

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: P530487

Luminaire Tested: **GALN-SA5D-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16900 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

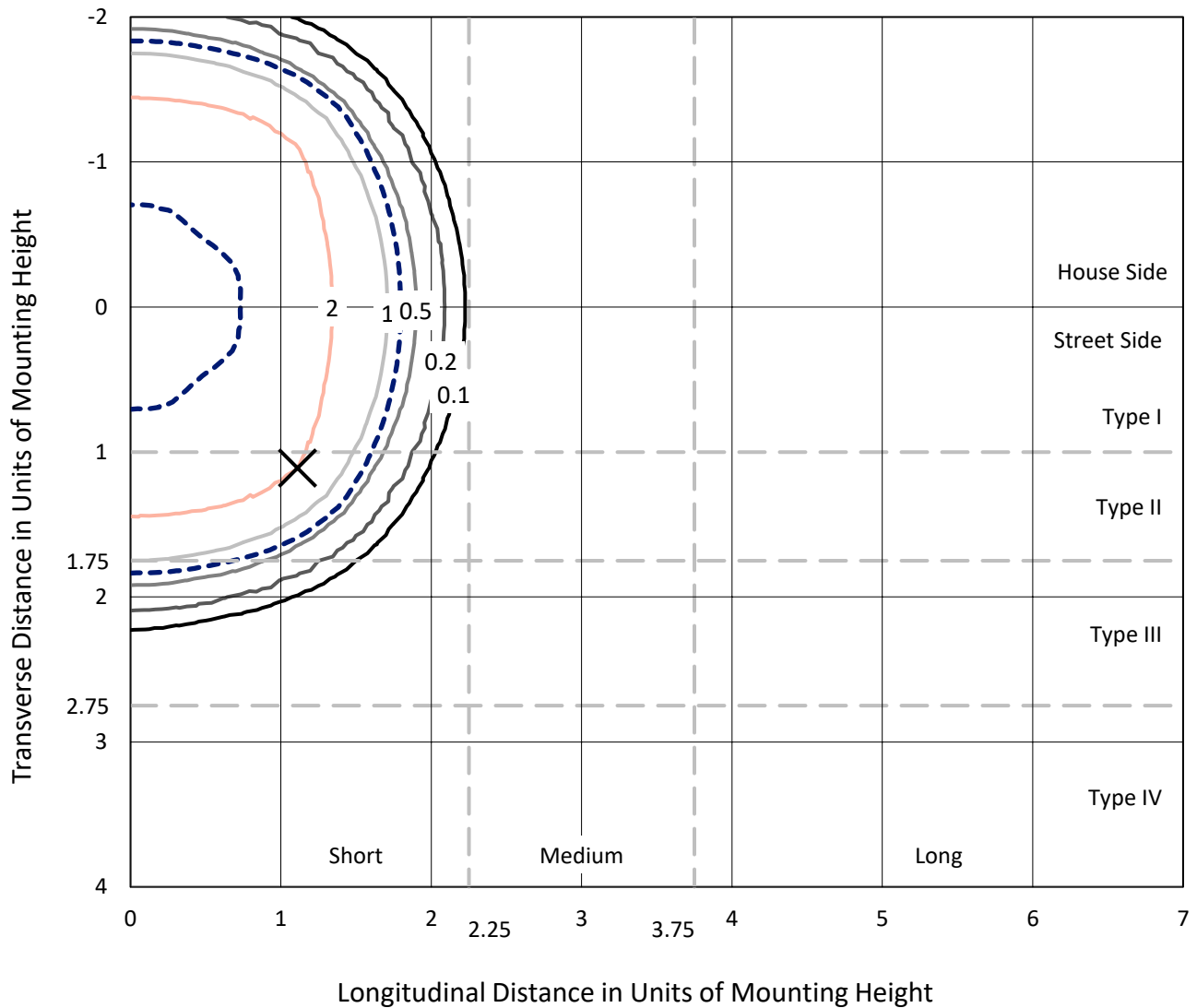
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

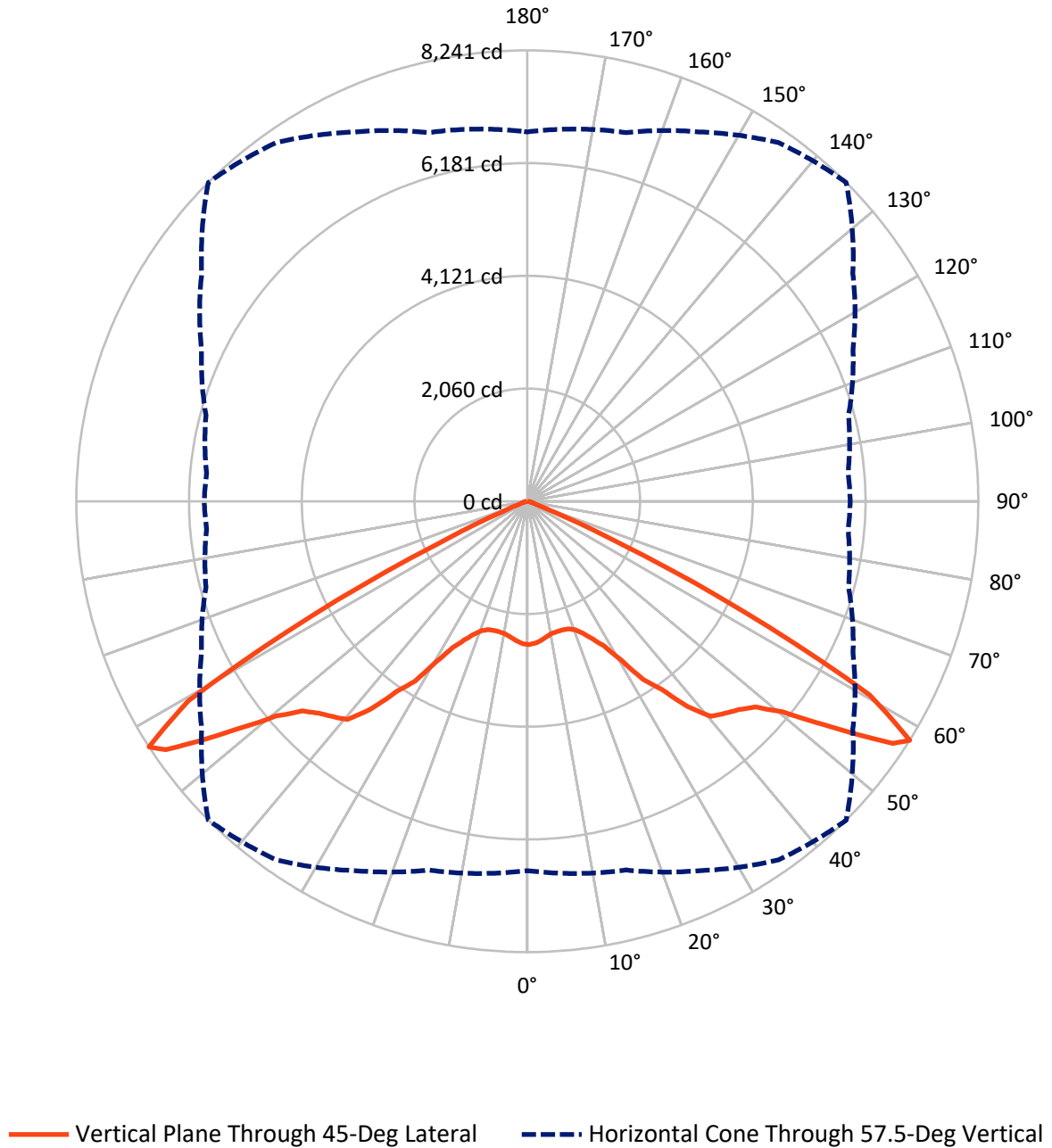
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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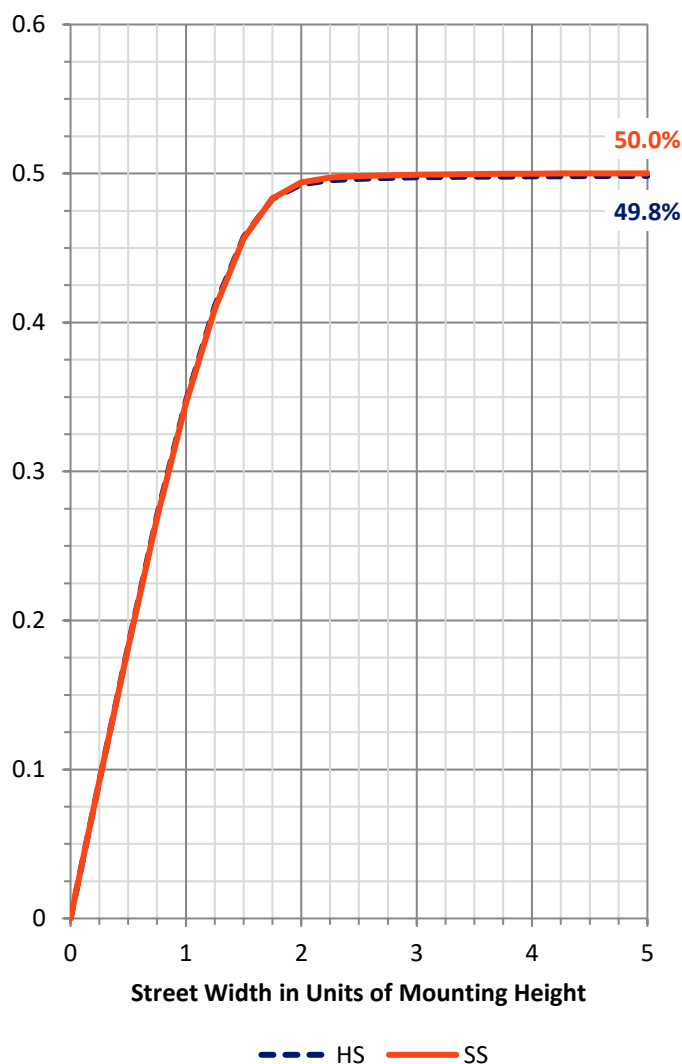
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8450.0	0.0	8450.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8450.0	0.0	8450.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16900.0	0.0	16900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.4
10°-20°	696.3	4.1
20°-30°	1285.2	7.6
30°-40°	2527.6	15.0
40°-50°	4116.8	24.4
