

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: P532597

Luminaire Tested: **GALN-SA8A-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532597
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-SA8A-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 19958 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

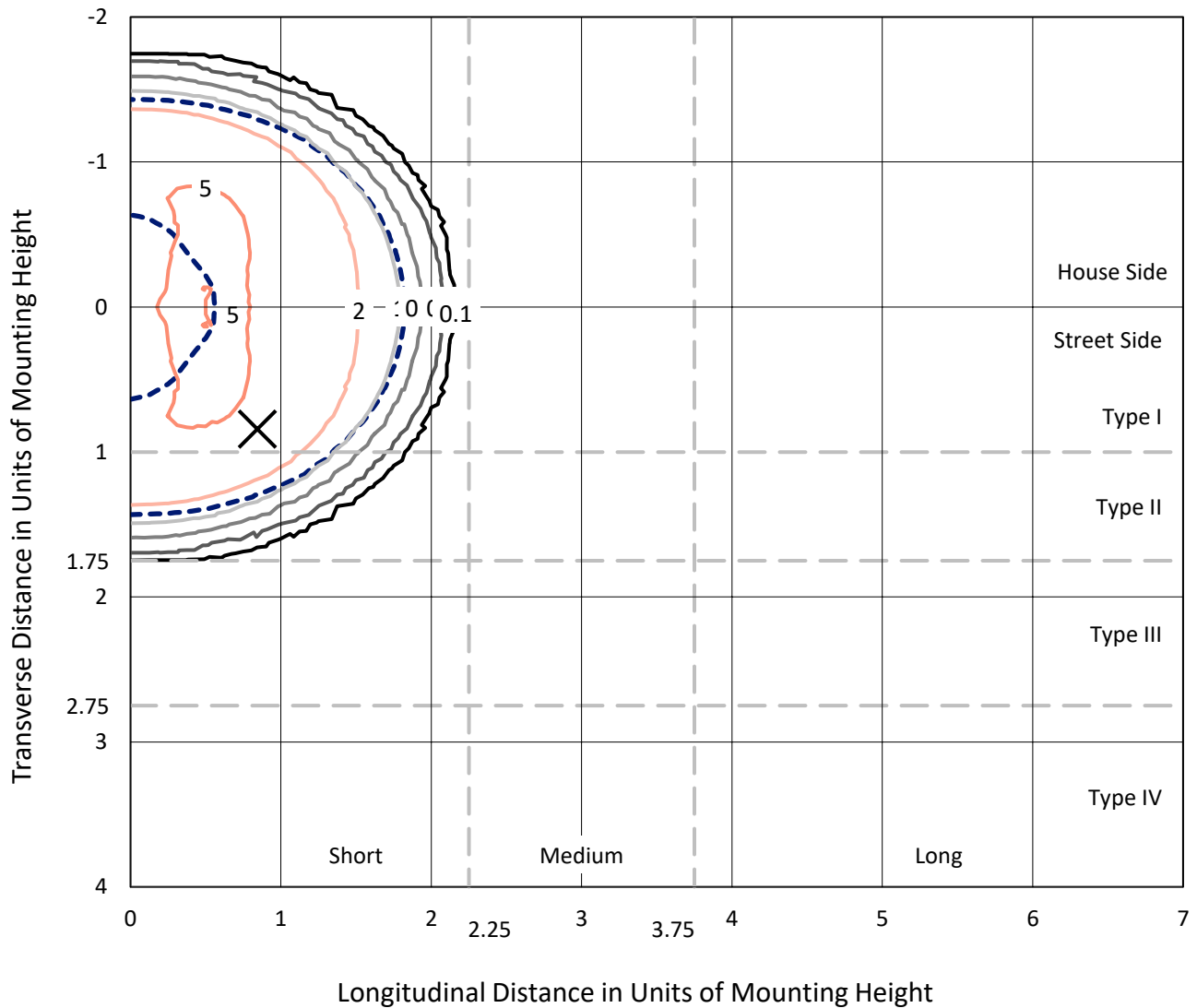
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

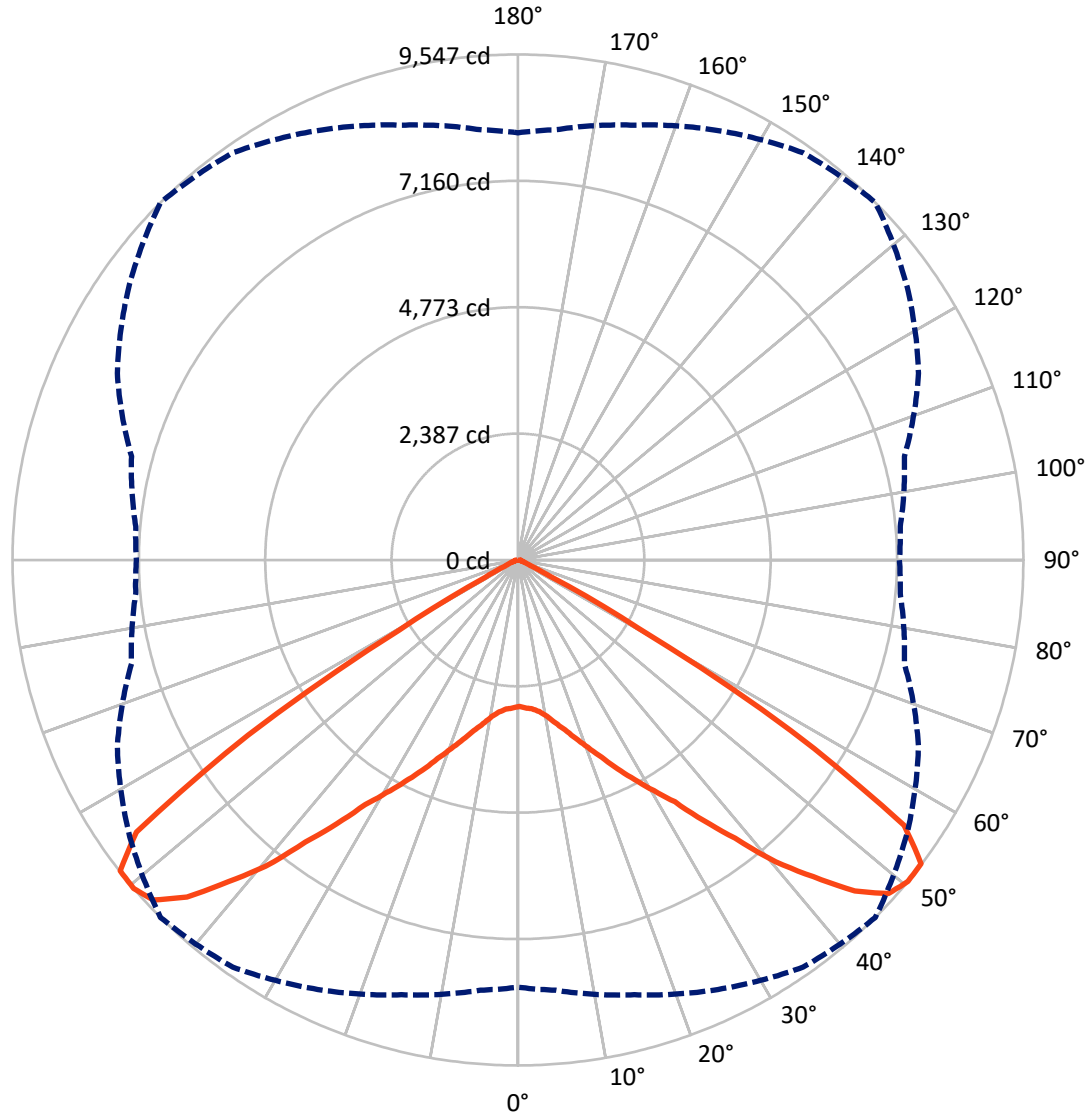
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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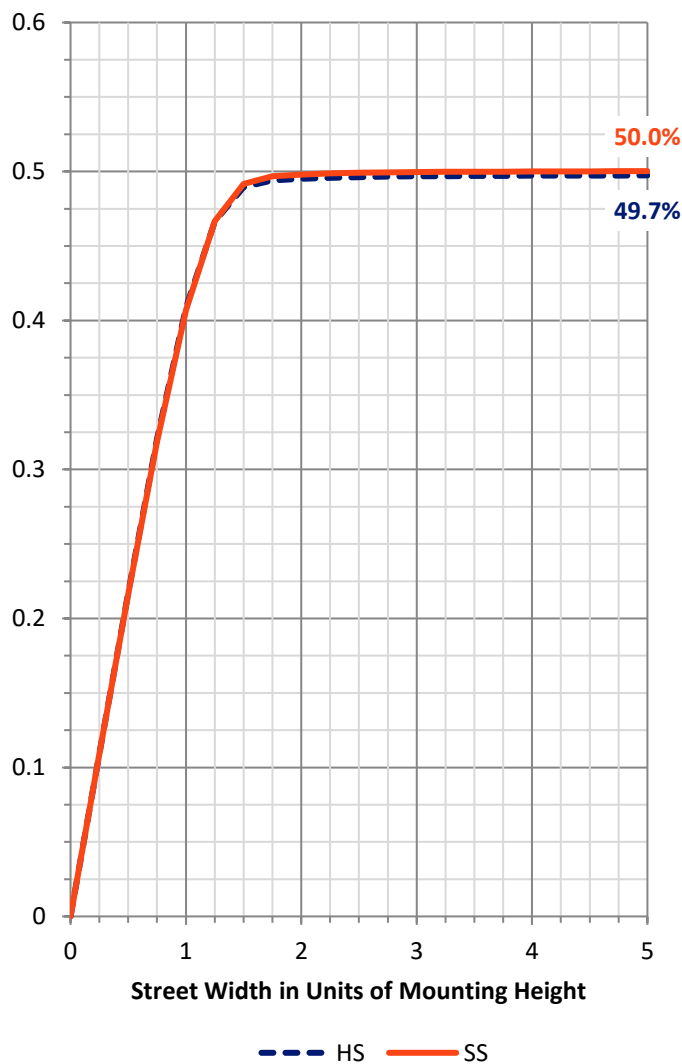
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9979.0	0.0	9979.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9979.0	0.0	9979.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19958.0	0.0	19958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.4
10°-20°	948.7	4.8
20°-30°	1937.7	9.7
30°-40°	3695.2	18.5
40°-50°	6226.9	31.2
50°-60°	5938.5	29.8
60°-70°	829.0	4.2
70°-80°	79.3	0.4
80°-90°	27.4	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°	19958.0	100.0
