

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: P532827

Luminaire Tested: **GALN-SA8B-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532827
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-SA8B-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 20044 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

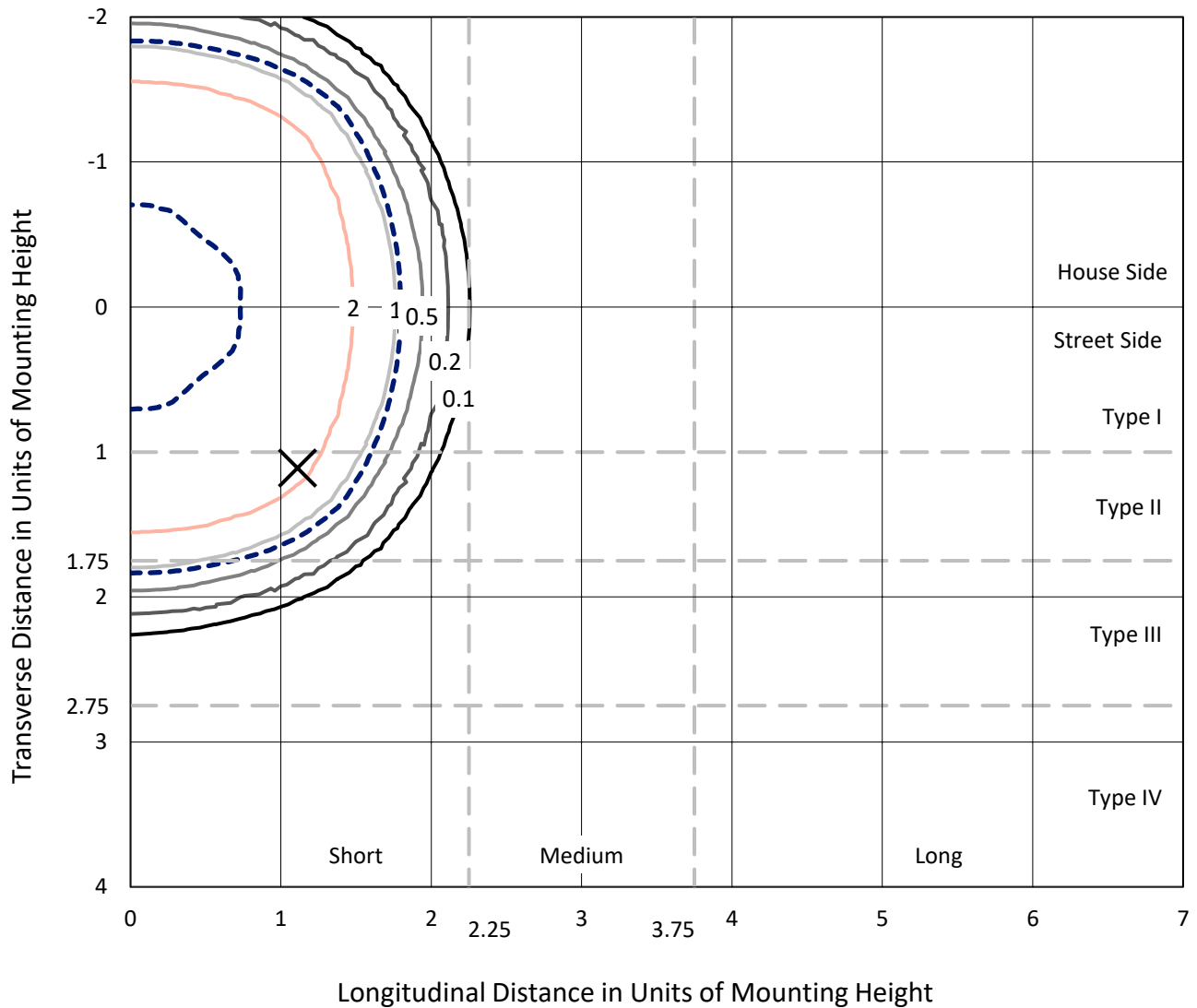
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

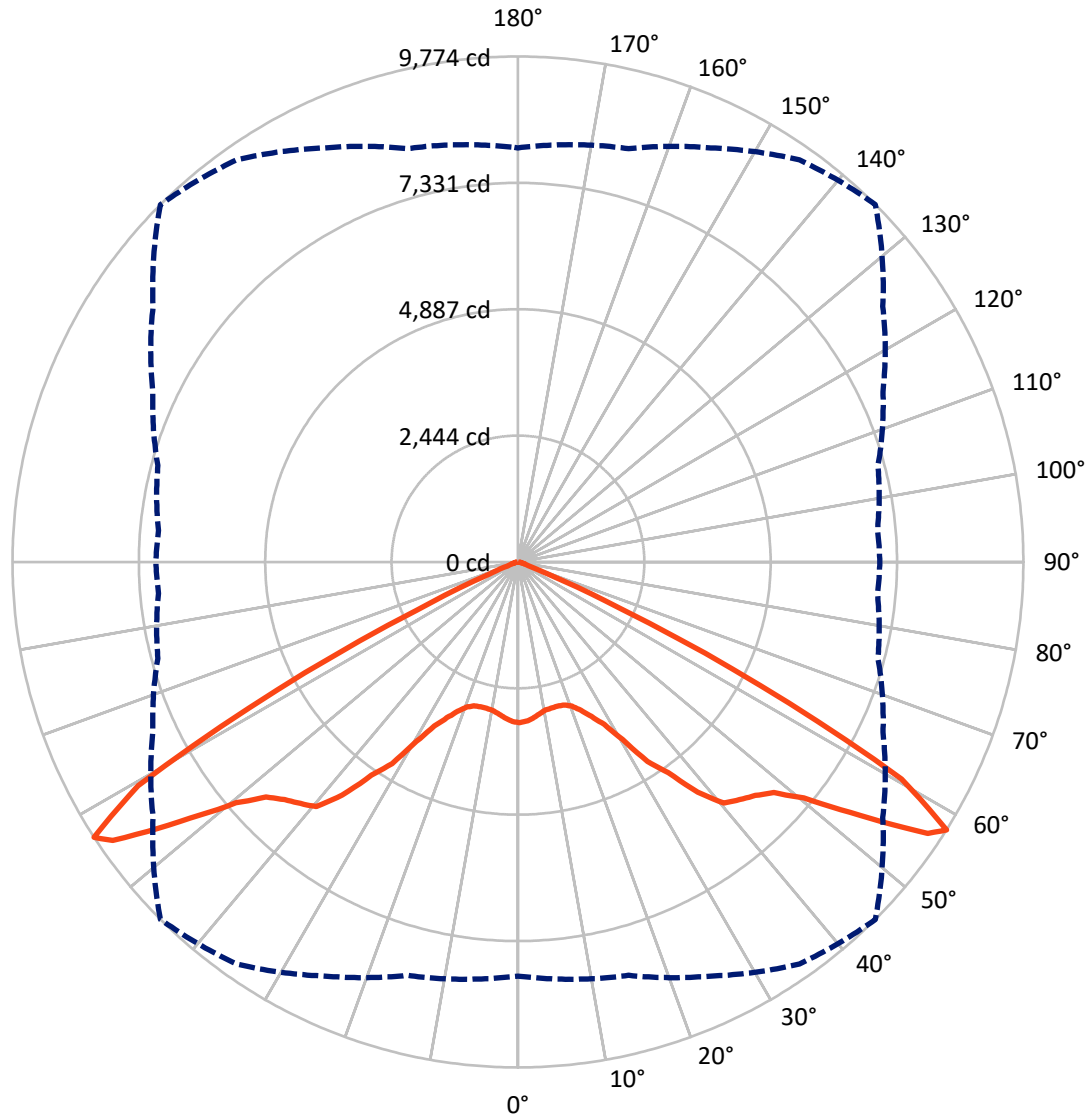
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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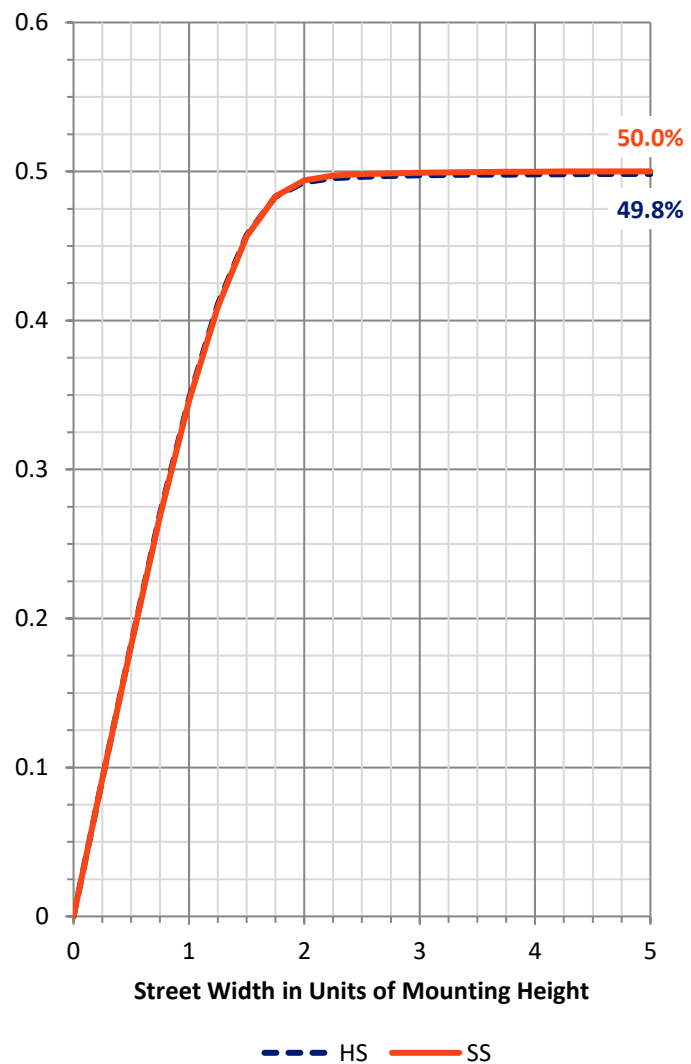
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10022.0	0.0	10022.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10022.0	0.0	10022.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20044.0	0.0	20044.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	1.4
