

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: P529471

Luminaire Tested: **GALN-SA4C-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14045 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

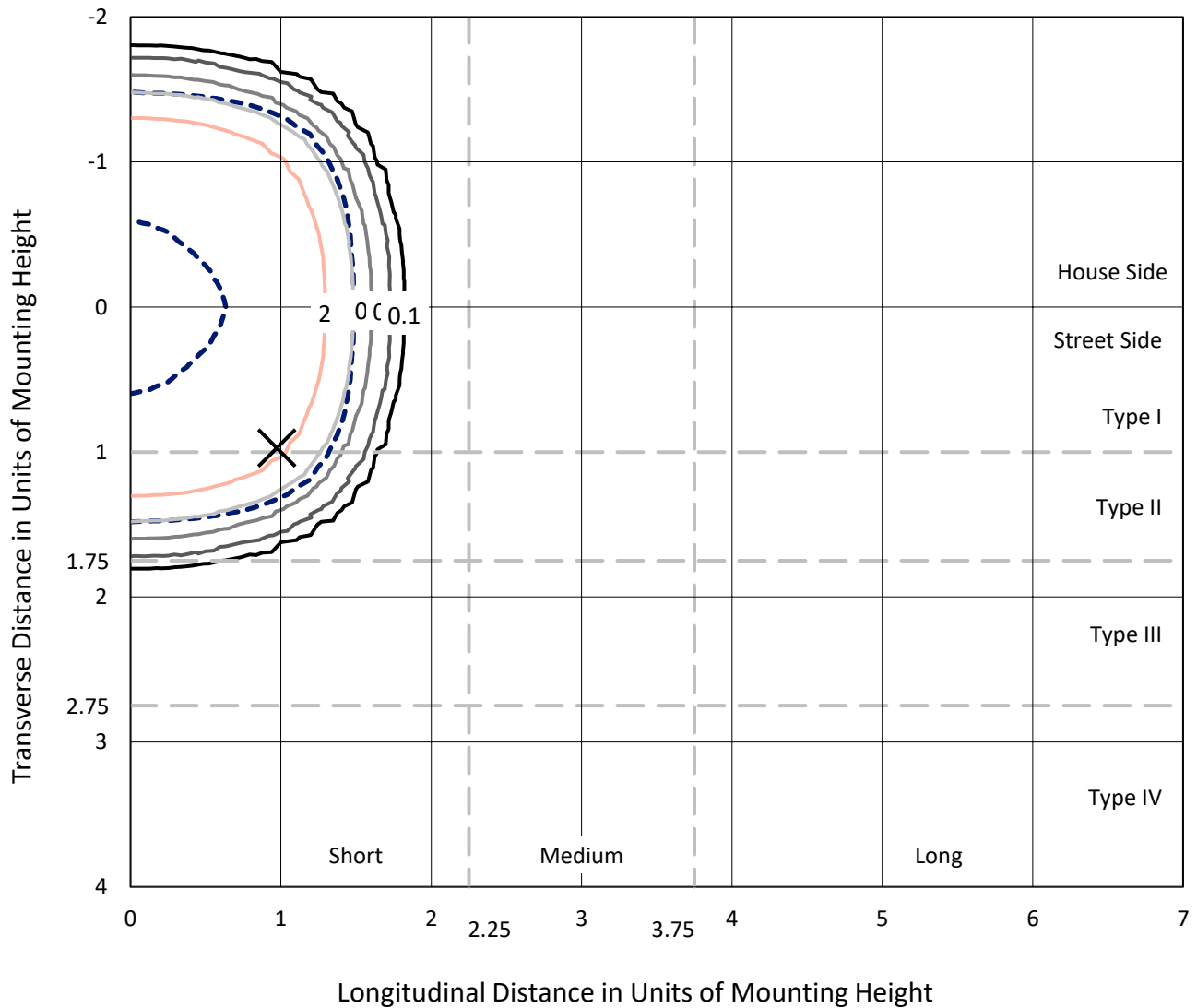
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529471
 CATALOG NUMBER: GALN-SA4C-827-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

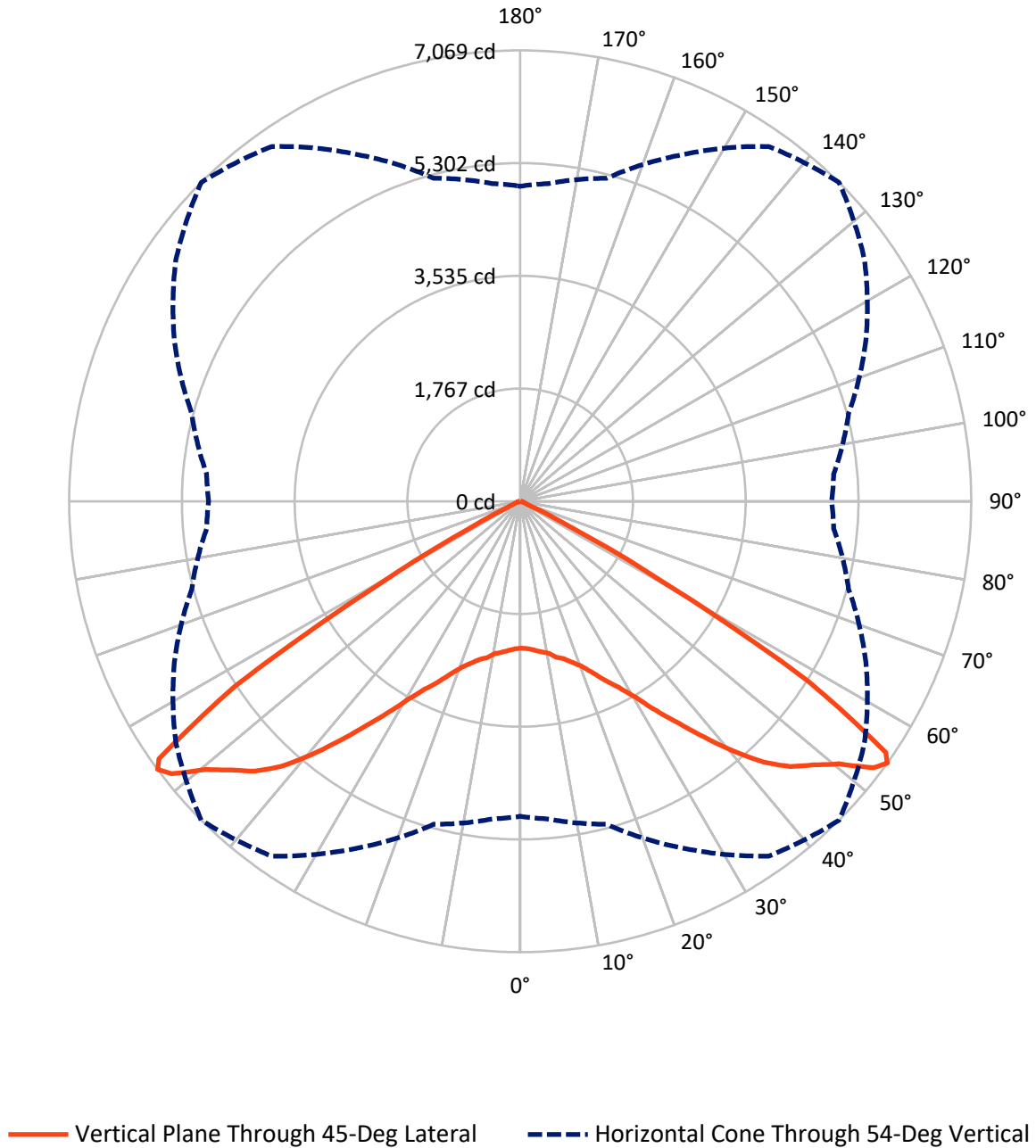
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529471
CATALOG NUMBER: GALN-SA4C-827-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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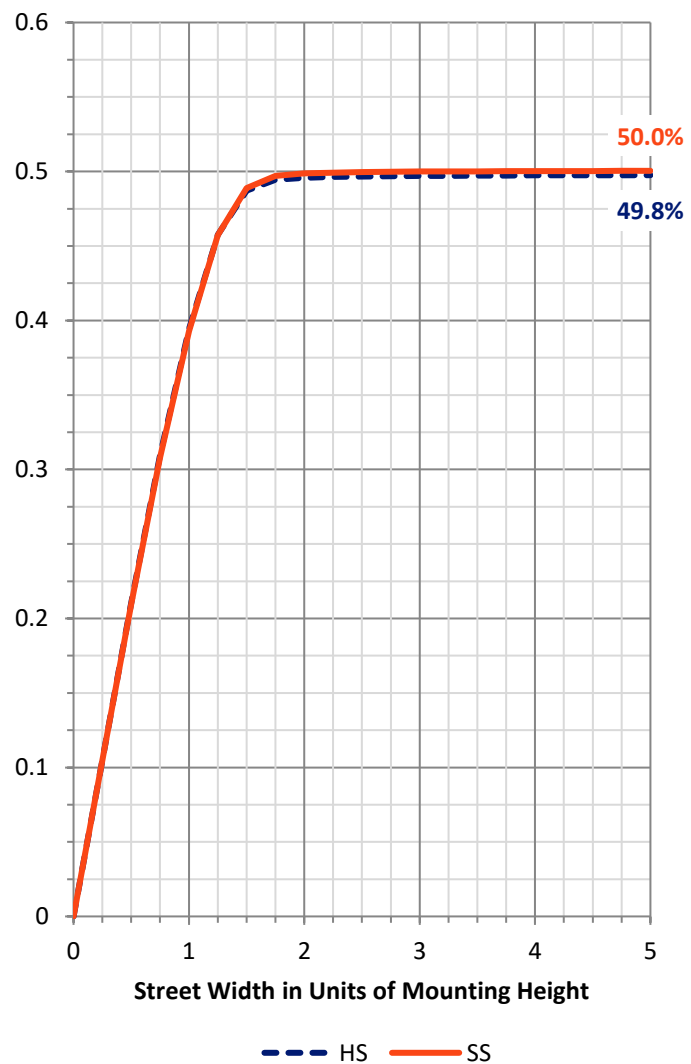
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7022.5	0.0	7022.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7022.5	0.0	7022.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14045.0	0.0	14045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	1.6
