

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: P533923

Luminaire Tested: **GALN-SA9B-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24506 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

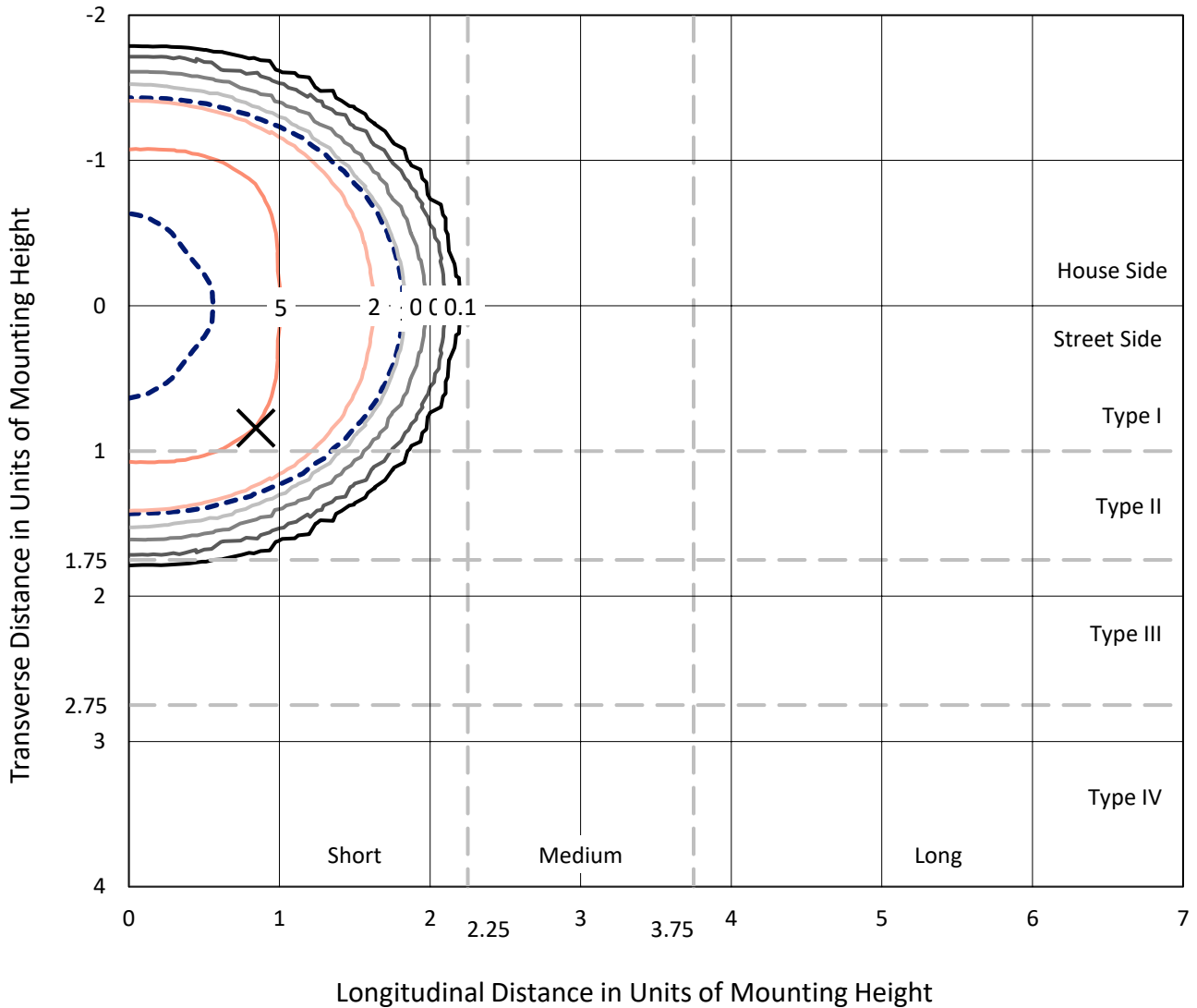
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

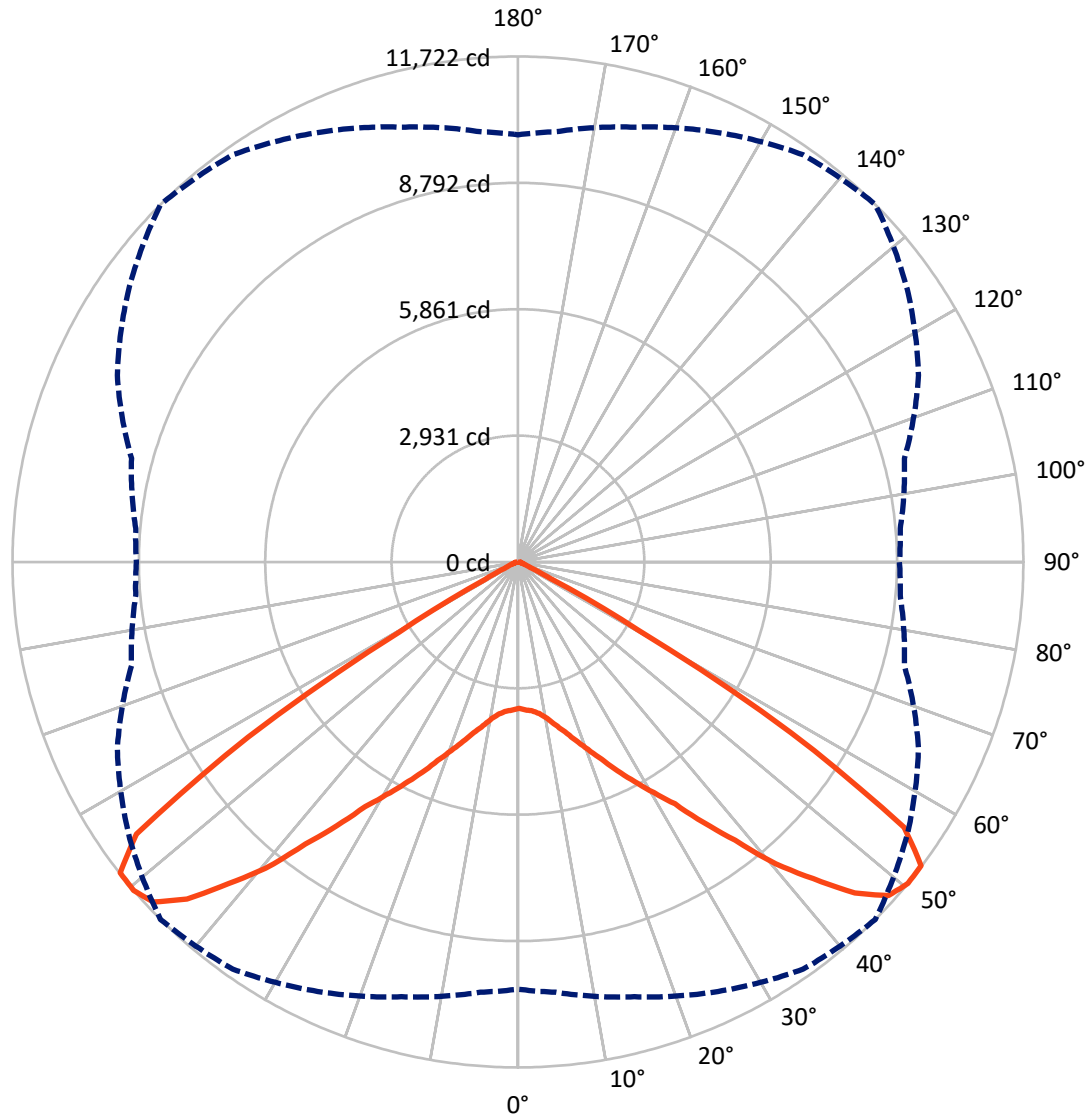
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

REPORT NUMBER: P533923
CATALOG NUMBER: GALN-SA9B-827-U-RW-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12253.0	0.0	12253.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12253.0	0.0	12253.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24506.0	0.0	24506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	1.4
10°-20°	1164.9	4.8
20°-30°	2379.3	9.7
30°-40°	4537.2	18.5
40°-50°	7645.9	31.2
50°-60°	7291.7	29.8
60°-70°	1017.9	4.2
70°-80°	97.3	0.4
80°-90°	33.6	0.1
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°	24506.0	100.0
0°-180°	24506.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533923

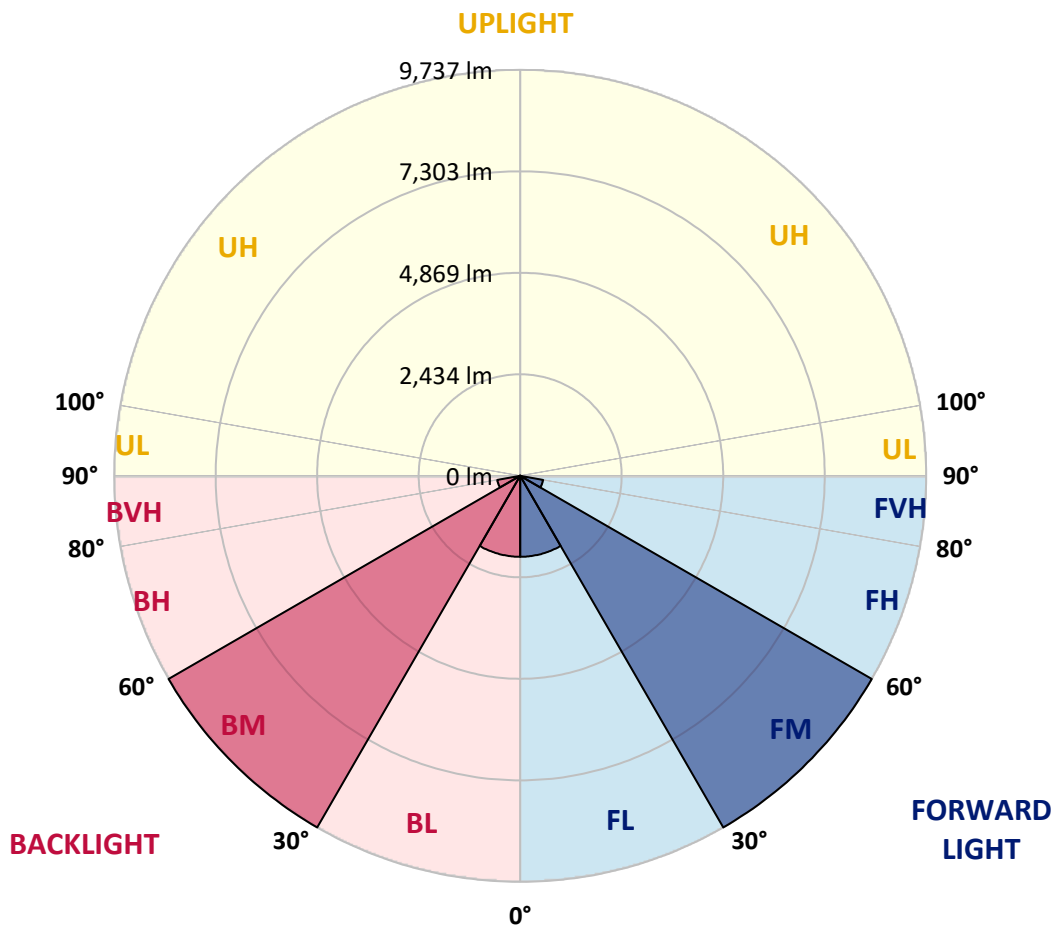