10°-20°	825.8	4.1
20°-30°	1524.3	7.6
30°-40°	2997.8	15.0
40°-50°	4882.6	24.4
50°-60°	6963.2	34.7
60°-70°	2410.8	12.0
70°-80°	129.3	0.6
80°-90°	24.3	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°	20044.0	100.0
0°-180°	20044.0	100.0



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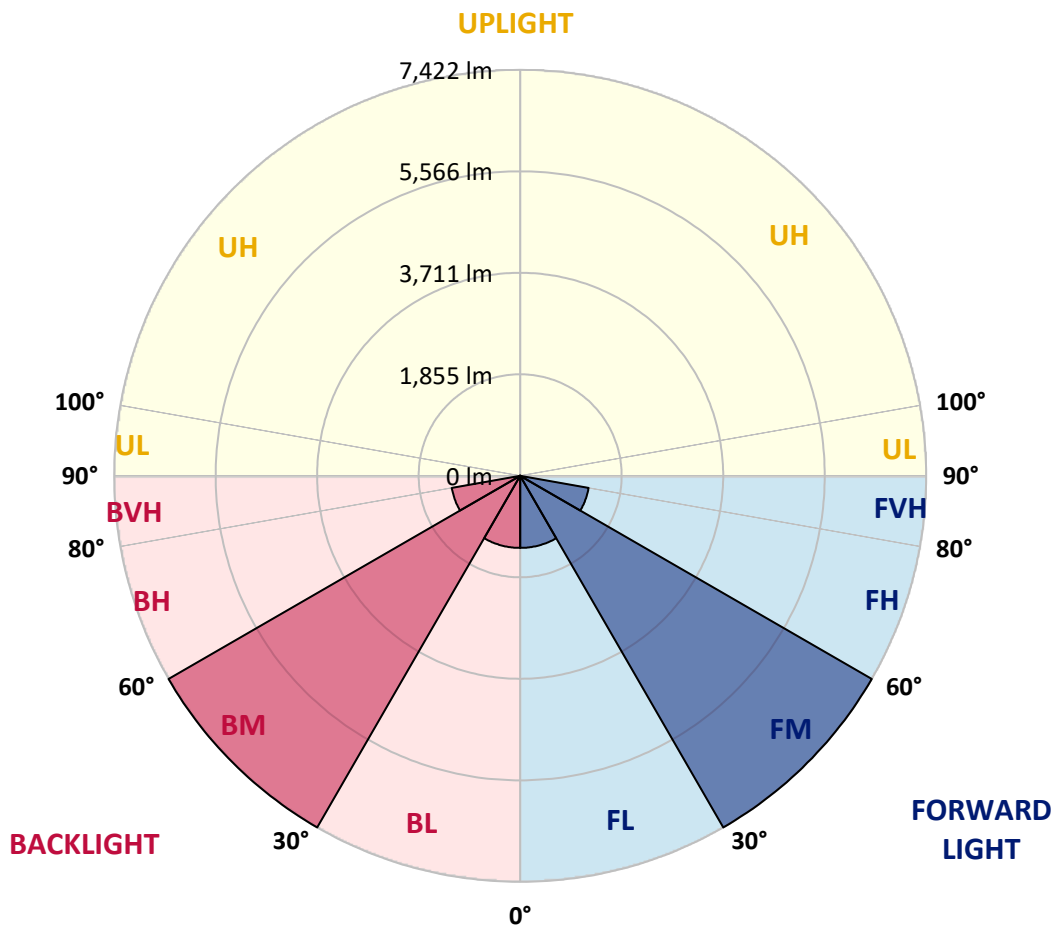
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.9	6.6			
FM (30°-60°)	7421.8	37.0			
FH (60°-80°)	1270.1	6.3			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1317.9	6.6	B3/2500		
BM (30°-60°)	7421.8	37.0	B4/8500		
BH (60°-80°)	1270.1	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.2	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°	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0
2.5°	3100.7	3117.4	3096.5	3088.1	3084.0	3084.0	3071.4	3071.4	3067.2	3071.4	3054.7
5°	3050.5	3067.2	3067.2	3063.1	3038.0	3033.8	3021.3	3012.9	3017.1	3000.4	3012.9
