

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: P527732

Luminaire Tested: **GALN-SA2D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12294 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

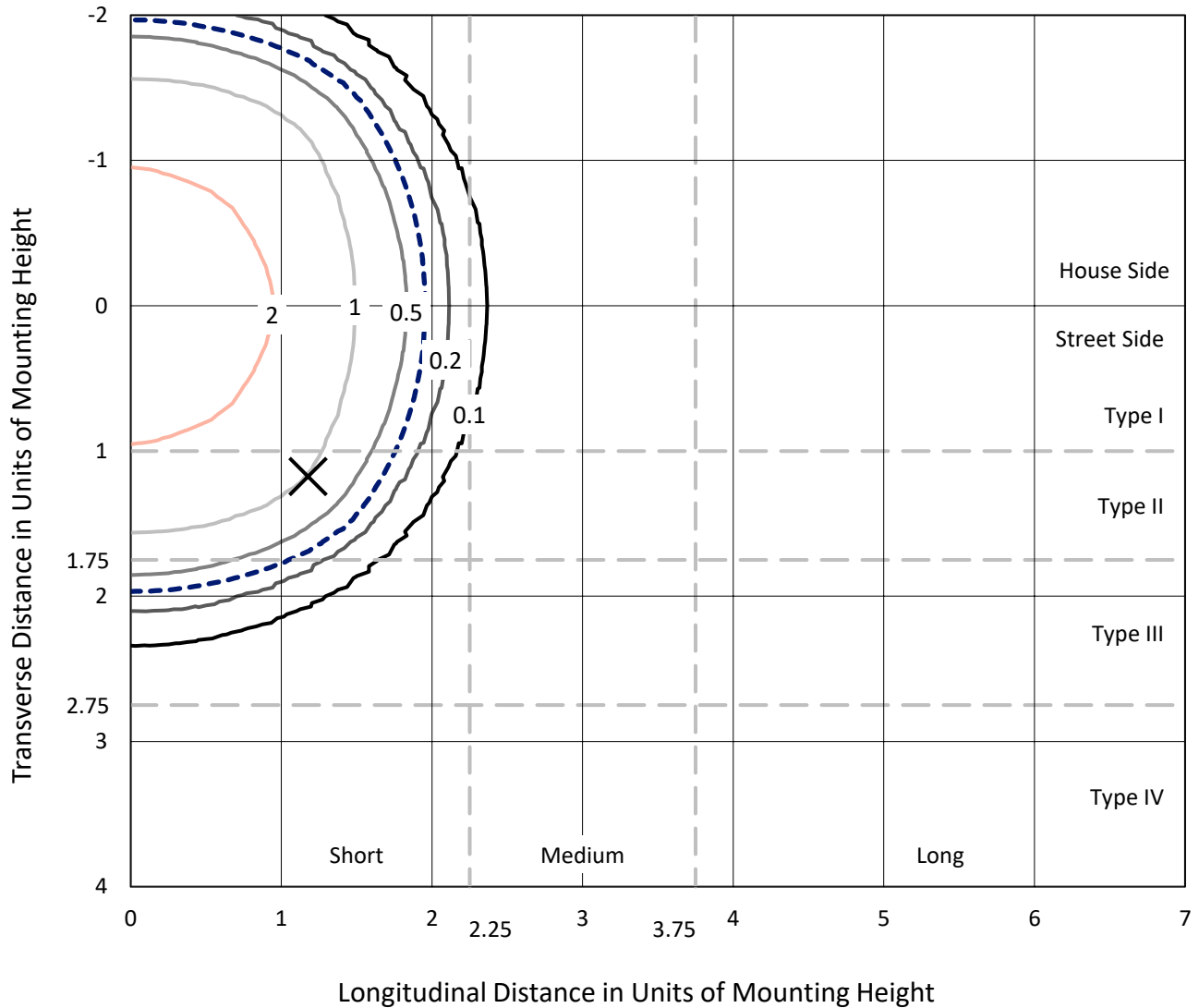
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

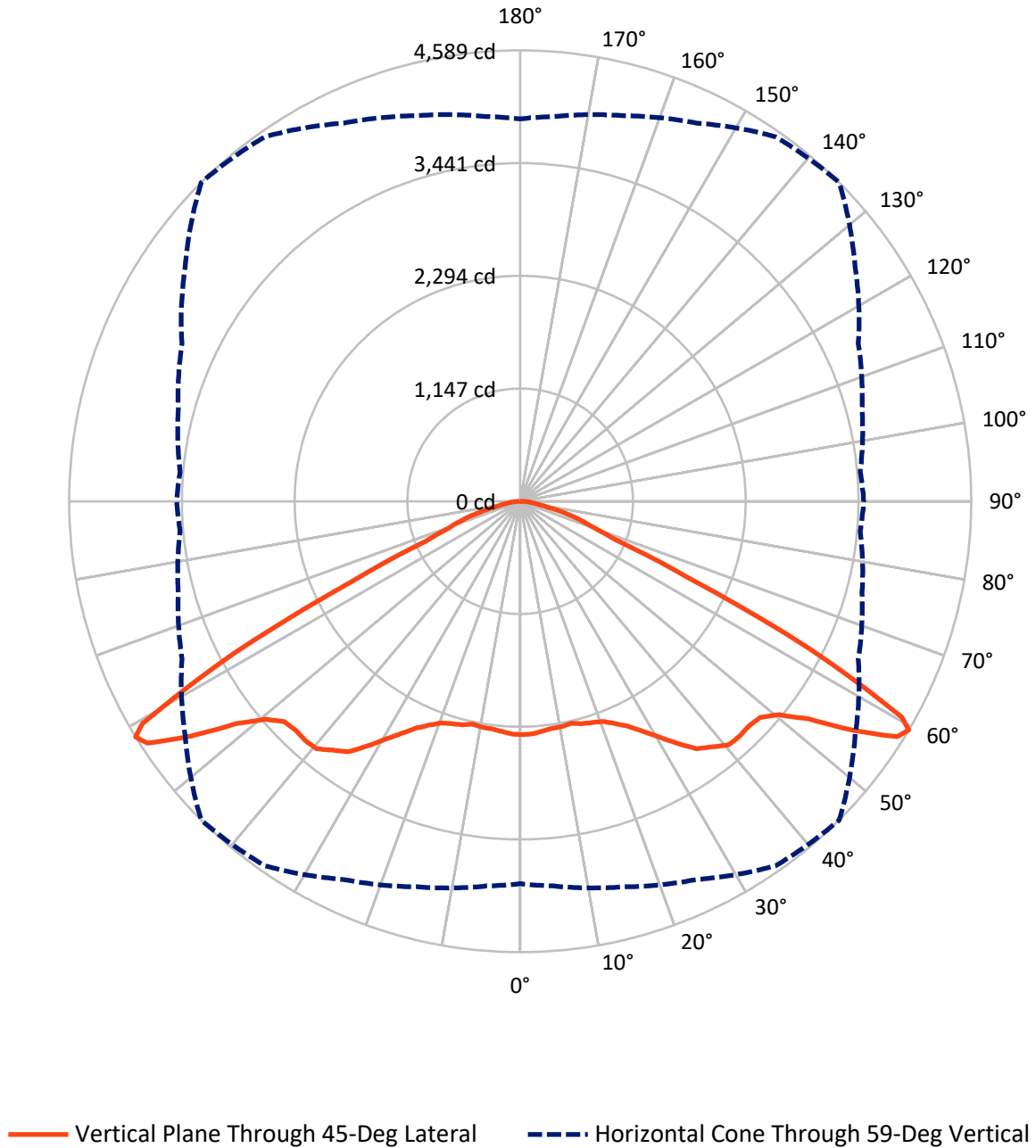
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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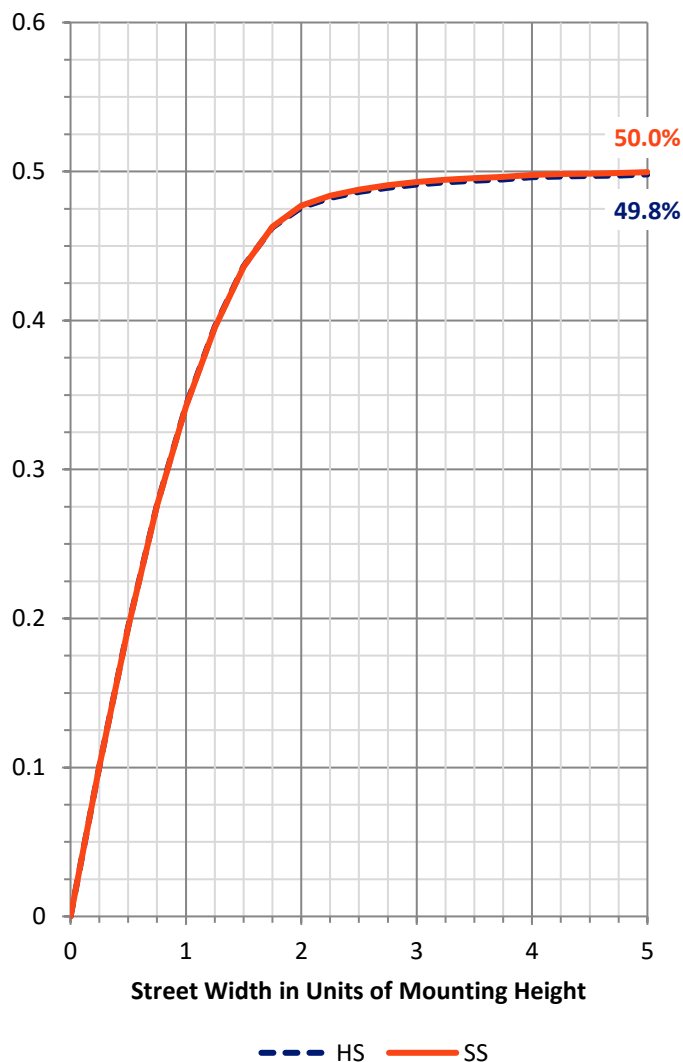
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6147.0	0.0	6147.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6147.0	0.0	6147.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12294.0	0.0	12294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.8
10°-20°	665.7	5.4
20°-30°	1162.4	9.5
30°-40°	1856.5	15.1
40°-50°	2528.9	20.6
50°-60°	3419.7	27.8
60°-70°	1875.4	15.3
