

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: P530665

Luminaire Tested: **GALN-SA5D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18476 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 309
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

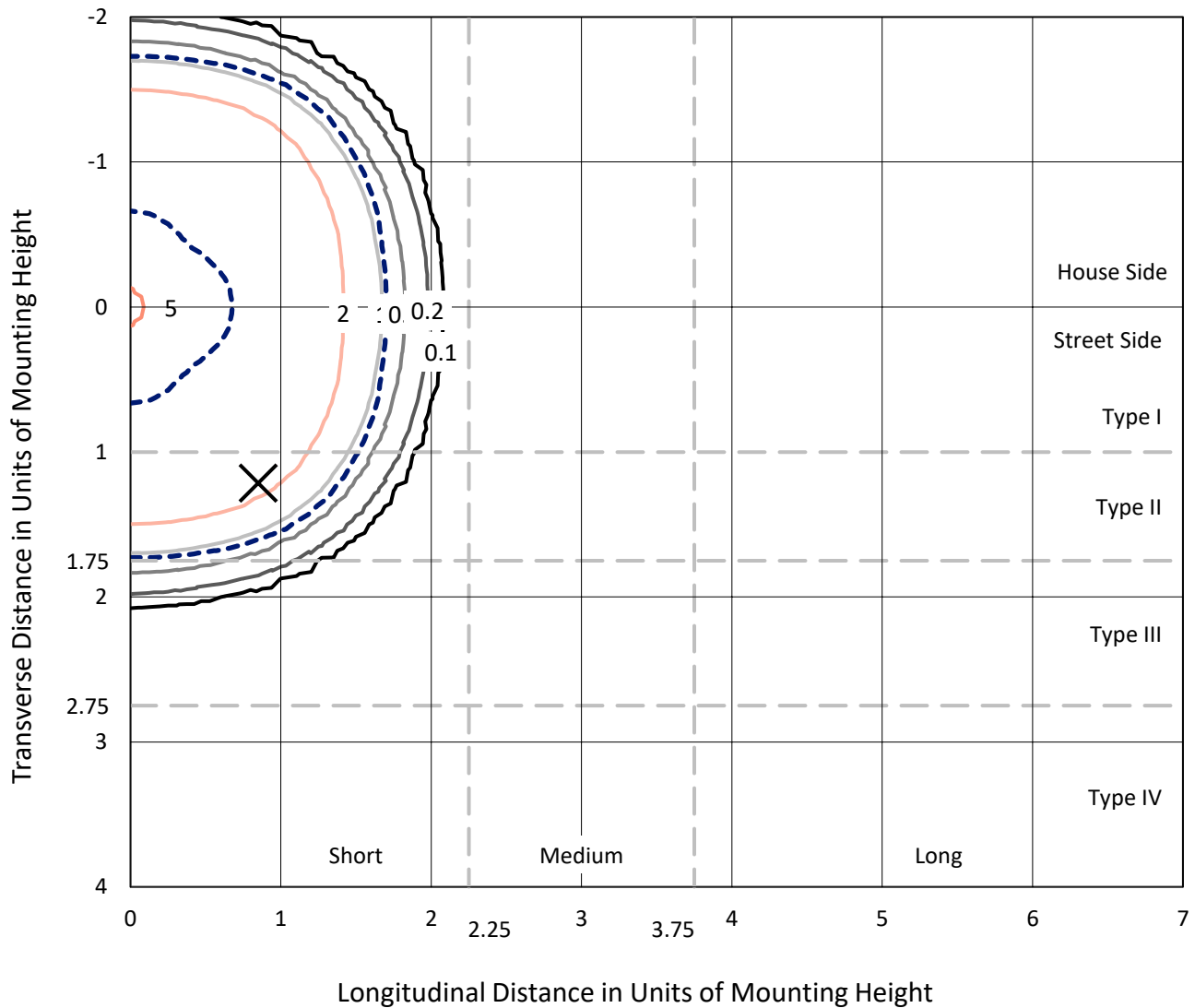


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Iso-Footcandle Lines of Horizontal Illumination

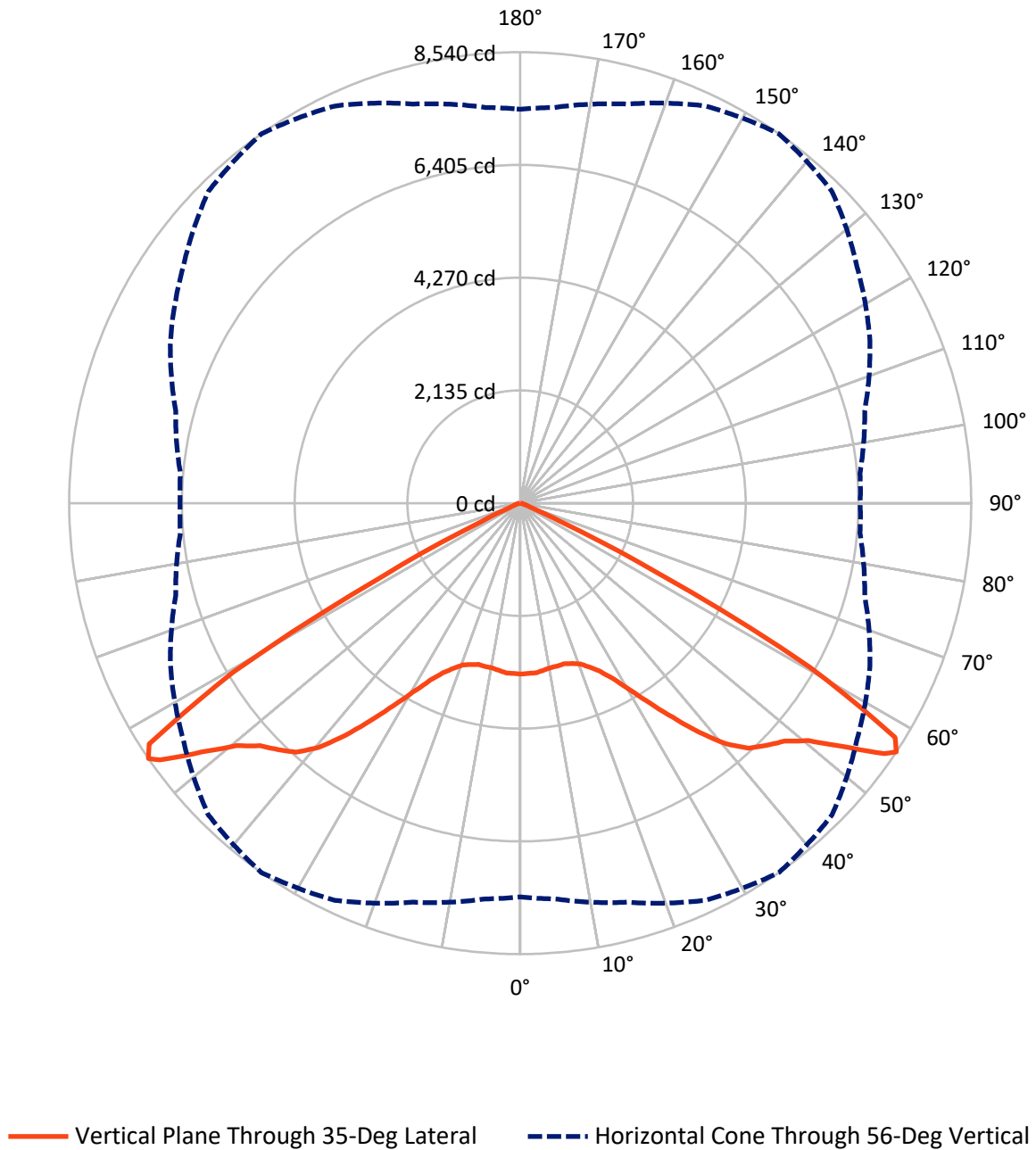
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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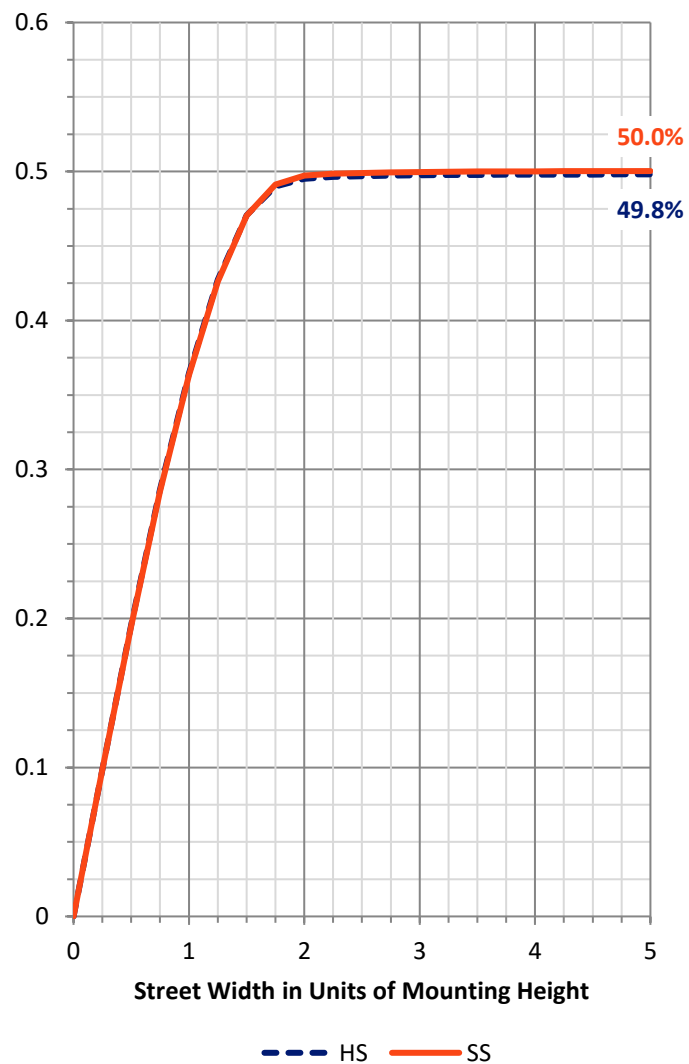
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9238.0	0.0	9238.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9238.0	0.0	9238.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18476.0	0.0	18476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	1.6
10°-20°	888.3	4.8
