

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: P529705

Luminaire Tested: **GALN-SA4D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15454 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

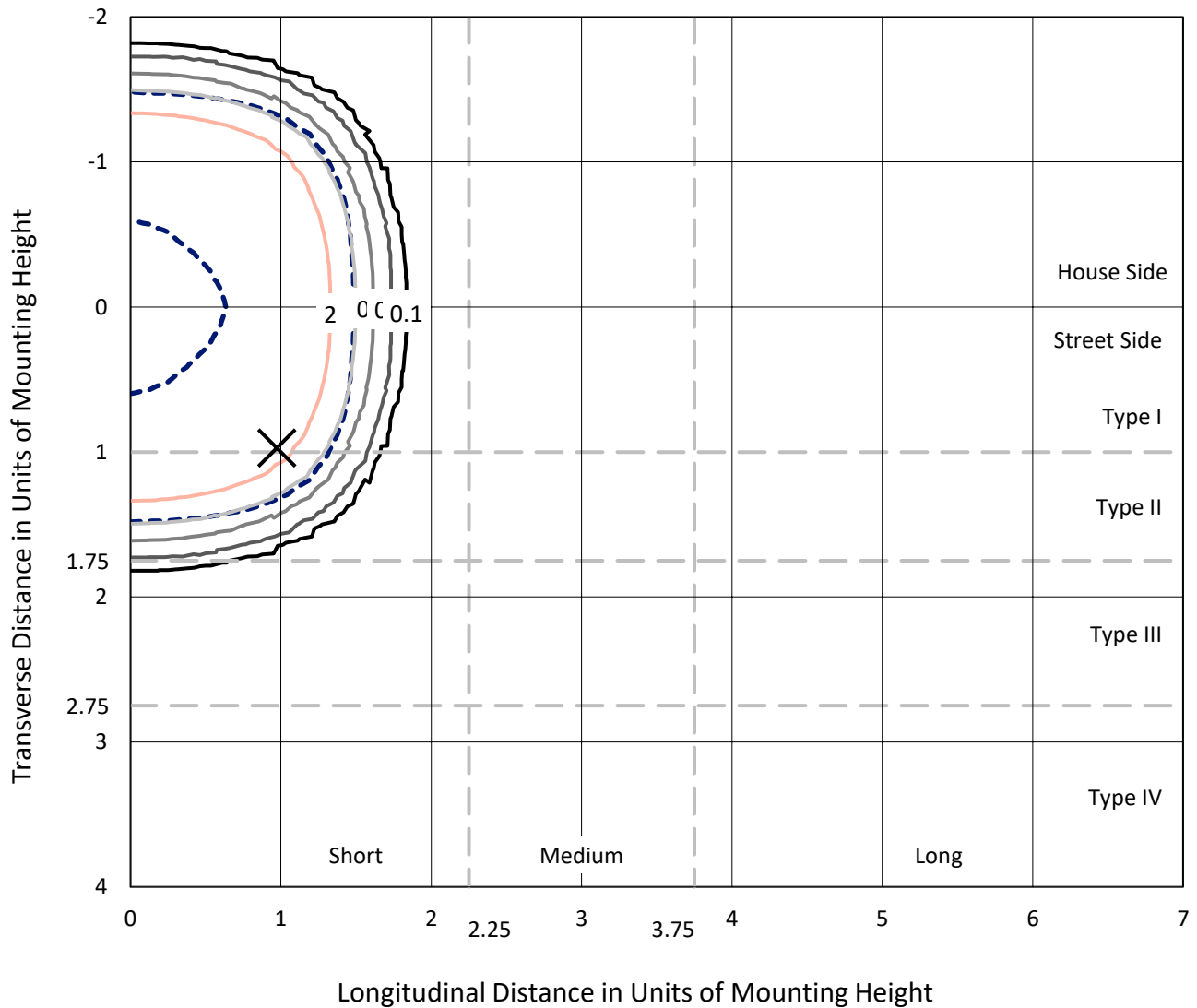
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

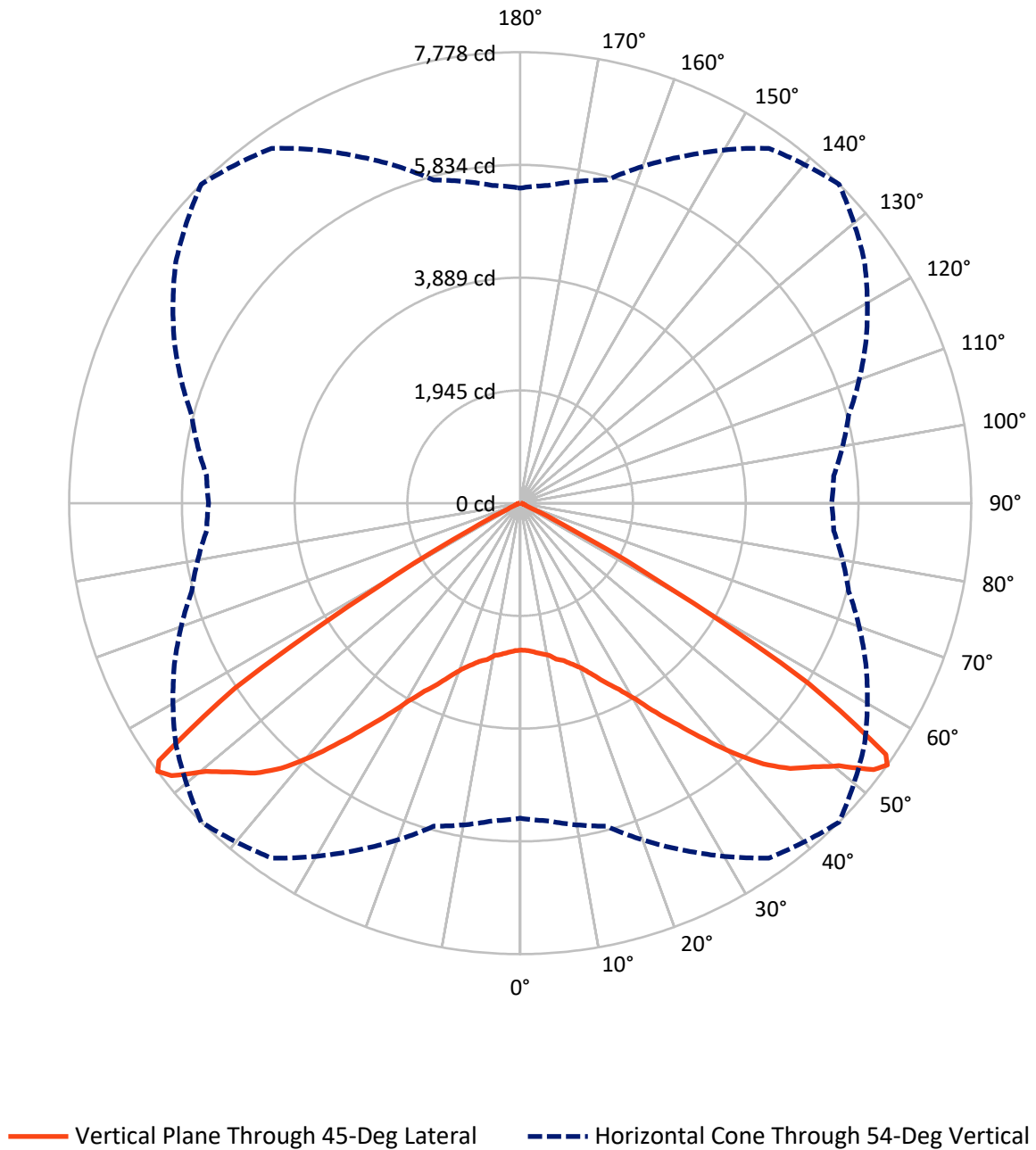
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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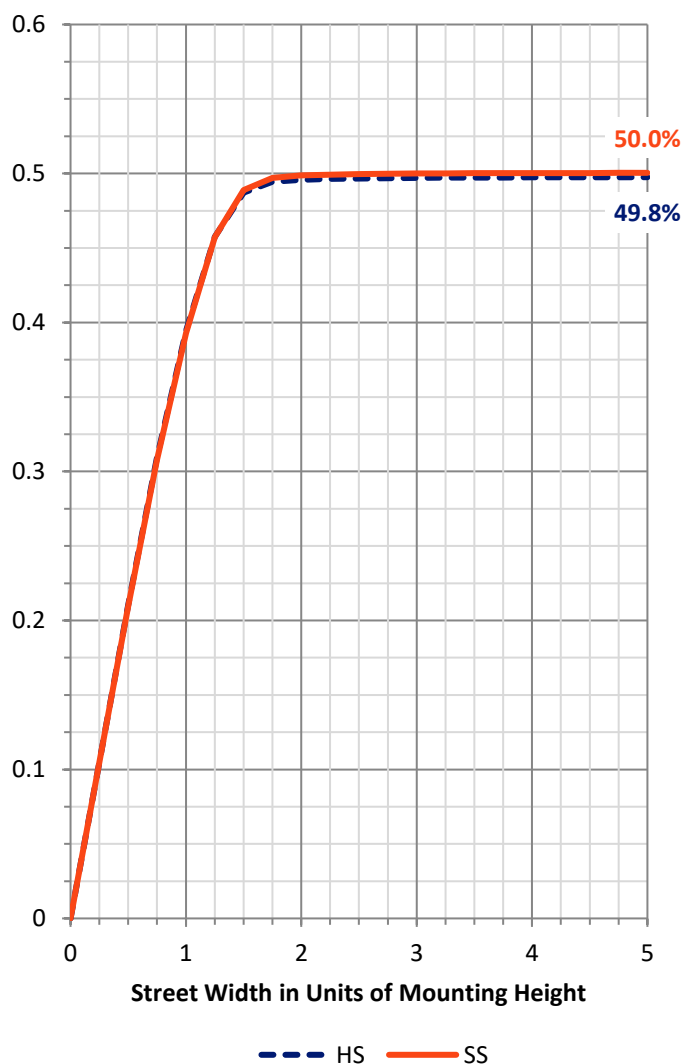
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7727.0	0.0	7727.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7727.0	0.0	7727.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15454.0	0.0	15454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	1.6
10°-20°	803.2	5.2
20°-30°	1574.2	10.2
30°-40°	2830.7	18.3
40°-50°	4845.6	31.4