0°-180°	19958.0	100.0

Coefficient of Utilization



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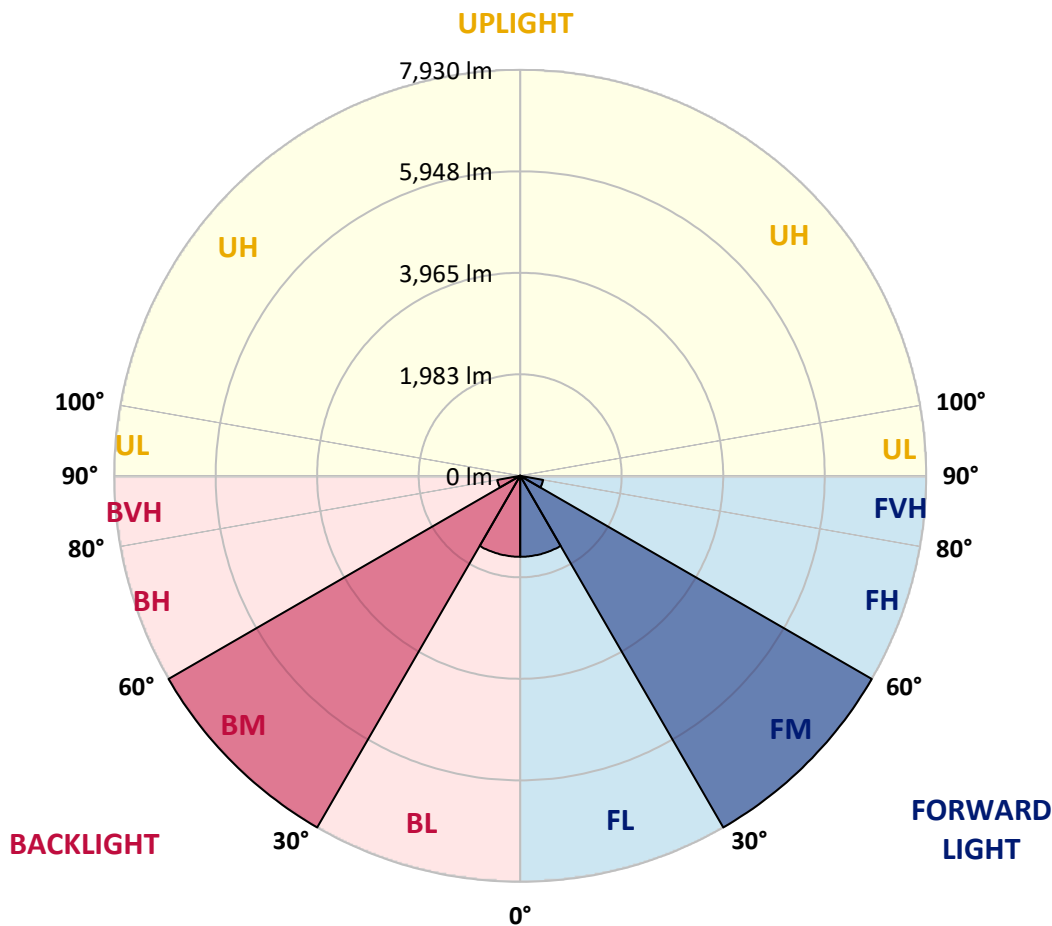
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.9	7.9			
FM (30°-60°)	7930.3	39.7			
FH (60°-80°)	454.1	2.3			G0/660
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	1580.9	7.9	B3/2500		
BM (30°-60°)	7930.3	39.7	B4/8500		
BH (60°-80°)	454.1	2.3	B1/500		G0/660
BVH (80°-90°)	13.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2756.9	2756.9	2753.5	2780.4	2767.0	2797.2	2793.8	2803.9	2814.0	2810.6	2837.5
5°	2733.4	2730.0	2730.0	2760.2	2790.5	2824.0	2854.3	2874.4	2908.0	2908.0	2941.6
7.5°	2756.9	2740.1	2763.6	2777.0	2834.1	2891.2	2941.6	2981.9	3059.1	3086.0	3075.9
10°	2763.6	2783.7	2800.5	2840.8	2911.3	2998.7	3042.3	3143.0	3230.4	3290.8	3304.2
12.5°	2807.3	2837.5	2884.5	2981.9	3045.7	3159.8	3220.3	3317.7	3438.5	3505.7	3552.7
15°	2891.2	2901.3	2961.7	3086.0	3223.6	3327.7	3421.8	3492.3	3609.8	3687.0	3690.4
17.5°	2998.7	3042.3	3126.3	3243.8	3388.2	3542.6	3616.5	3693.8	3737.4	3841.5	3865.0
