

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: P456865

Luminaire Tested: **GALN-SA8A-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456865
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-SA8A-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30276 lumens
Efficiency: N/A
Efficacy: 124.1 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): 244
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

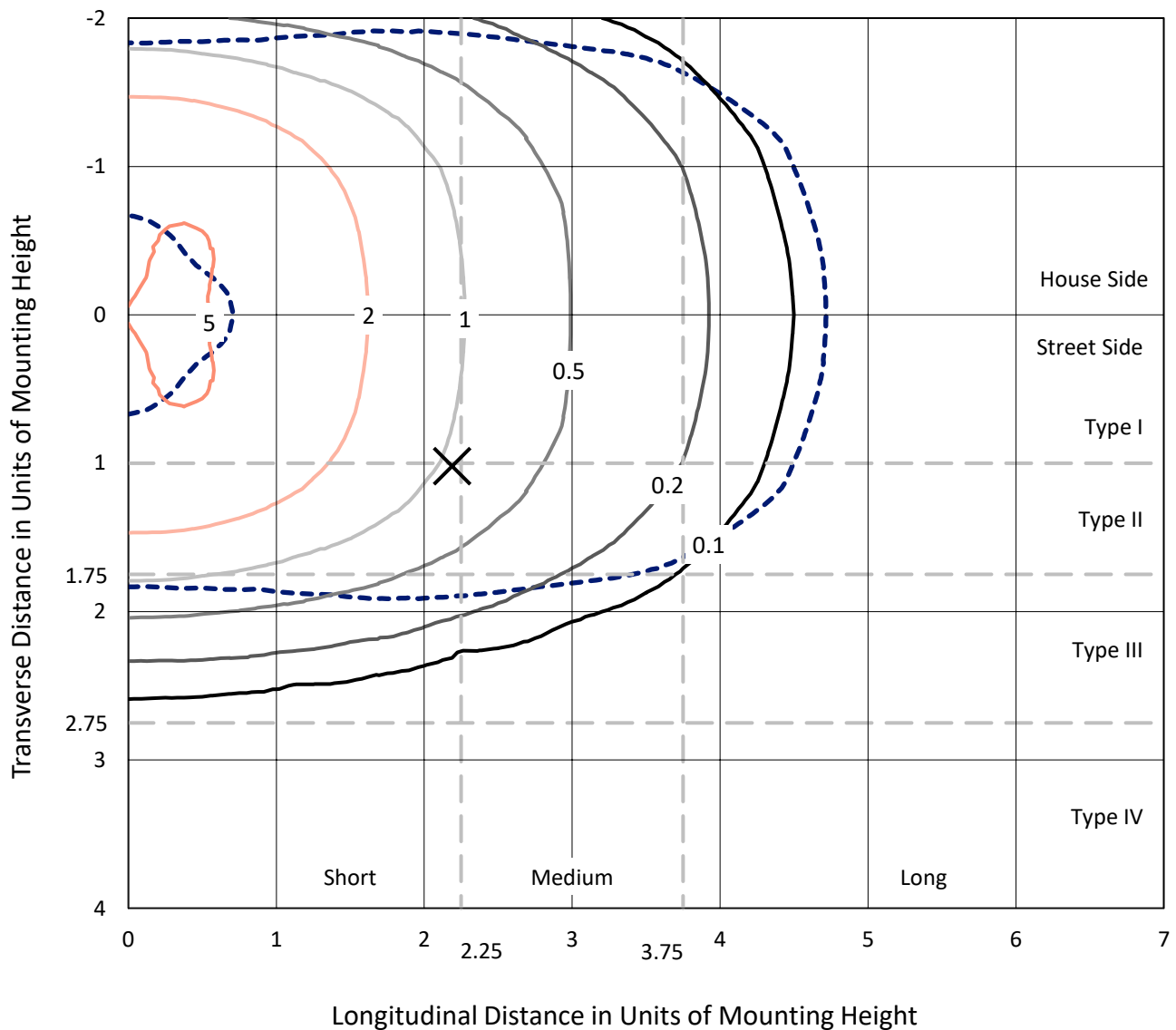


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

