

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: P454545

Luminaire Tested: **GALN-SA5C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28865 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): 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

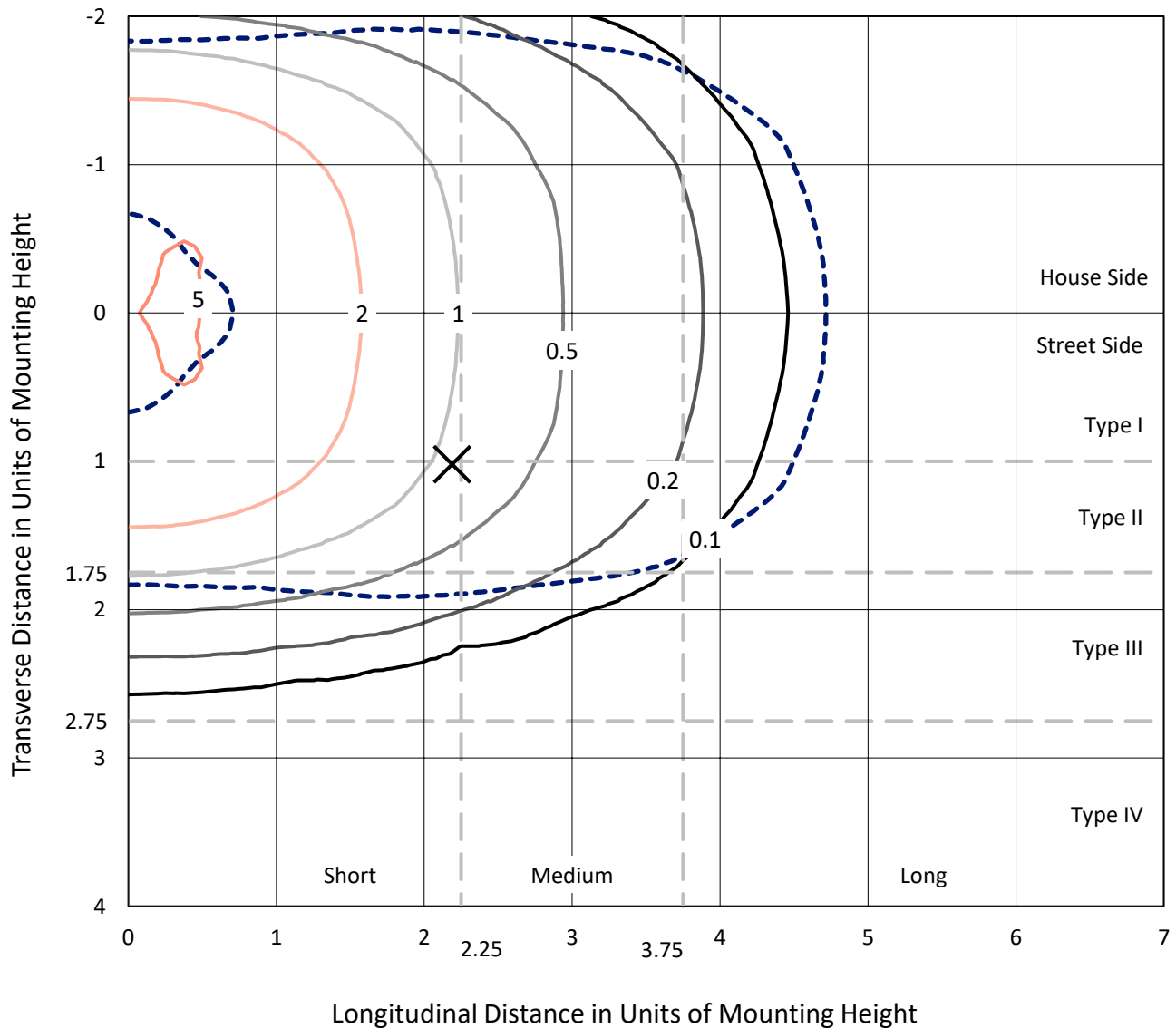


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

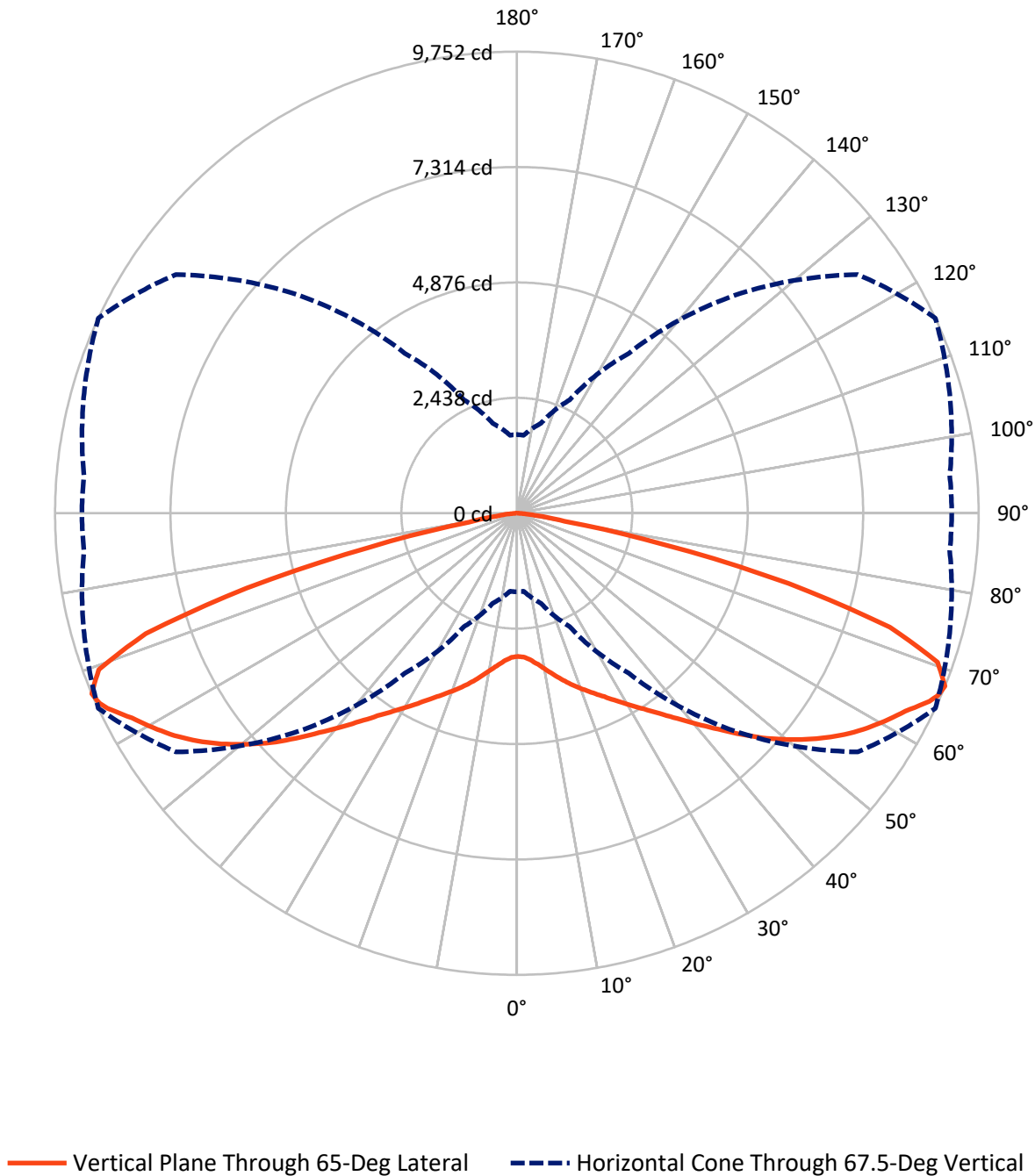


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14432.5	0.0	14432.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14432.5	0.0	14432.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28865.0	0.0	28865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	1.0
10°-20°	998.0	3.5
20°-30°	1952.2	6.8
30°-40°	3320.4	11.5
40°-50°	5255.1	18.2
50°-60°	6968.2	24.1
60°-70°	6573.1	22.8
70°-80°	3249.4	11.3
80°-90°	250.4	0.9
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°	28865.0	100.0
0°-180°	28865.0	100.0

