

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: P532590

Luminaire Tested: **GALN-SA8A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27259 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

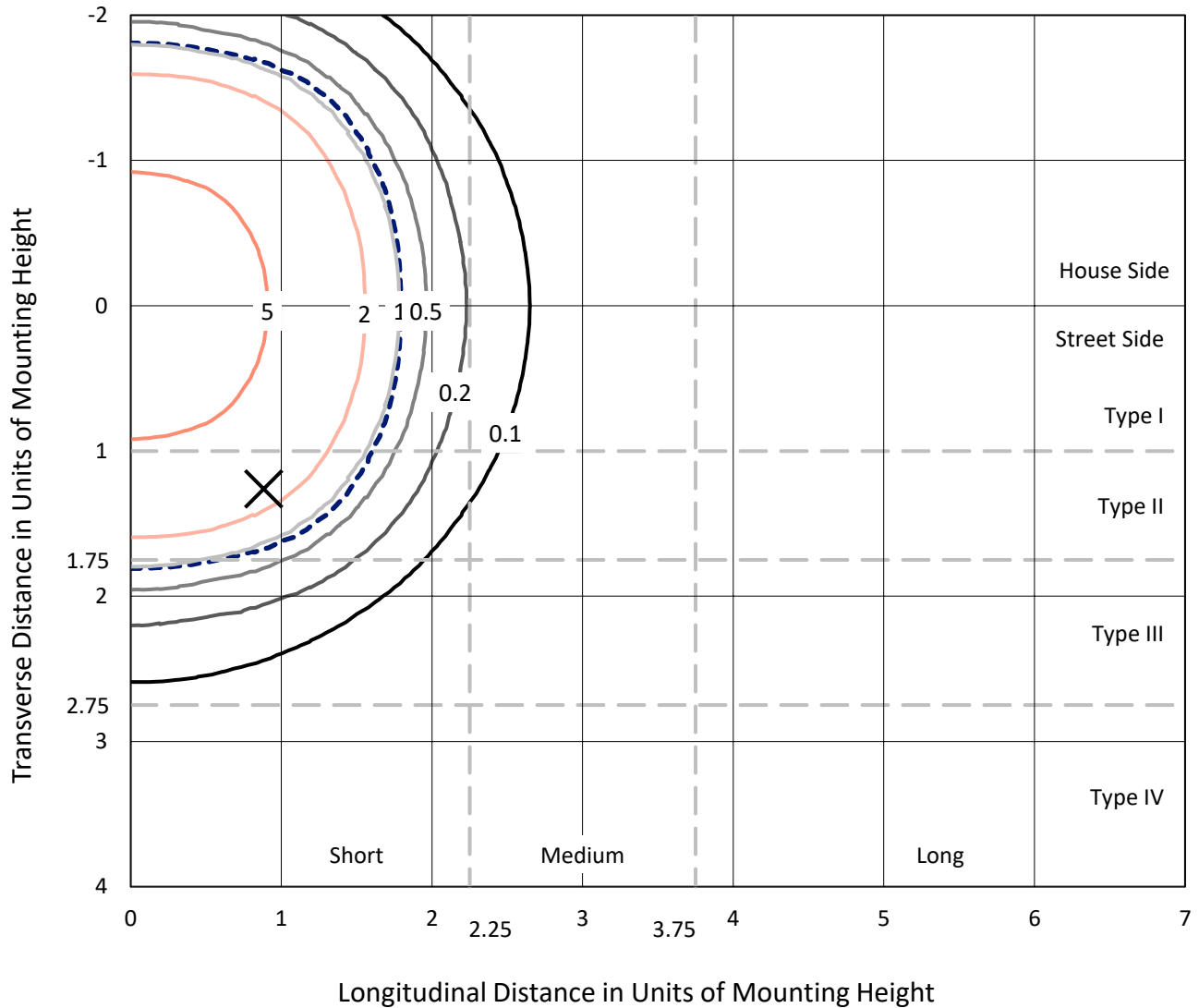
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

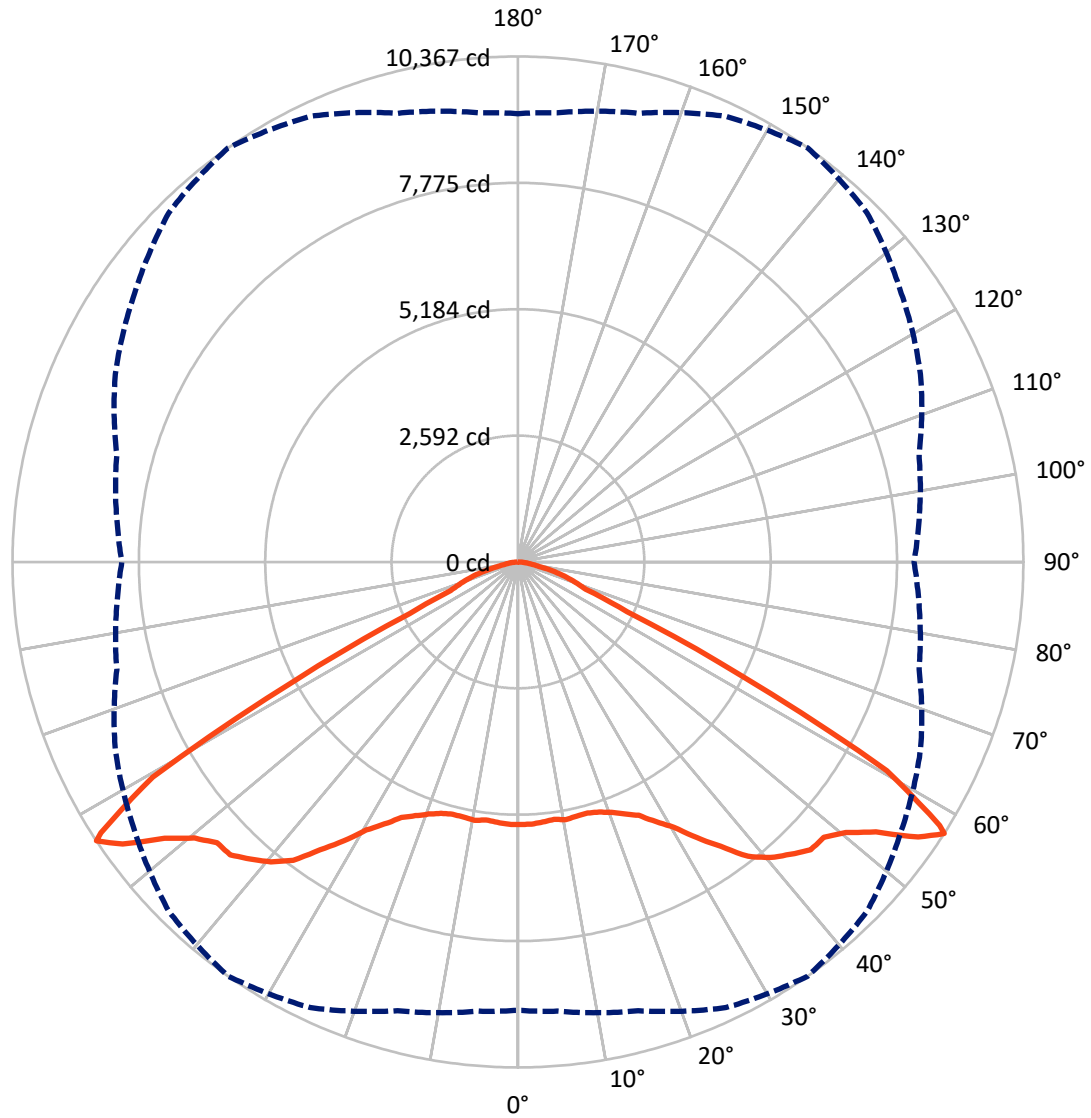
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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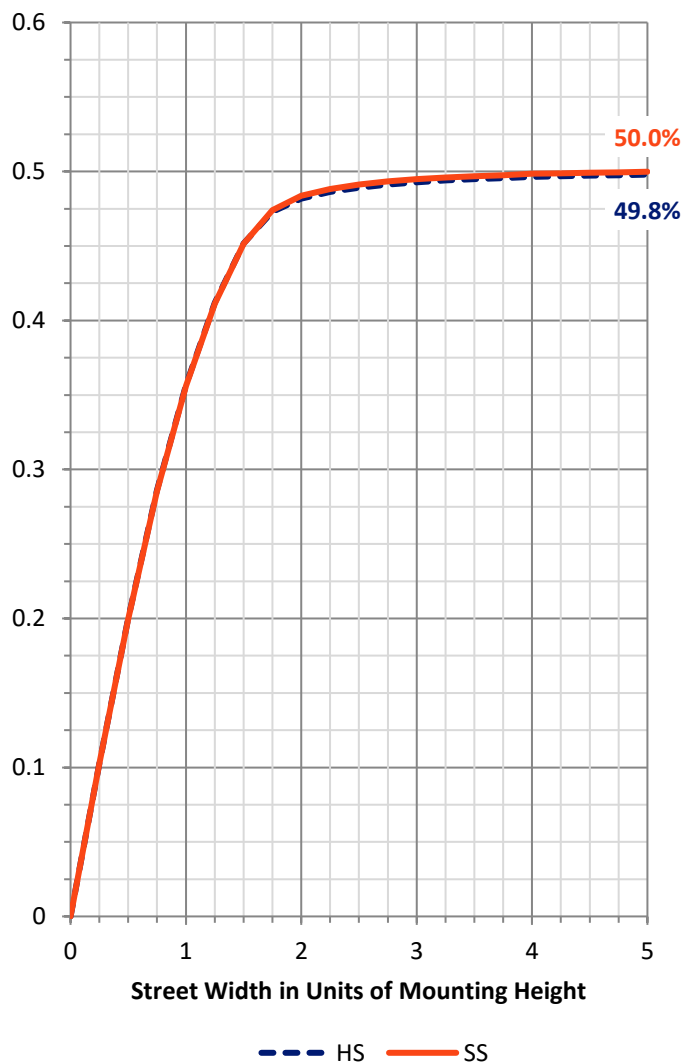
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13629.5	0.0	13629.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13629.5	0.0	13629.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27259.0	0.0	27259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	1.9
10°-20°	1511.6	5.5
20°-30°	2639.9	9.7
30°-40°	4325.6	15.9
40°-50°	6342.4	23.3
50°-60°	7988.8	29.3
60°-70°	3004.5	11.0
