

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: P456832

Luminaire Tested: **GALN-SA8A-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28331 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

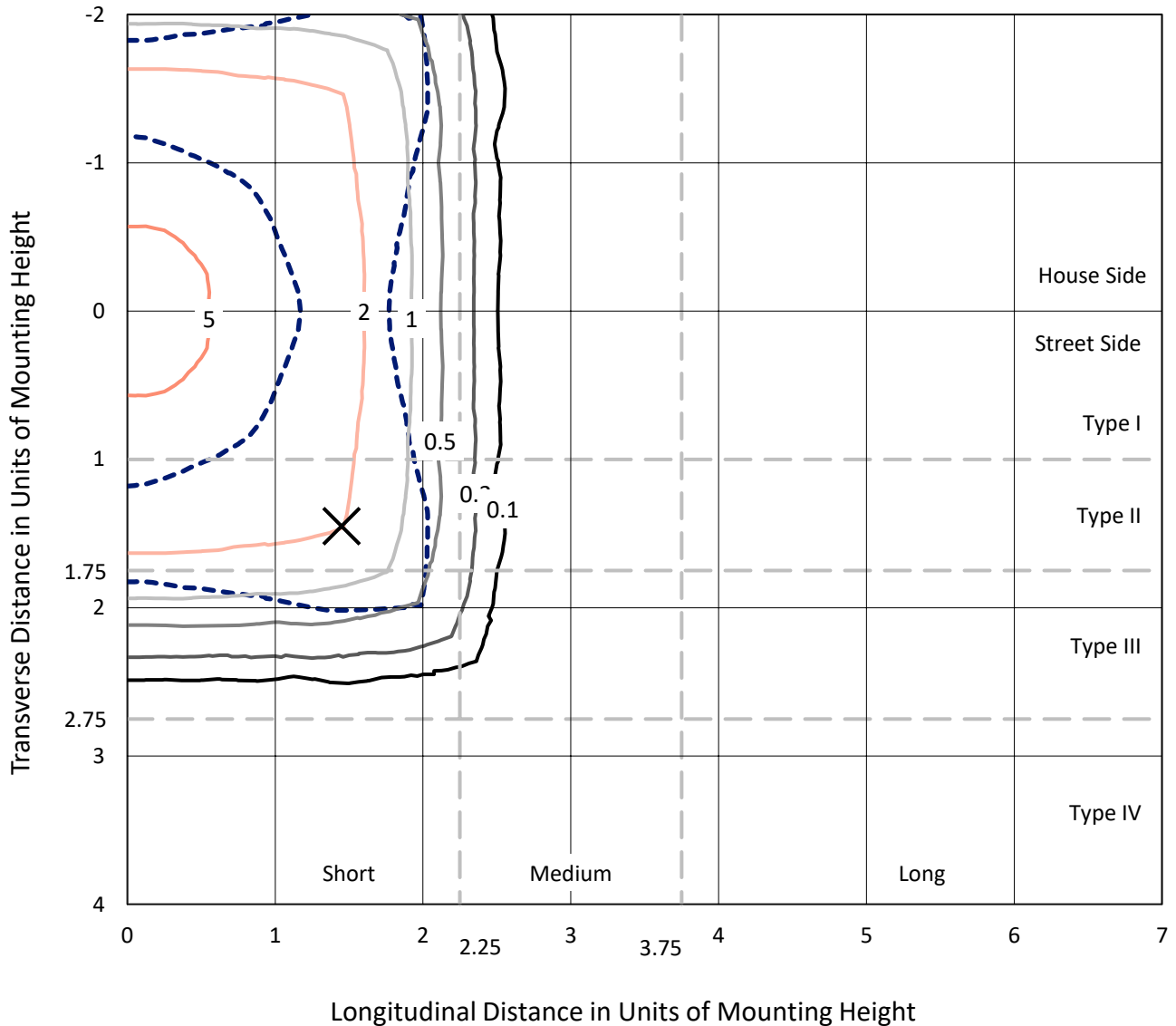
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

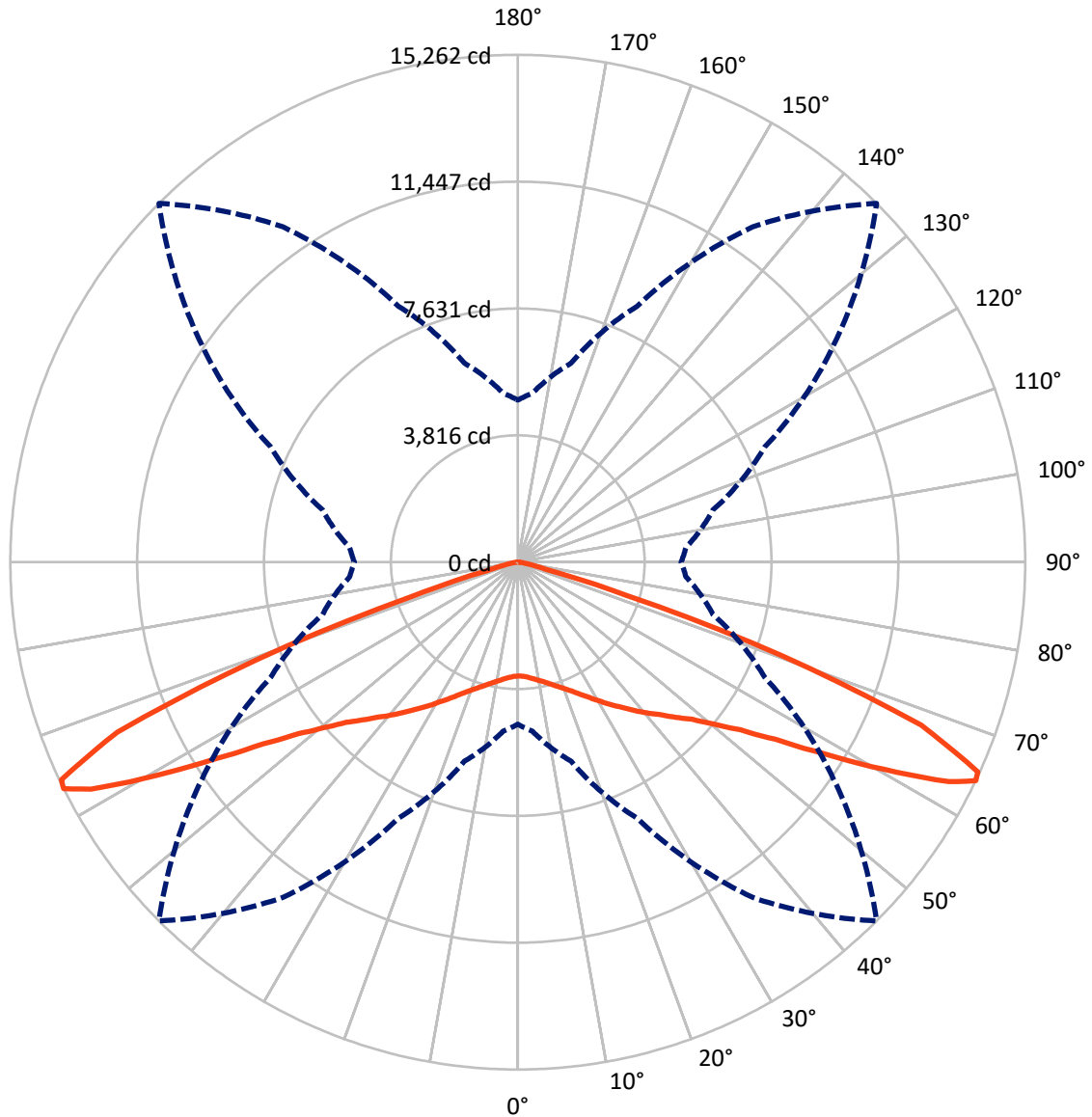
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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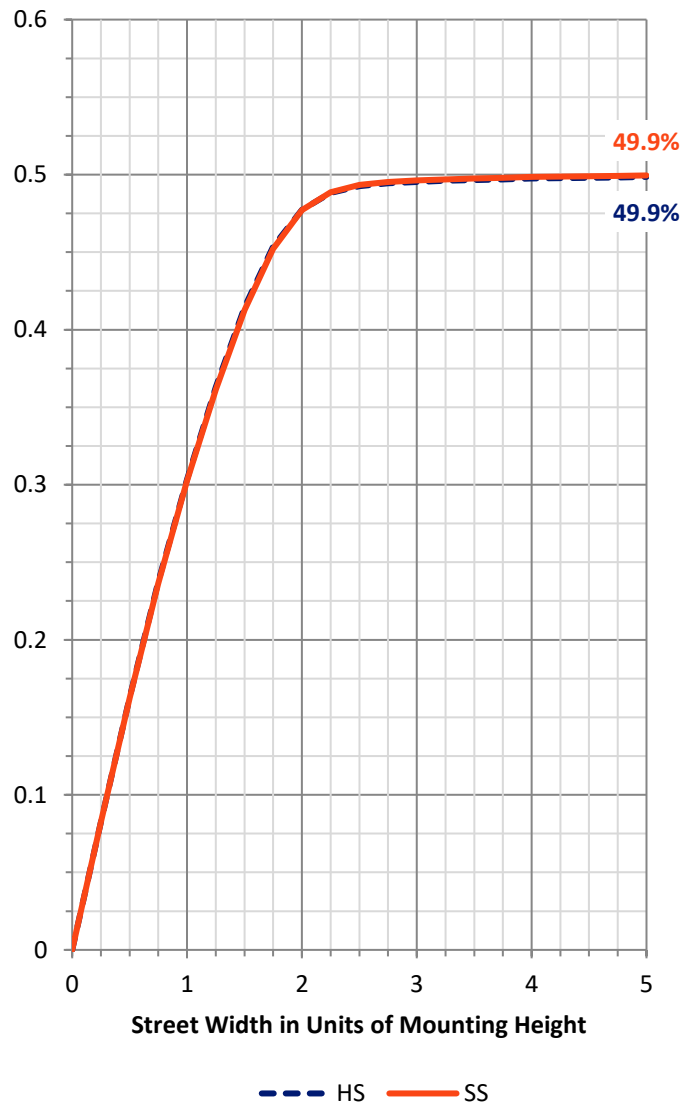
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14165.5	0.0	14165.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14165.5	0.0	14165.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28331.0	0.0	28331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.4	1.2
10°-20°	1085.1	3.8
20°-30°	2050.6	7.2
30°-40°	3396.0	12.0
40°-50°	5301.8	18.7
50°-60°	8196.4	28.9
60°-70°	7067.7	24.9
70°-80°	801.0	2.8
