

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: P531896

Luminaire Tested: **GALN-SA7B-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531896
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-SA7B-727-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 29043 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

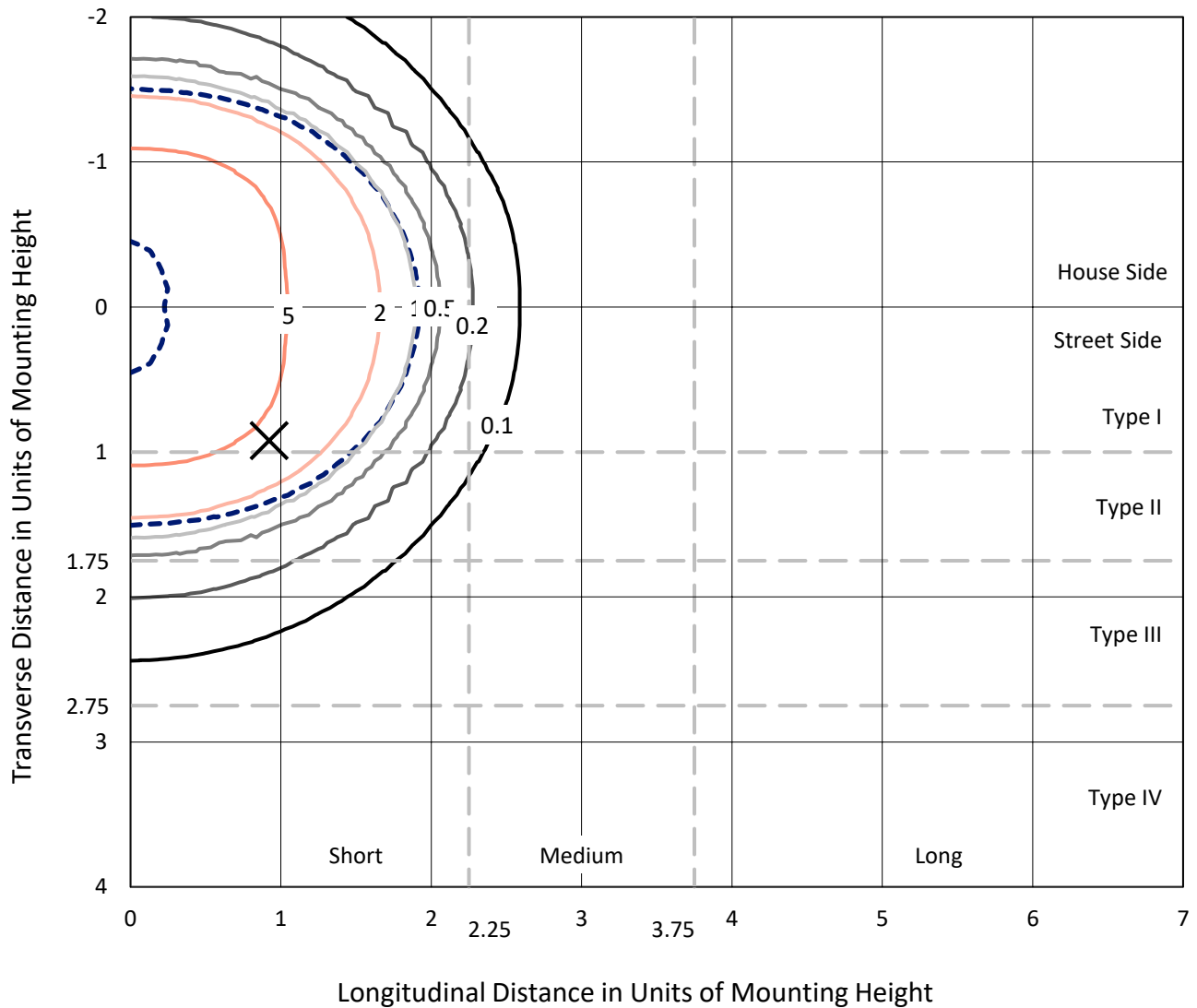
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

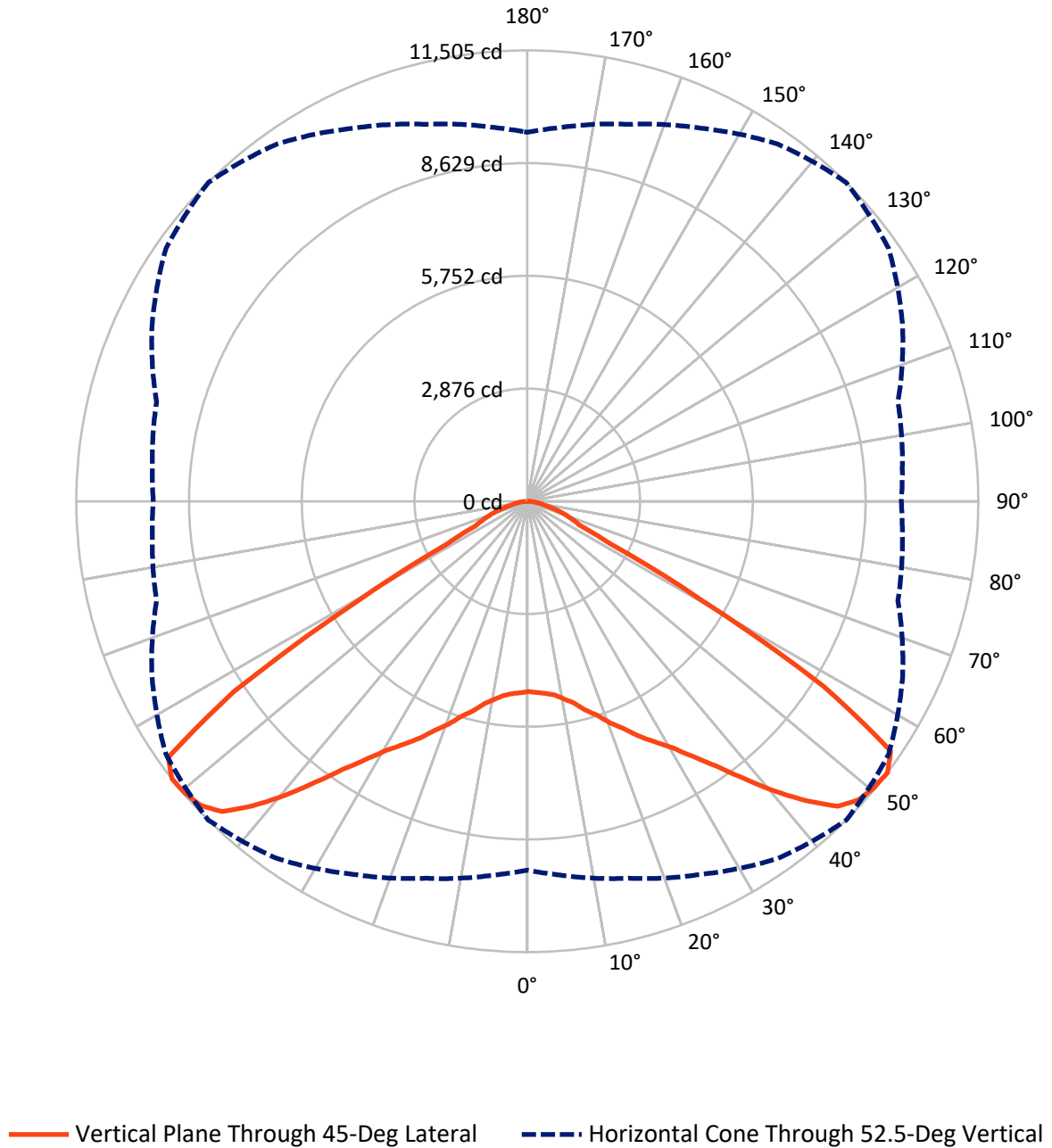
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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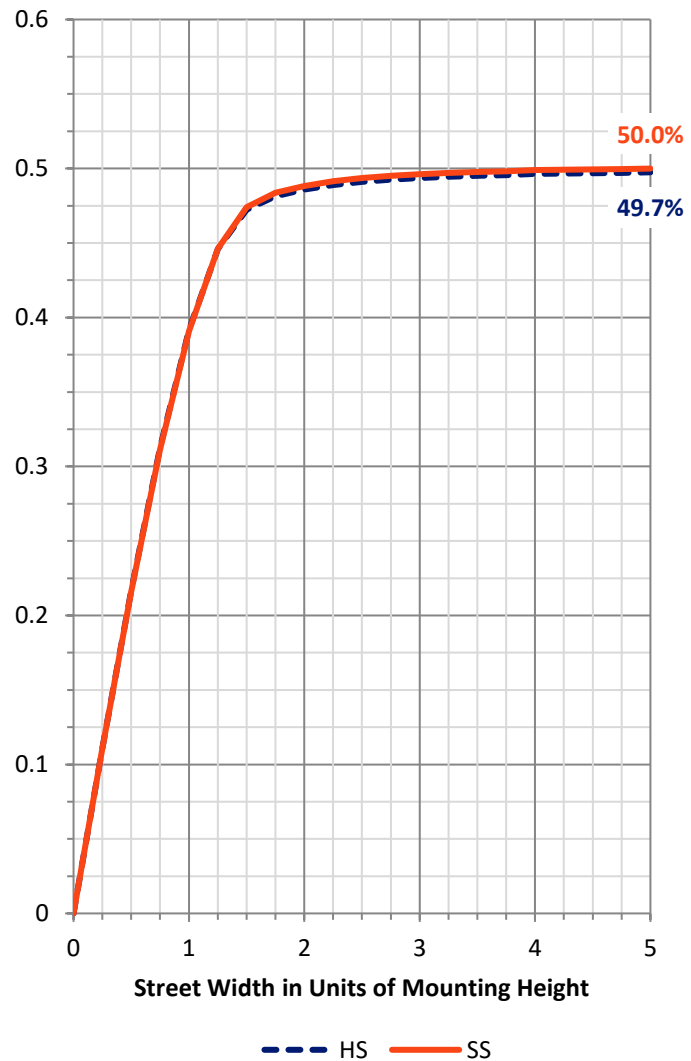
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14521.5	0.0	14521.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14521.5	0.0	14521.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29043.0	0.0	29043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.0	1.6