7.5°	3000.4	3012.9	2996.2	2992.0	2983.7	2967.0	2962.8	2925.2	2929.3	2929.3	2937.7
10°	2992.0	2987.8	2962.8	2941.9	2916.8	2912.6	2900.1	2891.7	2891.7	2887.6	2900.1
12.5°	2992.0	2971.1	2967.0	2921.0	2879.2	2895.9	2862.5	2841.6	2870.8	2879.2	2895.9
15°	2987.8	3008.7	2937.7	2916.8	2887.6	2891.7	2862.5	2841.6	2858.3	2866.7	2879.2
17.5°	3012.9	3000.4	2979.5	2937.7	2925.2	2908.5	2870.8	2854.1	2854.1	2875.0	2879.2
20°	3079.8	3046.4	3004.6	2983.7	2996.2	2975.3	2929.3	2866.7	2883.4	2900.1	2912.6
22.5°	3142.5	3117.4	3088.1	3075.6	3146.6	3113.2	3033.8	2962.8	2937.7	2967.0	2987.8
25°	3263.7	3263.7	3209.3	3226.0	3305.4	3309.6	3217.7	3092.3	3075.6	3088.1	3096.5
27.5°	3510.2	3522.7	3476.8	3493.5	3526.9	3556.2	3476.8	3372.3	3334.7	3330.5	3343.0
30°	3777.6	3802.7	3798.5	3869.6	3965.7	3982.4	3865.4	3694.1	3581.2	3560.3	3577.1
