

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: P455444

Luminaire Tested: **GALN-SA6C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455444
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-SA6C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31620 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

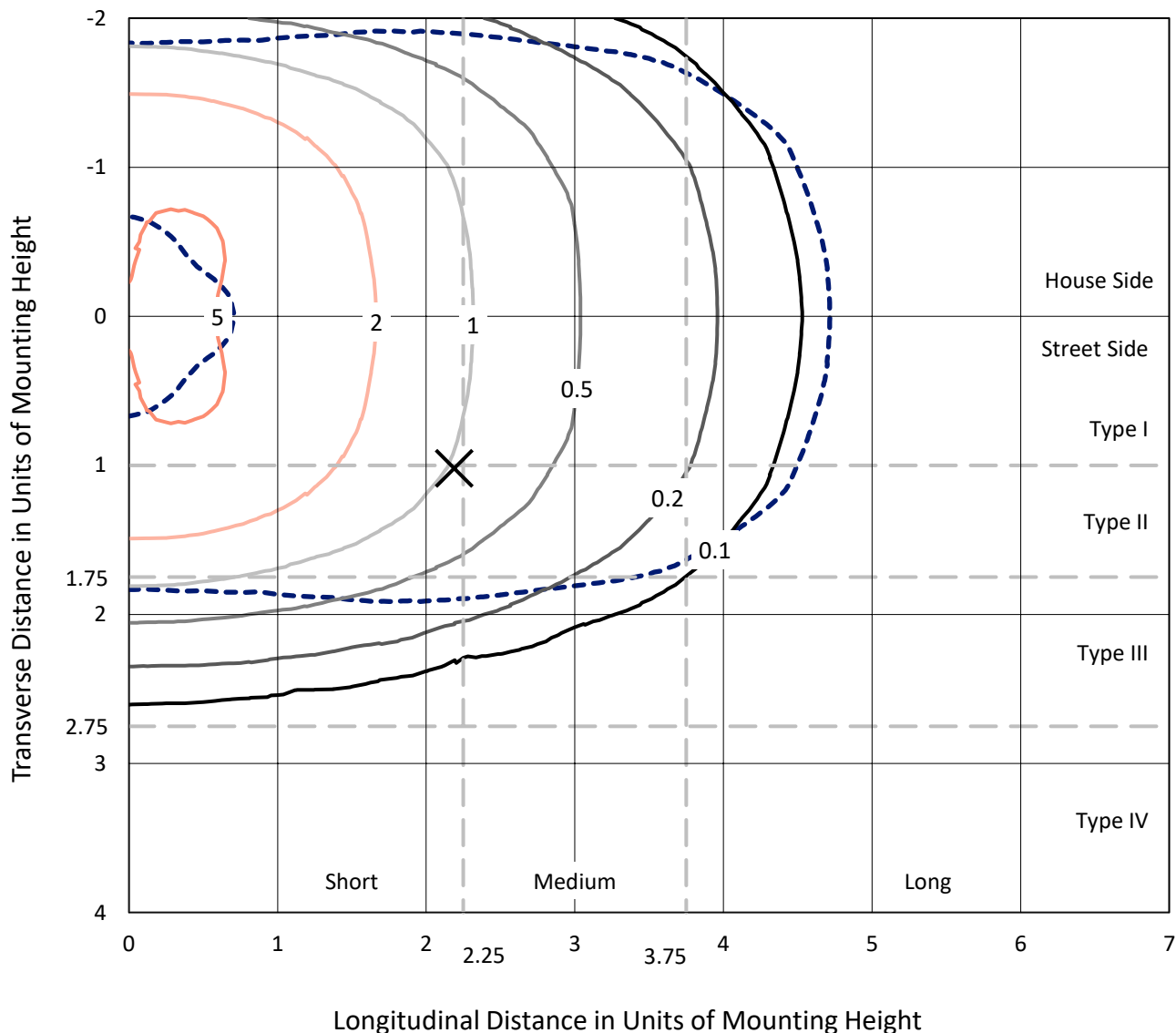
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

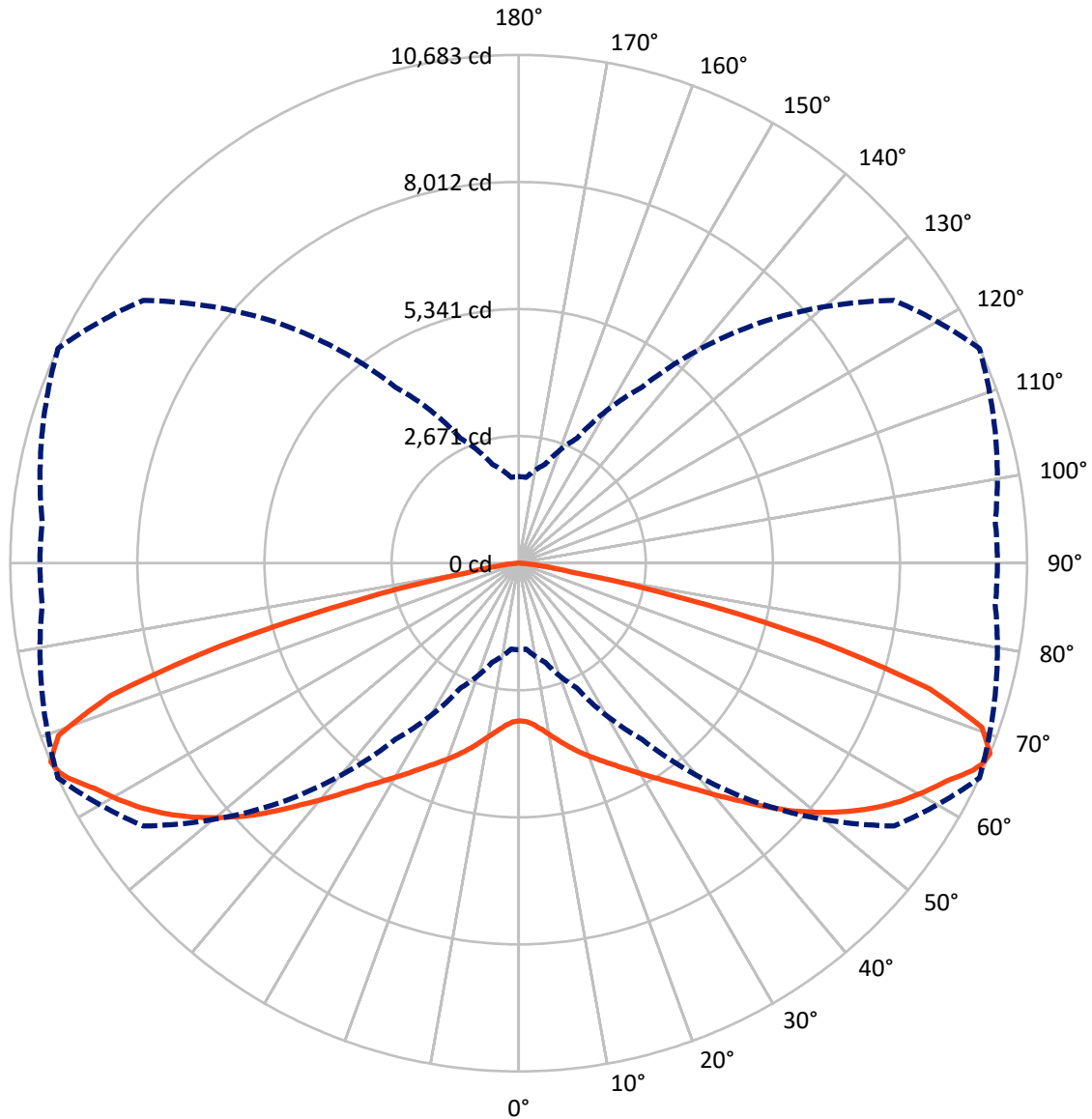
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15810.0	0.0	15810.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15810.0	0.0	15810.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31620.0	0.0	31620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	1.0
10°-20°	1093.3	3.5
20°-30°	2138.5	6.8
30°-40°	3637.3	11.5
40°-50°	5756.7	18.2
50°-60°	7633.3	24.1
60°-70°	7200.5	22.8
70°-80°	3559.6	11.3
80°-90°	274.3	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°	31620.0	100.0
0°-180°	31620.0	100.0



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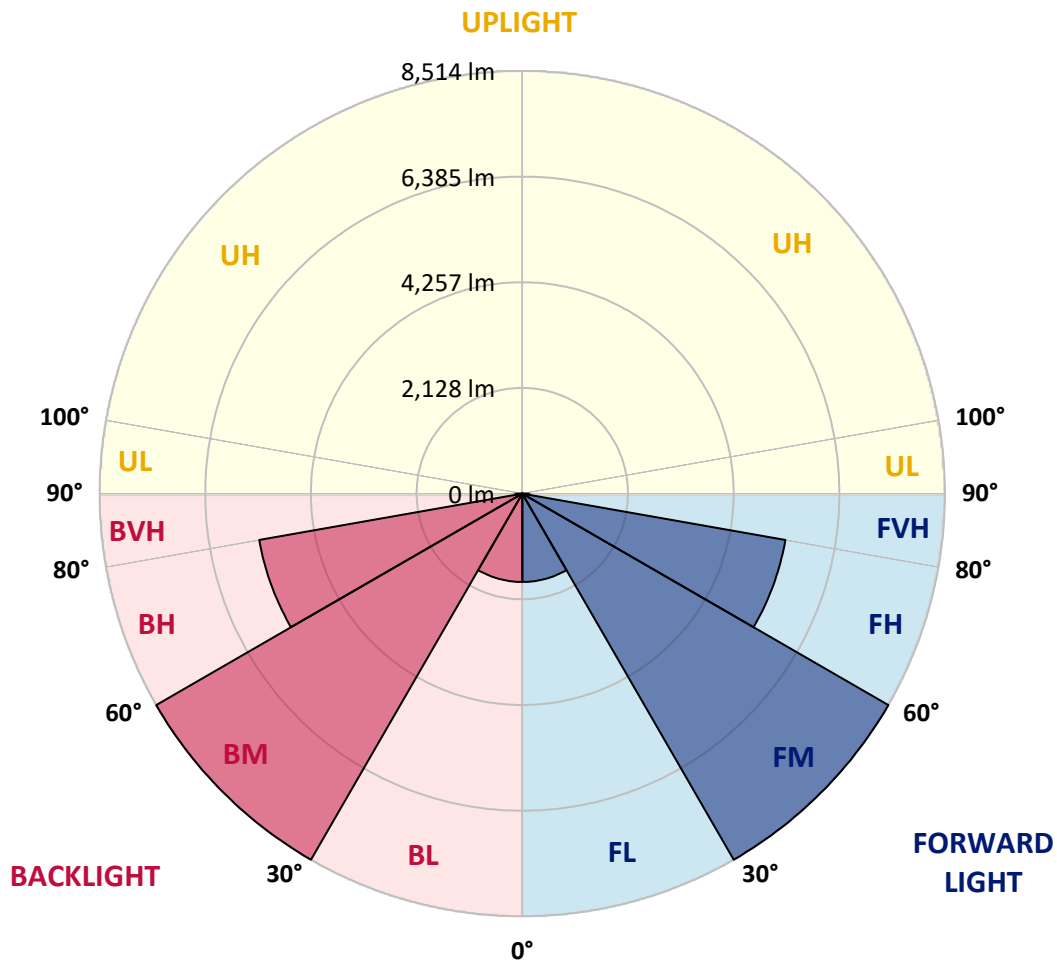
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1779.2	5.6			
