

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: P528776

Luminaire Tested: **GALN-SA3D-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14875 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

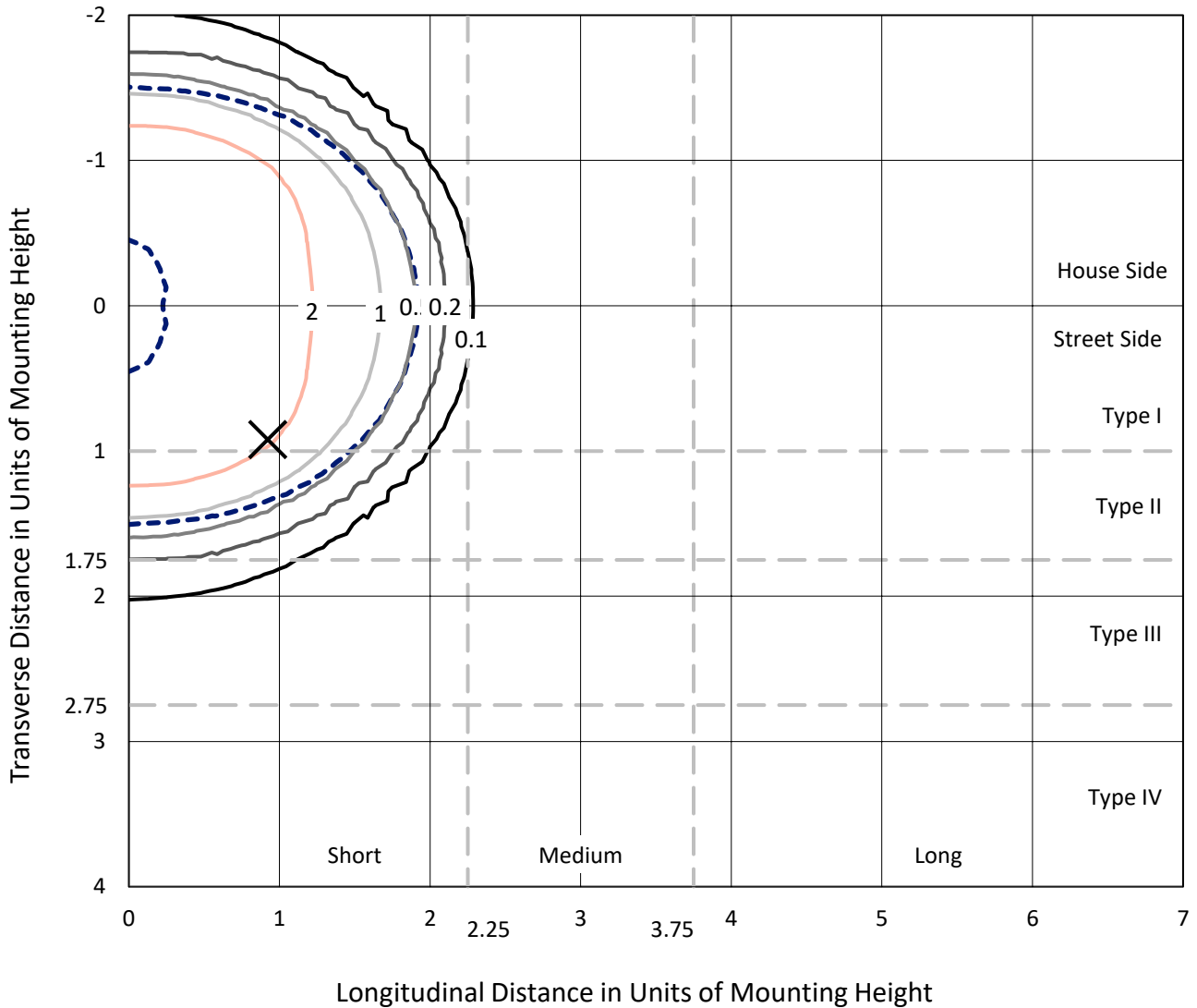
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

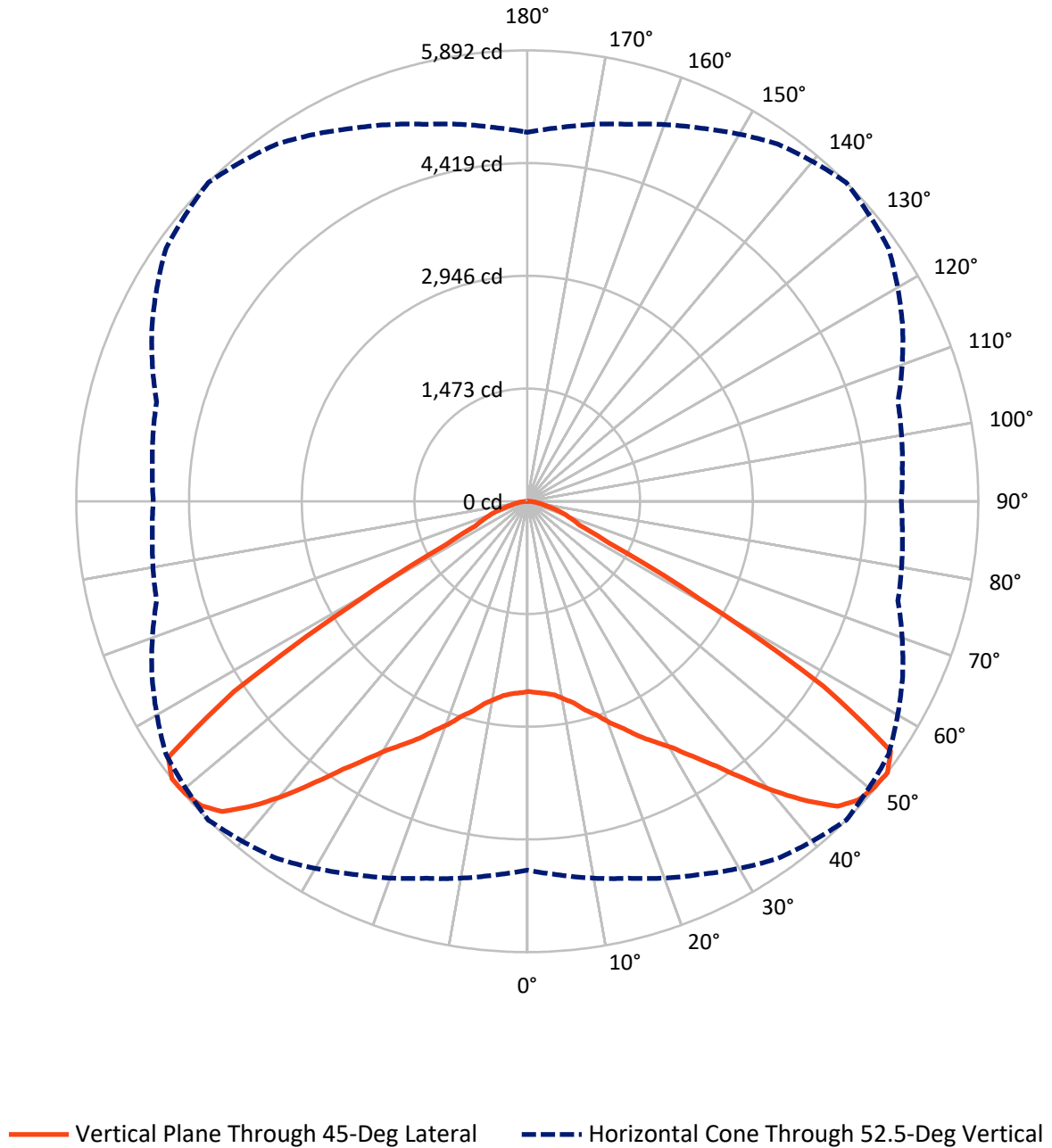
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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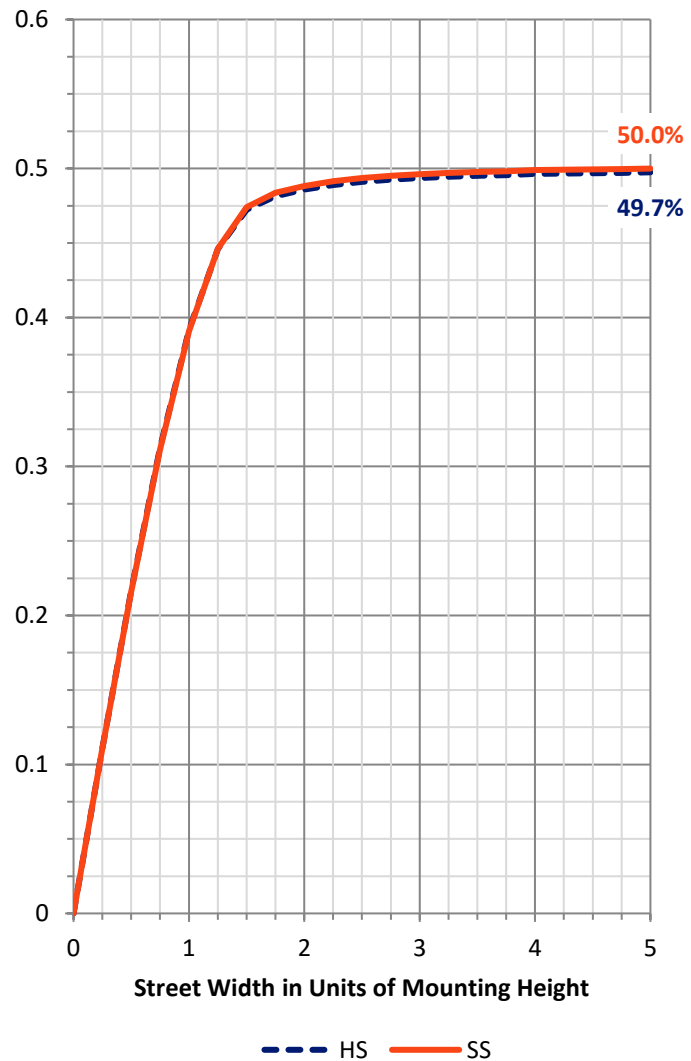
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7437.5	0.0	7437.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7437.5	0.0	7437.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14875.0	0.0	14875.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	1.6
10°-20°	802.7	5.4
20°-30°	1528.3	10.3
30°-40°	2624.2	17.6
40°-50°	4033.5	27.1
