

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: P533009

Luminaire Tested: **GALN-SA8B-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533009
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-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 19045 lumens
Efficiency: N/A
Efficacy: 58.6 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

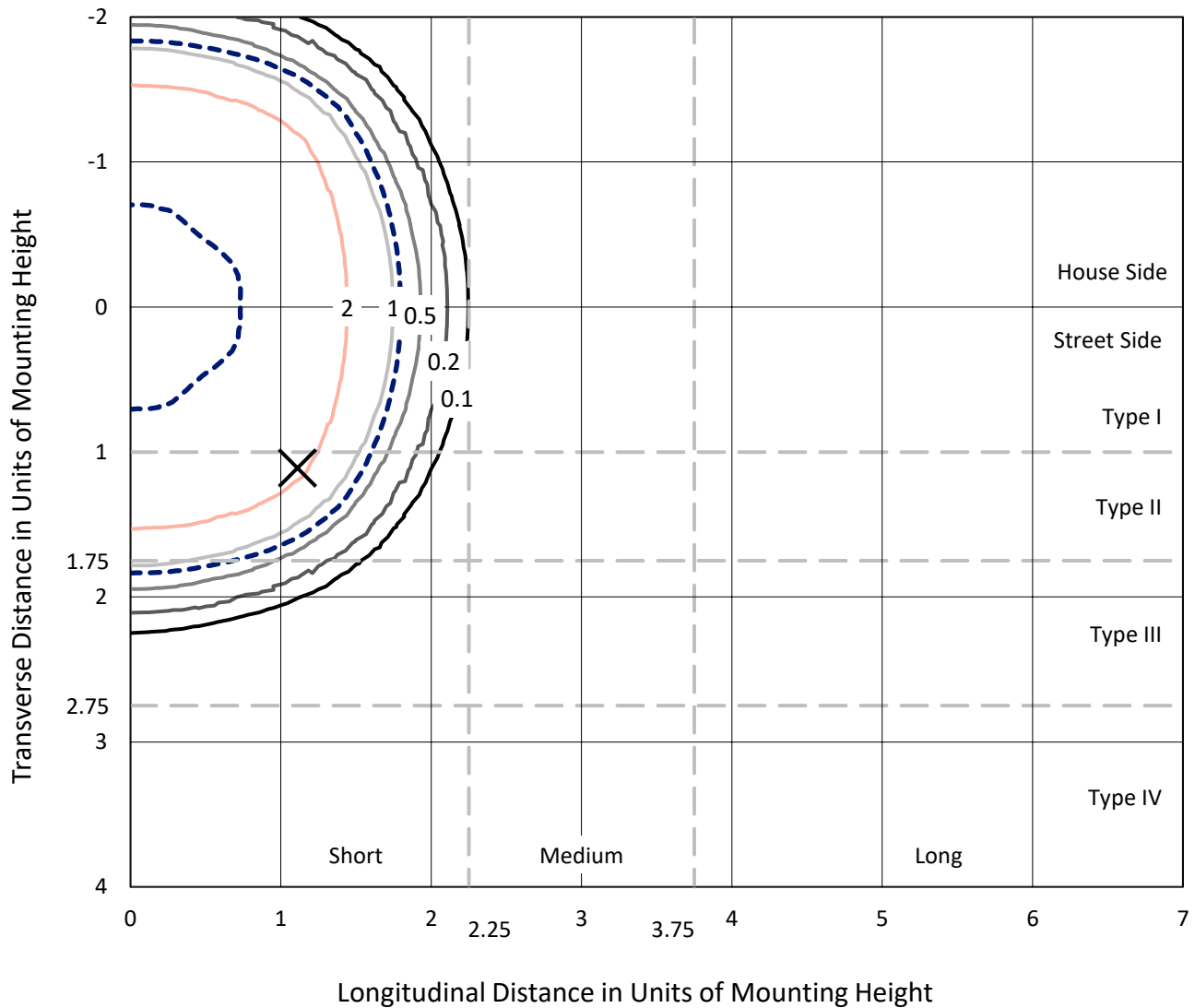
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

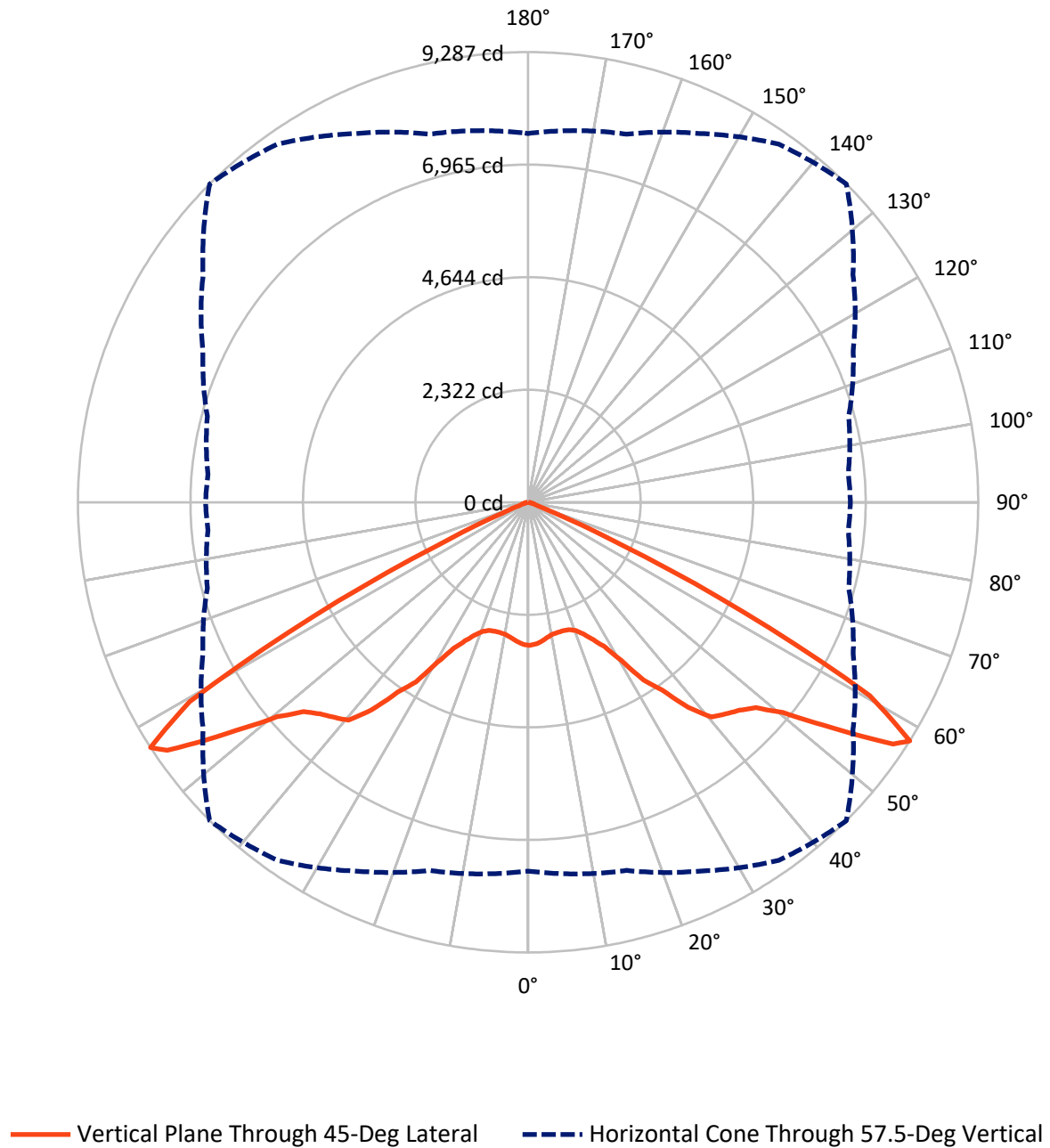
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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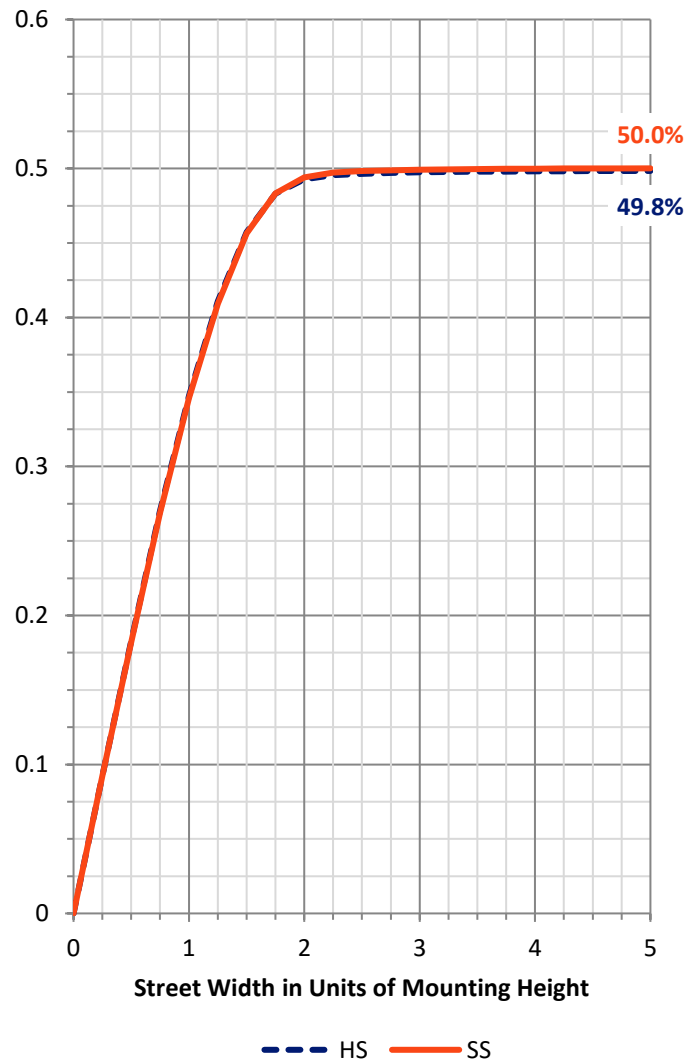
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9522.5	0.0	9522.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9522.5	0.0	9522.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19045.0	0.0	19045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.4