80°-90°	96.0	0.3
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°	28331.0	100.0
0°-180°	28331.0	100.0

Coefficient of Utilization



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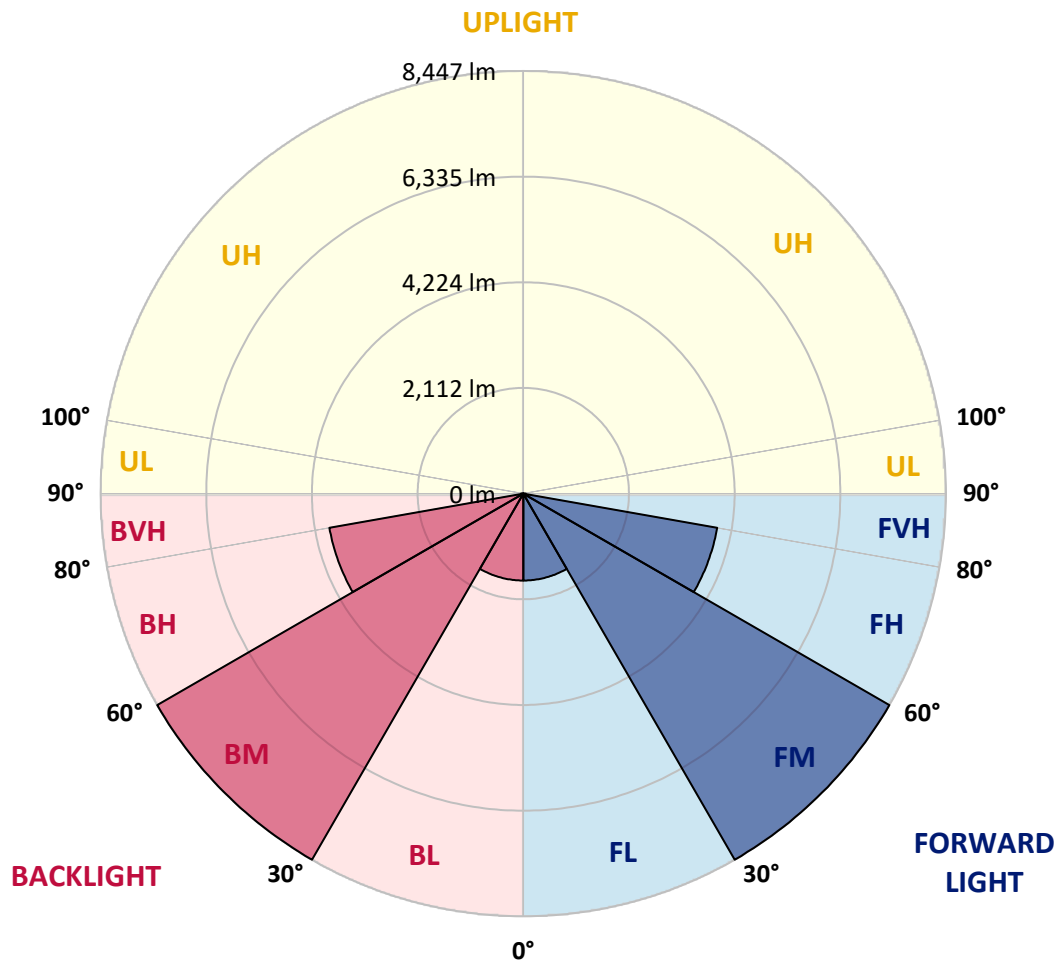
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.1	6.1			
FM (30°-60°)	8447.1	29.8			
FH (60°-80°)	3934.3	13.9			G2/5000
FVH (80°-90°)	48.0	0.2			G1/100
BL (0°-30°)	1736.1	6.1	B3/2500		
BM (30°-60°)	8447.1	29.8	B4/8500		
BH (60°-80°)	3934.3	13.9	B4/5000		G2/5000
BVH (80°-90°)	48.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3424.3	3424.3	3424.3	3424.3	3424.3	3424.3	3424.3	3424.3	3424.3	3424.3	3424.3
2.5°	3437.8	3445.3	3439.3	3437.8	3436.3	3436.3	3437.8	3443.8	3448.3	3445.3	3445.3
5°	3481.3	3487.3	3484.3	3482.8	3481.3	3482.8	3479.8	3478.3	3482.8	3482.8	3481.3
7.5°	3535.3	3542.8	3539.8	3542.8	3544.3	3545.8	3538.3	3532.3	3530.8	3535.3	3532.3