70°-80°	479.8	3.9
80°-90°	81.8	0.7
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°	12294.0	100.0
0°-180°	12294.0	100.0

Coefficient of Utilization



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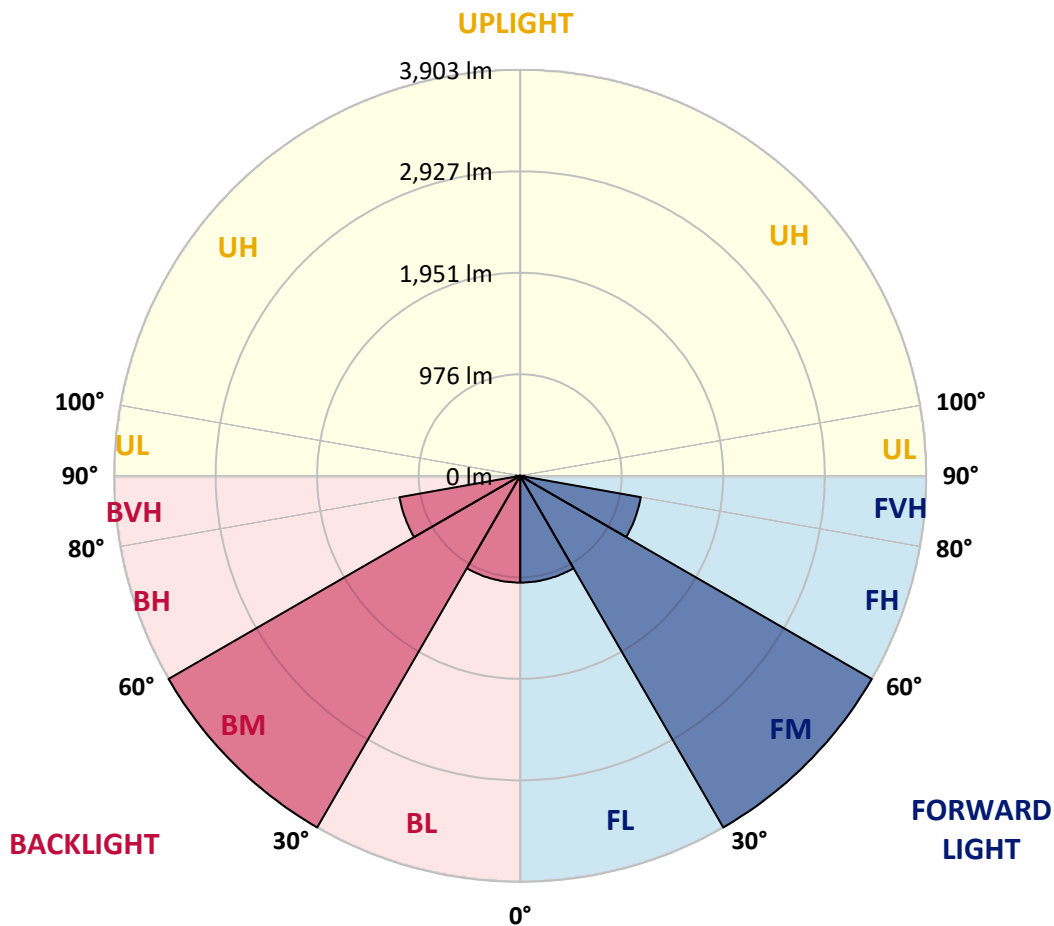
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.0	8.3			
FM (30°-60°)	3902.5	31.7			
FH (60°-80°)	1177.6	9.6			G1/1800
FVH (80°-90°)	40.9	0.3			G1/100
BL (0°-30°)	1026.0	8.3	B3/2500		
BM (30°-60°)	3902.5	31.7	B3/5000		
BH (60°-80°)	1177.6	9.6	B3/2500		G1/1800
BVH (80°-90°)	40.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6
2.5°	2360.4	2377.8	2365.2	2376.2	2374.6	2369.9	2362.0	2357.3	2351.0	2360.4	2344.7
5°	2351.0	2365.2	2379.3	2360.4	2360.4	2351.0	2346.2	2336.8	2336.8	2335.2	2333.6
7.5°	2366.7	2352.6	2346.2	2349.4	2352.6	2332.1	2346.2	2327.3	2311.6	2322.6	2335.2