50°-60°	4688.6	30.3
60°-70°	401.4	2.6
70°-80°	47.6	0.3
80°-90°	14.9	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°	15454.0	100.0
0°-180°	15454.0	100.0

Coefficient of Utilization

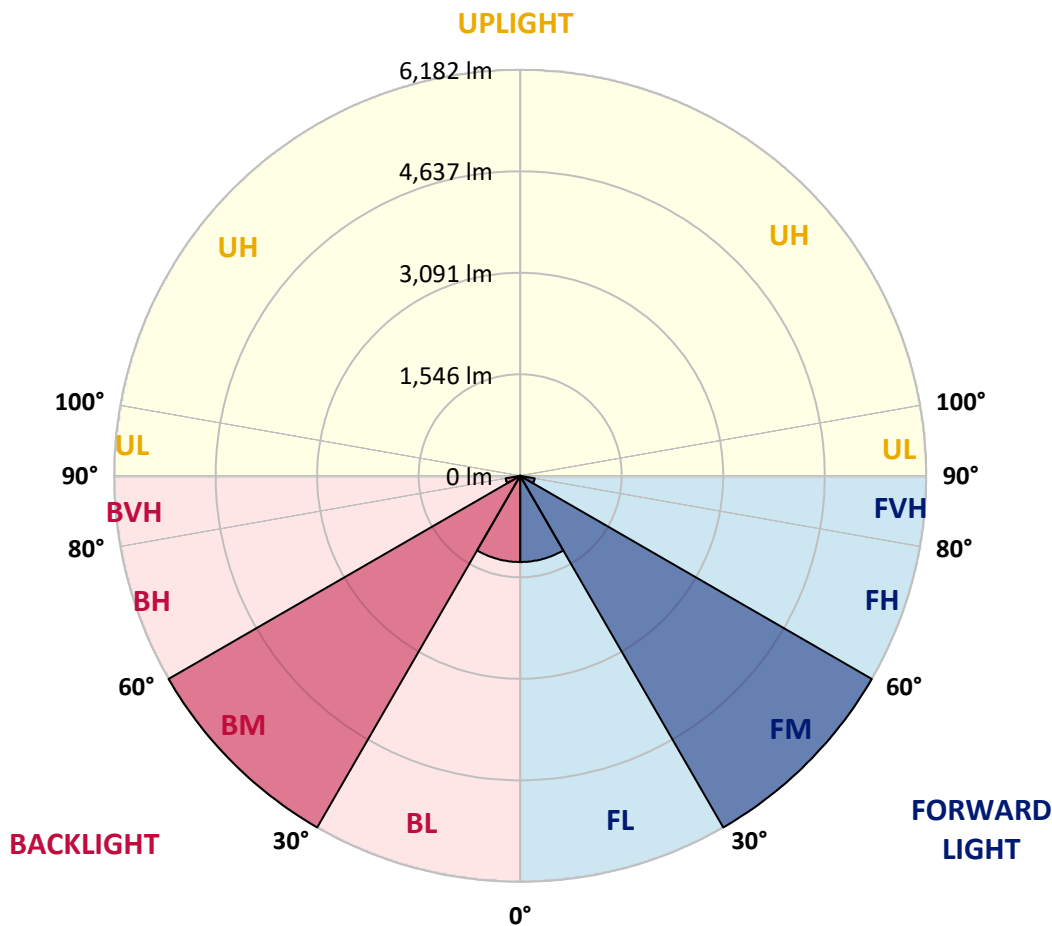


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.7	8.5			
FM (30°-60°)	6182.4	40.0			
FH (60°-80°)	224.5	1.5			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	1312.7	8.5	B3/2500		
BM (30°-60°)	6182.4	40.0	B4/8500		
BH (60°-80°)	224.5	1.5	B1/500		G0/660
BVH (80°-90°)	7.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2534.0	2534.0	2534.0	2534.0	2534.0	2534.0	2534.0	2534.0	2534.0	2534.0	2534.0
2.5°	2546.2	2560.9	2551.1	2558.5	2558.5	2546.2	2553.6	2524.2	2543.8	2529.1	2531.5
5°	2585.4	2582.9	2582.9	2585.4	2575.6	2580.5	2570.7	2560.9	2553.6	2543.8	2573.1
7.5°	2634.4	2634.4	2617.2	2622.1	2617.2	2624.6	2605.0	2585.4	2578.0	2570.7	2565.8
