

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: P530431

Luminaire Tested: **GALN-SA5C-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530431
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-SA5C-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 16790 lumens
Efficiency: N/A
Efficacy: 62.4 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): 269
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



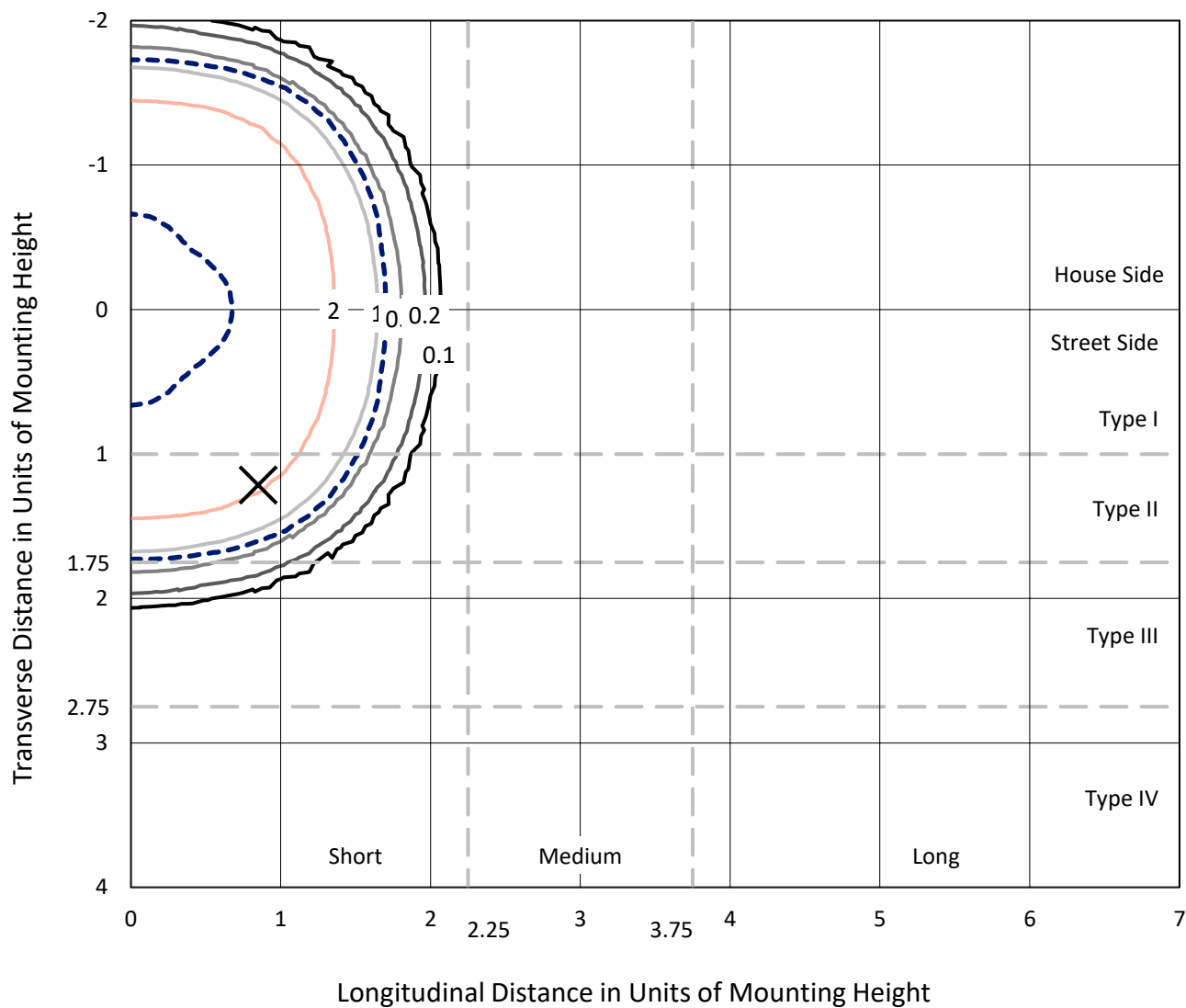
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

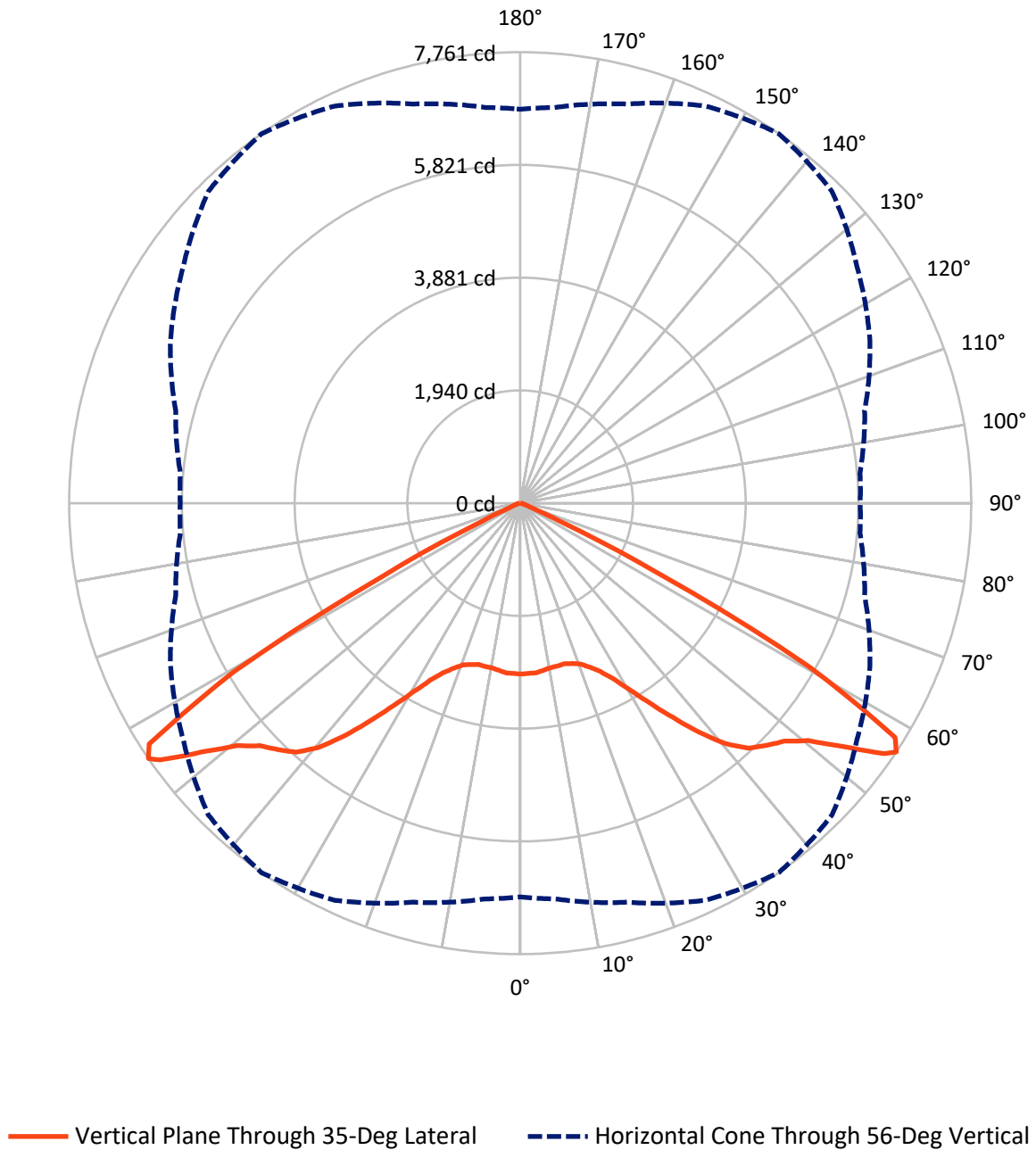


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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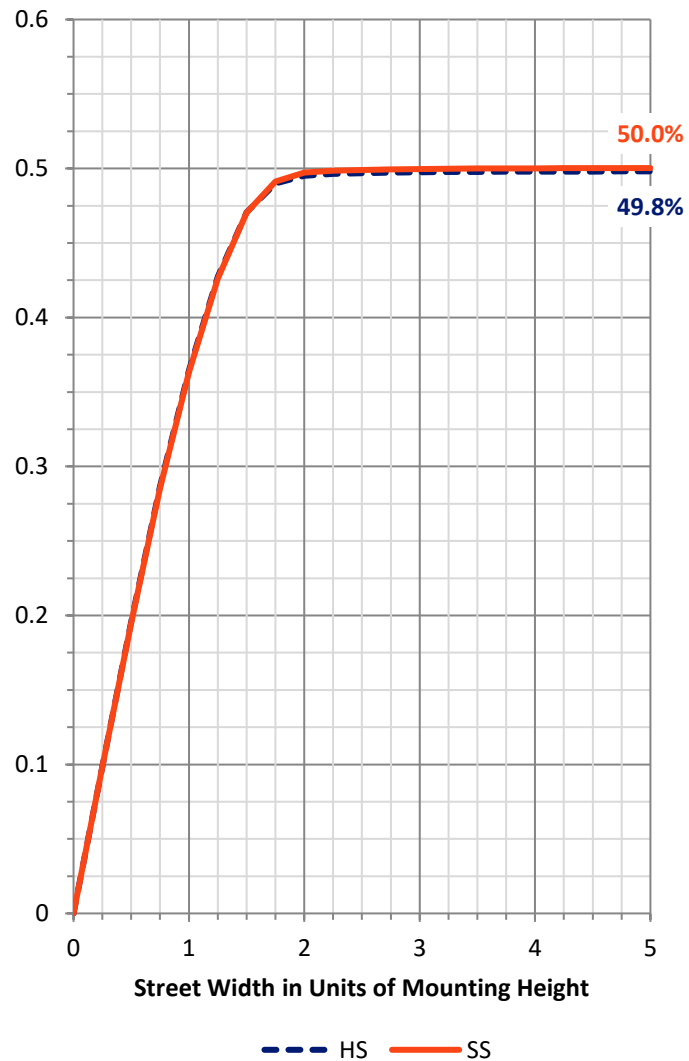
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8395.0	0.0	8395.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8395.0	0.0	8395.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16790.0	0.0	16790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.6
