

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: P457065

Luminaire Tested: **GALN-SA8B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

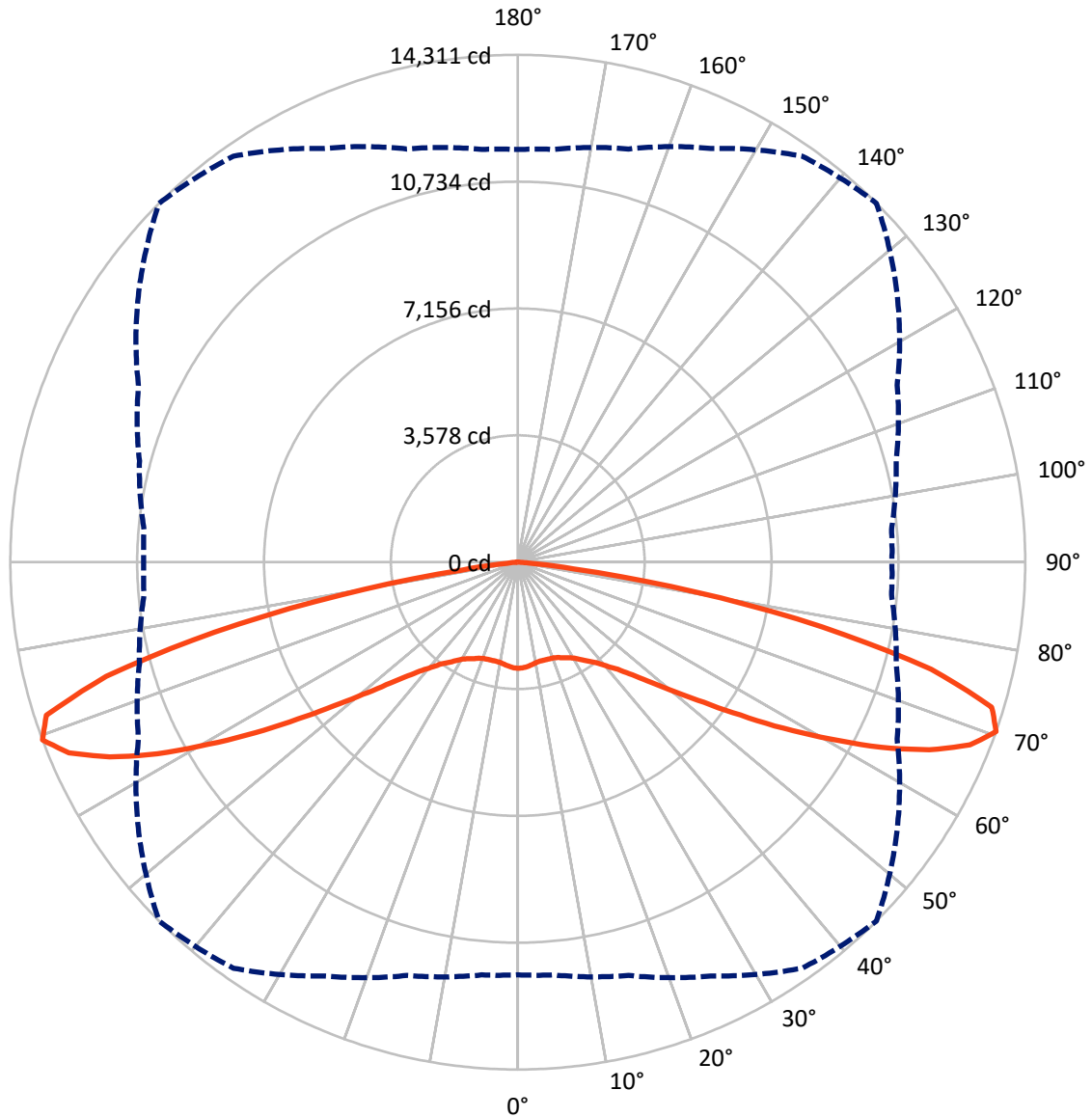
Lumens per Lamp: N/A
Luminaire Lumens: 35352 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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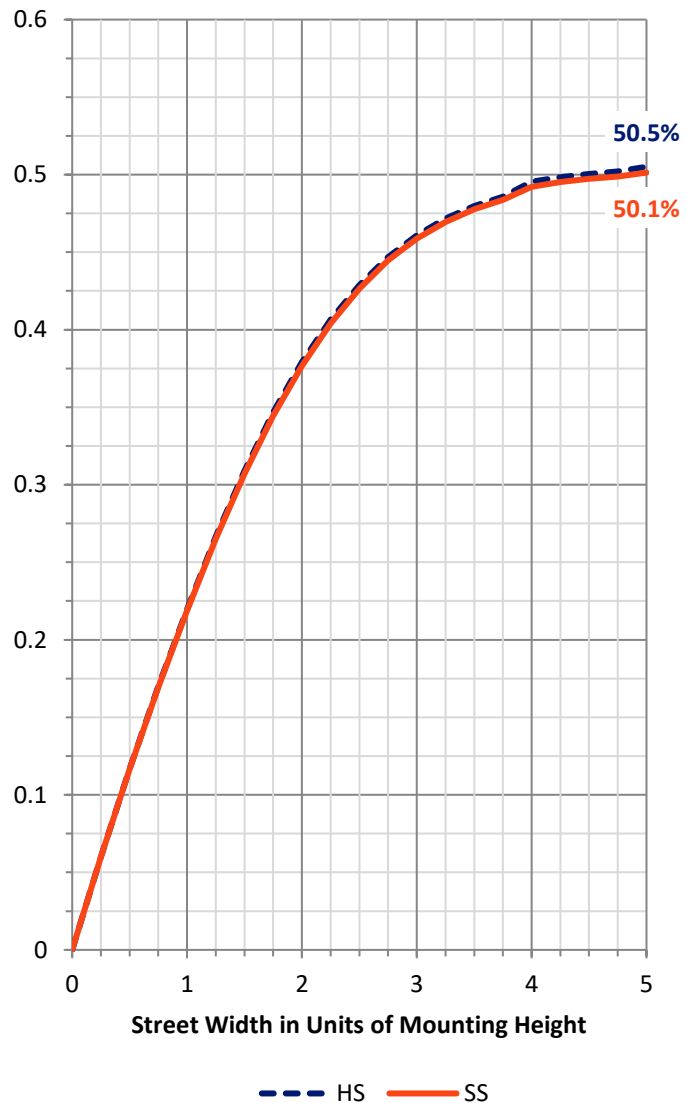
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17676.0	0.0	17676.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17676.0	0.0	17676.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35352.0	0.0	35352.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	0.8
10°-20°	819.4	2.3
20°-30°	1396.1	3.9
30°-40°	2163.9	6.1
40°-50°	3642.2	10.3
50°-60°	6626.9	18.7
60°-70°	11219.1	31.7
70°-80°	8684.0	24.6
80°-90°	520.4	1.5
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°	35352.0	100.0
0°-180°	35352.0	100.0



REPORT NUMBER: P457065

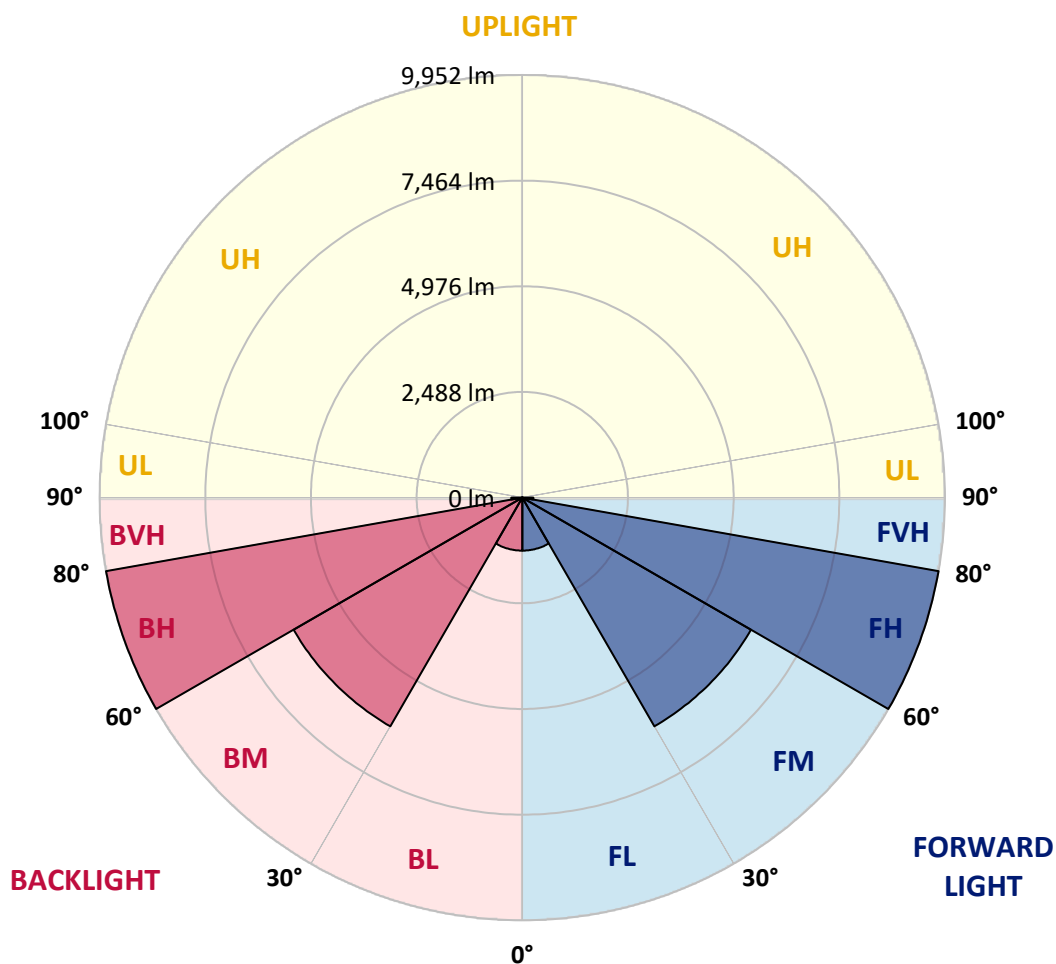
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1247.7	3.5			
FM	(30°-60°)	6216.5	17.6			
