

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: P458257

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458257
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-SA9C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 52254 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - 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

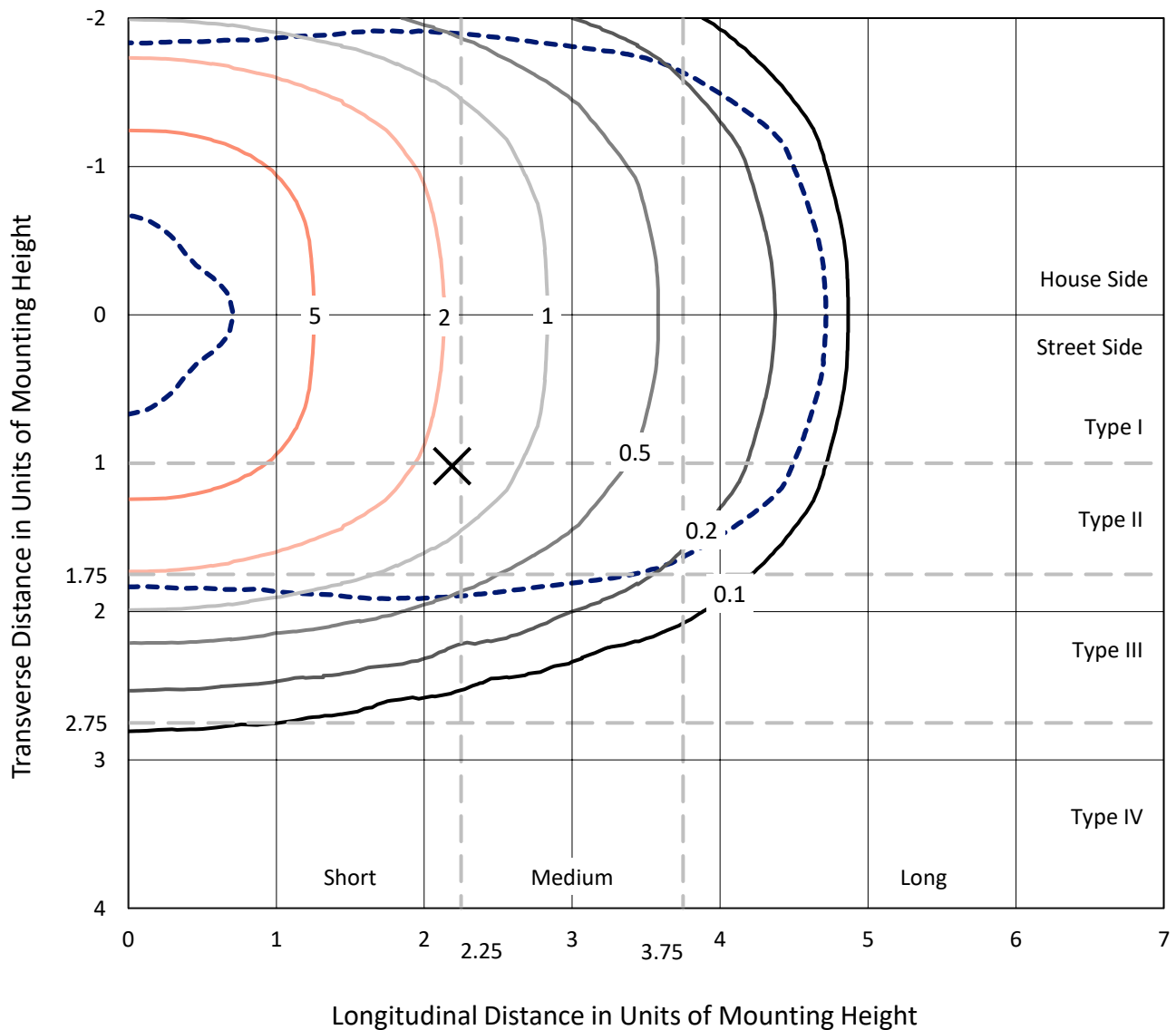


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

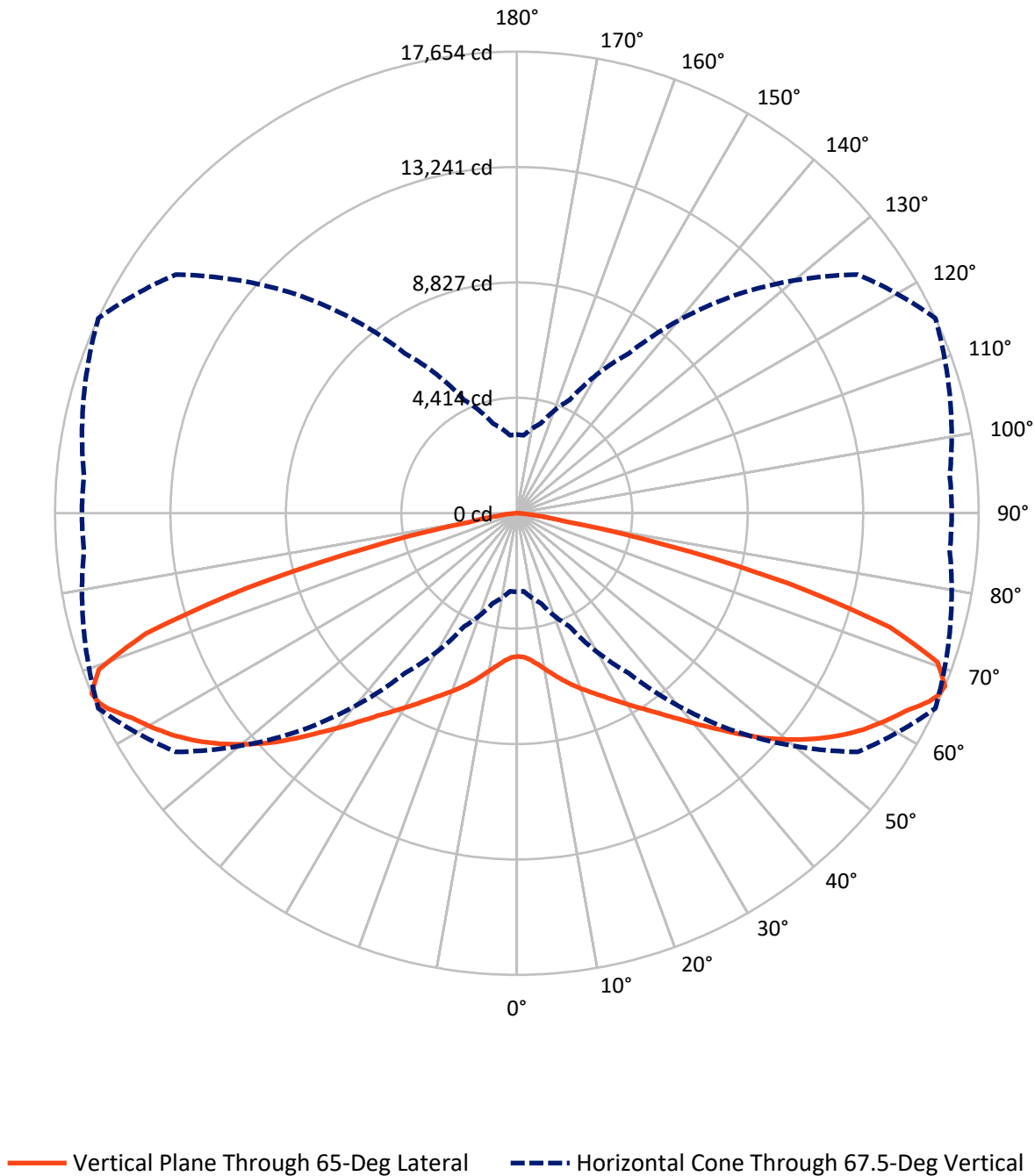


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26127.0	0.0	26127.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26127.0	0.0	26127.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52254.0	0.0	52254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.8	1.0
10°-20°	1806.7	3.5
20°-30°	3534.0	6.8
30°-40°	6010.8	11.5
40°-50°	9513.3	18.2
50°-60°	12614.4	24.1
60°-70°	11899.3	22.8
70°-80°	5882.4	11.3
80°-90°	453.3	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°	52254.0	100.0
0°-180°	52254.0	100.0