50°-60°	5871.0	34.7
60°-70°	2032.7	12.0
70°-80°	109.0	0.6
80°-90°	20.5	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°	16900.0	100.0
0°-180°	16900.0	100.0

Coefficient of Utilization

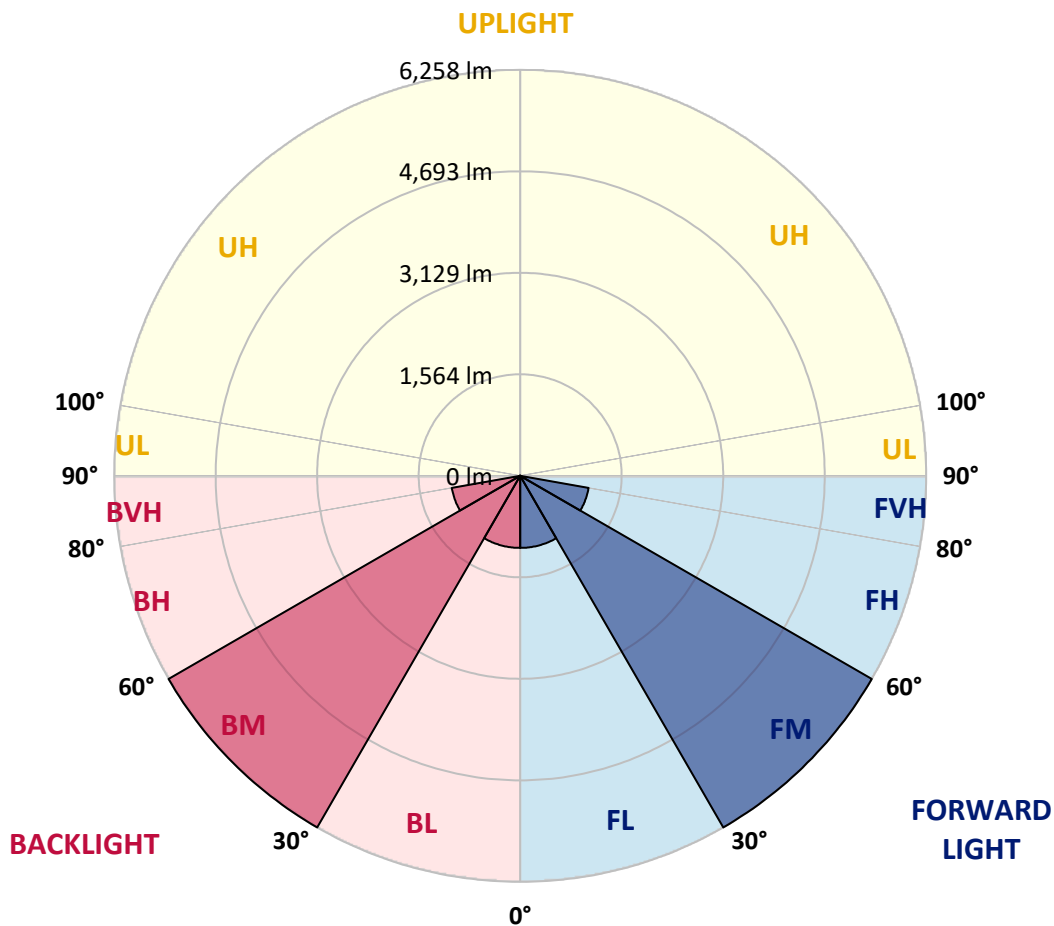


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.2	6.6			
FM (30°-60°)	6257.7	37.0			
FH (60°-80°)	1070.9	6.3			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	1111.2	6.6	B3/2500		
BM (30°-60°)	6257.7	37.0	B4/8500		
BH (60°-80°)	1070.9	6.3	B3/2500		G1/1800
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4
2.5°	2614.3	2628.4	2610.8	2603.8	2600.2	2600.2	2589.7	2589.7	2586.1	2589.7	2575.6
5°	2572.0	2586.1	2586.1	2582.6	2561.5	2557.9	2547.4	2540.3	2543.9	2529.8	2540.3
7.5°	2529.8	2540.3	2526.2	2522.7	2515.7	2501.6	2498.0	2466.3	2469.9	2469.9	2476.9