20°-30°	1608.6	8.7
30°-40°	2982.9	16.1
40°-50°	4896.3	26.5
50°-60°	6307.8	34.1
60°-70°	1390.2	7.5
70°-80°	80.7	0.4
80°-90°	17.0	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°	18476.0	100.0
0°-180°	18476.0	100.0

Coefficient of Utilization



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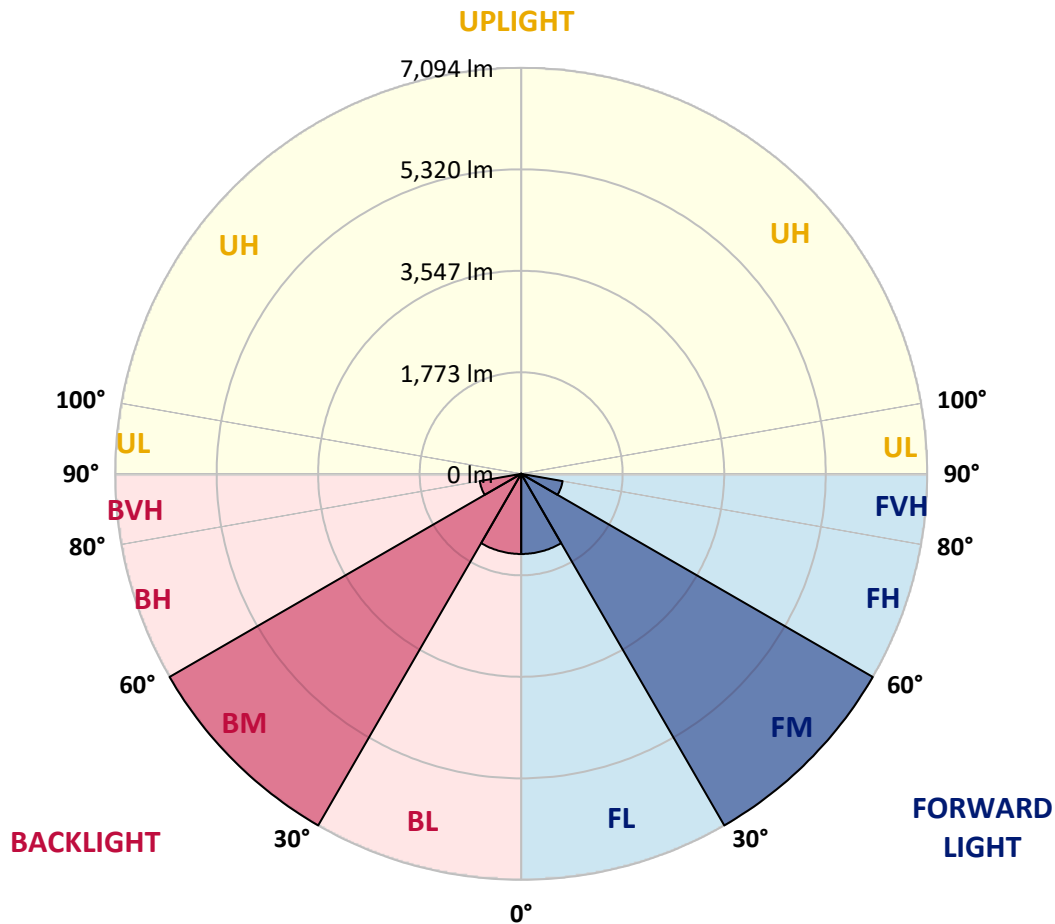
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1400.6	7.6			
FM	(30°-60°)	7093.5	38.4			
FH	(60°-80°)	735.4	4.0			G1/1800
FVH	(80°-90°)	8.5	0.0			G0/10
BL	(0°-30°)	1400.6	7.6	B3/2500		
BM	(30°-60°)	7093.5	38.4	B4/8500		
BH	(60°-80°)	735.4	4.0	B2/1000		G1/1800
BVH	(80°-90°)	8.5	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3237.4	3237.4	3237.4	3237.4	3237.4	3237.4	3237.4	3237.4	3237.4	3237.4	3237.4
2.5°	3244.1	3244.1	3247.4	3250.8	3227.3	3217.3	3220.7	3214.0	3210.6	3220.7	3220.7
5°	3234.0	3234.0	3224.0	3227.3	3227.3	3197.2	3197.2	3203.9	3203.9	3183.8	3177.1