50°-60°	4095.9	27.5
60°-70°	1141.5	7.7
70°-80°	336.7	2.3
80°-90°	67.8	0.5
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°	14875.0	100.0
0°-180°	14875.0	100.0

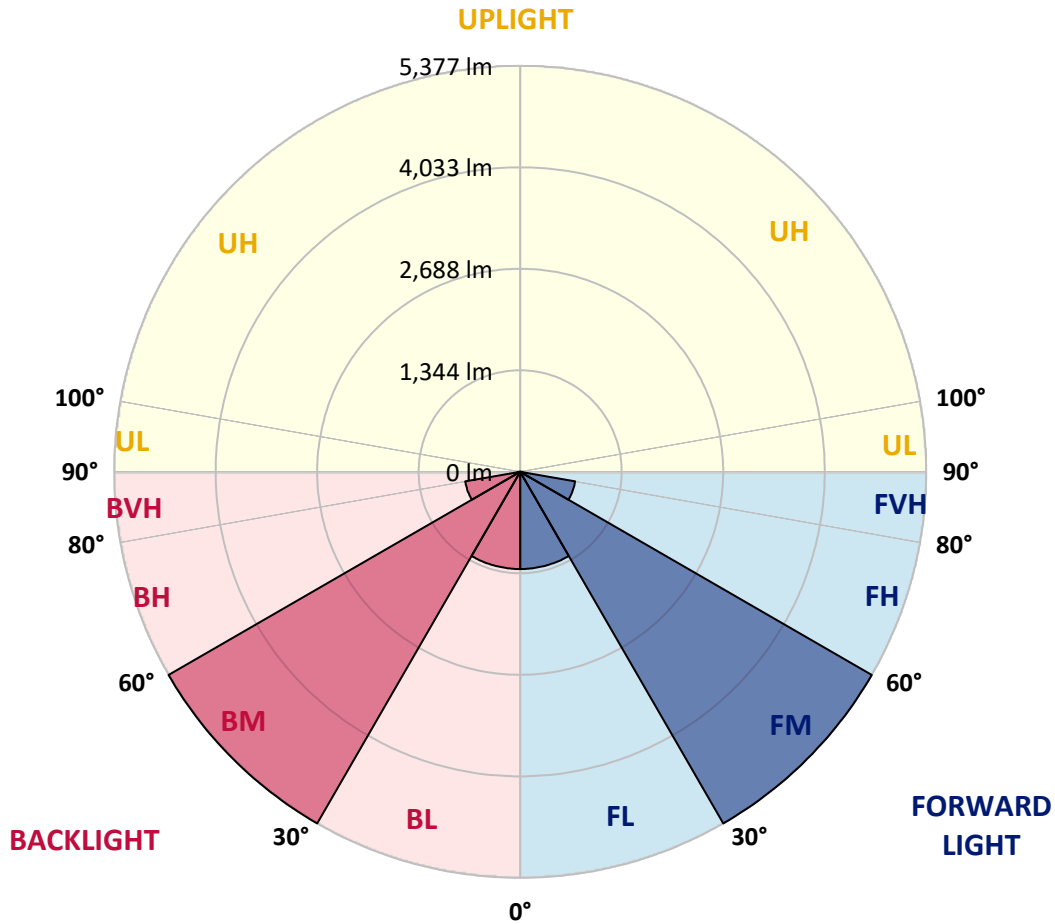


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.7	8.7			
FM (30°-60°)	5376.8	36.1			
FH (60°-80°)	739.1	5.0			G1/1800
FVH (80°-90°)	33.9	0.2			G1/100
BL (0°-30°)	1287.7	8.7	B3/2500		
BM (30°-60°)	5376.8	36.1	B4/8500		
BH (60°-80°)	739.1	5.0	B2/1000		G1/1800
BVH (80°-90°)	33.9	0.2			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°	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6
2.5°	2492.1	2466.2	2475.5	2481.0	2505.0	2503.2	2497.6	2505.0	2512.4	2514.2	2510.6
5°	2490.2	2471.8	2479.2	2484.7	2508.7	2521.6	2517.9	2549.3	2571.5	2565.9	2593.6
7.5°	2475.5	2486.6	2477.3	2505.0	2525.3	2556.7	2589.9	2619.5	2647.2	2678.5	2684.1