10°	2522.7	2519.2	2498.0	2480.4	2459.3	2455.8	2445.2	2438.2	2438.2	2434.6	2445.2
12.5°	2522.7	2505.1	2501.6	2462.8	2427.6	2441.7	2413.5	2395.9	2420.5	2427.6	2441.7
15°	2519.2	2536.8	2476.9	2459.3	2434.6	2438.2	2413.5	2395.9	2410.0	2417.0	2427.6
17.5°	2540.3	2529.8	2512.1	2476.9	2466.3	2452.2	2420.5	2406.4	2406.4	2424.1	2427.6
20°	2596.7	2568.5	2533.3	2515.7	2526.2	2508.6	2469.9	2417.0	2431.1	2445.2	2455.8
22.5°	2649.6	2628.4	2603.8	2593.2	2653.1	2624.9	2557.9	2498.0	2476.9	2501.6	2519.2
25°	2751.7	2751.7	2705.9	2720.0	2787.0	2790.5	2713.0	2607.3	2593.2	2603.8	2610.8
27.5°	2959.6	2970.2	2931.4	2945.5	2973.7	2998.4	2931.4	2843.3	2811.6	2808.1	2818.7
30°	3185.1	3206.2	3202.7	3262.6	3343.7	3357.7	3259.1	3114.6	3019.5	3001.9	3016.0
32.5°	3481.1	3491.6	3484.6	3555.1	3773.5	3875.7	3618.5	3414.1	3287.3	3319.0	3287.3
35°	4037.8	4027.2	3949.7	3963.8	4143.5	4217.4	3970.8	3840.4	3780.5	3844.0	3829.9