10°-20°	807.2	4.8
20°-30°	1461.8	8.7
30°-40°	2710.7	16.1
40°-50°	4449.5	26.5
50°-60°	5732.2	34.1
60°-70°	1263.3	7.5
70°-80°	73.3	0.4
80°-90°	15.4	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°	16790.0	100.0
0°-180°	16790.0	100.0

Coefficient of Utilization



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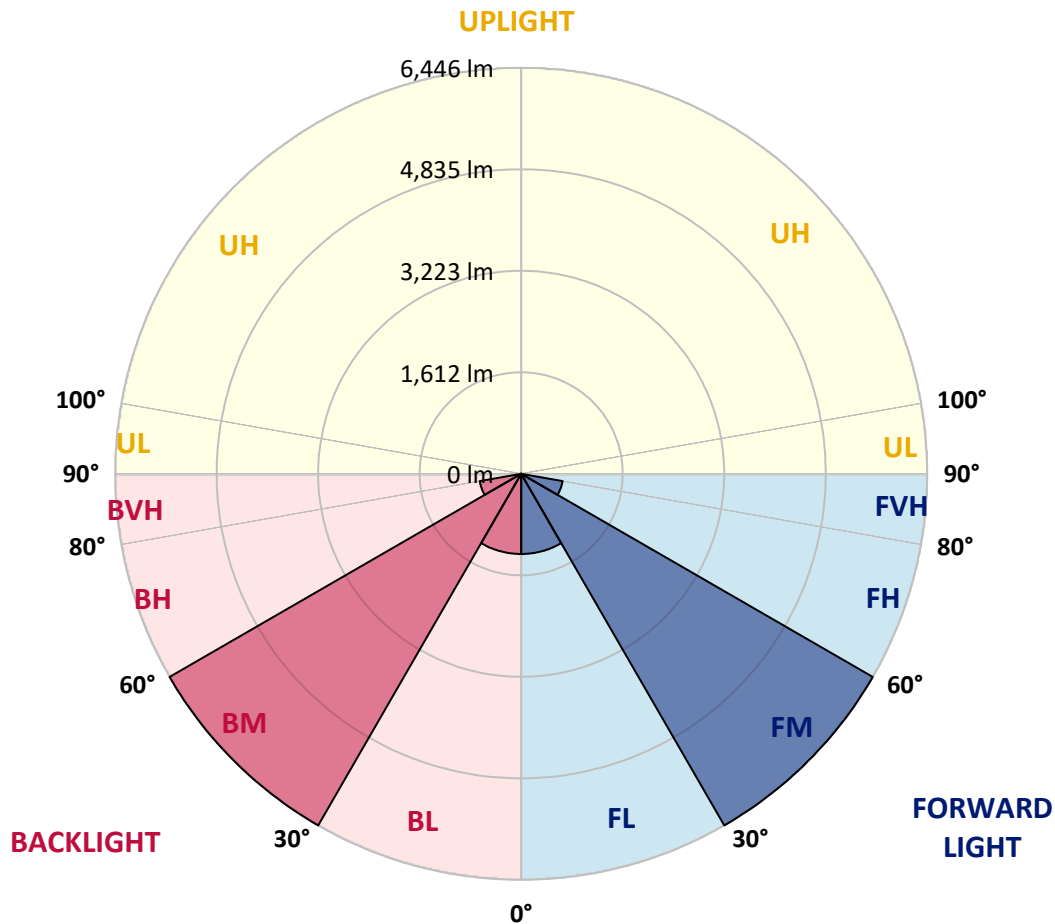
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.8	7.6			
FM	(30°-60°)	6446.2	38.4			
FH	(60°-80°)	668.3	4.0			G1/1800
FVH	(80°-90°)	7.7	0.0			G0/10
BL	(0°-30°)	1272.8	7.6	B3/2500		
BM	(30°-60°)	6446.2	38.4	B4/8500		
BH	(60°-80°)	668.3	4.0	B2/1000		G1/1800
BVH	(80°-90°)	7.7	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°	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0
2.5°	2948.1	2948.1	2951.1	2954.1	2932.8	2923.7	2926.8	2920.7	2917.6	2926.8	2926.8