Coefficient of Utilization



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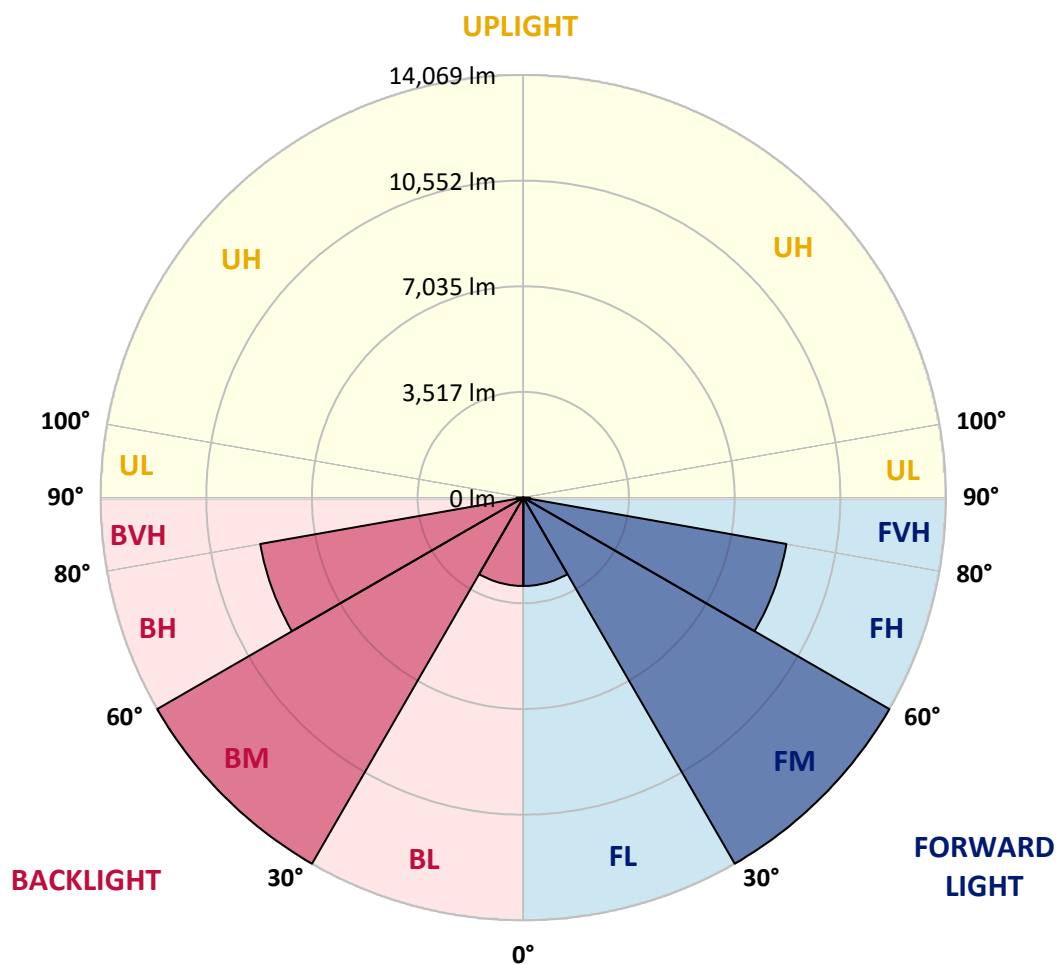
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2940.2	5.6			
FM	(30°-60°)	14069.3	26.9			
FH	(60°-80°)	8890.9	17.0			G4/12000
FVH	(80°-90°)	226.7	0.4			G3/500
BL	(0°-30°)	2940.2	5.6	B4/5000		
BM	(30°-60°)	14069.3	26.9	B5		
BH	(60°-80°)	8890.9	17.0	B5		G5
BVH	(80°-90°)	226.7	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1
2.5°	5445.1	5450.7	5456.3	5464.7	5475.9	5492.7	5503.9	5512.3	5534.7	5537.5	5534.7
5°	5425.6	5431.2	5445.1	5470.3	5506.7	5557.1	5596.3	5643.9	5680.3	5705.5	5699.9
7.5°	5422.8	5434.0	5456.3	5509.5	5579.5	5666.3	5755.9	5837.1	5907.1	5963.1	5954.7
10°	5467.5	5481.5	5517.9	5596.3	5705.5	5831.5	5957.5	6077.9	6178.6	6251.4	6276.6
12.5°	5543.1	5554.3	5621.5	5739.1	5895.9	6052.7	6195.4	6343.8	6483.8	6607.0	6607.0
15°	5674.7	5694.3	5778.3	5949.1	6142.2	6324.2	6469.8	6626.6	6777.7	6917.7	6959.7
17.5°	5856.7	5884.7	6010.7	6229.0	6475.4	6643.4	6780.5	6909.3	7040.9	7175.3	7194.9
20°	6105.8	6133.8	6301.8	6565.0	6856.1	7057.7	7150.1	7180.9	7245.3	7374.0	7390.8
22.5°	6444.6	6472.6	6660.2	6956.9	7281.7	7500.0	7539.2	7466.4	7449.6	7550.4	7561.6
25°	6828.1	6853.3	7068.9	7388.0	7724.0	7962.0	7950.8	7771.6	7670.8	7732.4	7749.2
27.5°	7259.3	7295.7	7514.0	7844.4	8208.3	8418.3	8384.7	8124.3	7908.8	7897.6	7903.2
30°	7810.8	7850.0	8057.1	8373.5	8731.8	8925.0	8855.0	8505.1	8171.9	8059.9	8059.9
32.5°	8393.1	8491.1	8701.0	9031.4	9311.3	9451.3	9344.9	8925.0	8482.7	8325.9	8317.5
35°	9151.8	9205.0	9412.1	9734.1	9944.0	10053.2	9848.9	9398.1	8888.6	8703.8	8678.6
37.5°	9893.7	9938.4	10179.2	10487.2	10741.9	10736.3	10459.2	9960.8	9392.5	9185.4	9168.6
40°	10652.3	10699.9	10974.3	11257.0	11511.8	11489.4	11153.5	10596.3	9991.6	9759.3	9804.1