70°-80°	798.9	2.9
80°-90°	137.0	0.5
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°	27259.0	100.0
0°-180°	27259.0	100.0

Coefficient of Utilization

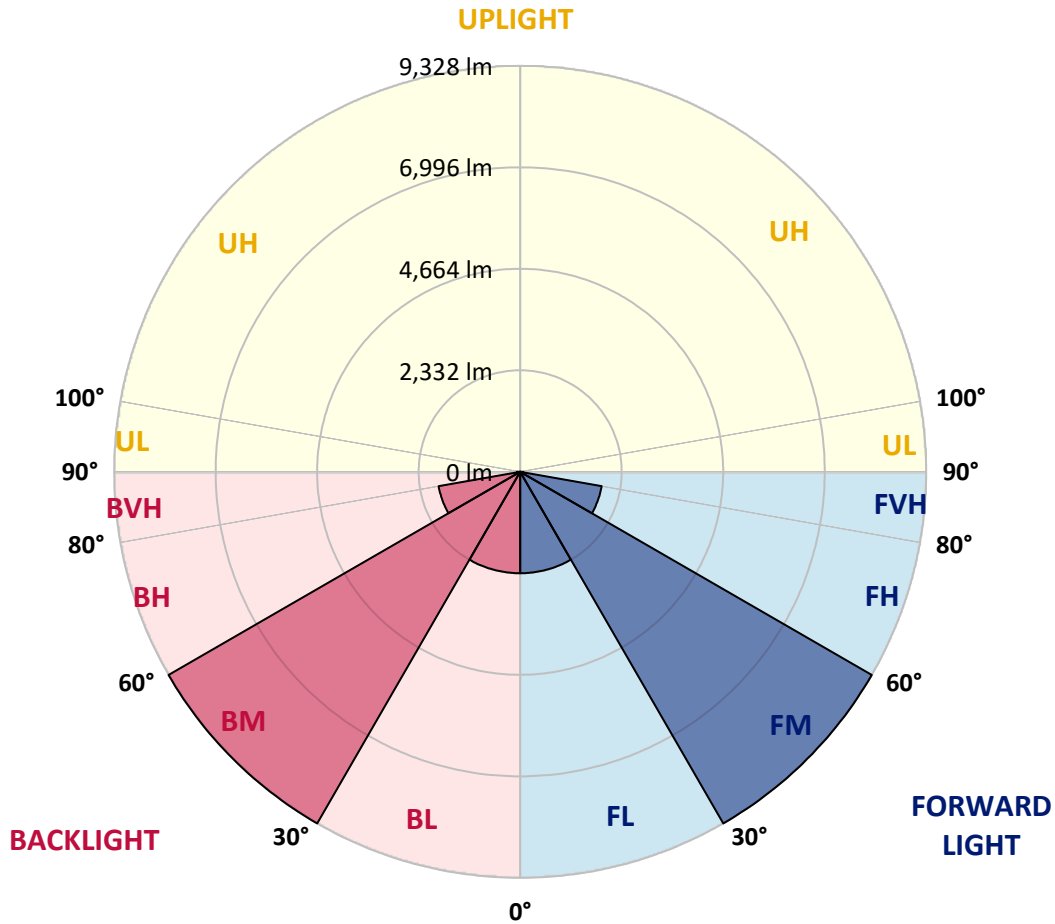


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.9	8.6			
FM (30°-60°)	9328.4	34.2			
FH (60°-80°)	1901.7	7.0			G2/5000
FVH (80°-90°)	68.5	0.3			G1/100
BL (0°-30°)	2330.9	8.6	B3/2500		
BM (30°-60°)	9328.4	34.2	B5		
BH (60°-80°)	1901.7	7.0	B3/2500		G2/5000
BVH (80°-90°)	68.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5383.5	5383.5	5383.5	5383.5	5383.5	5383.5	5383.5	5383.5	5383.5	5383.5	5383.5
2.5°	5356.6	5410.3	5386.8	5373.4	5383.5	5366.7	5339.8	5370.0	5363.3	5336.4	5326.4
5°	5343.2	5383.5	5356.6	5383.5	5356.6	5403.6	5390.2	5339.8	5400.2	5343.2	5363.3
7.5°	5333.1	5346.5	5353.2	5339.8	5329.7	5386.8	5356.6	5333.1	5299.5	5289.4	5306.2