10°-20°	784.7	4.1
20°-30°	1448.4	7.6
30°-40°	2848.4	15.0
40°-50°	4639.3	24.4
50°-60°	6616.2	34.7
60°-70°	2290.7	12.0
70°-80°	122.9	0.6
80°-90°	23.1	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°	19045.0	100.0
0°-180°	19045.0	100.0

Coefficient of Utilization



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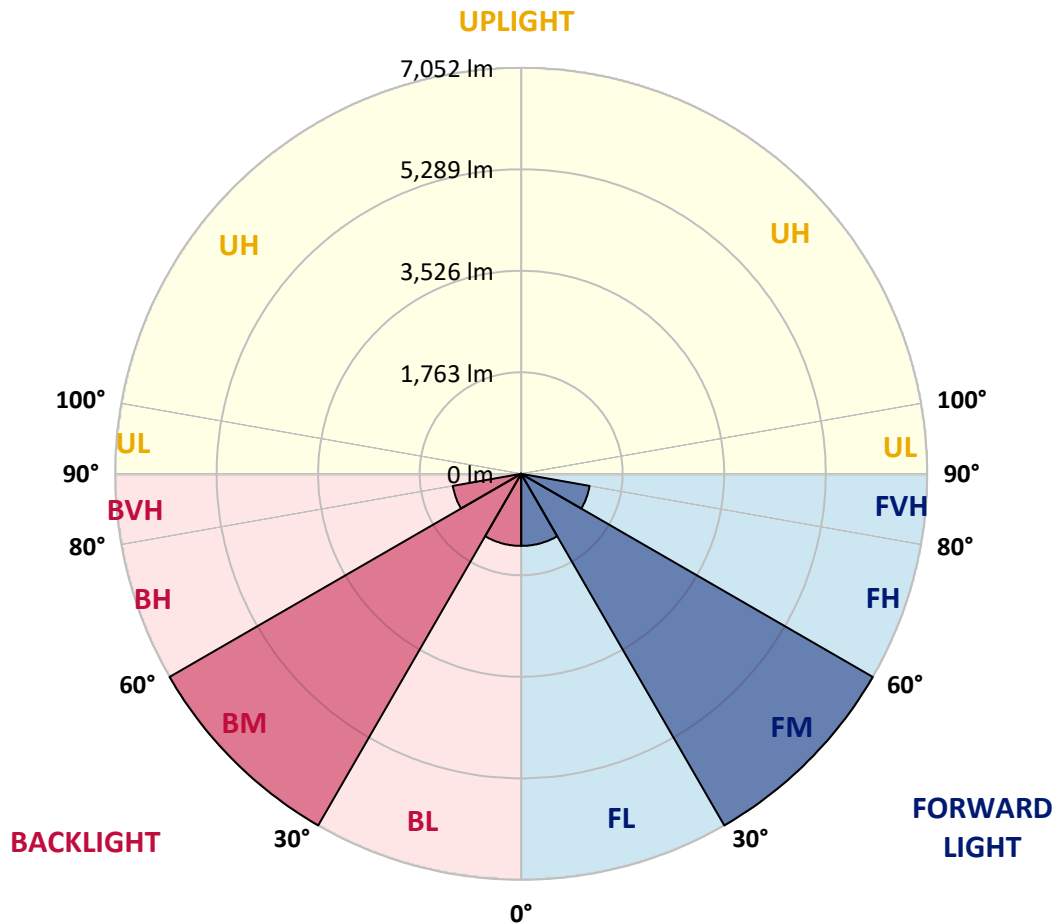
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.2	6.6			
FM	(30°-60°)	7051.9	37.0			
FH	(60°-80°)	1206.8	6.3			G1/1800
FVH	(80°-90°)	11.5	0.1			G1/100
BL	(0°-30°)	1252.2	6.6	B3/2500		
BM	(30°-60°)	7051.9	37.0	B4/8500		
BH	(60°-80°)	1206.8	6.3	B3/2500		G1/1800
BVH	(80°-90°)	11.5	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°	2954.1	2954.1	2954.1	2954.1	2954.1	2954.1	2954.1	2954.1	2954.1	2954.1	2954.1
2.5°	2946.1	2962.0	2942.2	2934.2	2930.3	2930.3	2918.3	2918.3	2914.4	2918.3	2902.5