42.5°	11310.2	11363.4	11674.2	12077.3	12306.9	12301.3	11912.1	11285.0	10655.1	10448.0	10487.2
45°	11909.3	11956.9	12318.1	12780.0	13116.0	13157.9	12732.4	12068.9	11422.2	11156.3	11167.5
47.5°	12332.1	12421.7	12799.6	13328.7	13785.0	13933.4	13516.3	12866.8	12122.1	11845.0	11861.7
50°	12654.0	12710.0	13121.6	13723.5	14300.2	14608.1	14272.2	13605.9	12822.0	12528.0	12567.2
52.5°	12693.2	12760.4	13208.3	13902.6	14641.7	15109.2	14944.1	14328.2	13535.9	13233.5	13317.5
55°	12374.1	12413.3	12948.0	13790.6	14776.1	15481.6	15523.6	15000.1	14216.2	13986.6	14042.6
57.5°	11464.2	11565.0	12242.5	13267.1	14591.3	15680.4	15957.5	15610.4	14904.9	14678.1	14767.7
60°	9972.0	10072.8	10753.1	12052.1	13894.2	15588.0	16315.9	16150.7	15529.2	15347.2	15394.8
62.5°	7813.6	7805.2	8647.8	10240.8	12508.4	15134.4	16581.8	16671.4	16145.1	15915.5	15988.3
65°	5064.4	5089.6	5904.3	7620.4	10417.2	13981.0	16640.6	17334.9	16749.8	16402.6	16455.8
66°	4073.4	4149.0	4840.4	6422.2	9350.5	13225.1	16464.2	17530.9	16934.6	16514.6	16539.8
67.5°	3006.7	2992.7	3561.0	4781.7	7466.4	11789.0	15912.7	17654.0	17144.5	16615.4	16626.6
70°	1716.1	1713.3	1914.9	2626.0	4389.7	8300.7	13412.7	17063.3	17570.1	16979.3	16948.6
72.5°	1254.2	1245.8	1273.8	1450.2	2141.7	4190.9	9252.6	14913.3	17351.7	16920.6	16833.8
75°	1052.6	1047.0	1041.4	1063.8	1201.0	1898.1	4910.4	10727.9	15056.0	15881.9	15792.3
77.5°	859.5	859.5	862.3	856.7	862.3	999.4	2035.3	5750.3	9168.6	10235.2	10484.4
80°	671.9	669.1	716.7	697.1	652.3	641.1	901.5	1850.5	3043.1	3026.3	2497.2
82.5°	495.5	461.9	545.9	531.9	481.5	408.7	526.3	789.5	1016.2	660.7	489.9
85°	313.6	310.8	386.3	352.7	294.0	193.2	252.0	338.7	419.9	254.8	207.2
87.5°	56.0	53.2	123.2	89.6	89.6	56.0	70.0	92.4	137.2	95.2	70.0
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)