

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: P532541

Luminaire Tested: **GALN-SA7D-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532541
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-SA7D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 22334 lumens
Efficiency: N/A
Efficacy: 51.6 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): 433
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



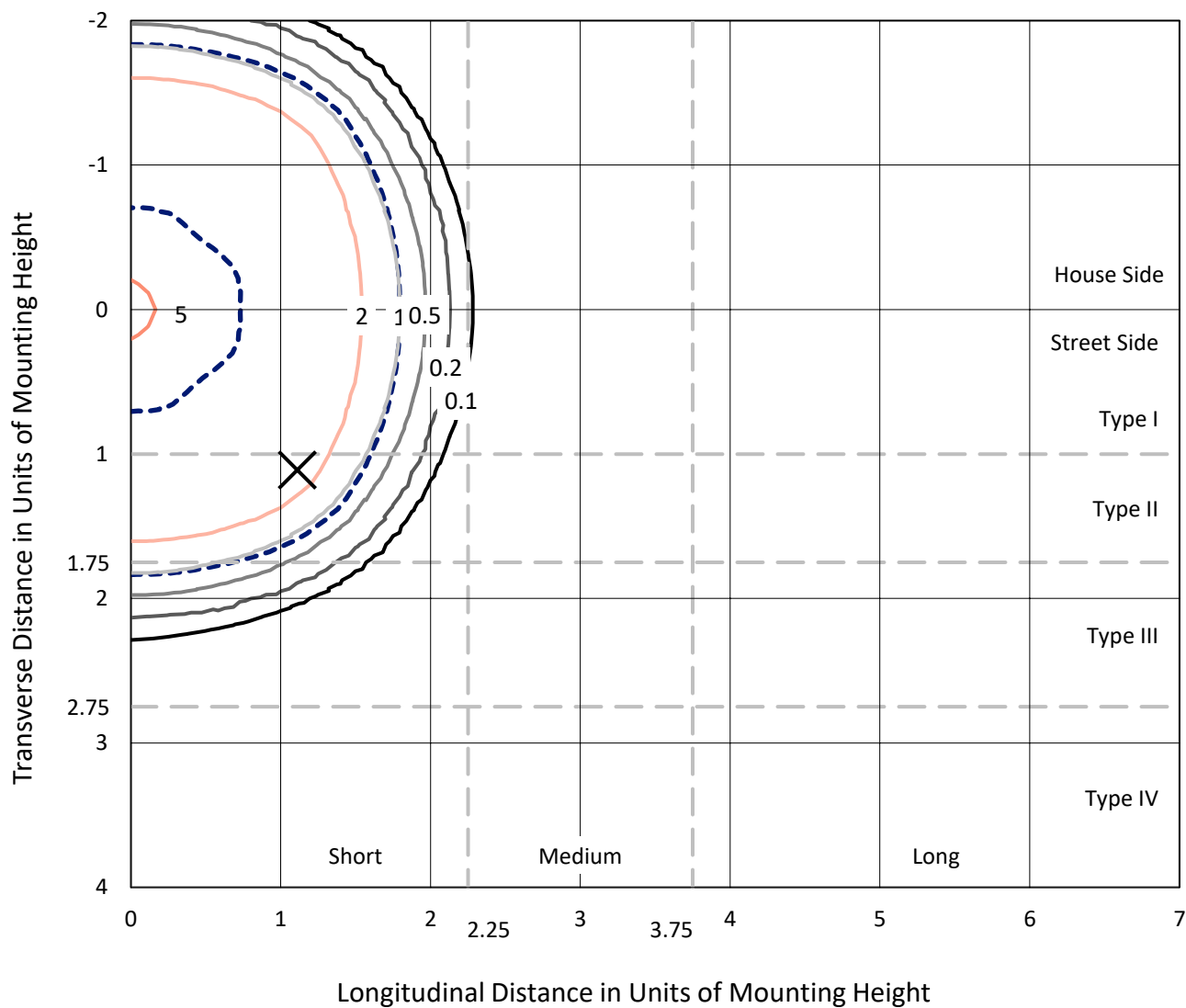
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

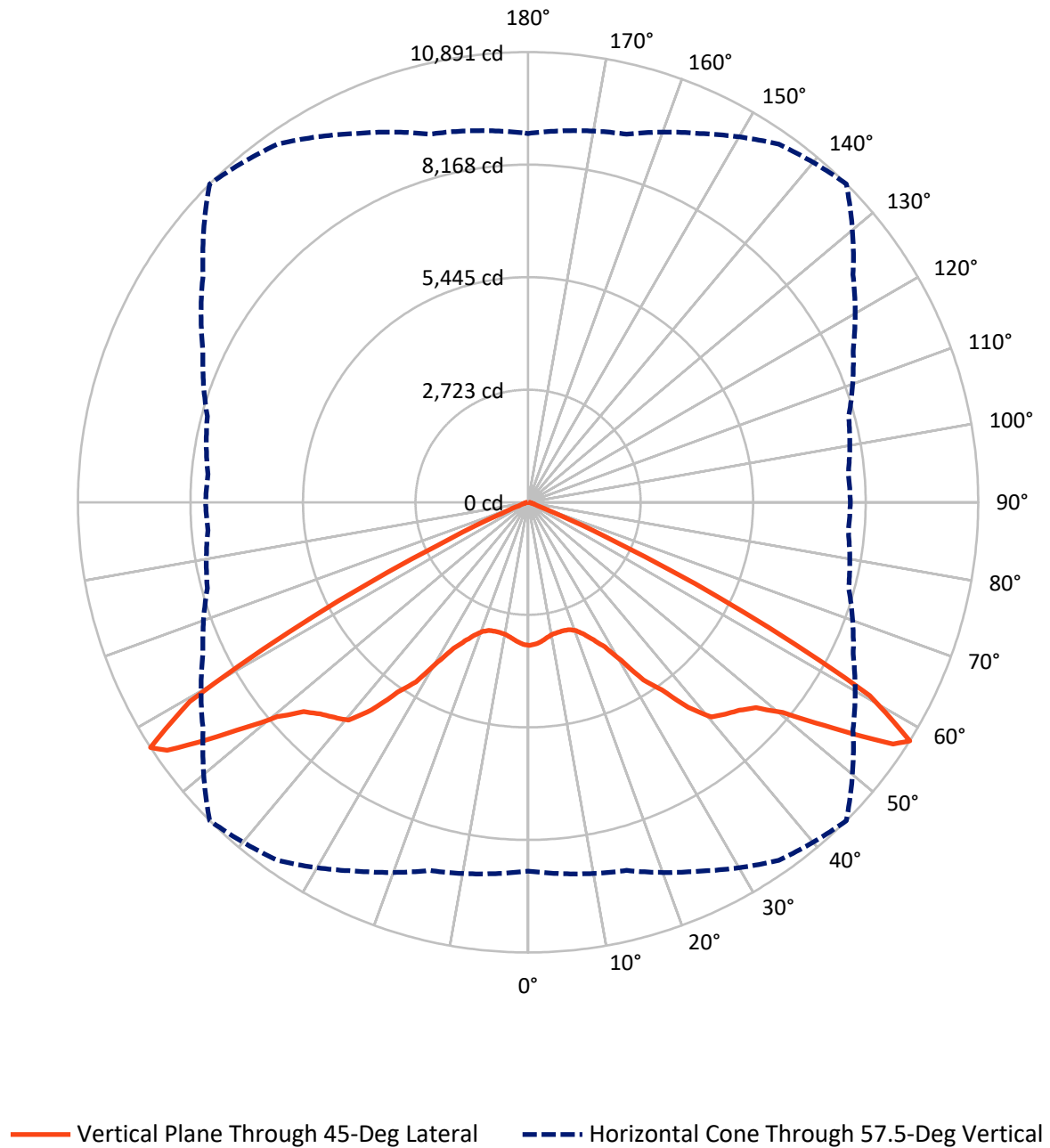
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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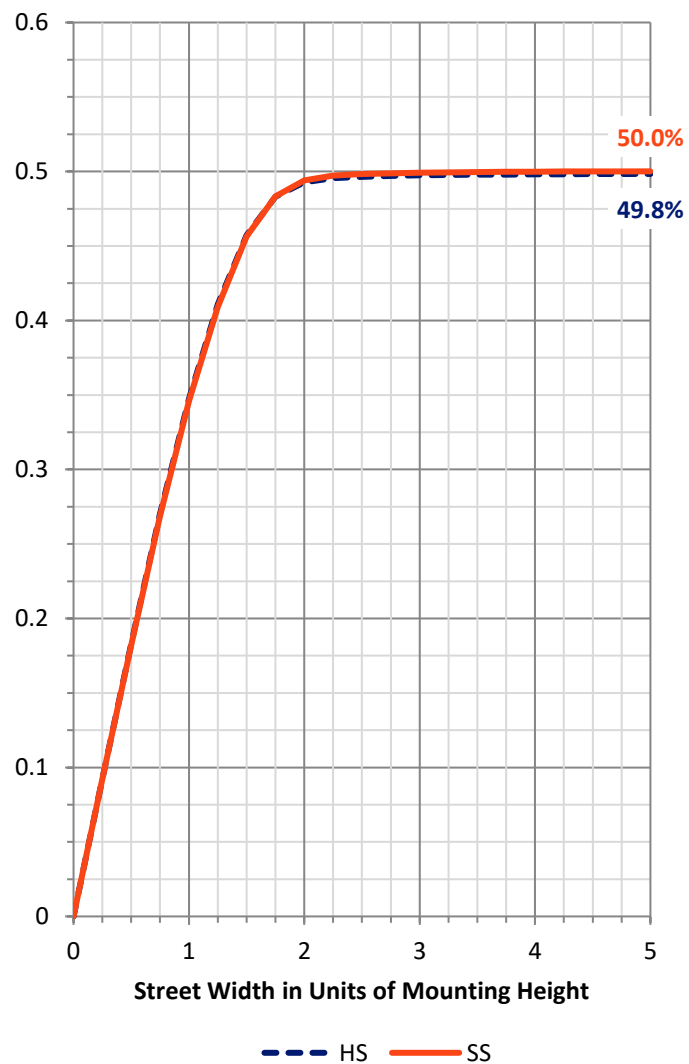
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11167.0	0.0	11167.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11167.0	0.0	11167.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22334.0	0.0	22334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	1.4