10°-20°	729.9	5.2
20°-30°	1430.6	10.2
30°-40°	2572.6	18.3
40°-50°	4403.8	31.4
50°-60°	4261.1	30.3
60°-70°	364.8	2.6
70°-80°	43.2	0.3
80°-90°	13.6	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°	14045.0	100.0
0°-180°	14045.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529471

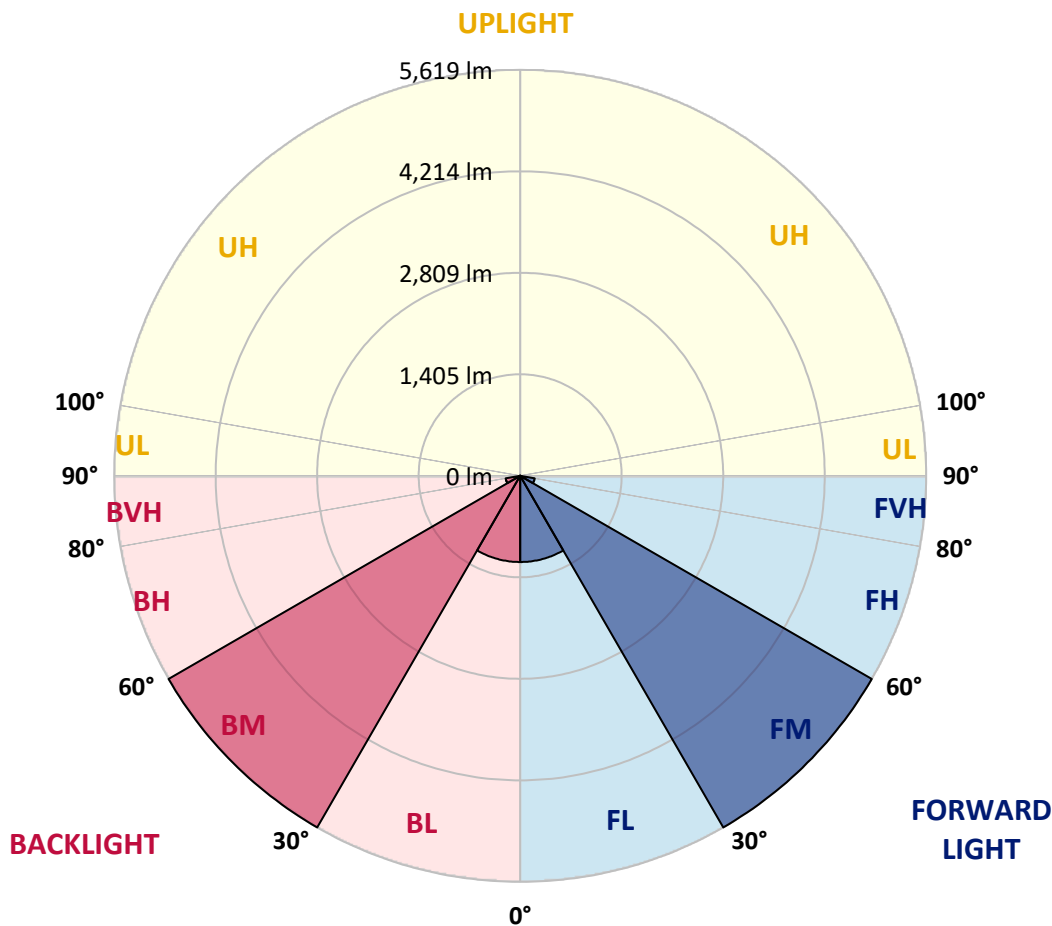
CATALOG NUMBER: GALN-SA4C-827-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1193.0	8.5			
FM (30°-60°)	5618.7	40.0			
FH (60°-80°)	204.0	1.5			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	1193.0	8.5	B3/2500		
BM (30°-60°)	5618.7	40.0	B4/8500		
BH (60°-80°)	204.0	1.5	B1/500		G0/660
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2302.9	2302.9	2302.9	2302.9	2302.9	2302.9	2302.9	2302.9	2302.9	2302.9	2302.9
2.5°	2314.1	2327.4	2318.5	2325.2	2325.2	2314.1	2320.7	2294.0	2311.8	2298.5	2300.7