7.5°	3207.3	3200.6	3187.2	3203.9	3193.9	3193.9	3170.4	3153.7	3147.0	3160.4	3147.0
10°	3150.3	3153.7	3167.1	3173.8	3167.1	3187.2	3147.0	3123.6	3100.1	3090.1	3090.1
12.5°	3123.6	3143.7	3123.6	3140.3	3163.7	3147.0	3123.6	3106.8	3073.3	3060.0	3060.0
15°	3120.2	3133.6	3140.3	3163.7	3153.7	3160.4	3113.5	3093.4	3043.2	3019.8	3009.7
17.5°	3116.9	3133.6	3143.7	3187.2	3193.9	3197.2	3160.4	3100.1	3056.6	3033.2	3009.7
20°	3153.7	3160.4	3180.5	3224.0	3250.8	3297.7	3230.7	3167.1	3073.3	3046.6	3036.5
22.5°	3200.6	3234.0	3254.1	3301.0	3371.3	3411.5	3324.4	3244.1	3147.0	3113.5	3073.3
25°	3351.2	3344.5	3378.0	3475.1	3532.0	3562.1	3491.8	3374.7	3247.4	3207.3	3214.0
27.5°	3538.7	3545.4	3575.5	3682.7	3766.4	3813.2	3729.5	3575.5	3451.7	3384.7	3378.0
30°	3783.1	3776.4	3809.9	3953.8	4104.5	4174.8	4027.5	3846.7	3726.2	3639.1	3659.2