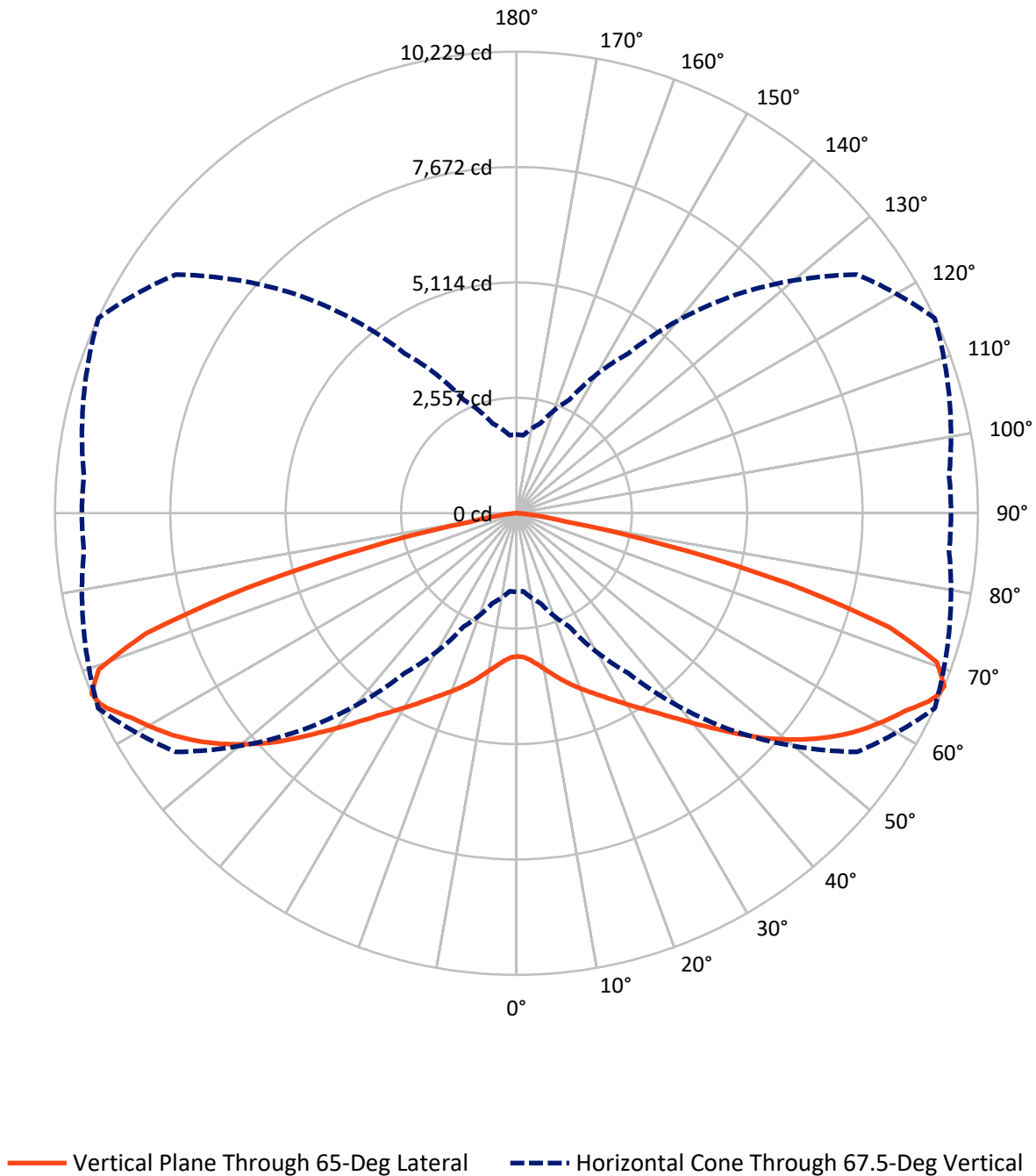


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15138.0	0.0	15138.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15138.0	0.0	15138.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30276.0	0.0	30276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.0
10°-20°	1046.8	3.5
20°-30°	2047.6	6.8
30°-40°	3482.7	11.5
40°-50°	5512.0	18.2
50°-60°	7308.8	24.1
60°-70°	6894.5	22.8
70°-80°	3408.3	11.3
80°-90°	262.7	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°	30276.0	100.0
0°-180°	30276.0	100.0