10°-20°	1567.3	5.4
20°-30°	2984.0	10.3
30°-40°	5123.7	17.6
40°-50°	7875.3	27.1
50°-60°	7997.2	27.5
60°-70°	2228.7	7.7
70°-80°	657.4	2.3
80°-90°	132.4	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°	29043.0	100.0
0°-180°	29043.0	100.0

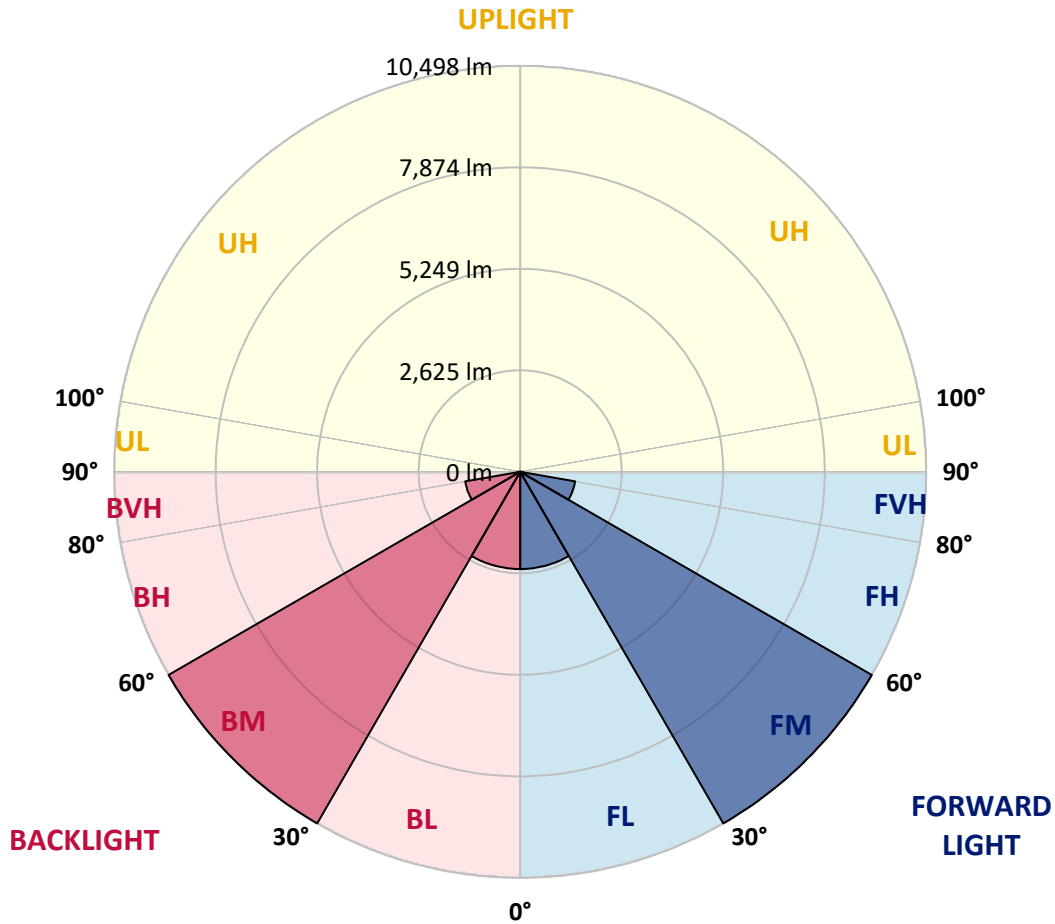


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.1	8.7			
FM (30°-60°)	10498.1	36.1			
FH (60°-80°)	1443.1	5.0			G1/1800
FVH (80°-90°)	66.2	0.2			G1/100
BL (0°-30°)	2514.1	8.7	B4/5000		
BM (30°-60°)	10498.1	36.1	B5		
BH (60°-80°)	1443.1	5.0	B3/2500		G1/1800
BVH (80°-90°)	66.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9
2.5°	4865.7	4815.3	4833.3	4844.1	4891.0	4887.4	4876.5	4891.0	4905.4	4909.0	4901.8
5°	4862.1	4826.1	4840.5	4851.3	4898.2	4923.4	4916.2	4977.5	5020.7	5009.9	5064.0
7.5°	4833.3	4854.9	4836.9	4891.0	4930.6	4991.9	5056.8	5114.4	5168.5	5229.8	5240.6