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1941.1	7.9			
FM (30°-60°)	9737.5	39.7			
FH (60°-80°)	557.6	2.3			G0/660
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1941.1	7.9	B3/2500		
BM (30°-60°)	9737.5	39.7	B5		
BH (60°-80°)	557.6	2.3	B2/1000		G0/660
BVH (80°-90°)	16.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3397.5	3397.5	3397.5	3397.5	3397.5	3397.5	3397.5	3397.5	3397.5	3397.5	3397.5
2.5°	3385.1	3385.1	3381.0	3414.0	3397.5	3434.6	3430.5	3442.8	3455.2	3451.1	3484.1
5°	3356.3	3352.1	3352.1	3389.2	3426.3	3467.6	3504.7	3529.4	3570.7	3570.7	3611.9
7.5°	3385.1	3364.5	3393.4	3409.9	3480.0	3550.0	3611.9	3661.4	3756.2	3789.2	3776.8
10°	3393.4	3418.1	3438.7	3488.2	3574.8	3682.0	3735.6	3859.3	3966.5	4040.7	4057.2
12.5°	3447.0	3484.1	3541.8	3661.4	3739.7	3879.9	3954.1	4073.7	4222.1	4304.6	4362.3
15°	3550.0	3562.4	3636.6	3789.2	3958.2	4086.1	4201.5	4288.1	4432.4	4527.2	4531.4
17.5°	3682.0	3735.6	3838.7	3983.0	4160.3	4349.9	4440.6	4535.5	4589.1	4716.9	4745.8
20°	3945.9	3954.1	4053.1	4242.7	4465.4	4638.6	4704.5	4754.0	4733.4	4865.3	4890.1
