

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: P529004

Luminaire Tested: **GALN-SA4A-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11979 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

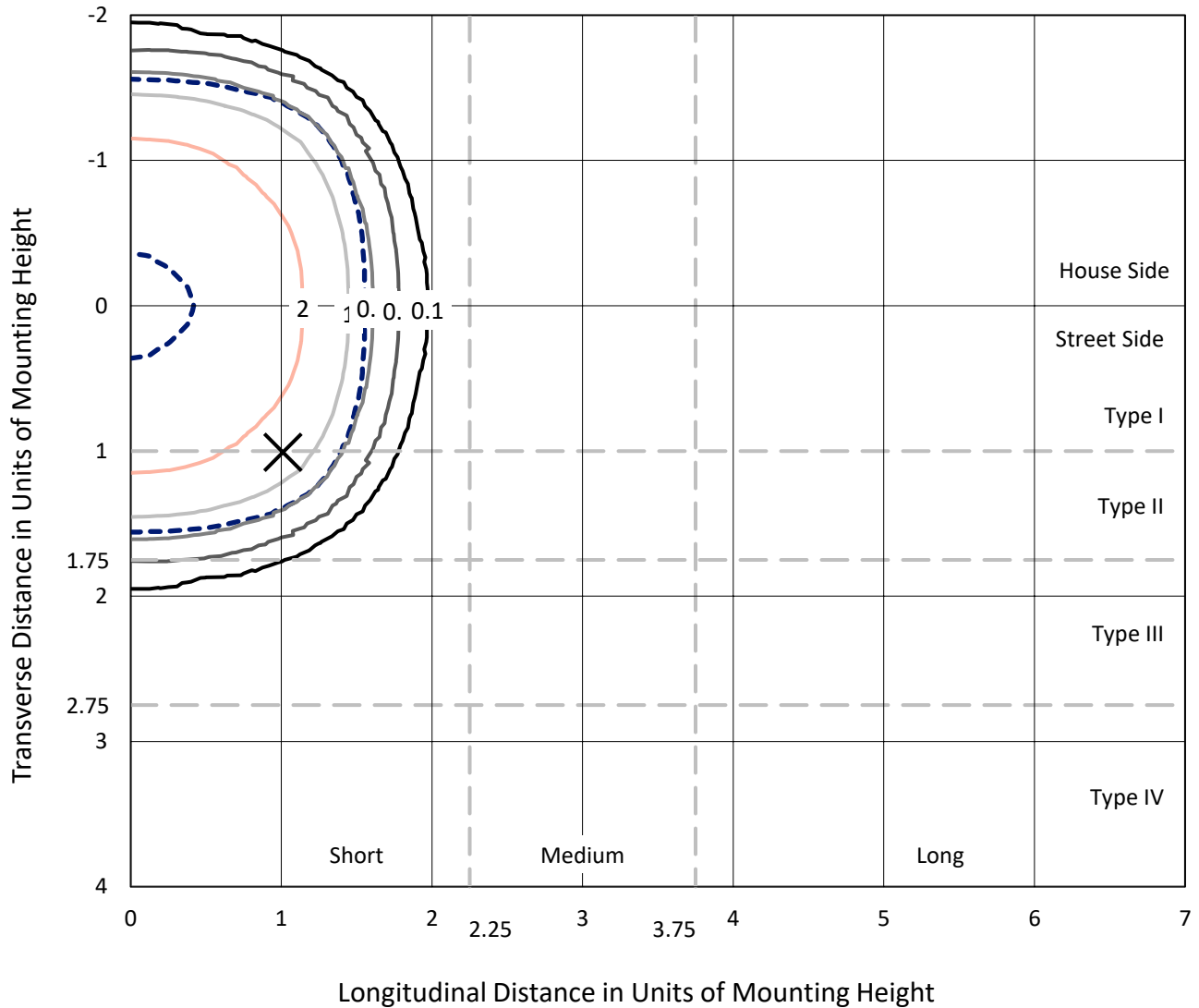
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

