

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: P531605

Luminaire Tested: **GALN-SA6D-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531605
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-SA6D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19015 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

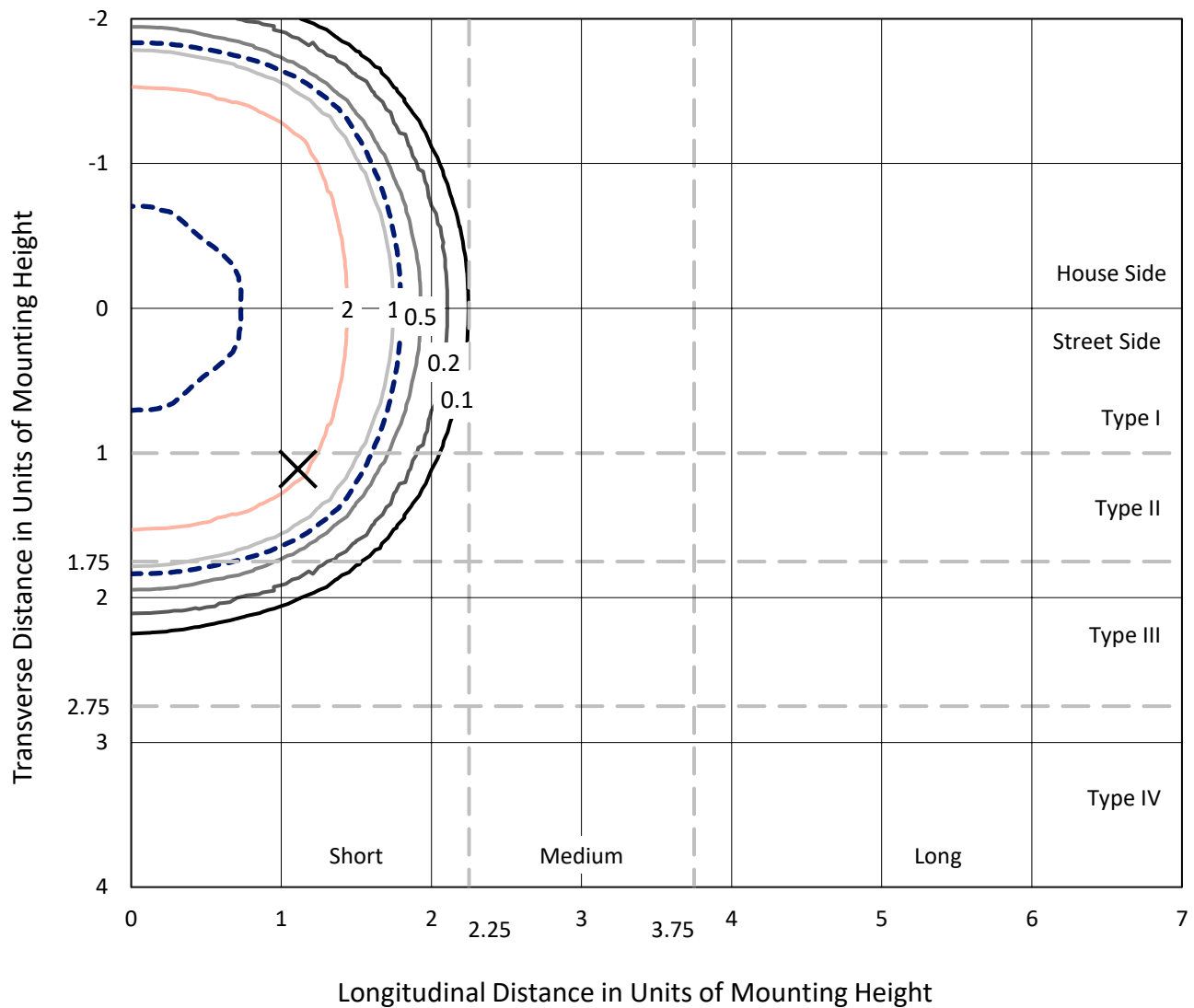
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