10°	2352.6	2358.9	2335.2	2346.2	2328.9	2332.1	2322.6	2335.2	2317.9	2317.9	2317.9
12.5°	2366.7	2349.4	2357.3	2349.4	2344.7	2317.9	2330.5	2316.3	2314.7	2330.5	2316.3
15°	2395.1	2366.7	2360.4	2344.7	2349.4	2349.4	2336.8	2338.4	2321.0	2330.5	2333.6
17.5°	2385.6	2369.9	2365.2	2346.2	2362.0	2366.7	2343.1	2327.3	2338.4	2336.8	2335.2
20°	2393.5	2399.8	2395.1	2398.2	2404.6	2391.9	2369.9	2347.8	2333.6	2354.1	2352.6
22.5°	2443.9	2437.6	2434.5	2431.3	2442.4	2455.0	2425.0	2390.4	2390.4	2404.6	2410.9
25°	2484.9	2483.3	2481.8	2495.9	2533.8	2533.8	2495.9	2451.8	2440.8	2450.2	2442.4
27.5°	2544.8	2562.1	2555.8	2581.0	2636.2	2648.8	2598.4	2546.4	2516.4	2505.4	2519.6
30°	2681.9	2661.4	2666.1	2692.9	2741.8	2782.7	2705.5	2650.4	2609.4	2607.8	2614.1
32.5°	2773.3	2789.0	2803.2	2828.4	2905.6	2937.1	2844.2	2754.4	2729.2	2715.0	2719.7
35°	2956.1	2941.9	2938.7	2963.9	3041.1	3093.1	2976.5	2897.8	2864.7	2896.2	2896.2