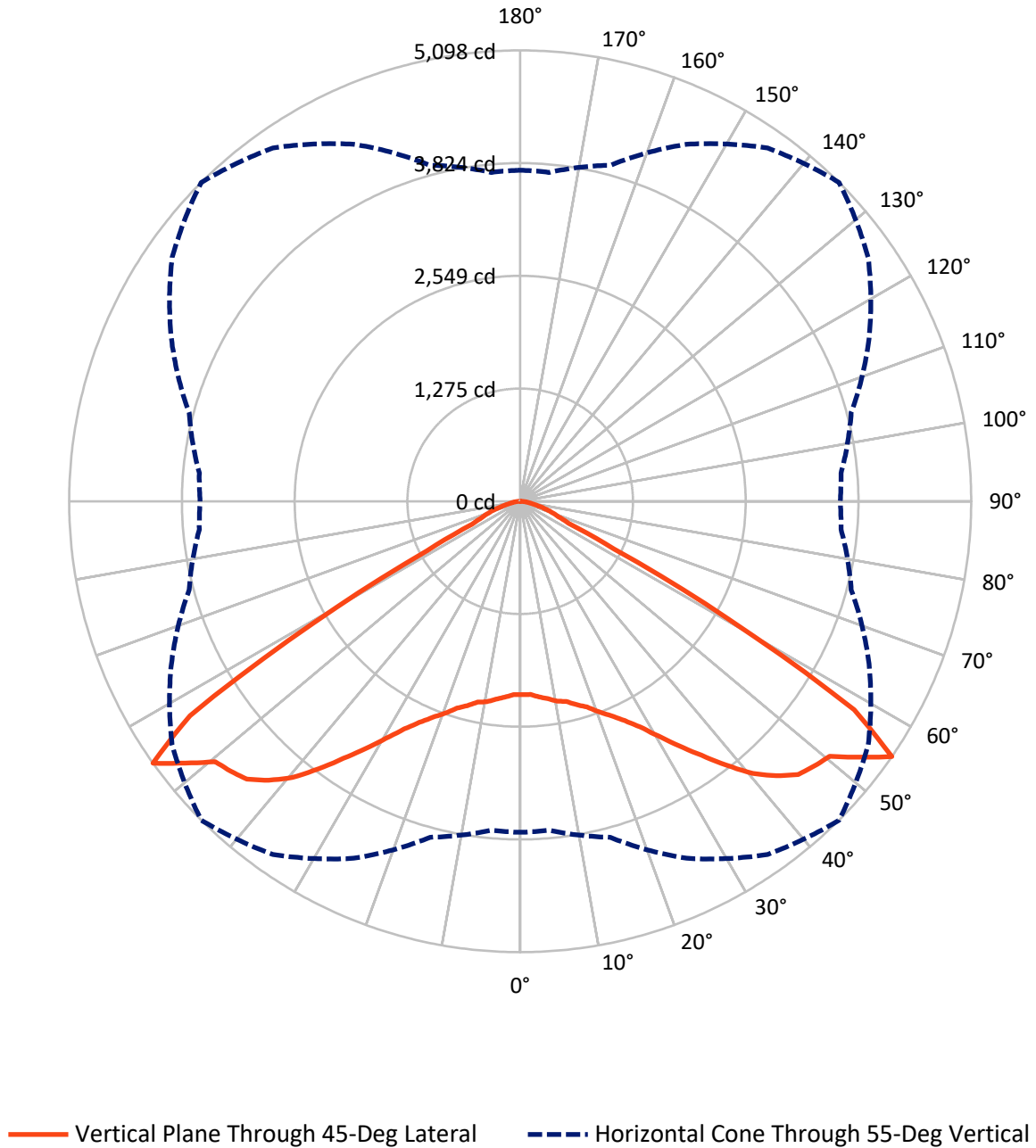
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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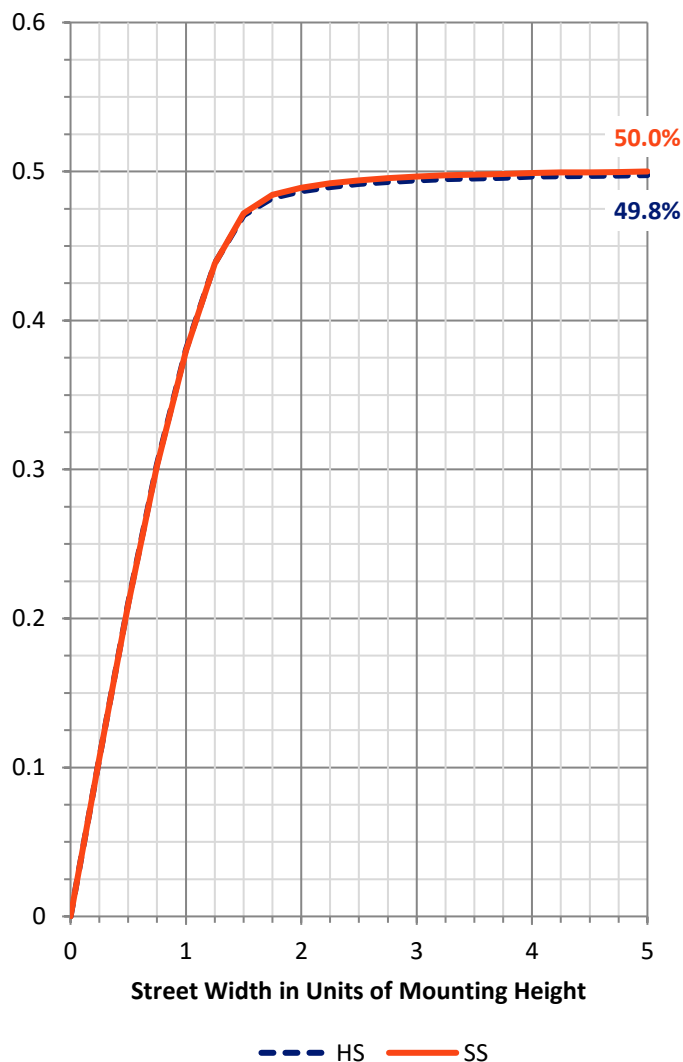
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5989.5	0.0	5989.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5989.5	0.0	5989.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11979.0	0.0	11979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.8
10°-20°	677.0	5.7
20°-30°	1262.4	10.5
30°-40°	2113.7	17.6
40°-50°	3289.0	27.5
50°-60°	3415.1	28.5
60°-70°	724.2	6.0
70°-80°	238.5	2.0
80°-90°	45.4	0.4
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°	11979.0	100.0
0°-180°	11979.0	100.0

