

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: P534384

Luminaire Tested: **GALN-SA9D-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534384  
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-SA9D-827-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA 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: 45505 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

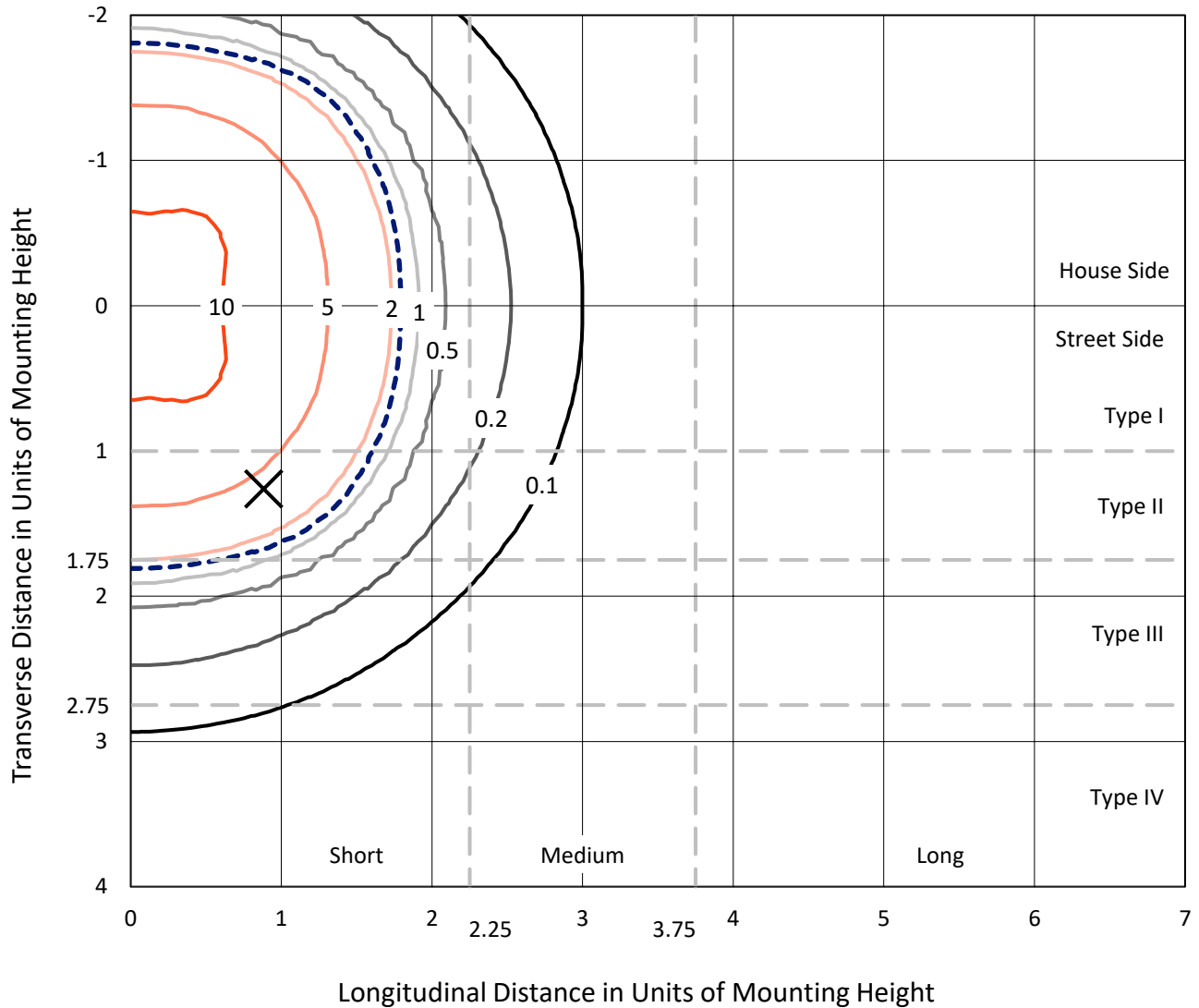
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

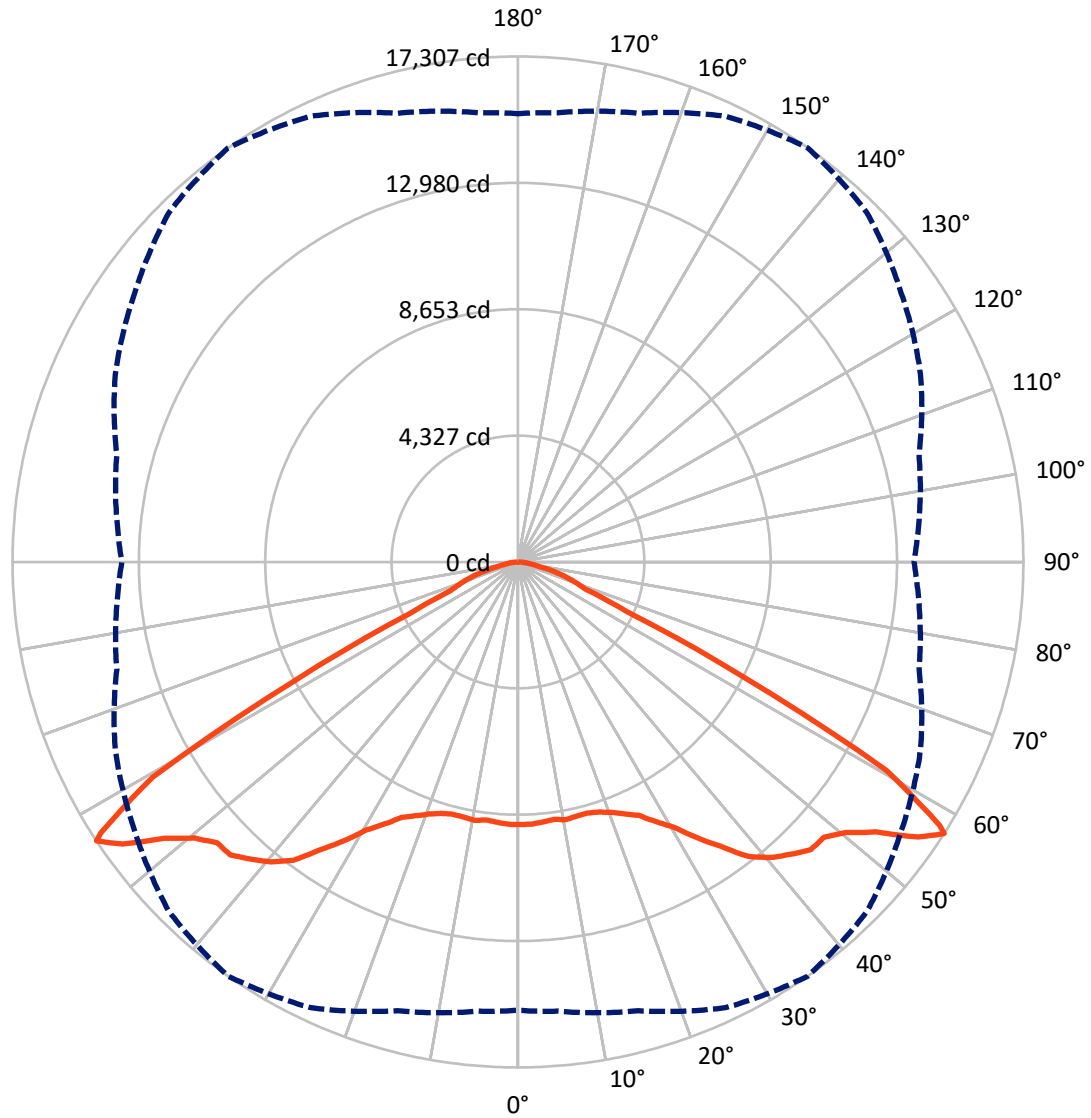
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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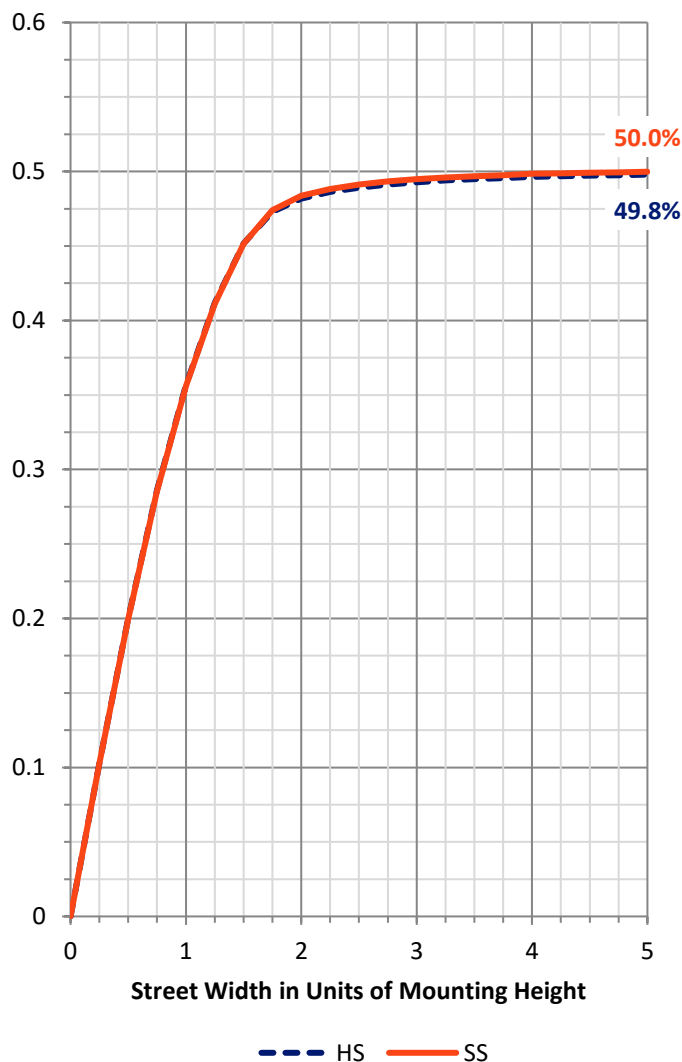
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22752.5	0.0	22752.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22752.5	0.0	22752.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45505.0	0.0	45505.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.0	1.9
10°-20°	2523.4	5.5