10°	2508.7	2508.7	2525.3	2547.5	2601.0	2625.0	2673.0	2715.5	2769.0	2805.9	2791.1
12.5°	2543.8	2549.3	2549.3	2606.5	2650.8	2704.4	2748.7	2805.9	2881.6	2925.9	2948.1
15°	2578.9	2582.5	2601.0	2678.5	2745.0	2829.9	2870.5	2922.2	2964.7	3047.7	3049.6
17.5°	2610.2	2630.5	2685.9	2772.7	2855.8	2937.0	3001.6	3055.1	3092.0	3125.3	3117.9
20°	2728.4	2743.1	2800.4	2887.1	3010.8	3090.2	3112.3	3121.6	3145.6	3212.0	3191.7
22.5°	2842.8	2848.4	2901.9	3034.8	3121.6	3226.8	3250.8	3245.3	3254.5	3271.1	3300.6
25°	2961.0	2970.2	3044.0	3156.6	3278.5	3404.0	3424.3	3381.9	3368.9	3387.4	3389.2
27.5°	3112.3	3114.2	3208.3	3306.2	3444.6	3562.8	3594.1	3560.9	3500.0	3514.8	3538.8
30°	3304.3	3291.4	3385.6	3525.8	3671.7	3738.1	3791.7	3775.1	3708.6	3695.7	3675.4
32.5°	3525.8	3529.5	3614.5	3767.7	3863.7	3974.4	4031.6	4004.0	3961.5	3939.3	3952.3