32.5°	4128.7	4141.2	4132.8	4216.4	4475.5	4596.7	4291.6	4049.3	3898.8	3936.4	3898.8
35°	4788.9	4776.4	4684.4	4701.2	4914.3	5002.0	4709.5	4554.9	4483.9	4559.1	4542.4
37.5°	5357.2	5311.3	5236.0	5344.7	5566.2	5645.6	5340.5	5068.9	4939.4	5064.7	5119.0
40°	5837.8	5720.8	5616.3	5725.0	6021.7	6130.3	5683.2	5461.7	5411.6	5503.5	5620.5
42.5°	6243.1	6167.9	6030.0	6038.4	6234.8	6284.9	5925.6	5796.0	5745.9	5892.1	5950.6
45°	6531.5	6460.4	6330.9	6322.5	6473.0	6439.5	6117.8	6030.0	6059.3	6155.4	6184.6
47.5°	6677.7	6715.3	6640.1	6661.0	6740.4	6661.0	6406.1	6406.1	6339.3	6397.8	6368.5
50°	7099.8	6982.8	7078.9	7078.9	7162.5	7170.8	6915.9	6824.0	6644.3	6544.0	6544.0
52.5°	7592.9	7601.3	7638.9	7776.8	7918.8	8040.0	7676.5	7283.7	6982.8	6853.2	6836.5
55°	7998.2	8081.8	8232.3	8491.3	8900.9	9068.0	8441.2	7739.2	7371.4	7170.8	7129.0
56°	8219.7	8140.3	8399.4	8754.6	9289.5	9506.8	8566.6	7831.1	7425.7	7200.1	7195.9