10°	5309.6	5343.2	5292.8	5359.9	5373.4	5333.1	5333.1	5289.4	5262.6	5245.8	5302.9
12.5°	5370.0	5312.9	5306.2	5339.8	5349.9	5366.7	5319.6	5296.1	5245.8	5252.5	5242.4
15°	5299.5	5323.0	5326.4	5333.1	5343.2	5383.5	5339.8	5289.4	5269.3	5198.7	5205.5
17.5°	5326.4	5302.9	5326.4	5403.6	5390.2	5420.4	5373.4	5296.1	5249.1	5208.8	5262.6
20°	5373.4	5363.3	5373.4	5467.4	5484.2	5511.1	5470.8	5400.2	5309.6	5262.6	5289.4
22.5°	5423.8	5417.0	5423.8	5514.4	5611.8	5645.4	5605.1	5440.5	5393.5	5306.2	5276.0
25°	5514.4	5521.1	5591.7	5692.4	5756.2	5820.0	5746.2	5628.6	5477.5	5423.8	5359.9
27.5°	5715.9	5732.7	5773.0	5920.8	6031.6	6088.7	5984.6	5823.4	5729.4	5618.5	5601.7
30°	5964.4	5964.4	6035.0	6162.6	6313.7	6401.0	6273.4	6082.0	5967.8	5907.4	5870.4
32.5°	6293.6	6256.6	6283.5	6508.5	6743.6	6817.5	6646.2	6411.1	6229.8	6149.2	6122.3
35°	6575.7	6599.2	6659.6	6901.4	7163.4	7334.7	7066.0	6760.4	6575.7	6501.8	6488.4
