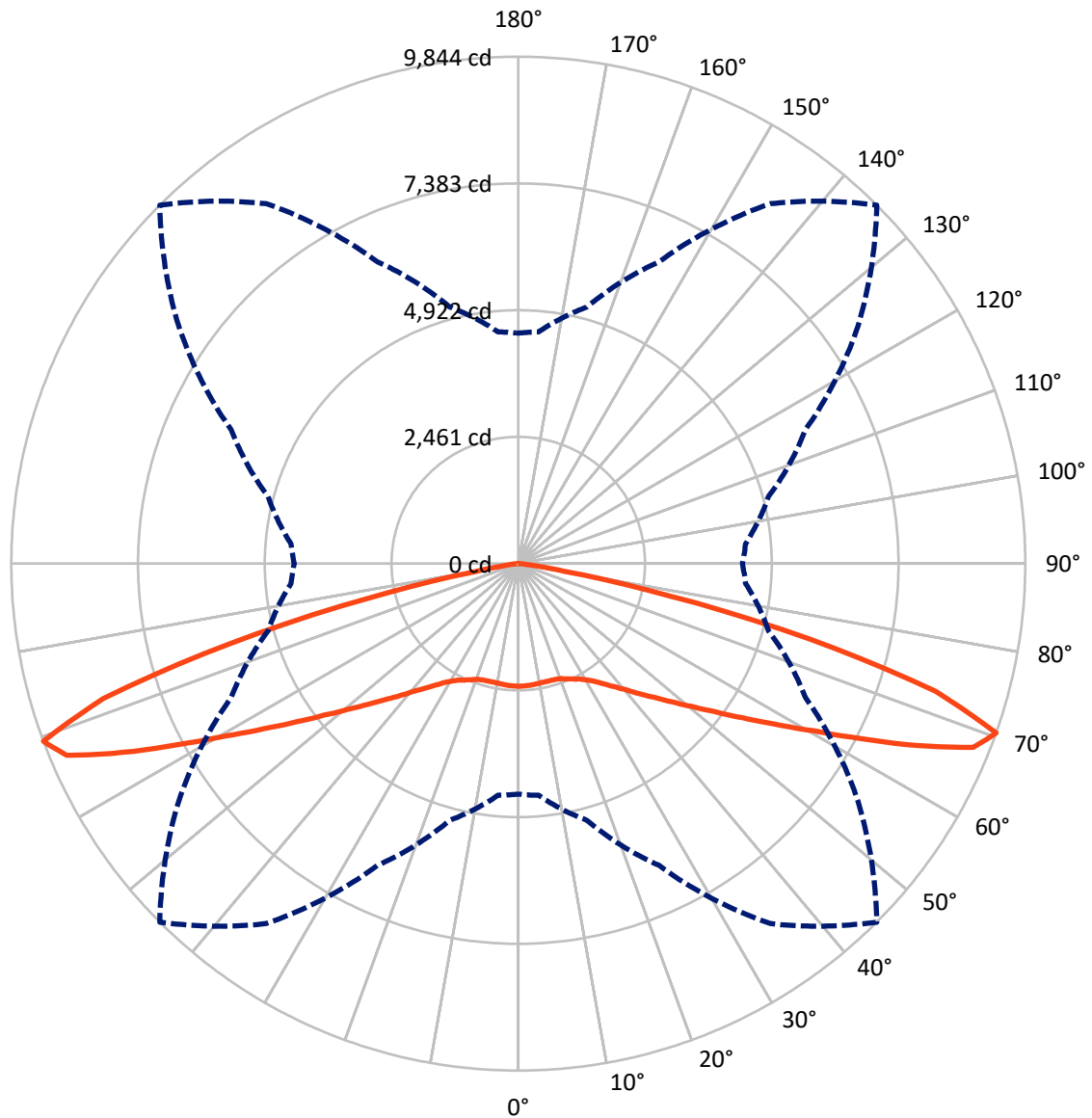
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10721.5	0.0	10721.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10721.5	0.0	10721.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21443.0	0.0	21443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	1.1
10°-20°	662.6	3.1
20°-30°	1133.2	5.3
30°-40°	1798.7	8.4
40°-50°	2901.8	13.5
50°-60°	4721.2	22.0
60°-70°	6844.1	31.9
70°-80°	3035.8	14.2
80°-90°	119.7	0.6
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°	21443.0	100.0
0°-180°	21443.0	100.0

Coefficient of Utilization



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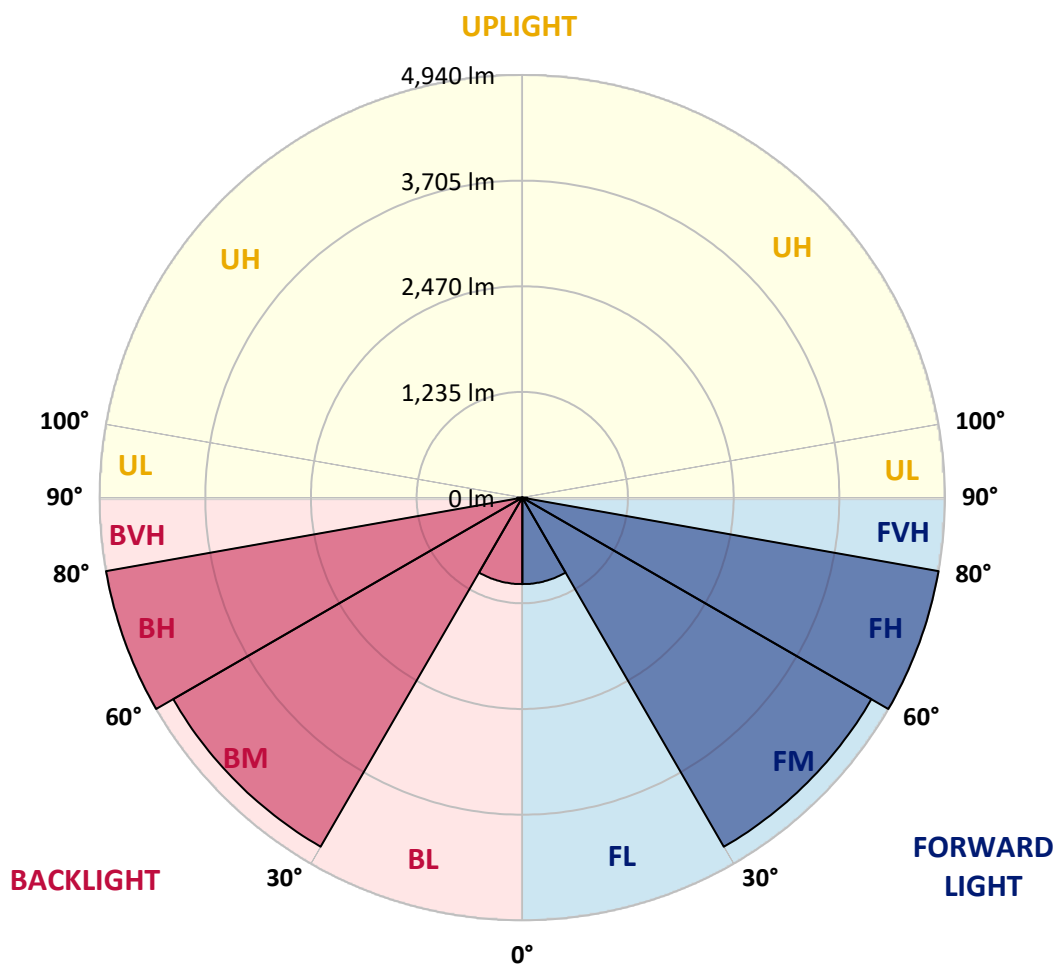
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.8	4.7			
FM	(30°-60°)	4710.9	22.0			
FH	(60°-80°)	4940.0	23.0			G2/5000
FVH	(80°-90°)	59.9	0.3			G1/100
BL	(0°-30°)	1010.8	4.7	B3/2500		
BM	(30°-60°)	4710.9	22.0	B3/5000		
BH	(60°-80°)	4940.0	23.0	B4/5000		G2/5000
BVH	(80°-90°)	59.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2381.1	2383.4	2380.0	2377.8	2376.6	2376.6	2375.5	2376.6	2383.4	2384.5	2381.1
5°	2374.4	2376.6	2375.5	2373.2	2372.1	2372.1	2371.0	2369.8	2375.5	2377.8	2376.6
7.5°	2365.3	2366.5	2365.3	2364.2	2365.3	2364.2	2360.8	2358.5	2363.1	2363.1	2361.9