Coefficient of Utilization



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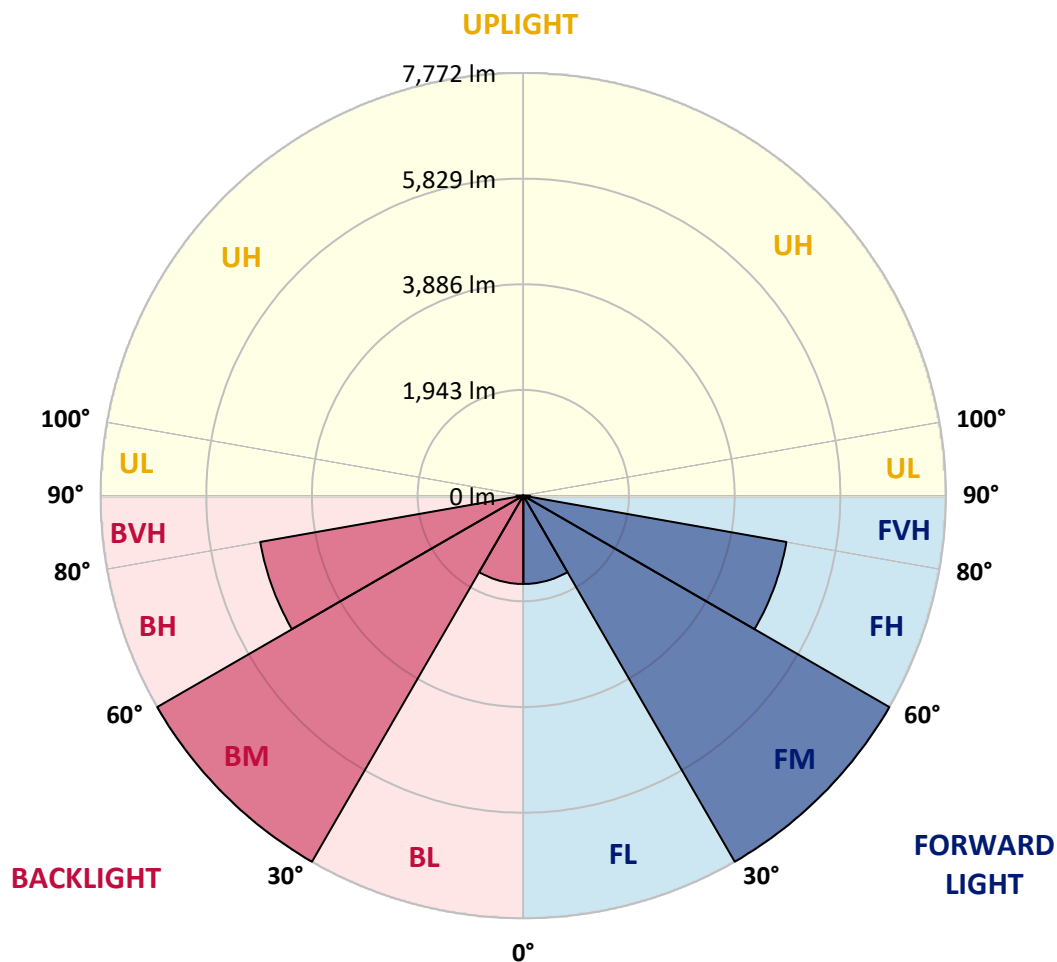
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.2	5.6			
FM	(30°-60°)	7771.8	26.9			
FH	(60°-80°)	4911.3	17.0			G2/5000
FVH	(80°-90°)	125.2	0.4			G2/225
BL	(0°-30°)	1624.2	5.6	B3/2500		
BM	(30°-60°)	7771.8	26.9	B4/8500		
BH	(60°-80°)	4911.3	17.0	B4/5000		G4/5000
BVH	(80°-90°)	125.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3023.4	3023.4	3023.4	3023.4	3023.4	3023.4	3023.4	3023.4	3023.4	3023.4	3023.4
2.5°	3007.9	3011.0	3014.1	3018.7	3024.9	3034.2	3040.4	3045.0	3057.4	3058.9	3057.4
5°	2997.1	3000.2	3007.9	3021.8	3041.9	3069.7	3091.4	3117.7	3137.8	3151.7	3148.6
7.5°	2995.5	3001.7	3014.1	3043.5	3082.1	3130.1	3179.5	3224.4	3263.1	3294.0	3289.3
10°	3020.3	3028.0	3048.1	3091.4	3151.7	3221.3	3290.9	3357.4	3413.1	3453.3	3467.2
12.5°	3062.0	3068.2	3105.3	3170.3	3256.9	3343.5	3422.3	3504.3	3581.6	3649.7	3649.7
15°	3134.7	3145.5	3191.9	3286.3	3393.0	3493.5	3573.9	3660.5	3744.0	3821.3	3844.5
17.5°	3235.2	3250.7	3320.3	3440.9	3577.0	3669.8	3745.6	3816.7	3889.4	3963.6	3974.4
20°	3372.9	3388.3	3481.1	3626.5	3787.3	3898.7	3949.7	3966.7	4002.3	4073.4	4082.7
22.5°	3560.0	3575.4	3679.1	3843.0	4022.4	4143.0	4164.7	4124.4	4115.2	4170.8	4177.0
25°	3771.8	3785.8	3904.8	4081.1	4266.7	4398.2	4392.0	4293.0	4237.3	4271.4	4280.6
27.5°	4010.0	4030.1	4150.7	4333.2	4534.3	4650.2	4631.7	4487.9	4368.8	4362.6	4365.7
30°	4314.7	4336.3	4450.7	4625.5	4823.4	4930.2	4891.5	4698.2	4514.2	4452.3	4452.3
32.5°	4636.3	4690.5	4806.4	4988.9	5143.6	5220.9	5162.1	4930.2	4685.8	4599.2	4594.6
35°	5055.4	5084.8	5199.2	5377.1	5493.1	5553.4	5440.5	5191.5	4910.1	4808.0	4794.1
37.5°	5465.2	5490.0	5623.0	5793.1	5933.8	5930.7	5777.6	5502.3	5188.4	5074.0	5064.7