10°	3608.8	3614.8	3616.3	3617.8	3620.9	3619.4	3610.3	3599.8	3598.3	3596.8	3595.3
12.5°	3691.4	3695.9	3697.4	3703.4	3707.9	3709.4	3698.9	3689.9	3674.9	3677.9	3671.9
15°	3784.4	3793.4	3791.9	3800.9	3812.9	3815.9	3805.4	3790.4	3776.9	3769.4	3764.9
17.5°	3898.5	3904.5	3901.5	3910.5	3925.5	3933.0	3924.0	3904.5	3891.0	3874.4	3865.4
20°	4033.5	4044.0	4047.0	4047.0	4060.5	4068.0	4054.5	4048.5	4027.5	4015.5	4008.0
22.5°	4186.6	4191.1	4200.1	4209.1	4222.6	4219.6	4215.1	4206.1	4186.6	4176.1	4164.1
25°	4359.1	4363.6	4386.1	4405.6	4410.1	4407.1	4401.1	4396.6	4378.6	4354.6	4345.6
27.5°	4560.2	4569.2	4599.2	4617.2	4617.2	4618.7	4606.7	4621.7	4582.7	4554.2	4551.2
30°	4812.3	4818.3	4843.8	4861.8	4852.8	4845.3	4842.3	4857.3	4815.3	4764.3	4752.3
32.5°	5061.4	5082.4	5104.9	5143.9	5112.4	5098.9	5095.9	5106.4	5058.4	5001.4	4984.9
35°	5328.5	5343.5	5385.5	5418.5	5390.0	5358.5	5372.0	5405.0	5348.0	5271.5	5268.5