20°-30°	4407.0	9.7
30°-40°	7221.0	15.9
40°-50°	10587.7	23.3
50°-60°	13336.1	29.3
60°-70°	5015.6	11.0
70°-80°	1333.6	2.9
80°-90°	228.7	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°	45505.0	100.0
0°-180°	45505.0	100.0

**Coefficient of Utilization**



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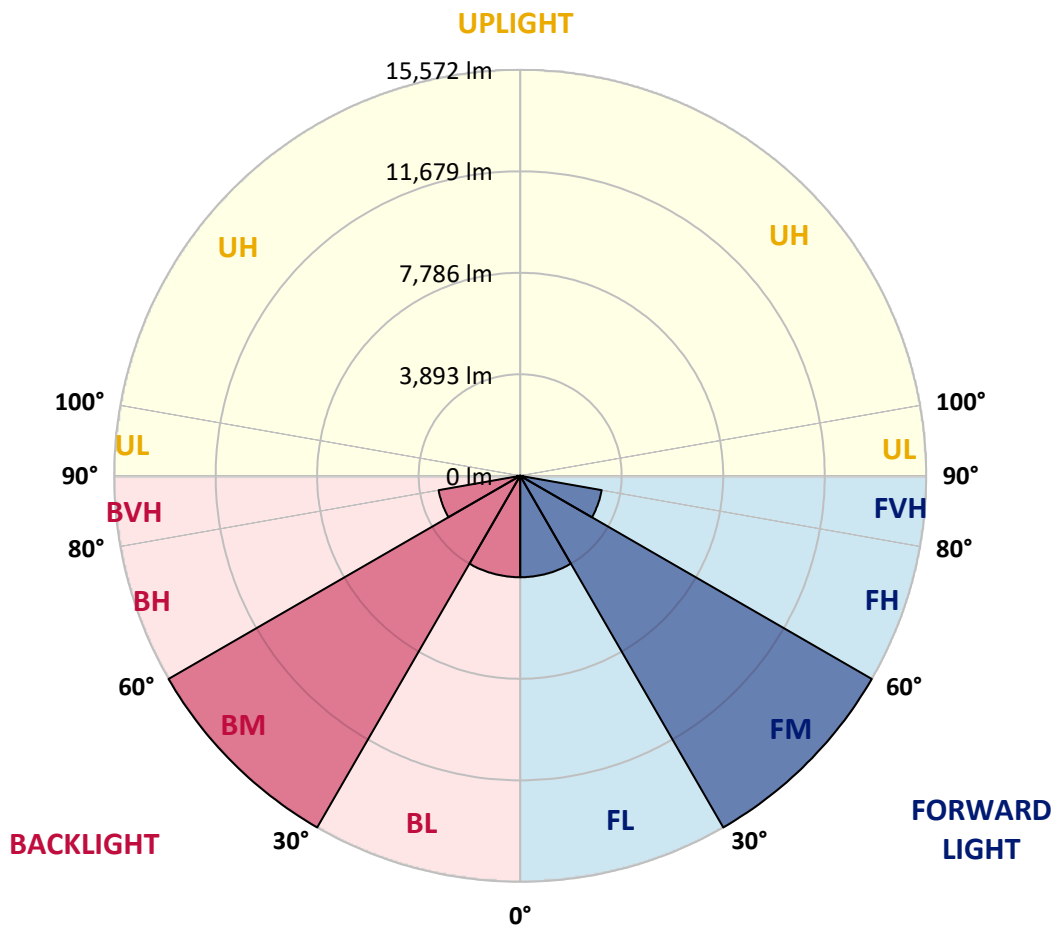
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3891.2	8.6			
FM (30°-60°)	15572.4	34.2			
FH (60°-80°)	3174.6	7.0			G2/5000
FVH (80°-90°)	114.3	0.3			G2/225
BL (0°-30°)	3891.2	8.6	B4/5000		
BM (30°-60°)	15572.4	34.2	B5		
BH (60°-80°)	3174.6	7.0	B4/5000		G2/5000
BVH (80°-90°)	114.3	0.3			G2/225
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°	8986.9	8986.9	8986.9	8986.9	8986.9	8986.9	8986.9	8986.9	8986.9	8986.9	8986.9
2.5°	8942.1	9031.8	8992.5	8970.1	8986.9	8958.9	8914.0	8964.5	8953.3	8908.4	8891.6
5°	8919.6	8986.9	8942.1	8986.9	8942.1	9020.5	8998.1	8914.0	9014.9	8919.6	8953.3