5°	2898.5	2914.4	2914.4	2910.4	2886.6	2882.6	2870.7	2862.8	2866.7	2850.8	2862.8
7.5°	2850.8	2862.8	2846.9	2842.9	2835.0	2819.1	2815.1	2779.4	2783.3	2783.3	2791.3
10°	2842.9	2838.9	2815.1	2795.3	2771.4	2767.5	2755.6	2747.6	2747.6	2743.6	2755.6
12.5°	2842.9	2823.1	2819.1	2775.4	2735.7	2751.6	2719.8	2700.0	2727.8	2735.7	2751.6
15°	2838.9	2858.8	2791.3	2771.4	2743.6	2747.6	2719.8	2700.0	2715.8	2723.8	2735.7
17.5°	2862.8	2850.8	2831.0	2791.3	2779.4	2763.5	2727.8	2711.9	2711.9	2731.7	2735.7
20°	2926.3	2894.5	2854.8	2835.0	2846.9	2827.0	2783.3	2723.8	2739.7	2755.6	2767.5
22.5°	2985.8	2962.0	2934.2	2922.3	2989.8	2958.0	2882.6	2815.1	2791.3	2819.1	2838.9
25°	3101.0	3101.0	3049.4	3065.3	3140.7	3144.7	3057.3	2938.2	2922.3	2934.2	2942.2
27.5°	3335.3	3347.2	3303.5	3319.4	3351.1	3378.9	3303.5	3204.2	3168.5	3164.5	3176.4
30°	3589.4	3613.2	3609.2	3676.7	3768.0	3783.9	3672.7	3510.0	3402.7	3382.9	3398.8
