

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: P527678

Luminaire Tested: **GALN-SA2D-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527678
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-SA2D-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11719 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

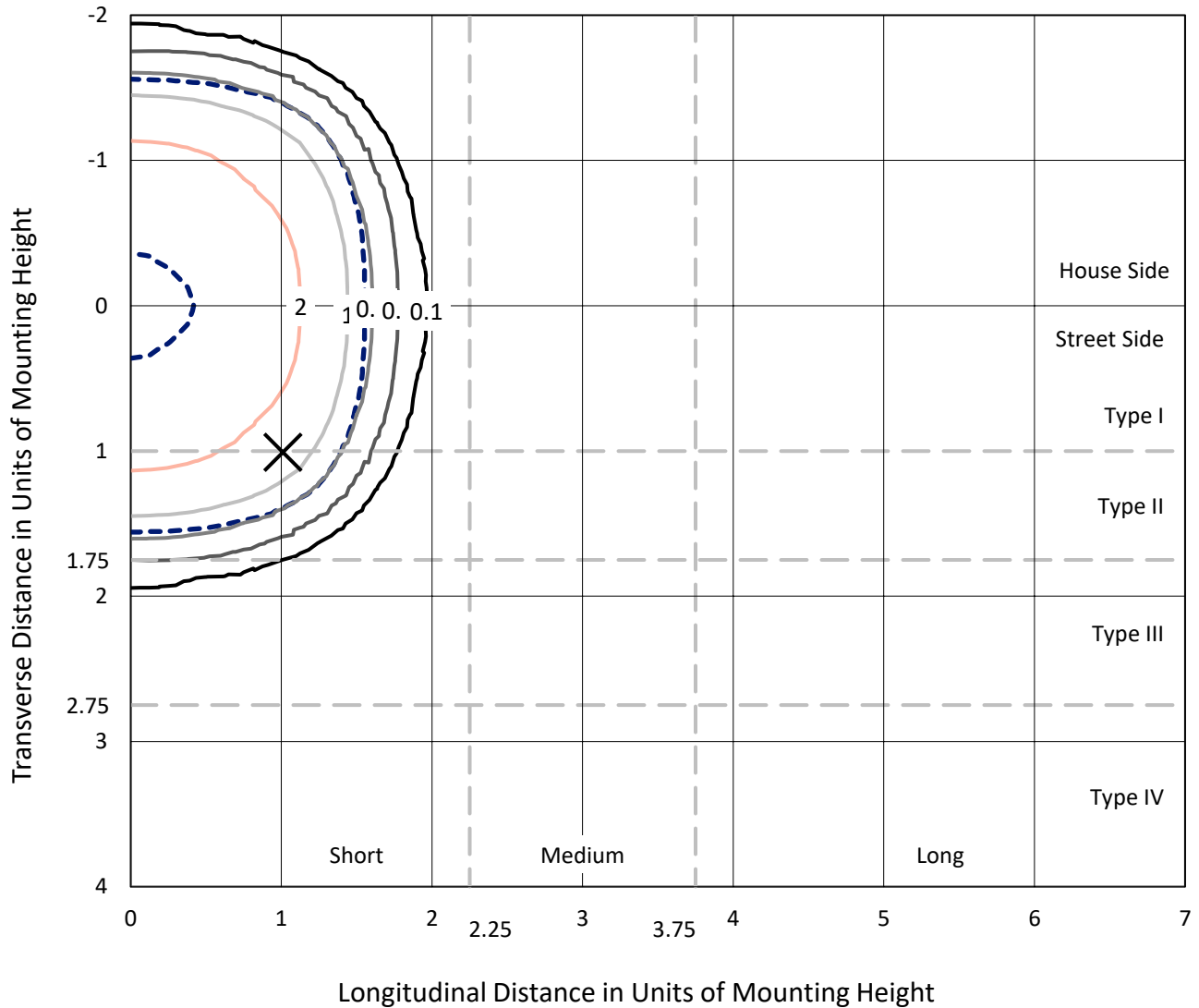
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

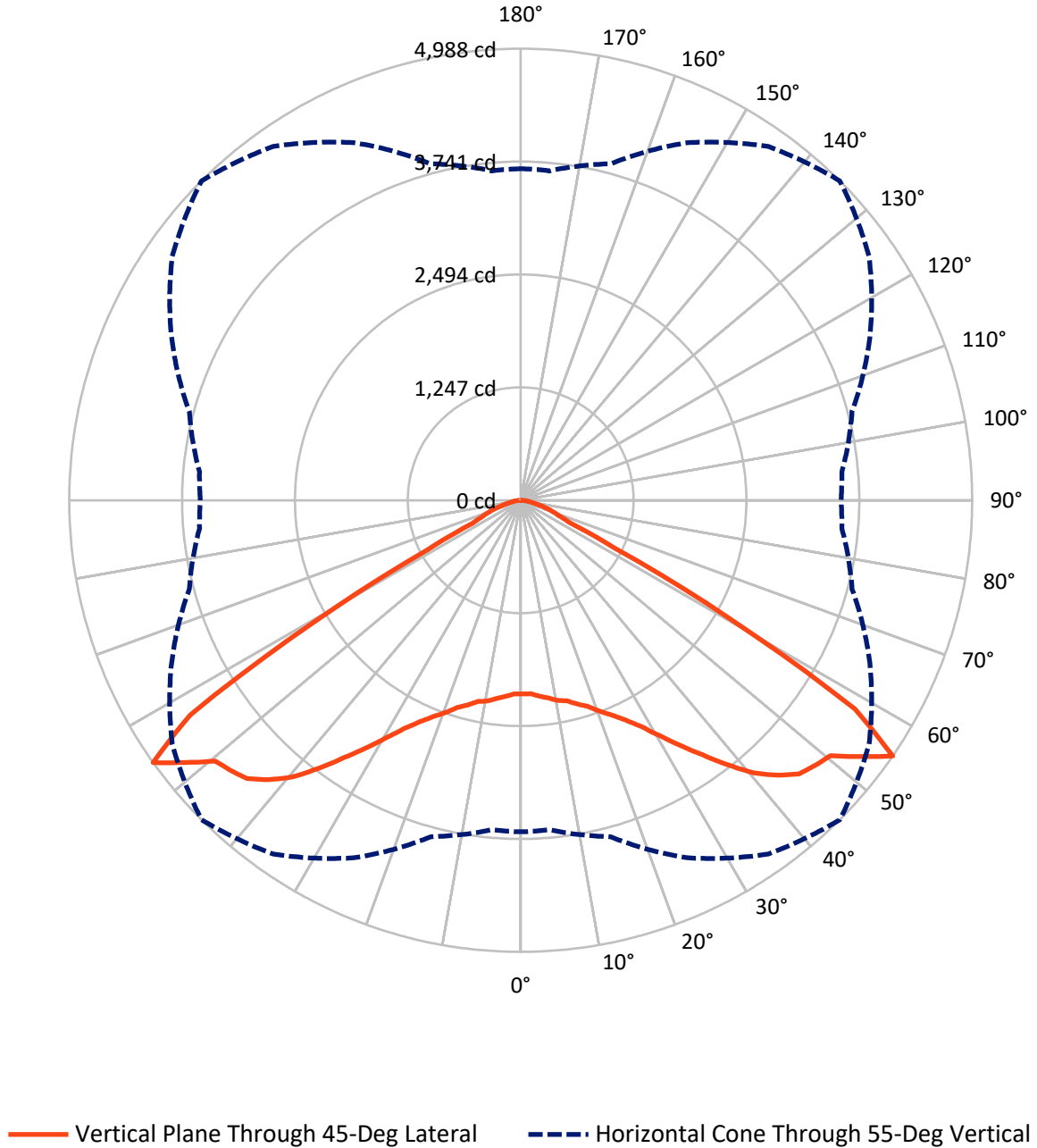
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	5859.5	0.0	5859.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5859.5	0.0	5859.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11719.0	0.0	11719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	1.8
10°-20°	662.3	5.7
20°-30°	1235.0	10.5
30°-40°	2067.8	17.6
40°-50°	3217.7	27.5
50°-60°	3340.9	28.5
60°-70°	708.5	6.0
70°-80°	233.3	2.0
80°-90°	44.4	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°	11719.0	100.0
0°-180°	11719.0	100.0

Coefficient of Utilization



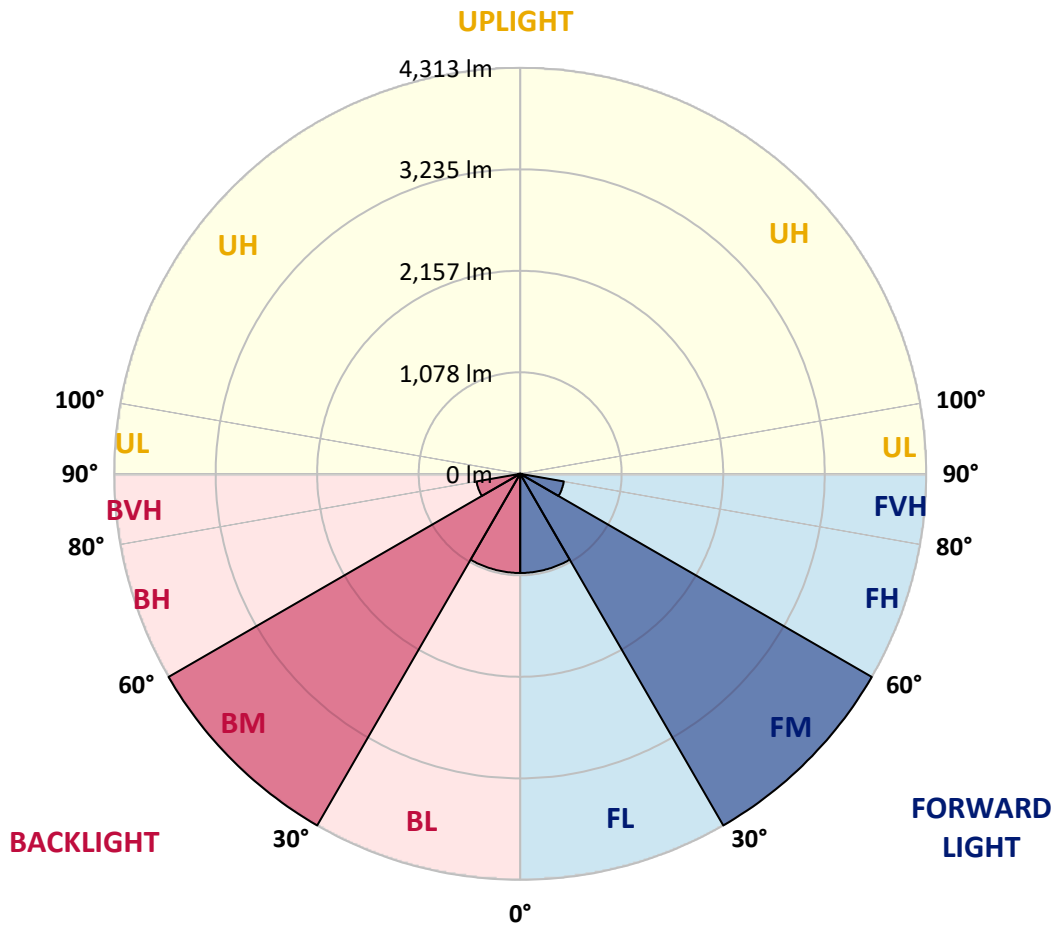