10°	2680.9	2676.0	2668.6	2690.7	2673.5	2663.7	2653.9	2641.7	2614.8	2605.0	2595.2
12.5°	2749.4	2747.0	2737.2	2759.2	2749.4	2759.2	2722.5	2690.7	2685.8	2653.9	2671.1
15°	2830.2	2852.3	2835.1	2835.1	2830.2	2818.0	2803.3	2788.6	2744.5	2732.3	2734.7
17.5°	2935.5	2928.1	2930.6	2930.6	2955.1	2923.3	2893.9	2857.1	2835.1	2827.8	2803.3
20°	3035.9	3045.7	3043.2	3060.4	3075.0	3040.8	3008.9	3004.0	2942.8	2952.6	2918.4
22.5°	3212.1	3204.8	3217.0	3229.3	3219.5	3214.6	3185.2	3148.5	3094.6	3070.1	3065.3
25°	3398.2	3386.0	3363.9	3393.3	3408.0	3430.0	3373.7	3354.1	3270.9	3234.2	3236.6
27.5°	3557.4	3574.5	3599.0	3611.2	3647.9	3640.6	3601.4	3537.8	3474.1	3432.5	3405.6
30°	3775.3	3785.0	3826.7	3843.8	3907.5	3924.6	3863.4	3789.9	3677.3	3623.5	3591.6
32.5°	3976.0	4044.6	4042.1	4127.8	4230.6	4301.6	4191.5	4078.8	3966.2	3902.6	3846.3