32.5°	3922.9	3934.8	3926.9	4006.3	4252.4	4367.6	4077.7	3847.4	3704.5	3740.2	3704.5
35°	4550.2	4538.3	4451.0	4466.9	4669.4	4752.7	4474.8	4327.9	4260.4	4331.9	4316.0
37.5°	5090.2	5046.6	4975.1	5078.3	5288.8	5364.2	5074.3	4816.3	4693.2	4812.3	4863.9
40°	5546.8	5435.7	5336.4	5439.6	5721.5	5824.8	5399.9	5189.5	5141.8	5229.2	5340.4
42.5°	5932.0	5860.5	5729.5	5737.4	5924.0	5971.7	5630.2	5507.1	5459.5	5598.5	5654.0
45°	6205.9	6138.4	6015.4	6007.4	6150.4	6118.6	5812.9	5729.5	5757.3	5848.6	5876.4
47.5°	6344.9	6380.7	6309.2	6329.0	6404.5	6329.0	6086.8	6086.8	6023.3	6078.9	6051.1
50°	6745.9	6634.8	6726.1	6726.1	6805.5	6813.4	6571.2	6483.9	6313.2	6217.9	6217.9
52.5°	7214.5	7222.4	7258.1	7389.2	7524.2	7639.3	7293.9	6920.6	6634.8	6511.7	6495.8
55°	7599.6	7679.0	7822.0	8068.1	8457.2	8616.1	8020.5	7353.4	7004.0	6813.4	6773.7
56°	7810.0	7734.6	7980.8	8318.3	8826.5	9033.0	8139.6	7440.8	7055.6	6841.2	6837.3