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.2	9.0			
FM (30°-60°)	4313.2	36.8			
FH (60°-80°)	470.9	4.0			G0/660
FVH (80°-90°)	22.2	0.2			G1/100
BL (0°-30°)	1053.2	9.0	B3/2500		
BM (30°-60°)	4313.2	36.8	B3/5000		
BH (60°-80°)	470.9	4.0	B1/500		G0/660
BVH (80°-90°)	22.2	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°	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7
2.5°	2165.2	2155.3	2138.3	2151.0	2161.0	2139.7	2148.2	2152.5	2149.6	2138.3	2142.5
5°	2196.4	2190.7	2176.5	2186.4	2173.7	2173.7	2165.2	2153.9	2170.9	2168.0	2175.1
7.5°	2196.4	2189.3	2217.6	2199.2	2204.9	2204.9	2190.7	2179.4	2187.9	2175.1	2168.0
10°	2240.3	2250.2	2237.4	2241.7	2238.8	2248.8	2227.5	2220.4	2213.4	2209.1	2200.6
12.5°	2292.7	2285.6	2289.8	2287.0	2296.9	2271.4	2258.7	2243.1	2255.8	2237.4	2250.2
15°	2335.1	2330.9	2335.1	2346.5	2336.6	2335.1	2312.5	2296.9	2277.1	2281.3	2261.5
17.5°	2393.2	2388.9	2390.4	2400.3	2398.9	2391.8	2374.8	2345.0	2338.0	2326.6	2313.9
20°	2479.6	2472.5	2469.7	2473.9	2481.0	2486.7	2452.7	2441.3	2417.3	2398.9	2377.6