35°	4301.6	4289.4	4360.4	4451.0	4617.5	4698.3	4578.3	4448.5	4277.2	4174.3	4130.3
37.5°	4605.2	4610.1	4705.6	4850.1	5041.0	5165.9	5060.6	4847.6	4671.3	4539.1	4477.9
40°	5045.9	5055.7	5153.6	5317.7	5533.1	5667.8	5545.4	5329.9	5094.9	4992.1	4992.1
42.5°	5562.5	5604.1	5667.8	5809.8	6003.2	6152.5	6042.4	5873.4	5636.0	5503.7	5523.3
45°	6093.8	6113.4	6155.0	6365.5	6456.1	6529.6	6426.7	6348.4	6189.3	6027.7	6000.7
47.5°	6590.8	6598.1	6720.5	6786.6	6857.6	6796.4	6862.5	6759.7	6581.0	6424.3	6392.5
50°	6811.1	6798.9	6972.7	7173.5	7227.3	7119.6	7063.3	6994.7	6723.0	6534.5	6451.2
52.5°	6169.7	6240.7	6563.9	7122.1	7543.2	7633.8	7305.7	6989.9	6483.1	6115.8	6059.5
54°	5435.2	5501.3	5768.2	6595.7	7472.2	7778.2	7249.4	6578.5	5863.6	5427.8	5371.5
55°	4708.1	4634.6	5119.4	5964.0	7139.2	7650.9	7026.6	6047.3	5229.5	4830.5	4752.1