7.5°	8902.8	8925.2	8936.4	8914.0	8897.2	8992.5	8942.1	8902.8	8846.7	8829.9	8858.0
10°	8863.6	8919.6	8835.5	8947.7	8970.1	8902.8	8902.8	8829.9	8785.1	8757.0	8852.4
12.5°	8964.5	8869.2	8858.0	8914.0	8930.8	8958.9	8880.4	8841.1	8757.0	8768.3	8751.4
15°	8846.7	8886.0	8891.6	8902.8	8919.6	8986.9	8914.0	8829.9	8796.3	8678.6	8689.8
17.5°	8891.6	8852.4	8891.6	9020.5	8998.1	9048.6	8970.1	8841.1	8762.7	8695.4	8785.1
20°	8970.1	8953.3	8970.1	9127.1	9155.1	9199.9	9132.7	9014.9	8863.6	8785.1	8829.9
22.5°	9054.2	9043.0	9054.2	9205.5	9368.1	9424.2	9356.9	9082.2	9003.7	8858.0	8807.5
25°	9205.5	9216.8	9334.5	9502.7	9609.2	9715.7	9592.4	9396.2	9143.9	9054.2	8947.7
27.5°	9541.9	9570.0	9637.2	9883.9	10068.9	10164.2	9990.4	9721.3	9564.4	9379.3	9351.3
30°	9956.8	9956.8	10074.5	10287.6	10539.8	10685.6	10472.6	10153.0	9962.4	9861.5	9799.8
32.5°	10506.2	10444.5	10489.4	10865.0	11257.5	11380.8	11094.9	10702.4	10399.7	10265.1	10220.3
35°	10977.1	11016.4	11117.3	11521.0	11958.2	12244.2	11795.7	11285.5	10977.1	10853.8	10831.4