37.5°	6941.7	6982.0	7012.3	7344.7	7660.4	7724.2	7465.6	7220.5	6995.5	6935.0	6901.4
40°	7458.9	7432.1	7442.1	7687.3	7972.7	8013.0	7757.8	7583.2	7398.5	7361.5	7361.5
42.5°	7885.4	7855.2	7888.8	7979.5	8197.8	8167.5	8026.5	7898.9	7821.6	7781.3	7821.6
45°	8144.0	8137.3	8197.8	8264.9	8419.4	8318.7	8207.8	8228.0	8154.1	8086.9	8083.6
47.5°	8426.1	8382.5	8456.4	8557.1	8439.6	8392.5	8385.8	8429.5	8406.0	8288.4	8251.5
50°	8563.8	8547.0	8664.6	8782.1	8718.3	8610.8	8634.3	8704.9	8402.6	8244.8	8154.1
52.5°	8933.2	8936.6	9161.6	9225.4	9198.5	9040.7	9091.1	8899.7	8543.7	8322.0	8332.1
55°	9514.2	9490.7	9742.6	9930.7	9960.9	9759.4	9517.6	9248.9	8802.3	8577.3	8510.1
57°	9195.2	9248.9	9527.7	10085.2	10367.3	10128.8	9601.6	9111.2	8516.8	8244.8	8123.9
57.5°	8768.7	8856.0	9339.6	9900.4	10196.0	10175.8	9497.4	8856.0	8325.4	7902.2	7912.3
60°	6424.5	6441.3	6877.9	7767.9	8691.4	8711.6	7885.4	7035.8	6444.7	5984.6	6048.4