5°	2938.9	2938.9	2929.8	2932.8	2932.8	2905.5	2905.5	2911.5	2911.5	2893.3	2887.2
7.5°	2914.6	2908.5	2896.3	2911.5	2902.4	2902.4	2881.1	2865.9	2859.8	2872.0	2859.8
10°	2862.9	2865.9	2878.1	2884.2	2878.1	2896.3	2859.8	2838.5	2817.2	2808.1	2808.1
12.5°	2838.5	2856.8	2838.5	2853.7	2875.0	2859.8	2838.5	2823.3	2792.9	2780.7	2780.7
15°	2835.5	2847.7	2853.7	2875.0	2865.9	2872.0	2829.4	2811.1	2765.5	2744.2	2735.1
17.5°	2832.4	2847.7	2856.8	2896.3	2902.4	2905.5	2872.0	2817.2	2777.7	2756.4	2735.1
20°	2865.9	2872.0	2890.2	2929.8	2954.1	2996.7	2935.9	2878.1	2792.9	2768.6	2759.4
22.5°	2908.5	2938.9	2957.2	2999.8	3063.7	3100.2	3021.1	2948.1	2859.8	2829.4	2792.9
25°	3045.4	3039.3	3069.7	3158.0	3209.7	3237.1	3173.2	3066.7	2951.1	2914.6	2920.7
27.5°	3215.8	3221.9	3249.2	3346.6	3422.7	3465.3	3389.2	3249.2	3136.7	3075.8	3069.7
30°	3437.9	3431.8	3462.2	3593.0	3729.9	3793.8	3660.0	3495.7	3386.2	3307.1	3325.3