10°-20°	920.2	4.1
20°-30°	1698.5	7.6
30°-40°	3340.3	15.0
40°-50°	5440.5	24.4
50°-60°	7758.8	34.7
60°-70°	2686.3	12.0
70°-80°	144.1	0.6
80°-90°	27.1	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°	22334.0	100.0
0°-180°	22334.0	100.0

Coefficient of Utilization



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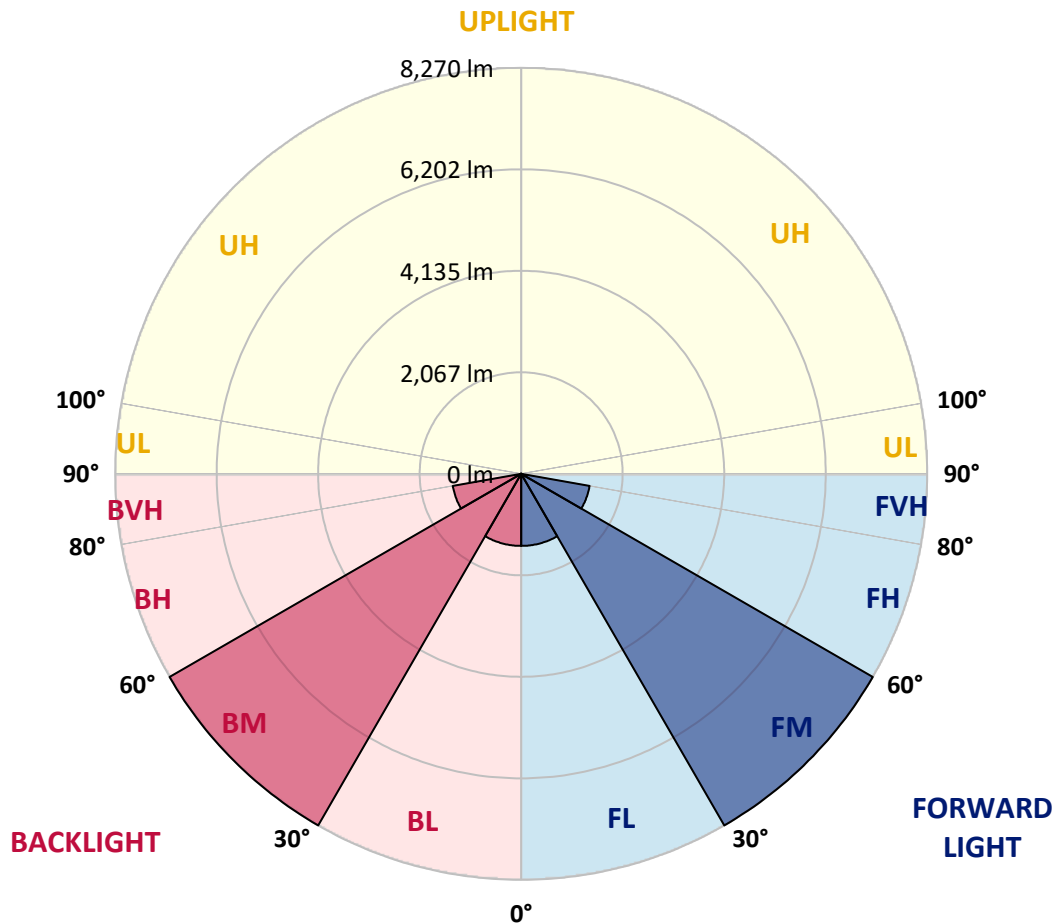
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.5	6.6			
FM	(30°-60°)	8269.8	37.0			
FH	(60°-80°)	1415.2	6.3			G1/1800
FVH	(80°-90°)	13.5	0.1			G1/100
BL	(0°-30°)	1468.5	6.6	B3/2500		
BM	(30°-60°)	8269.8	37.0	B4/8500		
BH	(60°-80°)	1415.2	6.3	B3/2500		G1/1800
BVH	(80°-90°)	13.5	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°	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2
2.5°	3454.9	3473.5	3450.3	3441.0	3436.3	3436.3	3422.3	3422.3	3417.7	3422.3	3403.7