22.5°	4193.3	4201.5	4325.2	4580.8	4820.0	4968.4	4997.3	4968.4	4906.6	5001.4	5009.6
25°	4444.8	4519.0	4609.7	4865.3	5162.2	5360.1	5364.2	5285.9	5158.1	5174.6	5215.8
27.5°	4836.5	4890.1	4984.9	5219.9	5545.7	5768.3	5731.2	5636.4	5471.4	5483.8	5471.4
30°	5294.1	5343.6	5422.0	5723.0	5962.1	6205.4	6259.0	6168.3	5920.9	5867.3	5929.1
32.5°	5846.6	5916.7	6061.1	6337.3	6539.3	6687.8	6724.9	6691.9	6461.0	6440.4	6481.6
35°	6518.7	6613.6	6745.5	6988.8	7153.7	7421.7	7421.7	7310.4	7100.1	7124.8	7120.7
37.5°	7227.9	7368.1	7574.3	7821.6	8044.3	8188.6	8143.2	8048.4	7838.1	7784.5	7838.1
40°	8118.5	8188.6	8448.4	8770.0	9042.1	9207.0	9013.2	8807.1	8304.1	8382.4	8526.7
42.5°	8930.8	9042.1	9240.0	9594.6	9903.8	10039.9	9809.0	9400.8	8794.7	8732.9	8840.1
45°	9623.5	9743.0	10002.8	10509.9	10835.7	10955.2	10444.0	9784.3	9091.6	8934.9	8980.3
47.5°	10085.3	10147.1	10509.9	10992.4	11289.2	11561.4	10827.4	10048.2	9231.8	8934.9	8918.4
50°	9908.0	10015.2	10439.9	10988.2	11528.4	11722.2	11021.2	10250.2	9277.1	8897.8	8848.3