32.5°	3672.1	3675.2	3760.4	3879.0	4101.1	4225.8	4009.8	3809.0	3644.8	3590.0	3562.6
35°	4019.0	4034.2	4101.1	4283.7	4530.1	4691.3	4454.0	4213.7	4025.1	3924.7	3936.8
37.5°	4447.9	4432.7	4545.3	4743.1	5001.7	5120.3	4919.5	4645.7	4454.0	4387.1	4429.7
40°	4904.3	4919.5	4977.3	5156.8	5445.8	5524.9	5226.8	5077.7	4910.4	4876.9	4928.6
42.5°	5360.7	5351.5	5394.1	5555.4	5765.3	5710.5	5534.1	5445.8	5327.2	5260.3	5330.2
45°	5695.3	5680.1	5759.2	5868.7	5944.8	5841.3	5762.2	5731.8	5671.0	5598.0	5661.8
47.5°	6020.8	6008.7	6084.7	6115.2	6121.2	5984.3	5999.5	6054.3	5902.2	5750.1	5823.1
50°	6297.7	6276.4	6370.7	6437.6	6422.4	6203.4	6258.1	6203.4	5966.1	5786.6	5759.2
52.5°	6760.1	6769.3	6869.7	6991.4	6954.9	6772.3	6693.2	6443.7	6139.5	5978.3	5883.9
55°	7052.2	7006.6	7180.0	7566.4	7609.0	7420.3	7070.5	6702.3	6246.0	6048.2	6023.9
56°	6778.4	6836.2	7110.0	7542.0	7761.1	7587.7	7079.6	6638.4	6136.5	5868.7	5850.5