5°	3399.1	3417.7	3417.7	3413.0	3385.1	3380.4	3366.5	3357.1	3361.8	3343.2	3357.1
7.5°	3343.2	3357.1	3338.5	3333.9	3324.6	3305.9	3301.3	3259.4	3264.0	3264.0	3273.3
10°	3333.9	3329.2	3301.3	3278.0	3250.1	3245.4	3231.4	3222.1	3222.1	3217.5	3231.4
12.5°	3333.9	3310.6	3305.9	3254.7	3208.1	3226.8	3189.5	3166.2	3198.8	3208.1	3226.8
15°	3329.2	3352.5	3273.3	3250.1	3217.5	3222.1	3189.5	3166.2	3184.9	3194.2	3208.1
17.5°	3357.1	3343.2	3319.9	3273.3	3259.4	3240.7	3198.8	3180.2	3180.2	3203.5	3208.1
20°	3431.6	3394.4	3347.8	3324.6	3338.5	3315.2	3264.0	3194.2	3212.8	3231.4	3245.4
22.5°	3501.5	3473.5	3441.0	3427.0	3506.1	3468.9	3380.4	3301.3	3273.3	3305.9	3329.2
25°	3636.5	3636.5	3576.0	3594.6	3683.1	3687.7	3585.3	3445.6	3427.0	3441.0	3450.3
27.5°	3911.2	3925.2	3874.0	3892.6	3929.9	3962.5	3874.0	3757.6	3715.7	3711.0	3725.0
30°	4209.2	4237.2	4232.5	4311.7	4418.8	4437.4	4307.0	4116.1	3990.4	3967.1	3985.7