Coefficient of Utilization

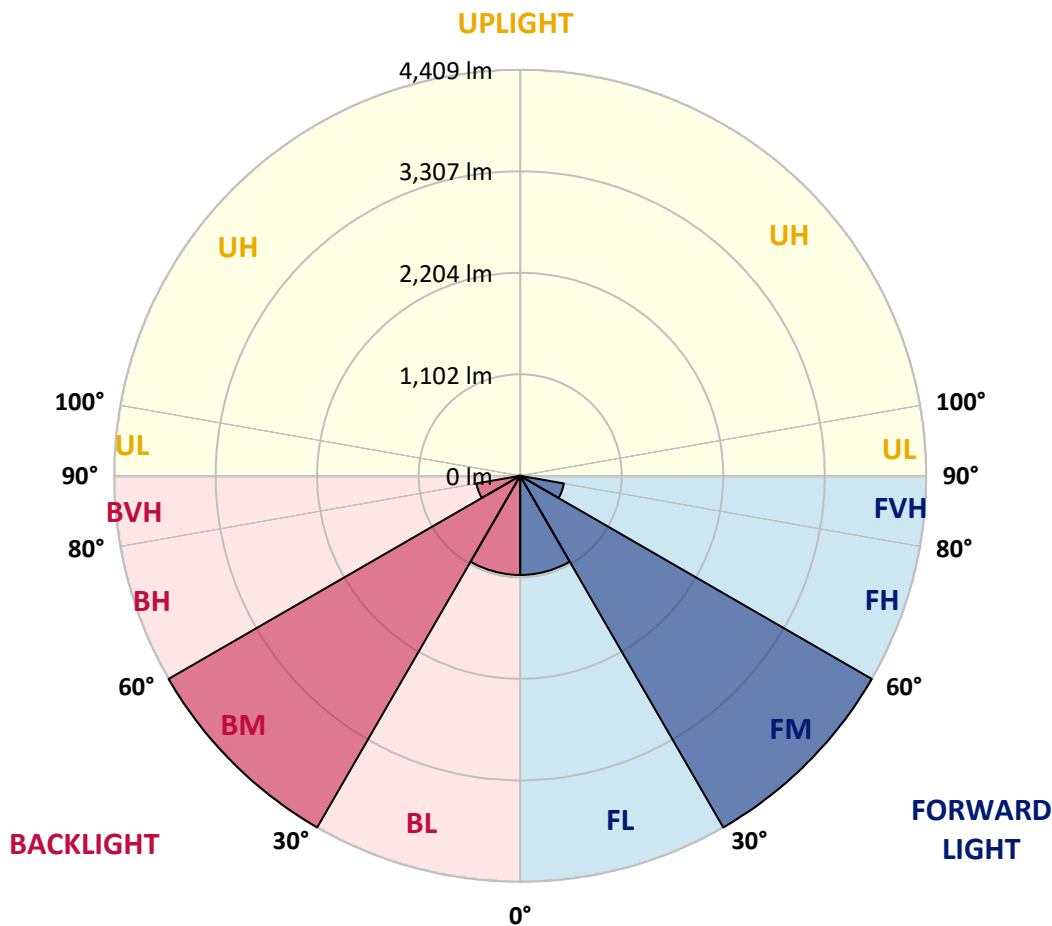


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.5	9.0			
FM (30°-60°)	4408.9	36.8			
FH (60°-80°)	481.4	4.0			G0/660
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	1076.5	9.0	B3/2500		
BM (30°-60°)	4408.9	36.8	B3/5000		
BH (60°-80°)	481.4	4.0	B1/500		G0/660
BVH (80°-90°)	22.7	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°	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2
2.5°	2213.2	2203.1	2185.7	2198.8	2208.9	2187.2	2195.9	2200.2	2197.3	2185.7	2190.1
5°	2245.1	2239.3	2224.8	2235.0	2221.9	2221.9	2213.2	2201.7	2219.0	2216.1	2223.4
7.5°	2245.1	2237.8	2266.8	2248.0	2253.8	2253.8	2239.3	2227.7	2236.4	2223.4	2216.1
10°	2290.0	2300.1	2287.1	2291.4	2288.5	2298.6	2276.9	2269.7	2262.5	2258.1	2249.4
12.5°	2343.5	2336.3	2340.6	2337.7	2347.9	2321.8	2308.8	2292.9	2305.9	2287.1	2300.1
15°	2386.9	2382.6	2386.9	2398.5	2388.4	2386.9	2363.8	2347.9	2327.6	2331.9	2311.7
17.5°	2446.3	2441.9	2443.4	2453.5	2452.1	2444.8	2427.5	2397.1	2389.8	2378.3	2365.2
20°	2534.6	2527.4	2524.5	2528.8	2536.0	2541.8	2507.1	2495.5	2470.9	2452.1	2430.4
22.5°	2609.9	2607.0	2618.5	2599.7	2615.6	2633.0	2599.7	2593.9	2533.1	2523.0	2499.8
25°	2714.1	2709.7	2702.5	2730.0	2748.8	2747.4	2715.5	2683.7	2637.4	2625.8	2625.8
27.5°	2824.1	2799.5	2837.1	2844.4	2877.6	2887.8	2860.3	2814.0	2770.5	2745.9	2751.7
30°	2961.6	2938.4	2947.1	2999.2	3042.7	3080.3	3010.8	2942.8	2882.0	2838.6	2831.3
32.5°	3099.1	3076.0	3102.0	3152.7	3239.5	3296.0	3227.9	3109.3	3038.3	2974.6	2987.7
35°	3210.6	3227.9	3269.9	3346.6	3436.4	3527.6	3419.0	3327.8	3226.5	3155.6	3165.7