20°	3213.6	3220.3	3300.9	3455.3	3636.7	3777.7	3831.4	3871.7	3854.9	3962.4	3982.5
22.5°	3415.0	3421.8	3522.5	3730.7	3925.5	4046.3	4069.8	4046.3	3996.0	4073.2	4079.9
25°	3619.9	3680.3	3754.2	3962.4	4204.2	4365.3	4368.7	4304.9	4200.8	4214.2	4247.8
27.5°	3938.9	3982.5	4059.8	4251.2	4516.5	4697.8	4667.6	4590.3	4456.0	4466.1	4456.0
30°	4311.6	4351.9	4415.7	4660.8	4855.6	5053.7	5097.4	5023.5	4822.0	4778.4	4828.7
32.5°	4761.6	4818.7	4936.2	5161.2	5325.7	5446.6	5476.8	5450.0	5261.9	5245.1	5278.7
35°	5308.9	5386.2	5493.6	5691.7	5826.1	6044.3	6044.3	5953.7	5782.4	5802.6	5799.2
37.5°	5886.5	6000.7	6168.6	6370.0	6551.4	6668.9	6632.0	6554.7	6383.5	6339.8	6383.5
40°	6611.8	6668.9	6880.5	7142.4	7364.0	7498.3	7340.5	7172.6	6762.9	6826.7	6944.3
42.5°	7273.3	7364.0	7525.2	7814.0	8065.8	8176.6	7988.6	7656.1	7162.5	7112.2	7199.5
45°	7837.5	7934.9	8146.4	8559.4	8824.7	8922.1	8505.7	7968.4	7404.3	7276.7	7313.6
47.5°	8213.6	8263.9	8559.4	8952.3	9194.1	9415.7	8818.0	8183.3	7518.5	7276.7	7263.3
50°	8069.2	8156.5	8502.3	8949.0	9388.8	9546.7	8975.8	8347.9	7555.4	7246.5	7206.2