57.5°	7607.5	7690.9	7861.7	8393.7	9017.1	9287.1	8183.3	7401.1	6849.2	6630.8	6650.6
60°	6007.4	6086.8	6317.1	6912.7	7889.5	8099.9	6924.6	6102.7	5610.4	5296.7	5300.7
62.5°	3398.8	3458.3	3637.0	4188.9	4796.4	4998.9	4316.0	3768.0	3426.6	3251.9	3196.3
65°	1250.7	1226.9	1254.7	1536.6	1909.8	2080.6	1794.7	1516.7	1338.1	1274.5	1250.7
67.5°	468.5	432.8	405.0	432.8	544.0	575.7	528.1	440.7	412.9	424.8	432.8
70°	289.8	274.0	218.4	206.5	202.5	198.5	210.4	222.4	254.1	297.8	305.7
72.5°	202.5	190.6	154.9	146.9	139.0	135.0	154.9	170.7	198.5	230.3	234.3
75°	79.4	83.4	79.4	87.4	91.3	95.3	111.2	123.1	135.0	135.0	131.0
77.5°	15.9	15.9	23.8	31.8	39.7	51.6	75.4	87.4	91.3	87.4	75.4
80°	0.0	0.0	7.9	15.9	31.8	43.7	67.5	75.4	83.4	75.4	59.6
82.5°	0.0	0.0	7.9	19.9	31.8	39.7	63.5	79.4	91.3	83.4	63.5
85°	0.0	0.0	7.9	15.9	23.8	27.8	27.8	19.9	19.9	11.9	7.9
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)