57.5°	6081.7	6051.3	6422.4	7012.7	7609.0	7535.9	6830.1	6182.1	5598.0	5296.8	5260.3
60°	3784.7	3872.9	4198.5	4928.6	5725.7	5762.2	5062.5	4505.7	3824.3	3556.5	3620.4
62.5°	1481.6	1405.6	1609.4	2154.0	2701.6	2823.3	2558.6	2126.6	1746.3	1481.6	1463.4
65°	343.8	334.7	377.3	520.2	727.1	842.7	800.1	575.0	422.9	401.6	371.2
67.5°	194.7	194.7	185.6	185.6	203.8	216.0	206.9	203.8	213.0	222.1	219.1
70°	136.9	133.9	127.8	130.8	124.7	124.7	133.9	149.1	161.2	161.2	164.3
72.5°	82.1	82.1	82.1	91.3	91.3	91.3	100.4	112.6	115.6	112.6	109.5
75°	36.5	36.5	42.6	51.7	57.8	60.8	70.0	76.1	82.1	76.1	70.0
77.5°	9.1	9.1	15.2	21.3	27.4	33.5	45.6	54.8	57.8	54.8	45.6
80°	3.0	3.0	6.1	15.2	27.4	33.5	45.6	48.7	51.7	45.6	36.5
82.5°	3.0	3.0	6.1	15.2	21.3	27.4	36.5	42.6	45.6	39.6	36.5
85°	0.0	3.0	6.1	12.2	18.3	24.3	24.3	18.3	15.2	9.1	12.2
87.5°	0.0	0.0	3.0	3.0	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)