37.5°	3129.4	3090.0	3060.1	3093.1	3164.0	3170.4	3071.1	3028.5	3011.2	3047.4	3045.9
40°	3211.3	3208.2	3138.8	3157.7	3252.3	3261.7	3168.8	3118.4	3115.2	3162.5	3209.7
42.5°	3296.4	3266.5	3197.1	3209.7	3268.0	3271.2	3183.0	3168.8	3203.4	3249.1	3252.3
45°	3310.6	3285.4	3241.3	3209.7	3252.3	3261.7	3209.7	3219.2	3222.4	3277.5	3277.5
47.5°	3339.0	3335.8	3310.6	3287.0	3294.8	3287.0	3253.9	3268.0	3315.3	3342.1	3329.5
50°	3417.7	3384.7	3409.9	3389.4	3391.0	3413.0	3383.1	3397.3	3387.8	3364.2	3348.4
52.5°	3591.1	3575.3	3597.4	3611.6	3627.3	3677.7	3643.1	3567.4	3496.5	3433.5	3431.9
55°	3844.8	3855.8	3898.3	3970.8	4032.3	4112.6	3945.6	3764.4	3650.9	3551.7	3558.0
57.5°	4084.3	4076.4	4134.7	4300.1	4479.8	4520.7	4193.0	3934.6	3750.2	3687.2	3660.4
59°	3892.0	3929.9	4062.2	4246.6	4528.6	4588.5	4159.9	3795.9	3600.5	3472.9	3495.0
60°	3589.5	3603.7	3721.9	3978.7	4360.0	4462.4	3937.7	3581.6	3321.6	3247.6	3280.7