10°	2349.5	2351.8	2350.6	2351.8	2354.0	2354.0	2349.5	2345.0	2346.1	2343.9	2343.9
12.5°	2330.3	2333.7	2334.8	2339.3	2345.0	2351.8	2341.6	2331.4	2329.2	2328.0	2326.9
15°	2317.9	2321.2	2325.8	2330.3	2340.5	2355.2	2340.5	2324.6	2320.1	2315.6	2313.3
17.5°	2314.5	2319.0	2325.8	2332.5	2346.1	2360.8	2348.4	2332.5	2321.2	2314.5	2312.2
20°	2323.5	2326.9	2337.1	2349.5	2368.7	2383.4	2371.0	2354.0	2337.1	2326.9	2323.5
22.5°	2341.6	2347.2	2359.7	2382.3	2409.4	2430.9	2413.9	2385.7	2358.5	2345.0	2340.5
25°	2381.1	2385.7	2400.4	2430.9	2462.5	2482.9	2464.8	2432.0	2394.7	2376.6	2371.0
27.5°	2441.0	2447.8	2463.6	2499.8	2525.8	2537.1	2524.7	2502.1	2474.9	2455.7	2451.2
30°	2525.8	2533.7	2557.4	2595.9	2612.8	2619.6	2613.9	2599.3	2580.0	2559.7	2555.2
32.5°	2639.9	2644.5	2671.6	2707.7	2723.6	2725.8	2719.0	2712.3	2680.6	2646.7	2644.5
35°	2767.6	2775.6	2808.3	2851.3	2866.0	2867.1	2853.5	2843.4	2806.1	2778.9	2778.9
37.5°	2937.2	2940.5	2972.2	3020.8	3036.6	3032.1	3025.3	3016.3	2976.7	2941.7	2942.8
40°	3136.1	3142.8	3170.0	3226.5	3226.5	3220.8	3225.3	3218.6	3179.0	3145.1	3146.2
42.5°	3372.3	3375.6	3408.4	3468.3	3463.8	3452.5	3457.0	3448.0	3423.1	3384.7	3371.1
45°	3624.3	3637.8	3694.3	3752.0	3742.9	3706.8	3724.8	3722.6	3700.0	3642.3	3645.7
47.5°	3928.3	3950.9	4005.1	4074.1	4063.9	4007.4	4027.7	4041.3	4009.6	3946.3	3935.0