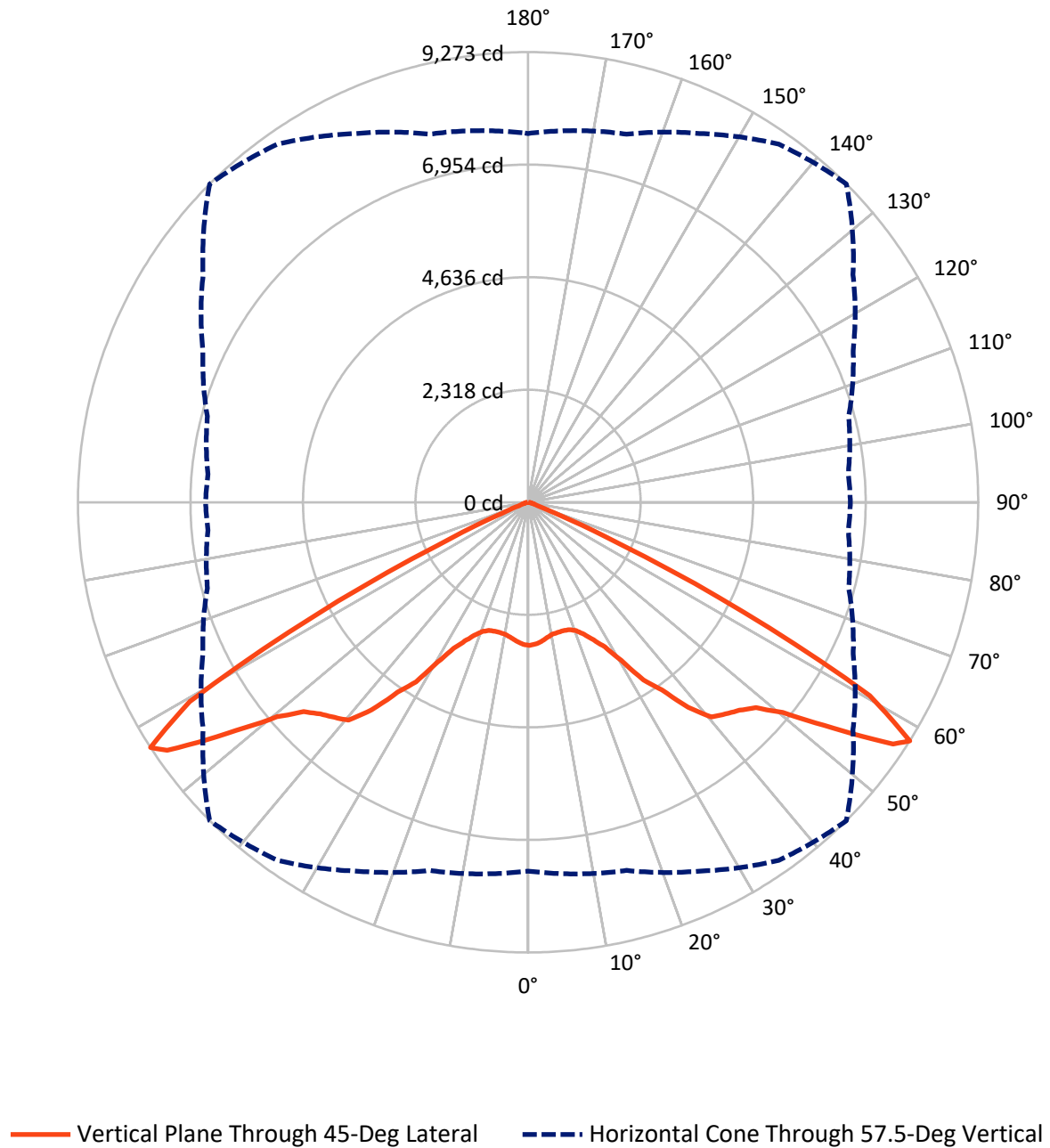
✕ Max cd
 --- 1/2 Max cd



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	9507.5	0.0	9507.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9507.5	0.0	9507.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19015.0	0.0	19015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	1.4
10°-20°	783.4	4.1
20°-30°	1446.1	7.6
30°-40°	2843.9	15.0
40°-50°	4632.0	24.4
50°-60°	6605.8	34.7
60°-70°	2287.1	12.0
70°-80°	122.7	0.6
80°-90°	23.0	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°	19015.0	100.0
0°-180°	19015.0	100.0