Coefficient of Utilization



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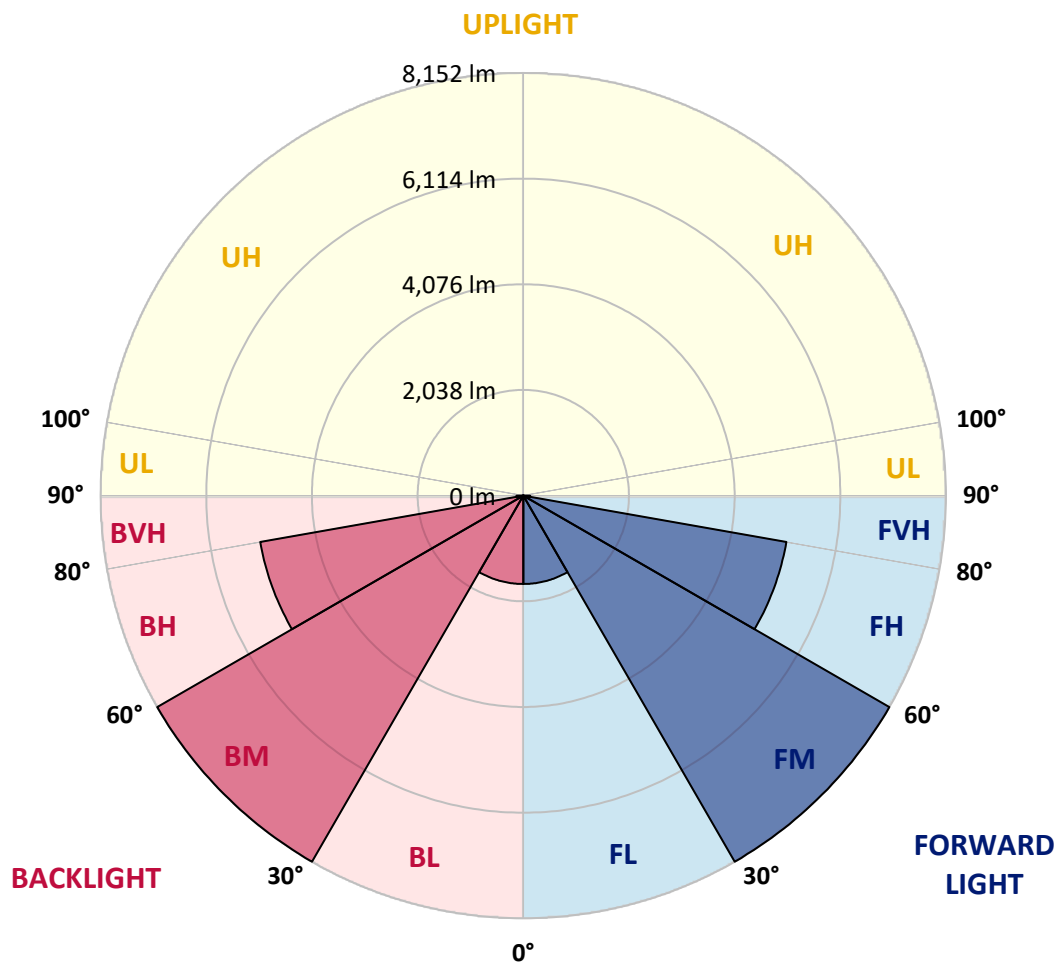
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1703.6	5.6			
FM	(30°-60°)	8151.7	26.9			
FH	(60°-80°)	5151.4	17.0			G3/7500
FVH	(80°-90°)	131.3	0.4			G2/225
BL	(0°-30°)	1703.6	5.6	B3/2500		
BM	(30°-60°)	8151.7	26.9	B4/8500		
BH	(60°-80°)	5151.4	17.0	B5		G5
BVH	(80°-90°)	131.3	0.4			G2/225
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°	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1
2.5°	3154.9	3158.2	3161.4	3166.3	3172.8	3182.5	3189.0	3193.9	3206.8	3208.5	3206.8
5°	3143.6	3146.8	3154.9	3169.5	3190.6	3219.8	3242.5	3270.1	3291.2	3305.8	3302.5
7.5°	3141.9	3148.4	3161.4	3192.2	3232.8	3283.1	3335.0	3382.0	3422.6	3455.0	3450.1
10°	3167.9	3176.0	3197.1	3242.5	3305.8	3378.8	3451.8	3521.5	3579.9	3622.1	3636.7
12.5°	3211.7	3218.2	3257.1	3325.2	3416.1	3506.9	3589.6	3675.6	3756.7	3828.1	3828.1
15°	3287.9	3299.3	3347.9	3446.9	3558.8	3664.3	3748.6	3839.4	3927.0	4008.1	4032.5
17.5°	3393.4	3409.6	3482.6	3609.1	3751.8	3849.2	3928.6	4003.3	4079.5	4157.4	4168.7
20°	3537.7	3554.0	3651.3	3803.8	3972.4	4089.2	4142.8	4160.6	4197.9	4272.5	4282.3
22.5°	3734.0	3750.2	3858.9	4030.8	4219.0	4345.5	4368.2	4326.1	4316.3	4374.7	4381.2
25°	3956.2	3970.8	4095.7	4280.6	4475.3	4613.2	4606.7	4502.9	4444.5	4480.2	4489.9
27.5°	4206.0	4227.1	4353.6	4545.0	4755.9	4877.6	4858.1	4707.2	4582.3	4575.9	4579.1
30°	4525.6	4548.3	4668.3	4851.6	5059.2	5171.2	5130.6	4927.8	4734.8	4669.9	4669.9
32.5°	4863.0	4919.7	5041.4	5232.8	5395.0	5476.1	5414.5	5171.2	4914.9	4824.0	4819.2
35°	5302.5	5333.4	5453.4	5639.9	5761.6	5824.8	5706.4	5445.3	5150.1	5043.0	5028.4
37.5°	5732.4	5758.3	5897.8	6076.3	6223.9	6220.6	6060.0	5771.3	5442.0	5322.0	5312.3