35°	3837.8	3854.4	3911.7	4039.0	4194.1	4249.5	4339.9	4280.9	4170.1	4197.8	4221.8
37.5°	4094.4	4142.4	4249.5	4400.8	4493.1	4594.7	4627.9	4548.5	4467.3	4434.1	4513.5
40°	4487.6	4472.8	4591.0	4742.4	4879.0	4980.5	4938.0	4858.7	4657.4	4659.3	4681.4
42.5°	4825.4	4832.8	4923.3	5104.2	5290.6	5353.4	5218.6	5024.8	4801.4	4777.4	4825.4
45°	5109.7	5139.2	5190.9	5432.8	5615.5	5683.8	5434.6	5205.7	4906.6	4807.0	4886.3
47.5°	5211.2	5259.2	5371.8	5593.4	5774.3	5829.6	5630.3	5301.7	5004.5	4842.0	4884.5
50°	5226.0	5209.4	5394.0	5597.1	5755.8	5875.8	5700.4	5371.8	4980.5	4895.6	4882.7
52.5°	4821.7	4903.0	5100.5	5379.2	5700.4	5892.4	5763.2	5410.6	5013.7	4917.7	4886.3
55°	3902.4	3806.4	4166.4	4635.3	5226.0	5759.5	5741.0	5430.9	5034.0	4954.6	4912.2
57.5°	2178.3	2206.0	2409.0	2918.5	3680.9	4567.0	5104.2	5216.8	5024.8	4978.6	5000.8
60°	1007.9	1017.1	1103.9	1342.0	1814.6	2589.9	3296.9	4015.0	4345.5	4411.9	4411.9