52.5°	7165.9	7317.0	7703.2	8304.2	8969.1	9533.2	9194.1	8294.2	7542.0	7276.7	7337.1
55°	4986.6	4989.9	5460.0	6346.5	7521.8	8851.6	8875.1	8354.6	7629.3	7464.7	7468.1
57.5°	2004.7	2105.4	2464.7	3354.6	4439.2	6077.9	7226.3	7750.2	7639.4	7599.1	7703.2
60°	507.1	510.4	621.2	946.9	1561.5	2605.8	3784.4	5120.9	5896.6	6161.9	6198.8
62.5°	258.6	261.9	288.8	335.8	426.5	698.5	1242.4	1971.1	2803.9	3227.0	3337.8
65°	211.6	211.6	228.3	251.8	255.2	268.6	322.4	460.0	668.2	758.9	769.0
67.5°	161.2	161.2	174.6	188.0	194.8	191.4	184.7	191.4	231.7	221.6	214.9
70°	100.7	104.1	110.8	124.2	131.0	134.3	137.7	144.4	164.5	171.3	164.5
72.5°	60.4	60.4	63.8	73.9	83.9	90.7	100.7	107.5	117.5	134.3	131.0
75°	26.9	26.9	33.6	43.7	53.7	63.8	73.9	83.9	90.7	100.7	104.1
77.5°	6.7	10.1	16.8	30.2	40.3	53.7	67.2	77.2	83.9	83.9	80.6
80°	3.4	3.4	13.4	23.5	43.7	57.1	73.9	80.6	90.7	83.9	73.9
82.5°	3.4	3.4	13.4	23.5	40.3	57.1	77.2	87.3	94.0	83.9	70.5
85°	0.0	3.4	10.1	20.1	33.6	40.3	33.6	23.5	13.4	13.4	10.1
87.5°	0.0	0.0	3.4	3.4	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)