37.5°	3390.1	3443.6	3476.9	3565.2	3692.6	3786.7	3673.8	3555.1	3446.5	3353.9	3322.0
40°	3624.6	3660.8	3698.4	3802.6	3953.1	4047.2	3940.1	3785.2	3678.1	3582.6	3578.2
42.5°	3882.2	3917.0	3956.0	4083.4	4173.2	4244.1	4145.7	4063.2	3944.5	3869.2	3864.9
45°	4181.9	4157.2	4200.7	4284.6	4359.9	4406.2	4342.5	4302.0	4216.6	4147.1	4139.9
47.5°	4381.6	4359.9	4438.1	4513.3	4524.9	4474.3	4487.3	4524.9	4435.2	4320.8	4357.0
50°	4497.4	4497.4	4549.5	4619.0	4597.3	4532.2	4634.9	4637.8	4548.1	4446.7	4446.7
52.5°	4296.2	4341.1	4488.7	4716.0	4788.4	4807.2	4784.0	4685.6	4451.1	4244.1	4234.0
55°	3743.3	3733.1	3932.9	4454.0	4875.2	5098.1	4802.8	4349.8	3873.5	3640.5	3617.3
57.5°	2434.7	2446.3	2744.5	3275.7	4035.7	4451.1	3953.1	3316.2	2744.5	2423.1	2453.5
60°	1095.8	1134.8	1315.8	1712.4	2365.2	2703.9	2371.0	1799.3	1380.9	1198.5	1214.5
62.5°	629.7	636.9	644.1	764.3	1007.5	1191.3	1046.5	807.7	712.2	680.3	680.3
65°	531.2	526.9	528.3	538.5	564.5	602.2	586.2	564.5	567.4	564.5	560.2
67.5°	451.6	457.4	453.1	460.3	461.8	467.5	477.7	486.4	487.8	490.7	487.8
70°	370.6	372.0	374.9	380.7	382.1	386.5	401.0	408.2	412.5	412.5	418.3
72.5°	283.7	282.3	285.2	290.9	298.2	299.6	312.7	322.8	328.6	321.3	322.8
75°	186.7	188.2	192.5	196.9	207.0	217.1	221.5	231.6	233.0	235.9	228.7
77.5°	111.5	114.4	118.7	127.4	136.1	144.8	154.9	162.1	165.0	162.1	153.4
80°	72.4	72.4	78.2	85.4	95.5	102.8	108.6	114.4	118.7	114.4	111.5
82.5°	44.9	44.9	52.1	60.8	68.0	72.4	81.1	88.3	92.6	89.7	85.4
85°	23.2	24.6	30.4	37.6	43.4	46.3	44.9	40.5	36.2	34.7	31.8
87.5°	7.2	7.2	8.7	8.7	7.2	7.2	8.7	7.2	8.7	8.7	8.7
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)