

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: P458268

Luminaire Tested: **GALN-SA9C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50557 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 481
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



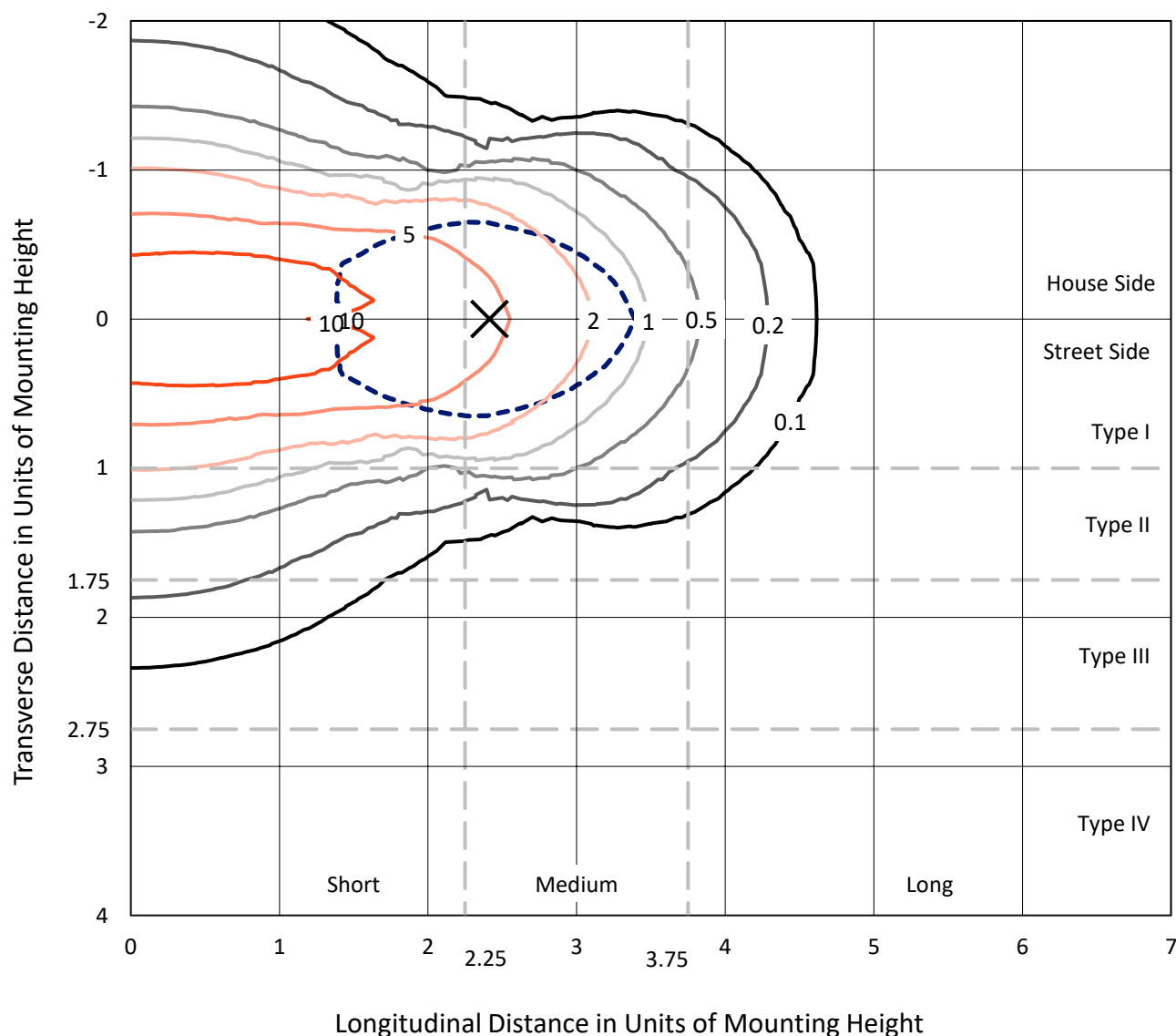
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