37.5°	4516.9	4478.2	4414.7	4506.4	4693.1	4760.0	4502.8	4273.8	4164.6	4270.3	4316.1
40°	4922.1	4823.5	4735.4	4827.0	5077.1	5168.7	4791.7	4605.0	4562.7	4640.2	4738.9
42.5°	5263.9	5200.5	5084.2	5091.2	5256.8	5299.1	4996.1	4886.9	4844.6	4967.9	5017.2
45°	5507.0	5447.1	5337.9	5330.8	5457.7	5429.5	5158.2	5084.2	5108.8	5189.9	5214.5
47.5°	5630.3	5662.0	5598.6	5616.2	5683.2	5616.2	5401.3	5401.3	5344.9	5394.2	5369.6
50°	5986.2	5887.5	5968.5	5968.5	6039.0	6046.1	5831.1	5753.6	5602.1	5517.6	5517.6
52.5°	6401.9	6409.0	6440.7	6556.9	6676.7	6778.9	6472.4	6141.2	5887.5	5778.3	5764.2
55°	6743.7	6814.1	6941.0	7159.4	7504.7	7645.7	7117.2	6525.2	6215.2	6046.1	6010.8
56°	6930.4	6863.5	7081.9	7381.4	7832.4	8015.6	7222.9	6602.7	6261.0	6070.7	6067.2
57.5°	6750.7	6824.7	6976.2	7448.3	8001.5	8241.1	7261.6	6567.5	6077.8	5884.0	5901.6