10°	4898.2	4898.2	4930.6	4973.9	5078.4	5125.2	5218.9	5301.8	5406.4	5478.5	5449.6
12.5°	4966.7	4977.5	4977.5	5089.2	5175.7	5280.2	5366.7	5478.5	5626.2	5712.7	5756.0
15°	5035.1	5042.3	5078.4	5229.8	5359.5	5525.3	5604.6	5705.5	5788.4	5950.6	5954.2
17.5°	5096.4	5136.1	5244.2	5413.6	5575.8	5734.4	5860.5	5965.0	6037.1	6102.0	6087.6
20°	5327.1	5355.9	5467.6	5637.0	5878.5	6033.5	6076.8	6094.8	6141.6	6271.4	6231.7
22.5°	5550.5	5561.4	5665.9	5925.4	6094.8	6300.2	6347.1	6336.3	6354.3	6386.7	6444.4
25°	5781.2	5799.2	5943.4	6163.3	6401.1	6646.2	6685.9	6603.0	6577.8	6613.8	6617.4
27.5°	6076.8	6080.4	6264.2	6455.2	6725.5	6956.2	7017.5	6952.6	6833.7	6862.5	6909.3
30°	6451.6	6426.4	6610.2	6884.1	7168.8	7298.6	7403.1	7370.7	7240.9	7215.7	7176.1
32.5°	6884.1	6891.3	7057.1	7356.3	7543.7	7759.9	7871.7	7817.6	7734.7	7691.5	7716.7
35°	7493.2	7525.7	7637.4	7886.1	8188.8	8297.0	8473.6	8358.2	8142.0	8196.1	8242.9