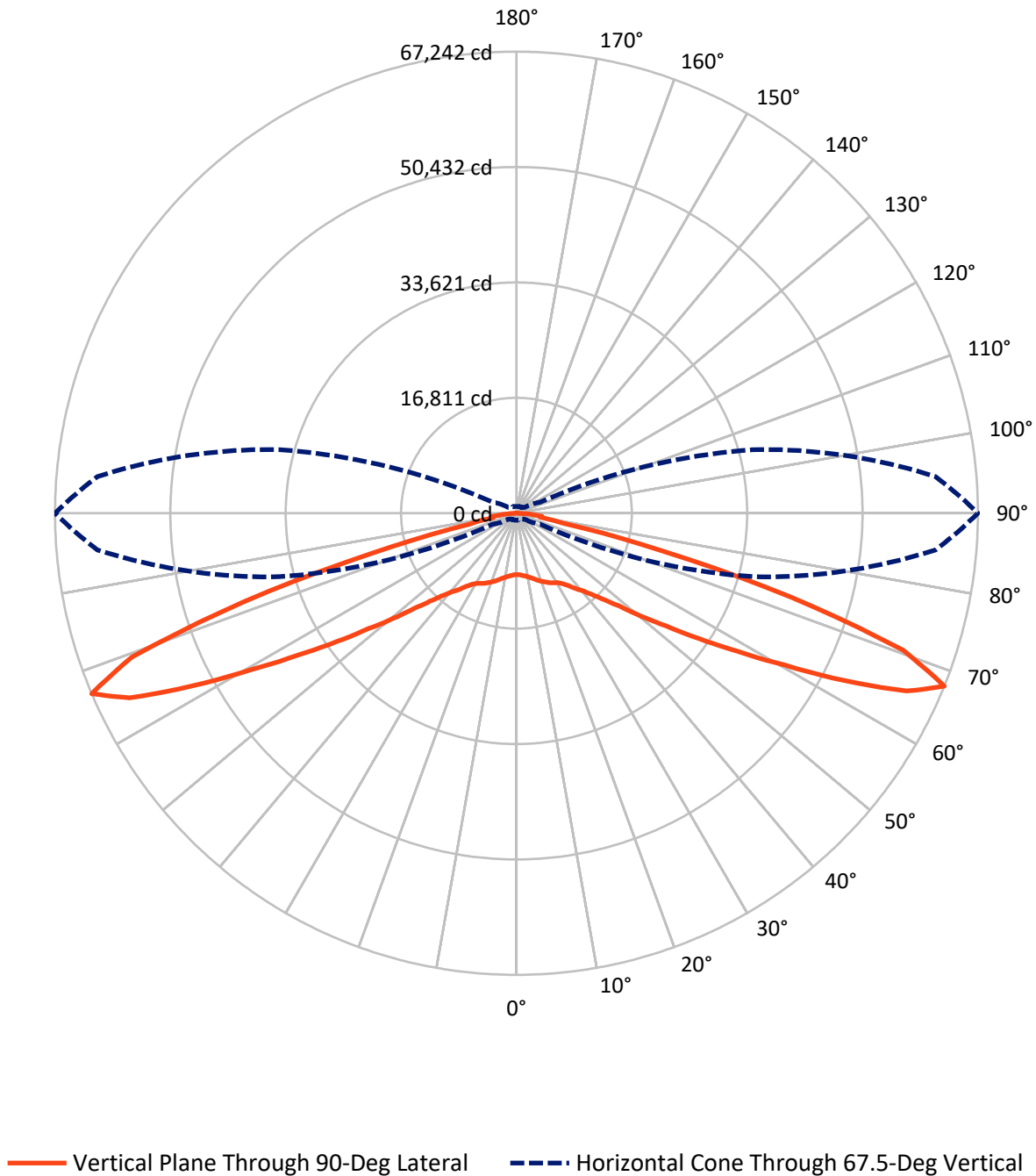


Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25278.5	0.0	25278.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25278.5	0.0	25278.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50557.0	0.0	50557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.3	1.8
10°-20°	2855.0	5.6
20°-30°	4778.5	9.5
30°-40°	6473.6	12.8
40°-50°	8199.9	16.2
50°-60°	10243.7	20.3
60°-70°	12041.0	23.8
70°-80°	4606.3	9.1
80°-90°	466.7	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°	50557.0	100.0
0°-180°	50557.0	100.0