40°	6172.0	6199.5	6358.5	6522.3	6669.9	6657.0	6462.3	6139.5	5789.2	5654.5	5680.5
42.5°	6553.2	6584.0	6764.0	6997.6	7130.6	7127.4	6901.9	6538.6	6173.6	6053.6	6076.3
45°	6900.3	6927.9	7137.1	7404.7	7599.4	7623.7	7377.2	6992.7	6618.0	6463.9	6470.4
47.5°	7145.2	7197.1	7416.1	7722.7	7987.1	8073.0	7831.3	7455.0	7023.6	6863.0	6872.7
50°	7331.7	7364.2	7602.6	7951.4	8285.5	8464.0	8269.3	7883.3	7429.1	7258.8	7281.5
52.5°	7354.5	7393.4	7652.9	8055.2	8483.4	8754.3	8658.6	8301.7	7842.7	7667.5	7716.2
55°	7169.5	7192.3	7502.1	7990.3	8561.3	8970.0	8994.4	8691.0	8236.9	8103.9	8136.3
57.5°	6642.4	6700.8	7093.3	7687.0	8454.2	9085.2	9245.8	9044.7	8635.9	8504.5	8556.4
60°	5777.8	5836.2	6230.4	6983.0	8050.3	9031.7	9453.4	9357.7	8997.6	8892.2	8919.8
62.5°	4527.2	4522.3	5010.6	5933.5	7247.4	8768.9	9607.5	9659.4	9354.5	9221.5	9263.6
65°	2934.3	2948.9	3420.9	4415.3	6035.7	8100.6	9641.6	10043.8	9704.8	9503.7	9534.5
66°	2360.1	2403.9	2804.6	3721.0	5417.7	7662.7	9539.4	10157.4	9811.9	9568.6	9583.2
67.5°	1742.1	1734.0	2063.3	2770.5	4326.1	6830.5	9219.8	10228.8	9933.5	9627.0	9633.5
70°	994.3	992.7	1109.5	1521.5	2543.4	4809.4	7771.3	9886.5	10180.1	9837.8	9820.0
72.5°	726.7	721.8	738.0	840.2	1240.9	2428.2	5360.9	8640.8	10053.6	9803.8	9753.5
75°	609.9	606.7	603.4	616.4	695.9	1099.8	2845.1	6215.8	8723.5	9202.0	9150.1
77.5°	498.0	498.0	499.6	496.4	499.6	579.1	1179.2	3331.7	5312.3	5930.3	6074.6
80°	389.3	387.7	415.2	403.9	377.9	371.5	522.3	1072.2	1763.2	1753.5	1446.9
82.5°	287.1	267.6	316.3	308.2	279.0	236.8	304.9	457.4	588.8	382.8	283.9
85°	181.7	180.0	223.8	204.4	170.3	111.9	146.0	196.3	243.3	147.6	120.0
87.5°	32.4	30.8	71.4	51.9	51.9	32.4	40.6	53.5	79.5	55.2	40.6
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)