32.5°	4040.9	4044.2	4138.0	4268.5	4512.9	4650.2	4412.5	4191.5	4010.8	3950.5	3920.4
35°	4422.5	4439.3	4512.9	4713.8	4985.0	5162.4	4901.3	4636.8	4429.2	4318.8	4332.1
37.5°	4894.6	4877.8	5001.7	5219.3	5503.9	5634.5	5413.5	5112.2	4901.3	4827.6	4874.5
40°	5396.8	5413.5	5477.1	5674.6	5992.7	6079.7	5751.6	5587.6	5403.5	5366.6	5423.6
42.5°	5899.0	5888.9	5935.8	6113.2	6344.2	6284.0	6089.8	5992.7	5862.1	5788.5	5865.5
45°	6267.2	6250.5	6337.5	6458.0	6541.7	6427.9	6340.9	6307.4	6240.4	6160.1	6230.4
47.5°	6625.4	6612.0	6695.7	6729.2	6735.9	6585.3	6602.0	6662.3	6494.9	6327.5	6407.8
50°	6930.1	6906.7	7010.4	7084.1	7067.4	6826.3	6886.6	6826.3	6565.2	6367.7	6337.5
52.5°	7439.0	7449.0	7559.5	7693.4	7653.2	7452.4	7365.3	7090.8	6756.0	6578.6	6474.8
55°	7760.4	7710.1	7901.0	8326.2	8373.0	8165.5	7780.5	7375.4	6873.2	6655.6	6628.8
56°	7459.1	7522.7	7824.0	8299.4	8540.4	8349.6	7790.5	7305.1	6752.7	6458.0	6438.0