Coefficient of Utilization



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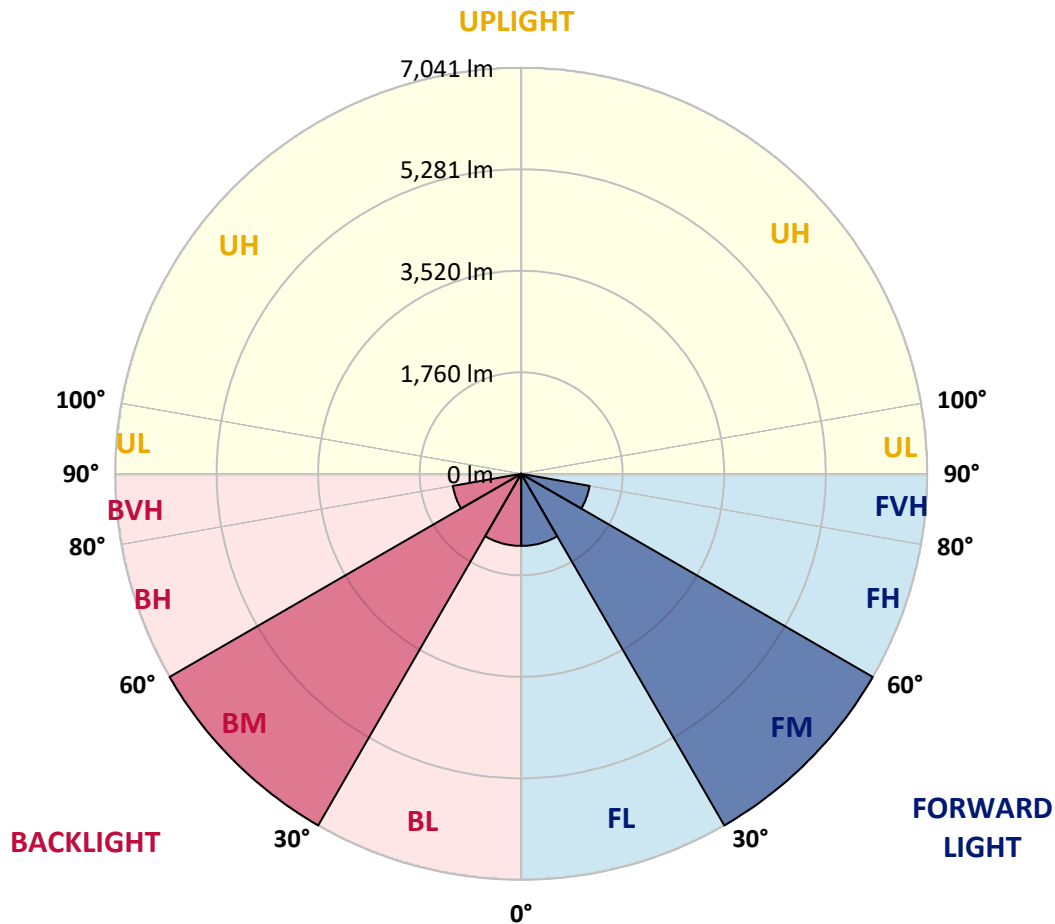
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.3	6.6			
FM	(30°-60°)	7040.8	37.0			
FH	(60°-80°)	1204.9	6.3			G1/1800
FVH	(80°-90°)	11.5	0.1			G1/100
BL	(0°-30°)	1250.3	6.6	B3/2500		
BM	(30°-60°)	7040.8	37.0	B4/8500		
BH	(60°-80°)	1204.9	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°	2949.4	2949.4	2949.4	2949.4	2949.4	2949.4	2949.4	2949.4	2949.4	2949.4	2949.4
2.5°	2941.5	2957.4	2937.5	2929.6	2925.6	2925.6	2913.7	2913.7	2909.8	2913.7	2897.9
5°	2893.9	2909.8	2909.8	2905.8	2882.0	2878.1	2866.2	2858.2	2862.2	2846.4	2858.2
7.5°	2846.4	2858.2	2842.4	2838.4	2830.5	2814.6	2810.7	2775.0	2779.0	2779.0	2786.9
10°	2838.4	2834.5	2810.7	2790.9	2767.1	2763.1	2751.2	2743.3	2743.3	2739.3	2751.2
12.5°	2838.4	2818.6	2814.6	2771.0	2731.4	2747.2	2715.5	2695.7	2723.5	2731.4	2747.2
15°	2834.5	2854.3	2786.9	2767.1	2739.3	2743.3	2715.5	2695.7	2711.6	2719.5	2731.4
17.5°	2858.2	2846.4	2826.5	2786.9	2775.0	2759.1	2723.5	2707.6	2707.6	2727.4	2731.4
20°	2921.7	2890.0	2850.3	2830.5	2842.4	2822.6	2779.0	2719.5	2735.4	2751.2	2763.1
22.5°	2981.1	2957.4	2929.6	2917.7	2985.1	2953.4	2878.1	2810.7	2786.9	2814.6	2834.5
25°	3096.1	3096.1	3044.6	3060.4	3135.7	3139.7	3052.5	2933.6	2917.7	2929.6	2937.5
27.5°	3330.0	3341.9	3298.3	3314.1	3345.9	3373.6	3298.3	3199.2	3163.5	3159.5	3171.4
30°	3583.7	3607.5	3603.5	3670.9	3762.1	3778.0	3667.0	3504.4	3397.4	3377.6	3393.4
32.5°	3916.7	3928.6	3920.7	4000.0	4245.7	4360.7	4071.3	3841.4	3698.7	3734.4	3698.7
35°	4543.1	4531.2	4444.0	4459.8	4662.0	4745.2	4467.7	4321.1	4253.7	4325.0	4309.2