FH	(60°-80°)	9951.6	28.1			G4/12000
FVH	(80°-90°)	260.2	0.7			G3/500
BL	(0°-30°)	1247.7	3.5	B3/2500		
BM	(30°-60°)	6216.5	17.6	B4/8500		
BH	(60°-80°)	9951.6	28.1	B5		G4/12000
BVH	(80°-90°)	260.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2993.0	2993.0	2993.0	2993.0	2993.0	2993.0	2993.0	2993.0	2993.0	2993.0	2993.0
2.5°	2985.5	2987.4	2987.4	2983.6	2981.8	2981.8	2979.9	2979.9	2985.5	2987.4	2989.2
5°	2959.4	2959.4	2959.4	2957.5	2953.8	2953.8	2950.0	2950.0	2951.9	2957.5	2953.8
7.5°	2923.9	2927.6	2927.6	2920.2	2914.6	2914.6	2912.7	2914.6	2916.4	2922.0	2920.2
10°	2912.7	2914.6	2905.2	2892.2	2882.8	2877.2	2879.1	2882.8	2892.2	2895.9	2897.8
12.5°	2920.2	2920.2	2903.4	2884.7	2867.9	2860.4	2858.5	2871.6	2888.4	2899.6	2903.4
15°	2929.5	2925.8	2905.2	2881.0	2864.1	2862.3	2860.4	2869.8	2894.0	2916.4	2918.3
17.5°	2935.1	2933.2	2907.1	2877.2	2867.9	2867.9	2866.0	2873.5	2899.6	2927.6	2929.5
20°	2953.8	2948.2	2918.3	2886.6	2879.1	2882.8	2877.2	2886.6	2914.6	2948.2	2955.6
22.5°	2991.1	2985.5	2955.6	2923.9	2920.2	2920.2	2918.3	2927.6	2957.5	2993.0	2998.6