52.5°	8798.8	8984.4	9458.5	10196.6	11013.0	11705.7	11289.2	10184.2	9260.6	8934.9	9009.1
55°	6122.9	6127.0	6704.3	7792.8	9235.9	10868.7	10897.5	10258.4	9367.8	9165.8	9169.9
57.5°	2461.5	2585.2	3026.4	4119.0	5450.8	7462.9	8873.0	9516.3	9380.2	9330.7	9458.5
60°	622.6	626.7	762.8	1162.7	1917.3	3199.6	4646.8	6287.8	7240.3	7566.0	7611.4
62.5°	317.5	321.6	354.6	412.3	523.6	857.6	1525.6	2420.3	3442.8	3962.4	4098.4
65°	259.8	259.8	280.4	309.2	313.4	329.9	395.8	564.9	820.5	931.8	944.2
67.5°	197.9	197.9	214.4	230.9	239.1	235.0	226.8	235.0	284.5	272.1	263.9
70°	123.7	127.8	136.1	152.6	160.8	164.9	169.0	177.3	202.0	210.3	202.0
72.5°	74.2	74.2	78.3	90.7	103.1	111.3	123.7	131.9	144.3	164.9	160.8
75°	33.0	33.0	41.2	53.6	66.0	78.3	90.7	103.1	111.3	123.7	127.8
77.5°	8.2	12.4	20.6	37.1	49.5	66.0	82.5	94.8	103.1	103.1	99.0
80°	4.1	4.1	16.5	28.9	53.6	70.1	90.7	99.0	111.3	103.1	90.7
82.5°	4.1	4.1	16.5	28.9	49.5	70.1	94.8	107.2	115.4	103.1	86.6
85°	0.0	4.1	12.4	24.7	41.2	49.5	41.2	28.9	16.5	16.5	12.4
87.5°	0.0	0.0	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)