37.5°	5082.2	5038.6	4967.2	5070.3	5280.4	5355.7	5066.4	4808.7	4685.8	4804.7	4856.2
40°	5538.1	5427.1	5328.0	5431.1	5712.5	5815.6	5391.4	5181.3	5133.7	5221.0	5332.0
42.5°	5922.6	5851.3	5720.5	5728.4	5914.7	5962.3	5621.4	5498.5	5450.9	5589.6	5645.1
45°	6196.2	6128.8	6005.9	5998.0	6140.7	6109.0	5803.7	5720.5	5748.2	5839.4	5867.1
47.5°	6334.9	6370.6	6299.2	6319.1	6394.4	6319.1	6077.2	6077.2	6013.8	6069.3	6041.6
50°	6735.3	6624.3	6715.5	6715.5	6794.8	6802.7	6560.9	6473.7	6303.2	6208.1	6208.1
52.5°	7203.1	7211.0	7246.7	7377.5	7512.3	7627.3	7282.4	6909.7	6624.3	6501.4	6485.6
55°	7587.6	7666.9	7809.6	8055.4	8443.9	8602.5	8007.8	7341.8	6993.0	6802.7	6763.1
56°	7797.7	7722.4	7968.2	8305.2	8812.6	9018.7	8126.8	7429.1	7044.5	6830.5	6826.5
57.5°	7595.6	7678.8	7849.3	8380.5	9002.9	9272.5	8170.4	7389.4	6838.4	6620.4	6640.2
60°	5998.0	6077.2	6307.2	6901.8	7877.0	8087.1	6913.7	6093.1	5601.5	5288.4	5292.3
62.5°	3393.4	3452.9	3631.3	4182.3	4788.9	4991.0	4309.2	3762.1	3421.2	3246.7	3191.2
65°	1248.7	1225.0	1252.7	1534.2	1906.8	2077.3	1791.9	1514.4	1336.0	1272.5	1248.7
67.5°	467.8	432.1	404.4	432.1	543.1	574.8	527.2	440.0	412.3	424.2	432.1
70°	289.4	273.5	218.0	206.1	202.2	198.2	210.1	222.0	253.7	297.3	305.2
72.5°	202.2	190.3	154.6	146.7	138.7	134.8	154.6	170.5	198.2	229.9	233.9
75°	79.3	83.2	79.3	87.2	91.2	95.1	111.0	122.9	134.8	134.8	130.8
77.5°	15.9	15.9	23.8	31.7	39.6	51.5	75.3	87.2	91.2	87.2	75.3
80°	0.0	0.0	7.9	15.9	31.7	43.6	67.4	75.3	83.2	75.3	59.5
82.5°	0.0	0.0	7.9	19.8	31.7	39.6	63.4	79.3	91.2	83.2	63.4
85°	0.0	0.0	7.9	15.9	23.8	27.7	27.7	19.8	19.8	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)