37.5°	11588.2	11655.5	11706.0	12261.0	12788.0	12894.5	12462.8	12053.5	11677.9	11577.0	11521.0
40°	12451.6	12406.7	12423.6	12832.8	13309.4	13376.6	12950.6	12659.0	12350.7	12289.0	12289.0
42.5°	13163.6	13113.1	13169.2	13320.6	13685.0	13634.5	13399.1	13186.0	13057.1	12989.8	13057.1
45°	13595.3	13584.1	13685.0	13797.1	14055.0	13886.8	13701.8	13735.4	13612.1	13500.0	13494.4
47.5°	14066.2	13993.3	14116.7	14284.9	14088.6	14010.1	13998.9	14071.8	14032.6	13836.4	13774.7
50°	14296.1	14268.0	14464.3	14660.5	14554.0	14374.6	14413.8	14531.5	14027.0	13763.5	13612.1
52.5°	14912.8	14918.4	15294.0	15400.5	15355.7	15092.2	15176.3	14856.7	14262.4	13892.4	13909.2
55°	15882.7	15843.4	16263.9	16577.8	16628.3	16291.9	15888.3	15439.8	14694.1	14318.5	14206.4
57°	15350.1	15439.8	15905.1	16835.7	17306.7	16908.6	16028.4	15209.9	14217.6	13763.5	13561.6
57.5°	14638.1	14783.8	15591.1	16527.4	17020.7	16987.1	15854.6	14783.8	13898.0	13191.6	13208.4