62.5°	751.3	747.6	769.8	812.2	911.9	1190.7	1589.4	2159.8	2613.9	2931.4	3014.5
65°	679.3	677.5	688.6	703.3	710.7	749.5	838.1	1013.5	1161.1	1246.0	1231.3
67.5°	594.4	592.6	596.3	605.5	618.4	638.7	660.9	697.8	749.5	745.8	736.6
70°	480.0	480.0	485.5	492.9	507.6	531.6	557.5	583.3	627.6	636.9	635.0
72.5°	354.4	348.9	360.0	374.7	389.5	419.0	446.7	470.7	502.1	511.3	507.6
75°	225.2	228.9	236.3	252.9	278.7	299.1	328.6	348.9	369.2	376.6	378.4
77.5°	125.5	129.2	142.1	162.4	188.3	210.4	236.3	252.9	265.8	267.7	269.5
80°	75.7	77.5	90.5	108.9	131.1	155.1	175.4	192.0	203.1	197.5	195.7
82.5°	46.1	48.0	59.1	75.7	94.1	112.6	134.8	149.5	160.6	153.2	145.8
85°	24.0	25.8	35.1	46.1	60.9	70.1	70.1	62.8	60.9	57.2	55.4
87.5°	7.4	7.4	9.2	11.1	9.2	11.1	12.9	14.8	14.8	16.6	14.8
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)