25°	3035.9	3030.3	3002.3	2979.9	2983.6	2991.1	2987.4	2989.2	3013.5	3043.4	3052.7
27.5°	3095.7	3086.3	3062.1	3043.4	3054.6	3054.6	3054.6	3052.7	3067.7	3095.7	3105.0
30°	3168.5	3164.8	3138.6	3136.7	3146.1	3136.7	3136.7	3138.6	3140.5	3166.6	3176.0
32.5°	3263.7	3256.2	3243.2	3239.4	3265.6	3273.0	3246.9	3222.6	3235.7	3261.8	3267.4
35°	3420.5	3409.3	3390.7	3370.1	3390.7	3426.1	3370.1	3351.5	3385.1	3420.5	3424.3
37.5°	3633.4	3627.8	3597.9	3560.6	3558.7	3596.1	3538.2	3536.3	3599.8	3642.7	3648.3
40°	3900.4	3906.0	3868.7	3833.2	3814.5	3844.4	3799.6	3816.4	3878.0	3926.5	3922.8
42.5°	4275.7	4255.1	4197.3	4163.7	4143.1	4131.9	4120.7	4146.9	4215.9	4268.2	4309.3
45°	4714.5	4707.0	4634.2	4593.1	4548.3	4531.5	4527.7	4574.4	4658.4	4721.9	4727.5
47.5°	5211.1	5194.3	5147.6	5104.7	5087.9	5067.3	5048.7	5084.1	5168.2	5213.0	5226.0
50°	5722.7	5726.4	5726.4	5719.0	5735.8	5739.5	5689.1	5702.2	5748.8	5745.1	5741.4
52.5°	6307.1	6327.6	6424.7	6434.1	6514.4	6568.5	6477.0	6422.9	6406.1	6305.2	6312.7
55°	6994.2	7012.9	7158.5	7304.1	7520.7	7612.2	7419.9	7251.9	7132.4	6979.3	6986.7
57.5°	7851.2	7860.5	7998.7	8278.8	8622.3	8837.0	8499.1	8166.7	7924.0	7778.4	7720.5