5°	2349.7	2347.4	2347.4	2349.7	2340.8	2345.2	2336.3	2327.4	2320.7	2311.8	2338.5
7.5°	2394.2	2394.2	2378.6	2383.0	2378.6	2385.3	2367.5	2349.7	2343.0	2336.3	2331.9
10°	2436.4	2432.0	2425.3	2445.3	2429.8	2420.9	2412.0	2400.8	2376.4	2367.5	2358.6
12.5°	2498.7	2496.5	2487.6	2507.6	2498.7	2507.6	2474.3	2445.3	2440.9	2412.0	2427.5
15°	2572.2	2592.2	2576.6	2576.6	2572.2	2561.0	2547.7	2534.3	2494.3	2483.2	2485.4
17.5°	2667.9	2661.2	2663.4	2663.4	2685.7	2656.7	2630.0	2596.7	2576.6	2570.0	2547.7
20°	2759.1	2768.0	2765.8	2781.3	2794.7	2763.5	2734.6	2730.2	2674.5	2683.4	2652.3
22.5°	2919.3	2912.6	2923.7	2934.9	2926.0	2921.5	2894.8	2861.4	2812.5	2790.2	2785.8
25°	3088.4	3077.3	3057.2	3083.9	3097.3	3117.3	3066.1	3048.3	2972.7	2939.3	2941.5
27.5°	3233.0	3248.6	3270.8	3282.0	3315.3	3308.7	3273.1	3215.2	3157.4	3119.5	3095.1
30°	3431.1	3440.0	3477.8	3493.4	3551.2	3566.8	3511.2	3444.4	3342.0	3293.1	3264.2