60°	10724.9	10752.9	11481.7	12967.4	14509.1	14542.7	13163.6	11745.2	10758.5	9990.4	10097.0
62.5°	5656.8	5785.7	6077.2	7271.4	8605.7	8930.8	8095.5	7366.7	6514.5	5931.5	5987.5
65°	2993.8	2976.9	3117.1	3453.5	4109.4	4277.6	4165.5	3588.0	3290.9	3195.6	3201.2
67.5°	2433.1	2461.2	2444.3	2461.2	2506.0	2578.9	2562.1	2584.5	2601.3	2629.4	2623.7
70°	2063.1	2063.1	2074.3	2079.9	2079.9	2113.6	2152.8	2225.7	2231.3	2259.3	2270.6
72.5°	1625.8	1614.6	1631.4	1670.7	1676.3	1704.3	1760.4	1805.2	1822.0	1822.0	1788.4
75°	1104.4	1115.7	1138.1	1171.7	1205.4	1255.8	1300.7	1328.7	1339.9	1323.1	1306.3
77.5°	622.3	633.5	650.3	700.8	740.0	784.9	835.3	863.4	891.4	897.0	863.4
80°	370.0	370.0	398.0	437.3	482.1	527.0	571.8	605.5	616.7	616.7	599.9
82.5°	224.3	229.9	252.3	291.5	330.8	358.8	398.0	426.1	448.5	442.9	431.7
85°	117.7	117.7	140.2	173.8	201.8	229.9	229.9	213.0	201.8	173.8	162.6
87.5°	39.2	33.6	44.9	44.9	39.2	44.9	44.9	50.5	50.5	50.5	50.5
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)