57.5°	2548.7	2560.9	2969.8	3767.9	5016.5	5866.1	5180.6	4091.1	3089.7	2641.7	2602.5
60°	807.9	827.5	1006.2	1522.8	2396.9	2862.0	2453.2	1642.8	1136.0	910.8	874.0
62.5°	252.2	262.0	286.4	426.0	656.1	937.7	734.5	440.7	328.1	301.1	306.0
65°	154.2	154.2	156.7	166.5	195.9	227.7	220.3	193.4	186.1	181.2	178.7
67.5°	100.4	97.9	102.8	110.2	115.1	117.5	124.9	132.2	129.8	124.9	124.9
70°	61.2	58.8	63.7	73.4	75.9	80.8	88.1	97.9	95.5	90.6	93.0
72.5°	34.3	34.3	36.7	44.1	51.4	56.3	63.7	71.0	73.4	71.0	71.0
75°	12.2	14.7	19.6	26.9	31.8	39.2	46.5	53.9	61.2	56.3	53.9
77.5°	4.9	4.9	9.8	17.1	24.5	31.8	44.1	51.4	56.3	51.4	46.5
80°	2.4	2.4	7.3	14.7	22.0	29.4	36.7	44.1	46.5	41.6	36.7
82.5°	2.4	2.4	7.3	14.7	22.0	26.9	39.2	44.1	49.0	44.1	36.7
85°	0.0	2.4	7.3	14.7	19.6	22.0	22.0	14.7	12.2	7.3	7.3
87.5°	0.0	0.0	2.4	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)