62.5°	2536.9	2525.9	2611.0	2820.5	3162.5	3301.1	2927.7	2677.2	2513.3	2431.3	2450.2
65°	1348.8	1399.2	1433.9	1564.7	1745.9	1892.4	1738.0	1629.3	1537.9	1470.1	1468.6
67.5°	910.8	904.5	912.3	942.3	1003.7	1044.7	1041.6	986.4	978.5	965.9	980.1
70°	767.4	764.2	750.0	750.0	762.6	772.1	783.1	789.4	802.0	817.8	816.2
72.5°	622.4	614.5	605.1	600.4	616.1	620.8	635.0	641.3	652.3	650.8	665.0
75°	411.3	411.3	422.3	434.9	439.6	449.1	450.7	469.6	469.6	472.7	460.1
77.5°	230.1	223.8	231.6	244.2	255.3	272.6	289.9	304.1	312.0	308.8	308.8
80°	133.9	133.9	141.8	156.0	170.2	185.9	198.5	209.6	217.4	214.3	208.0
82.5°	83.5	83.5	91.4	105.6	116.6	126.1	143.4	157.6	167.0	163.9	156.0
85°	42.5	42.5	52.0	61.5	75.6	81.9	80.4	74.1	72.5	64.6	64.6
87.5°	11.0	11.0	15.8	17.3	14.2	15.8	15.8	15.8	15.8	15.8	17.3
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)