37.5°	7994.2	8087.9	8297.0	8592.5	8772.7	8971.0	9035.8	8880.9	8722.3	8657.4	8812.4
40°	8761.9	8733.1	8963.8	9259.3	9526.0	9724.3	9641.4	9486.4	9093.5	9097.1	9140.4
42.5°	9421.5	9435.9	9612.5	9965.7	10329.8	10452.3	10189.2	9810.8	9374.6	9327.8	9421.5
45°	9976.6	10034.2	10135.1	10607.3	10964.1	11097.5	10610.9	10164.0	9580.1	9385.5	9540.4
47.5°	10174.8	10268.5	10488.4	10920.9	11274.1	11382.2	10993.0	10351.4	9771.1	9453.9	9536.8
50°	10203.6	10171.2	10531.6	10928.1	11238.0	11472.3	11129.9	10488.4	9724.3	9558.5	9533.2
52.5°	9414.3	9572.9	9958.5	10502.8	11129.9	11504.8	11252.5	10564.0	9789.1	9601.7	9540.4
55°	7619.4	7432.0	8134.8	9050.3	10203.6	11245.2	11209.2	10603.7	9828.8	9673.8	9590.9
57.5°	4253.0	4307.1	4703.5	5698.3	7186.9	8916.9	9965.7	10185.6	9810.8	9720.7	9763.9
60°	1967.9	1985.9	2155.3	2620.3	3543.0	5056.8	6437.2	7839.2	8484.4	8614.1	8614.1