60°	8773.6	8782.9	8984.5	9326.2	9860.2	10121.6	9703.4	9160.0	8853.8	8631.7	8646.6
62.5°	9880.8	9918.1	10099.2	10569.7	11217.6	11510.7	10956.2	10229.9	9815.4	9539.1	9550.3
65°	11066.4	11129.9	11327.8	11845.0	12442.4	12758.0	12078.3	11240.0	10724.7	10386.7	10422.2
67.5°	11835.6	11891.6	12177.3	12748.6	13493.6	13755.0	12877.5	11901.0	11256.8	10853.5	10778.8
70°	11639.6	11686.3	12067.1	12877.5	13980.9	14311.4	13067.9	11803.9	11045.8	10580.9	10551.0
72.5°	10274.7	10177.6	10734.0	11897.2	13424.5	13979.1	12468.6	10780.7	9826.6	9348.6	9292.6
75°	6809.4	7020.3	7841.9	9212.3	11357.6	12044.7	10642.5	8655.9	7455.4	7057.7	6996.1
77.5°	2276.0	2438.4	3168.5	5222.3	7742.9	8775.4	7754.1	5661.1	4005.0	3226.4	3241.3
80°	603.1	595.6	771.1	1435.8	3345.9	5082.3	3894.8	1917.5	1049.3	759.9	720.7
82.5°	216.6	242.7	311.8	397.7	886.9	1579.6	1114.7	537.7	394.0	291.3	281.9
85°	95.2	93.4	134.4	158.7	222.2	295.0	261.4	227.8	199.8	132.6	123.2
87.5°	20.5	20.5	31.7	24.3	39.2	39.2	48.5	57.9	59.7	39.2	31.7
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)