57.5°	8006.6	8094.4	8274.0	8834.0	9490.1	9774.2	8612.5	7789.3	7208.4	6978.6	6999.5
60°	6322.5	6406.1	6648.5	7275.3	8303.3	8524.8	7287.8	6422.8	5904.7	5574.5	5578.7
62.5°	3577.1	3639.7	3827.8	4408.6	5048.0	5261.1	4542.4	3965.7	3606.3	3422.4	3363.9
65°	1316.3	1291.3	1320.5	1617.2	2010.0	2189.7	1888.8	1596.3	1408.3	1341.4	1316.3
67.5°	493.1	455.5	426.2	455.5	572.5	605.9	555.8	463.8	434.6	447.1	455.5
70°	305.1	288.3	229.8	217.3	213.1	208.9	221.5	234.0	267.4	313.4	321.8
72.5°	213.1	200.6	163.0	154.6	146.3	142.1	163.0	179.7	208.9	242.4	246.5
75°	83.6	87.8	83.6	91.9	96.1	100.3	117.0	129.5	142.1	142.1	137.9
77.5°	16.7	16.7	25.1	33.4	41.8	54.3	79.4	91.9	96.1	91.9	79.4
80°	0.0	0.0	8.4	16.7	33.4	46.0	71.0	79.4	87.8	79.4	62.7
82.5°	0.0	0.0	8.4	20.9	33.4	41.8	66.9	83.6	96.1	87.8	66.9
85°	0.0	0.0	8.4	16.7	25.1	29.3	29.3	20.9	20.9	12.5	8.4
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)