32.5°	4600.4	4614.3	4605.0	4698.1	4986.8	5121.9	4782.0	4511.9	4344.3	4386.2	4344.3
35°	5336.0	5322.1	5219.6	5238.3	5475.7	5573.5	5247.6	5075.3	4996.1	5080.0	5061.3
37.5°	5969.3	5918.1	5834.3	5955.3	6202.1	6290.6	5950.7	5648.0	5503.7	5643.4	5703.9
40°	6504.8	6374.4	6258.0	6379.0	6709.6	6830.7	6332.5	6085.7	6029.8	6132.3	6262.6
42.5°	6956.4	6872.6	6718.9	6728.3	6947.1	7003.0	6602.5	6458.2	6402.3	6565.3	6630.5
45°	7277.7	7198.5	7054.2	7044.9	7212.5	7175.3	6816.7	6718.9	6751.5	6858.6	6891.2
47.5°	7440.7	7482.6	7398.8	7422.0	7510.5	7422.0	7138.0	7138.0	7063.5	7128.7	7096.1
50°	7910.9	7780.6	7887.7	7887.7	7980.8	7990.1	7706.1	7603.6	7403.4	7291.7	7291.7
52.5°	8460.4	8469.7	8511.6	8665.2	8823.6	8958.6	8553.5	8115.8	7780.6	7636.2	7617.6
55°	8912.0	9005.2	9172.8	9461.5	9917.8	10104.0	9405.6	8623.3	8213.6	7990.1	7943.5
56°	9158.8	9070.3	9359.0	9754.8	10350.8	10592.9	9545.3	8725.8	8274.1	8022.7	8018.0