32.5°	3613.5	3675.8	3673.6	3751.5	3844.9	3909.4	3809.3	3707.0	3604.6	3546.8	3495.6
35°	3909.4	3898.3	3962.8	4045.2	4196.5	4269.9	4160.9	4042.9	3887.2	3793.7	3753.7
37.5°	4185.3	4189.8	4276.6	4407.9	4581.4	4694.9	4599.2	4405.6	4245.4	4125.3	4069.6
40°	4585.9	4594.8	4683.8	4832.8	5028.6	5151.0	5039.8	4844.0	4630.4	4536.9	4536.9
42.5°	5055.3	5093.2	5151.0	5280.1	5455.9	5591.6	5491.5	5337.9	5122.1	5001.9	5019.7
45°	5538.2	5556.0	5593.8	5785.2	5867.5	5934.2	5840.8	5769.6	5625.0	5478.1	5453.6
47.5°	5989.9	5996.6	6107.8	6167.9	6232.4	6176.8	6236.9	6143.4	5981.0	5838.6	5809.6
50°	6190.1	6179.0	6337.0	6519.4	6568.4	6470.5	6419.3	6357.0	6110.0	5938.7	5863.0
52.5°	5607.2	5671.7	5965.4	6472.7	6855.4	6937.8	6639.6	6352.6	5892.0	5558.2	5507.0
54°	4939.6	4999.7	5242.3	5994.3	6790.9	7069.0	6588.4	5978.8	5329.0	4933.0	4881.8
55°	4278.8	4212.0	4652.6	5420.3	6488.3	6953.3	6385.9	5495.9	4752.7	4390.1	4318.9