37.5°	5624.1	5637.6	5691.6	5726.1	5705.1	5651.1	5673.6	5712.6	5655.6	5561.1	5541.6
40°	5931.7	5960.2	6027.7	6063.8	6029.2	5957.2	5999.2	6041.3	5990.2	5880.7	5837.2
42.5°	6276.8	6321.9	6419.4	6437.4	6371.4	6273.8	6347.4	6414.9	6378.9	6252.8	6236.3
45°	6680.5	6707.5	6827.5	6866.6	6775.0	6653.5	6745.0	6868.1	6841.1	6695.5	6664.0
47.5°	7132.2	7157.7	7282.2	7340.7	7225.2	7061.6	7226.7	7387.3	7370.8	7214.7	7199.7
50°	7666.4	7672.4	7844.9	7911.0	7795.4	7654.4	7801.4	8001.0	7935.0	7735.4	7732.4
52.5°	8251.6	8259.1	8476.7	8604.2	8539.7	8380.6	8554.7	8676.2	8508.2	8247.1	8227.6
55°	8758.8	8796.3	9093.4	9432.5	9521.1	9405.5	9458.0	9401.0	8986.9	8620.7	8563.7
57.5°	8965.8	9039.4	9491.0	10124.3	10700.5	10871.6	10466.4	9923.2	9177.4	8659.7	8604.2
60°	8460.2	8539.7	9240.4	10442.4	11912.9	12655.7	11516.8	10011.7	8743.8	8016.0	7929.0
62.5°	6775.0	6797.5	7828.4	9693.6	12619.7	14543.4	11959.5	9257.0	7481.8	6492.9	6458.4