40°	5884.3	5910.6	6062.2	6218.4	6359.1	6346.7	6161.1	5853.4	5519.4	5391.0	5415.7
42.5°	6247.7	6277.1	6448.8	6671.5	6798.3	6795.2	6580.2	6233.8	5885.9	5771.4	5793.1
45°	6578.7	6605.0	6804.5	7059.6	7245.2	7268.4	7033.4	6666.8	6309.6	6162.7	6168.9
47.5°	6812.2	6861.7	7070.5	7362.8	7614.8	7696.8	7466.4	7107.6	6696.2	6543.1	6552.4
50°	6990.1	7021.0	7248.3	7580.8	7899.4	8069.5	7883.9	7515.9	7082.8	6920.5	6942.1
52.5°	7011.7	7048.8	7296.3	7679.8	8088.1	8346.3	8255.1	7914.8	7477.2	7310.2	7356.6
55°	6835.4	6857.1	7152.4	7617.9	8162.3	8552.0	8575.2	8286.0	7853.0	7726.2	7757.1
57.5°	6332.8	6388.5	6762.7	7328.7	8060.2	8661.8	8814.9	8623.1	8233.4	8108.2	8157.6
60°	5508.5	5564.2	5940.0	6657.6	7675.1	8610.8	9012.8	8921.6	8578.3	8477.8	8504.1
62.5°	4316.2	4311.6	4777.1	5657.0	6909.6	8360.2	9159.8	9209.2	8918.5	8791.7	8831.9
65°	2797.6	2811.5	3261.5	4209.5	5754.4	7723.1	9192.2	9575.8	9252.5	9060.8	9090.2
66°	2250.1	2291.9	2673.9	3547.6	5165.2	7305.5	9094.8	9684.0	9354.6	9122.6	9136.6
67.5°	1660.9	1653.2	1967.1	2641.4	4124.4	6512.2	8790.2	9752.1	9470.6	9178.3	9184.5
70°	948.0	946.4	1057.8	1450.6	2424.9	4585.3	7409.2	9425.8	9705.7	9379.4	9362.3
72.5°	692.8	688.2	703.6	801.1	1183.1	2315.1	5111.1	8238.1	9585.0	9346.9	9298.9
75°	581.5	578.4	575.3	587.7	663.4	1048.5	2712.5	5926.1	8316.9	8773.1	8723.7
77.5°	474.8	474.8	476.3	473.2	476.3	552.1	1124.3	3176.5	5064.7	5653.9	5791.5
80°	371.2	369.6	395.9	385.1	360.3	354.1	498.0	1022.2	1681.0	1671.7	1379.5
82.5°	273.7	255.2	301.6	293.8	266.0	225.8	290.7	436.1	561.4	365.0	270.6
85°	173.2	171.7	213.4	194.9	162.4	106.7	139.2	187.1	232.0	140.7	114.4
87.5°	30.9	29.4	68.0	49.5	49.5	30.9	38.7	51.0	75.8	52.6	38.7
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)