Coefficient of Utilization



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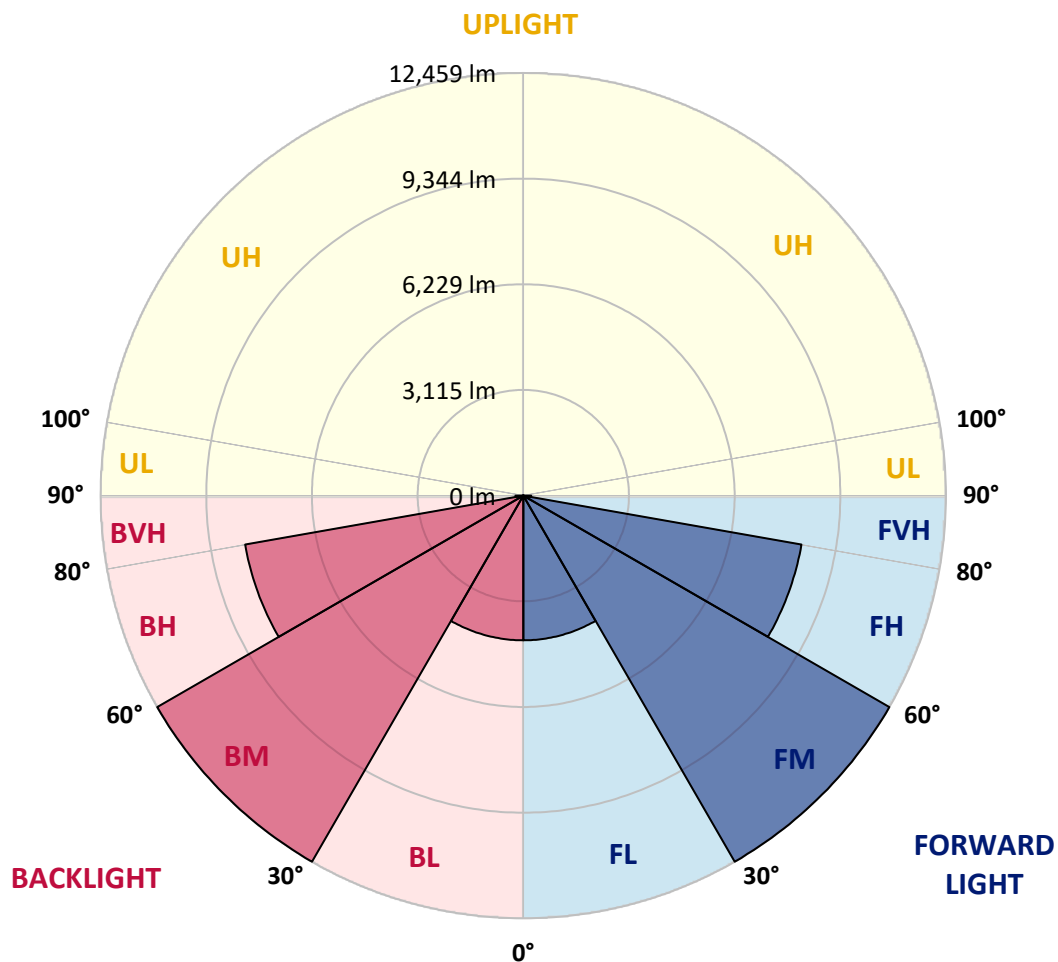
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4262.9	8.4			
FM	(30°-60°)	12458.6	24.6			
FH	(60°-80°)	8323.6	16.5			G4/12000
FVH	(80°-90°)	233.3	0.5			G3/500
BL	(0°-30°)	4262.9	8.4	B4/5000		
BM	(30°-60°)	12458.6	24.6	B5		
BH	(60°-80°)	8323.6	16.5	B5		G5
BVH	(80°-90°)	233.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8950.2	8950.2	8950.2	8950.2	8950.2	8950.2	8950.2	8950.2	8950.2	8950.2	8950.2
2.5°	9064.9	9059.3	9062.1	9059.3	9067.7	9062.1	9028.6	9000.6	8978.2	8981.0	8972.6
5°	9258.1	9260.9	9263.7	9249.7	9269.3	9258.1	9204.9	9160.1	9115.3	9098.5	9092.9
7.5°	9417.7	9431.7	9440.1	9454.1	9487.7	9487.7	9459.7	9395.3	9297.3	9241.3	9238.5
10°	9577.3	9588.5	9613.7	9658.4	9714.4	9767.6	9756.4	9669.6	9543.7	9448.5	9426.1
12.5°	9633.3	9647.3	9731.2	9860.0	9986.0	10089.6	10089.6	10019.6	9857.2	9711.6	9669.6
15°	9437.3	9462.5	9613.7	9888.0	10218.4	10445.1	10495.5	10397.5	10224.0	10000.0	9949.6
17.5°	9048.1	9109.7	9330.9	9736.8	10285.5	10755.9	10901.4	10853.9	10629.9	10344.3	10285.5
20°	8631.0	8698.2	8933.4	9470.9	10229.6	10937.8	11360.6	11371.8	11094.6	10680.3	10593.5
22.5°	8171.9	8222.3	8524.6	9154.5	10061.6	10979.8	11755.3	11948.5	11573.3	11016.2	10893.1
25°	7656.8	7712.8	8029.1	8709.4	9745.2	10932.2	12116.5	12542.0	12074.5	11374.6	11217.8
27.5°	7164.0	7186.4	7525.2	8216.7	9328.1	10809.1	12382.4	13087.9	12628.8	11671.3	11472.6
30°	6690.9	6744.1	7043.7	7726.8	8849.4	10568.3	12612.0	13709.4	13225.1	11982.1	11727.3
32.5°	6189.8	6254.2	6578.9	7270.4	8370.7	10207.2	12752.0	14389.7	14056.5	12486.0	12214.4
35°	5708.3	5750.3	6077.8	6749.7	7903.1	9787.2	12777.1	15156.8	15128.8	13250.3	12889.1