FM	(30°-60°)	8513.6	26.9			
FH	(60°-80°)	5380.0	17.0			G3/7500
FVH	(80°-90°)	137.2	0.4			G2/225
BL	(0°-30°)	1779.2	5.6	B3/2500		
BM	(30°-60°)	8513.6	26.9	B5		
BH	(60°-80°)	5380.0	17.0	B5		G5
BVH	(80°-90°)	137.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3311.9	3311.9	3311.9	3311.9	3311.9	3311.9	3311.9	3311.9	3311.9	3311.9	3311.9
2.5°	3295.0	3298.4	3301.8	3306.8	3313.6	3323.8	3330.6	3335.6	3349.2	3350.9	3349.2
5°	3283.1	3286.5	3295.0	3310.2	3332.2	3362.7	3386.5	3415.3	3437.3	3452.5	3449.1
7.5°	3281.4	3288.2	3301.8	3333.9	3376.3	3428.8	3483.0	3532.1	3574.5	3608.4	3603.3
10°	3308.5	3317.0	3339.0	3386.5	3452.5	3528.8	3605.0	3677.8	3738.8	3782.9	3798.1
12.5°	3354.3	3361.0	3401.7	3472.9	3567.7	3662.6	3749.0	3838.8	3923.5	3998.0	3998.0
15°	3433.9	3445.7	3496.6	3599.9	3716.8	3826.9	3915.0	4009.9	4101.4	4186.1	4211.5
17.5°	3544.0	3560.9	3637.2	3769.3	3918.4	4020.0	4103.0	4181.0	4260.6	4341.9	4353.8
20°	3694.8	3711.7	3813.4	3972.6	4148.8	4270.8	4326.7	4345.3	4384.3	4462.2	4472.4
22.5°	3899.8	3916.7	4030.2	4209.8	4406.3	4538.4	4562.1	4518.1	4507.9	4568.9	4575.7