62.5°	1466.9	1459.7	1503.0	1585.9	1780.5	2324.7	3103.3	4217.0	5103.6	5723.5	5885.7
65°	1326.4	1322.8	1344.4	1373.2	1387.6	1463.3	1636.3	1978.7	2267.1	2432.9	2404.0
67.5°	1160.6	1157.0	1164.2	1182.2	1207.4	1247.1	1290.3	1362.4	1463.3	1456.1	1438.1
70°	937.1	937.1	947.9	962.3	991.2	1038.0	1088.5	1138.9	1225.4	1243.5	1239.9
72.5°	692.0	681.2	702.8	731.7	760.5	818.2	872.2	919.1	980.4	998.4	991.2
75°	439.7	446.9	461.3	493.8	544.2	583.9	641.6	681.2	720.8	735.3	738.9
77.5°	245.1	252.3	277.5	317.2	367.6	410.9	461.3	493.8	519.0	522.6	526.2
80°	147.8	151.4	176.6	212.7	255.9	302.8	342.4	374.8	396.5	385.7	382.1
82.5°	90.1	93.7	115.3	147.8	183.8	219.9	263.1	291.9	313.6	299.2	284.7
85°	46.9	50.5	68.5	90.1	118.9	137.0	137.0	122.5	118.9	111.7	108.1
87.5°	14.4	14.4	18.0	21.6	18.0	21.6	25.2	28.8	28.8	32.4	28.8
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)