50°	4270.7	4285.4	4365.6	4430.0	4421.0	4361.1	4407.4	4409.7	4330.6	4241.3	4241.3
52.5°	4635.7	4650.4	4758.9	4859.5	4865.1	4778.1	4815.4	4813.1	4684.3	4566.8	4544.2
55°	5044.8	5051.6	5191.7	5339.8	5371.4	5286.7	5291.2	5246.0	5078.7	4942.0	4929.5
57.5°	5467.5	5492.3	5647.2	5839.3	5933.1	5881.1	5857.4	5736.4	5574.8	5417.8	5409.8
60°	5935.3	5936.5	6137.6	6364.8	6554.6	6589.7	6492.5	6330.9	6121.8	5913.9	5904.8
62.5°	6259.7	6308.3	6562.6	6946.8	7287.0	7483.6	7227.1	6888.0	6476.7	6141.0	6107.1
65°	6326.4	6359.1	6746.8	7397.7	8092.7	8516.5	7923.2	7202.2	6500.4	6052.9	6030.3
67.5°	5787.3	5822.3	6344.4	7343.5	8657.8	9526.8	8375.3	7050.8	6098.1	5544.3	5500.3
70°	4476.4	4515.9	5161.2	6464.2	8532.3	9844.4	8053.2	6150.1	5029.0	4431.2	4350.9
72.5°	2380.0	2525.8	3077.3	4436.8	6925.3	8475.8	6603.2	4487.7	3243.4	2651.2	2545.0
75°	869.1	887.1	1194.5	1967.5	4028.8	5812.2	4183.7	2140.4	1230.7	950.4	901.8
77.5°	359.4	358.2	393.3	594.4	1463.5	2976.7	1633.0	628.3	392.1	362.8	358.2
80°	212.5	212.5	233.9	247.5	385.4	898.4	430.6	280.3	235.1	214.7	218.1
82.5°	94.9	100.6	148.0	156.0	186.5	246.4	207.9	178.6	153.7	106.2	96.1
85°	52.0	45.2	78.0	81.4	89.3	91.5	98.3	97.2	89.3	52.0	53.1
87.5°	10.2	12.4	22.6	17.0	19.2	17.0	22.6	31.6	32.8	18.1	14.7
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)