25°	4131.8	4147.1	4277.5	4470.7	4674.0	4817.9	4811.2	4702.8	4641.8	4679.0	4689.2
27.5°	4392.7	4414.8	4546.9	4746.8	4967.0	5094.1	5073.8	4916.2	4785.8	4779.0	4782.4
30°	4726.5	4750.2	4875.5	5067.0	5283.8	5400.7	5358.4	5146.6	4945.0	4877.2	4877.2
32.5°	5078.8	5138.1	5265.2	5465.1	5634.5	5719.2	5654.8	5400.7	5133.0	5038.2	5033.1
35°	5537.9	5570.1	5695.5	5890.3	6017.4	6083.4	5959.8	5687.0	5378.7	5266.9	5251.6
37.5°	5986.9	6014.0	6159.7	6346.0	6500.2	6496.8	6329.1	6027.5	5683.6	5558.3	5548.1
40°	6446.0	6474.8	6640.8	6811.9	6966.0	6952.5	6749.2	6412.1	6046.2	5905.5	5932.6
42.5°	6844.1	6876.2	7064.3	7308.2	7447.2	7443.8	7208.3	6828.8	6447.6	6322.3	6346.0
45°	7206.6	7235.4	7453.9	7733.5	7936.7	7962.2	7704.7	7303.2	6911.8	6750.9	6757.7
47.5°	7462.4	7516.6	7745.3	8065.5	8341.6	8431.4	8179.0	7786.0	7335.3	7167.6	7177.8
50°	7657.2	7691.1	7940.1	8304.4	8653.3	8839.7	8636.4	8233.2	7758.9	7581.0	7604.7
52.5°	7680.9	7721.6	7992.6	8412.8	8860.0	9142.9	9043.0	8670.3	8190.9	8007.9	8058.7
55°	7487.8	7511.5	7835.1	8345.0	8941.3	9368.2	9393.6	9076.9	8602.5	8463.6	8497.5
57.5°	6937.2	6998.2	7408.2	8028.2	8829.5	9488.5	9656.2	9446.2	9019.3	8882.0	8936.2