60°	5330.8	5401.3	5605.6	6134.1	7000.9	7187.6	6144.7	5415.4	4978.5	4700.1	4703.7
62.5°	3016.0	3068.8	3227.4	3717.1	4256.2	4435.9	3829.9	3343.7	3040.6	2885.6	2836.3
65°	1109.9	1088.7	1113.4	1363.5	1694.7	1846.2	1592.6	1345.9	1187.4	1131.0	1109.9
67.5°	415.8	384.0	359.4	384.0	482.7	510.9	468.6	391.1	366.4	377.0	384.0
70°	257.2	243.1	193.8	183.2	179.7	176.2	186.7	197.3	225.5	264.3	271.3
72.5°	179.7	169.1	137.4	130.4	123.3	119.8	137.4	151.5	176.2	204.4	207.9
75°	70.5	74.0	70.5	77.5	81.0	84.6	98.7	109.2	119.8	119.8	116.3
77.5°	14.1	14.1	21.1	28.2	35.2	45.8	66.9	77.5	81.0	77.5	66.9
80°	0.0	0.0	7.0	14.1	28.2	38.8	59.9	66.9	74.0	66.9	52.9
82.5°	0.0	0.0	7.0	17.6	28.2	35.2	56.4	70.5	81.0	74.0	56.4
85°	0.0	0.0	7.0	14.1	21.1	24.7	24.7	17.6	17.6	10.6	7.0
87.5°	0.0	0.0	0.0	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)