57.5°	6692.4	6658.9	7067.4	7716.8	8373.0	8292.7	7516.0	6802.9	6160.1	5828.6	5788.5
60°	4164.8	4261.8	4620.1	5423.6	6300.7	6340.9	5570.9	4958.2	4208.3	3913.7	3984.0
62.5°	1630.4	1546.7	1771.0	2370.3	2972.9	3106.8	2815.6	2340.2	1921.7	1630.4	1610.3
65°	378.3	368.3	415.1	572.5	800.1	927.4	880.5	632.7	465.4	441.9	408.4
67.5°	214.3	214.3	204.2	204.2	224.3	237.7	227.7	224.3	234.4	244.4	241.0
70°	150.7	147.3	140.6	144.0	137.3	137.3	147.3	164.0	177.4	177.4	180.8
72.5°	90.4	90.4	90.4	100.4	100.4	100.4	110.5	123.9	127.2	123.9	120.5
75°	40.2	40.2	46.9	56.9	63.6	67.0	77.0	83.7	90.4	83.7	77.0
77.5°	10.0	10.0	16.7	23.4	30.1	36.8	50.2	60.3	63.6	60.3	50.2
80°	3.3	3.3	6.7	16.7	30.1	36.8	50.2	53.6	56.9	50.2	40.2
82.5°	3.3	3.3	6.7	16.7	23.4	30.1	40.2	46.9	50.2	43.5	40.2
85°	0.0	3.3	6.7	13.4	20.1	26.8	26.8	20.1	16.7	10.0	13.4
87.5°	0.0	0.0	3.3	3.3	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)