22.5°	2553.2	2550.4	2561.7	2543.3	2558.9	2575.9	2543.3	2537.6	2478.2	2468.2	2445.6
25°	2655.2	2650.9	2643.8	2670.7	2689.2	2687.7	2656.6	2625.4	2580.1	2568.8	2568.8
27.5°	2762.8	2738.7	2775.5	2782.6	2815.2	2825.1	2798.2	2752.9	2710.4	2686.3	2692.0
30°	2897.3	2874.7	2883.2	2934.1	2976.6	3013.4	2945.5	2878.9	2819.4	2777.0	2769.9
32.5°	3031.9	3009.2	3034.7	3084.2	3169.2	3224.4	3157.9	3041.8	2972.4	2910.1	2922.8
35°	3140.9	3157.9	3199.0	3274.0	3361.8	3451.0	3344.8	3255.6	3156.5	3087.1	3097.0
37.5°	3316.5	3368.9	3401.5	3487.8	3612.5	3704.5	3594.0	3477.9	3371.7	3281.1	3249.9
40°	3545.9	3581.3	3618.1	3720.1	3867.3	3959.4	3854.6	3703.1	3598.3	3504.8	3500.6
42.5°	3798.0	3831.9	3870.2	3994.8	4082.6	4152.0	4055.7	3975.0	3858.8	3785.2	3781.0
45°	4091.1	4067.0	4109.5	4191.6	4265.3	4310.6	4248.3	4208.6	4125.1	4057.1	4050.0
47.5°	4286.5	4265.3	4341.7	4415.4	4426.7	4377.1	4389.9	4426.7	4338.9	4227.0	4262.4
50°	4399.8	4399.8	4450.8	4518.7	4497.5	4433.8	4534.3	4537.2	4449.4	4350.2	4350.2
52.5°	4203.0	4246.9	4391.3	4613.6	4684.4	4702.8	4680.2	4583.9	4354.5	4152.0	4142.1