60°	6034.3	6095.3	6506.9	7293.0	8407.7	9432.6	9873.1	9773.1	9397.0	9286.9	9315.7
62.5°	4728.2	4723.1	5233.0	6196.9	7569.1	9158.2	10034.0	10088.2	9769.7	9630.8	9674.9
65°	3064.6	3079.8	3572.8	4611.3	6303.7	8460.2	10069.6	10489.7	10135.6	9925.6	9957.8
66°	2464.9	2510.6	2929.1	3886.2	5658.2	8002.8	9962.9	10608.3	10247.5	9993.3	10008.6
67.5°	1819.4	1811.0	2154.9	2893.5	4518.1	7133.7	9629.1	10682.8	10374.5	10054.3	10061.1
70°	1038.5	1036.8	1158.7	1589.0	2656.3	5022.9	8116.3	10325.4	10632.0	10274.6	10255.9
72.5°	758.9	753.9	770.8	877.5	1296.0	2536.0	5598.9	9024.3	10499.9	10239.0	10186.5
75°	637.0	633.6	630.2	643.7	726.8	1148.6	2971.4	6491.7	9110.7	9610.5	9556.3
77.5°	520.1	520.1	521.8	518.4	521.8	604.8	1231.6	3479.6	5548.1	6193.5	6344.3
80°	406.6	404.9	433.7	421.8	394.7	387.9	545.5	1119.8	1841.5	1831.3	1511.1
82.5°	299.9	279.5	330.3	321.9	291.4	247.3	318.5	477.7	614.9	399.8	296.5
85°	189.7	188.0	233.8	213.5	177.9	116.9	152.5	205.0	254.1	154.2	125.4
87.5°	33.9	32.2	74.5	54.2	54.2	33.9	42.4	55.9	83.0	57.6	42.4
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)