57.5°	8921.3	9019.1	9219.3	9843.3	10574.3	10890.9	9596.5	8679.2	8032.0	7775.9	7799.2
60°	7044.9	7138.0	7408.1	8106.5	9251.9	9498.7	8120.5	7156.6	6579.3	6211.4	6216.1
62.5°	3985.7	4055.6	4265.1	4912.3	5624.7	5862.2	5061.3	4418.8	4018.3	3813.5	3748.3
65°	1466.7	1438.8	1471.4	1802.0	2239.6	2439.9	2104.6	1778.7	1569.2	1494.7	1466.7
67.5°	549.4	507.5	474.9	507.5	637.9	675.2	619.3	516.8	484.2	498.2	507.5
70°	339.9	321.3	256.1	242.1	237.5	232.8	246.8	260.7	298.0	349.2	358.5
72.5°	237.5	223.5	181.6	172.3	163.0	158.3	181.6	200.2	232.8	270.1	274.7
75°	93.1	97.8	93.1	102.4	107.1	111.7	130.4	144.3	158.3	158.3	153.7
77.5°	18.6	18.6	27.9	37.2	46.6	60.5	88.5	102.4	107.1	102.4	88.5
80°	0.0	0.0	9.3	18.6	37.2	51.2	79.2	88.5	97.8	88.5	69.8
82.5°	0.0	0.0	9.3	23.3	37.2	46.6	74.5	93.1	107.1	97.8	74.5
85°	0.0	0.0	9.3	18.6	27.9	32.6	32.6	23.3	23.3	14.0	9.3
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)