57.5°	2316.3	2327.4	2699.0	3424.4	4559.2	5331.3	4708.2	3718.1	2808.0	2400.8	2365.2
60°	734.3	752.1	914.5	1384.0	2178.3	2601.1	2229.5	1493.0	1032.4	827.7	794.3
62.5°	229.2	238.1	260.3	387.2	596.3	852.2	667.5	400.5	298.2	273.7	278.1
65°	140.2	140.2	142.4	151.3	178.0	206.9	200.3	175.8	169.1	164.7	162.4
67.5°	91.2	89.0	93.5	100.1	104.6	106.8	113.5	120.2	117.9	113.5	113.5
70°	55.6	53.4	57.9	66.8	69.0	73.4	80.1	89.0	86.8	82.3	84.6
72.5°	31.2	31.2	33.4	40.1	46.7	51.2	57.9	64.5	66.8	64.5	64.5
75°	11.1	13.4	17.8	24.5	28.9	35.6	42.3	49.0	55.6	51.2	49.0
77.5°	4.5	4.5	8.9	15.6	22.3	28.9	40.1	46.7	51.2	46.7	42.3
80°	2.2	2.2	6.7	13.4	20.0	26.7	33.4	40.1	42.3	37.8	33.4
82.5°	2.2	2.2	6.7	13.4	20.0	24.5	35.6	40.1	44.5	40.1	33.4
85°	0.0	2.2	6.7	13.4	17.8	20.0	20.0	13.4	11.1	6.7	6.7
87.5°	0.0	0.0	2.2	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)