55°	3662.0	3652.1	3847.5	4357.3	4769.4	4987.5	4698.6	4255.4	3789.5	3561.5	3538.8
57.5°	2381.9	2393.2	2684.9	3204.6	3948.1	4354.5	3867.3	3244.3	2684.9	2370.5	2400.3
60°	1072.0	1110.2	1287.2	1675.2	2313.9	2645.3	2319.6	1760.2	1351.0	1172.5	1188.1
62.5°	616.0	623.1	630.2	747.7	985.6	1165.4	1023.8	790.2	696.7	665.6	665.6
65°	519.7	515.5	516.9	526.8	552.3	589.1	573.5	552.3	555.1	552.3	548.0
67.5°	441.8	447.5	443.2	450.3	451.7	457.4	467.3	475.8	477.2	480.1	477.2
70°	362.5	363.9	366.8	372.4	373.8	378.1	392.3	399.3	403.6	403.6	409.3
72.5°	277.6	276.1	279.0	284.6	291.7	293.1	305.9	315.8	321.5	314.4	315.8
75°	182.7	184.1	188.3	192.6	202.5	212.4	216.7	226.6	228.0	230.8	223.7
77.5°	109.0	111.9	116.1	124.6	133.1	141.6	151.5	158.6	161.4	158.6	150.1
80°	70.8	70.8	76.5	83.5	93.5	100.5	106.2	111.9	116.1	111.9	109.0
82.5°	43.9	43.9	51.0	59.5	66.6	70.8	79.3	86.4	90.6	87.8	83.5
85°	22.7	24.1	29.7	36.8	42.5	45.3	43.9	39.7	35.4	34.0	31.2
87.5°	7.1	7.1	8.5	8.5	7.1	7.1	8.5	7.1	8.5	8.5	8.5
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)