62.5°	3388.6	3465.8	3640.5	4355.8	5155.1	5349.9	4849.5	4412.9	3902.4	3553.1	3586.7
65°	1793.4	1783.3	1867.2	2068.7	2461.7	2562.4	2495.3	2149.4	1971.4	1914.3	1917.6
67.5°	1457.5	1474.3	1464.2	1474.3	1501.2	1544.8	1534.8	1548.2	1558.3	1575.1	1571.7
70°	1235.9	1235.9	1242.6	1246.0	1246.0	1266.1	1289.6	1333.3	1336.6	1353.4	1360.1
72.5°	973.9	967.2	977.3	1000.8	1004.1	1020.9	1054.5	1081.4	1091.5	1091.5	1071.3
75°	661.6	668.3	681.7	701.9	722.0	752.3	779.1	795.9	802.6	792.6	782.5
77.5°	372.8	379.5	389.6	419.8	443.3	470.2	500.4	517.2	534.0	537.3	517.2
80°	221.7	221.7	238.4	262.0	288.8	315.7	342.6	362.7	369.4	369.4	359.3
82.5°	134.3	137.7	151.1	174.6	198.1	214.9	238.4	255.2	268.7	265.3	258.6
85°	70.5	70.5	84.0	104.1	120.9	137.7	137.7	127.6	120.9	104.1	97.4
87.5°	23.5	20.2	26.9	26.9	23.5	26.9	26.9	30.2	30.2	30.2	30.2
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)