64°	4875.3	5106.4	6198.8	8499.2	12310.6	15262.2	11704.4	8199.1	6077.3	5076.4	4914.3
65°	3646.4	3709.4	4996.9	7258.2	11765.9	15208.2	11209.2	7187.7	5032.9	3884.9	3704.9
67.5°	1377.5	1385.0	1844.2	3617.8	8376.1	13084.9	8554.7	3910.5	2120.3	1533.6	1478.1
70°	571.7	582.2	676.8	1217.0	3599.8	8401.6	4125.0	1410.5	775.8	628.7	619.7
72.5°	418.7	424.7	453.2	540.2	1107.4	3449.8	1356.5	598.7	454.7	406.7	402.2
75°	328.6	331.6	352.6	397.6	516.2	955.9	564.2	411.2	346.6	312.1	309.1
77.5°	250.6	258.1	273.1	303.1	346.6	453.2	373.6	307.6	267.1	238.6	234.1
80°	172.6	181.6	210.1	222.1	232.6	294.1	255.1	232.6	208.6	174.1	163.6
82.5°	106.5	112.5	141.1	151.6	147.1	165.1	163.6	166.6	148.6	108.0	100.5
85°	55.5	58.5	76.5	79.5	73.5	67.5	84.0	97.5	91.5	61.5	60.0
87.5°	12.0	13.5	16.5	15.0	16.5	16.5	21.0	31.5	33.0	21.0	19.5
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)