37.5°	5215.6	5277.2	5607.5	6251.4	7407.6	9342.1	12651.2	15971.4	16422.2	14311.3	13922.2
40°	4742.4	4795.6	5120.4	5769.9	6844.9	8799.0	12351.6	16716.1	17931.1	15403.1	14851.6
42.5°	4227.3	4241.3	4596.9	5257.6	6293.4	8169.1	11920.5	17379.6	19613.7	16867.3	16181.4
45°	3642.2	3678.6	4009.0	4658.5	5660.7	7463.6	11335.4	17928.3	21746.9	18897.0	17961.9
47.5°	3057.1	3087.9	3390.3	4031.4	4969.2	6654.5	10433.9	18409.8	23936.2	21475.4	20249.1
50°	2486.0	2502.8	2749.2	3317.5	4190.9	5803.5	9316.9	18563.8	26411.0	25126.0	23561.0
52.5°	1965.3	1990.5	2178.1	2623.2	3359.5	4798.4	8110.3	18183.1	29300.1	29454.1	27248.0
55°	1592.9	1601.3	1741.3	2068.9	2626.0	3745.8	6654.5	17122.1	32407.6	35000.0	32186.4
57.5°	1371.8	1377.4	1455.8	1637.7	2021.3	2824.7	5162.4	15114.8	35198.7	41497.7	37880.7
60°	1245.8	1248.6	1293.4	1399.8	1601.3	2166.9	3698.2	12281.6	37953.5	48729.0	44958.0
62.5°	1167.4	1167.4	1198.2	1257.0	1355.0	1662.9	2679.2	8860.6	39840.4	56066.6	53681.4
65°	1091.8	1091.8	1114.2	1156.2	1209.4	1360.6	1979.3	5778.3	39792.8	61410.9	62455.2
67.5°	1005.0	1005.0	1021.8	1063.8	1094.6	1170.2	1528.6	3785.0	35744.7	61293.4	67242.4
70°	901.5	901.5	923.9	960.2	985.4	1033.0	1206.6	2589.6	26259.8	52334.8	59801.2
72.5°	797.9	800.7	814.7	851.1	870.7	898.7	1002.2	1814.1	16108.6	35635.5	41814.1
75°	683.1	688.7	702.7	739.1	755.9	767.1	845.5	1293.4	8149.5	19213.3	21875.7
77.5°	551.5	562.7	571.1	610.3	621.5	638.3	697.1	935.0	3577.8	6903.7	6965.3
80°	403.1	417.1	442.3	478.7	487.1	498.3	531.9	663.5	1620.9	3152.3	3423.9
82.5°	296.8	316.3	285.6	333.1	333.1	319.1	375.1	445.1	744.7	3121.5	3734.6
85°	162.4	165.2	148.4	170.8	182.0	179.2	198.8	218.4	361.1	2082.9	2147.3
87.5°	39.2	42.0	44.8	53.2	64.4	64.4	70.0	61.6	117.6	674.7	386.3
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)