

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: P534152

Luminaire Tested: **GALN-SA9C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42201 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

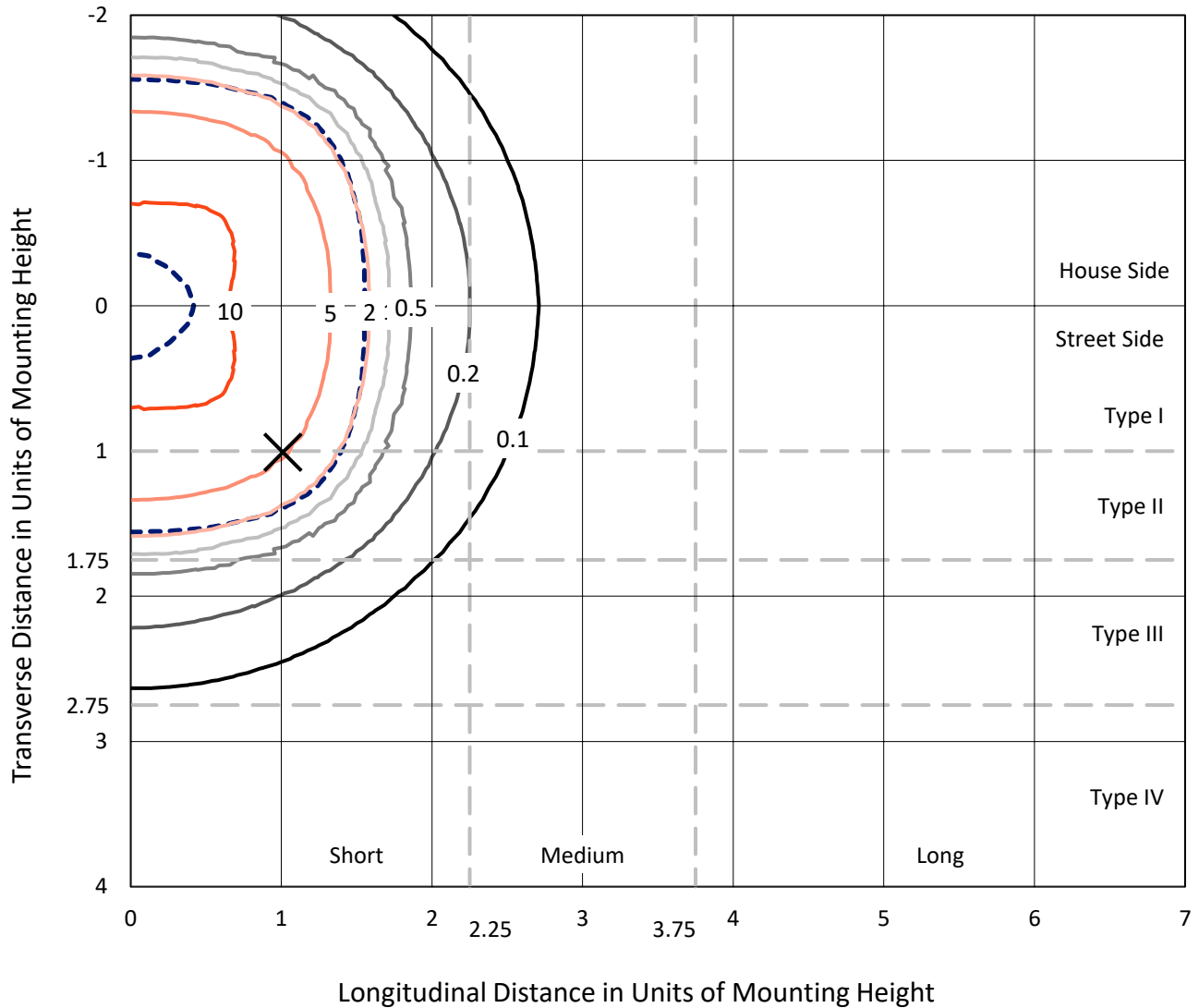
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

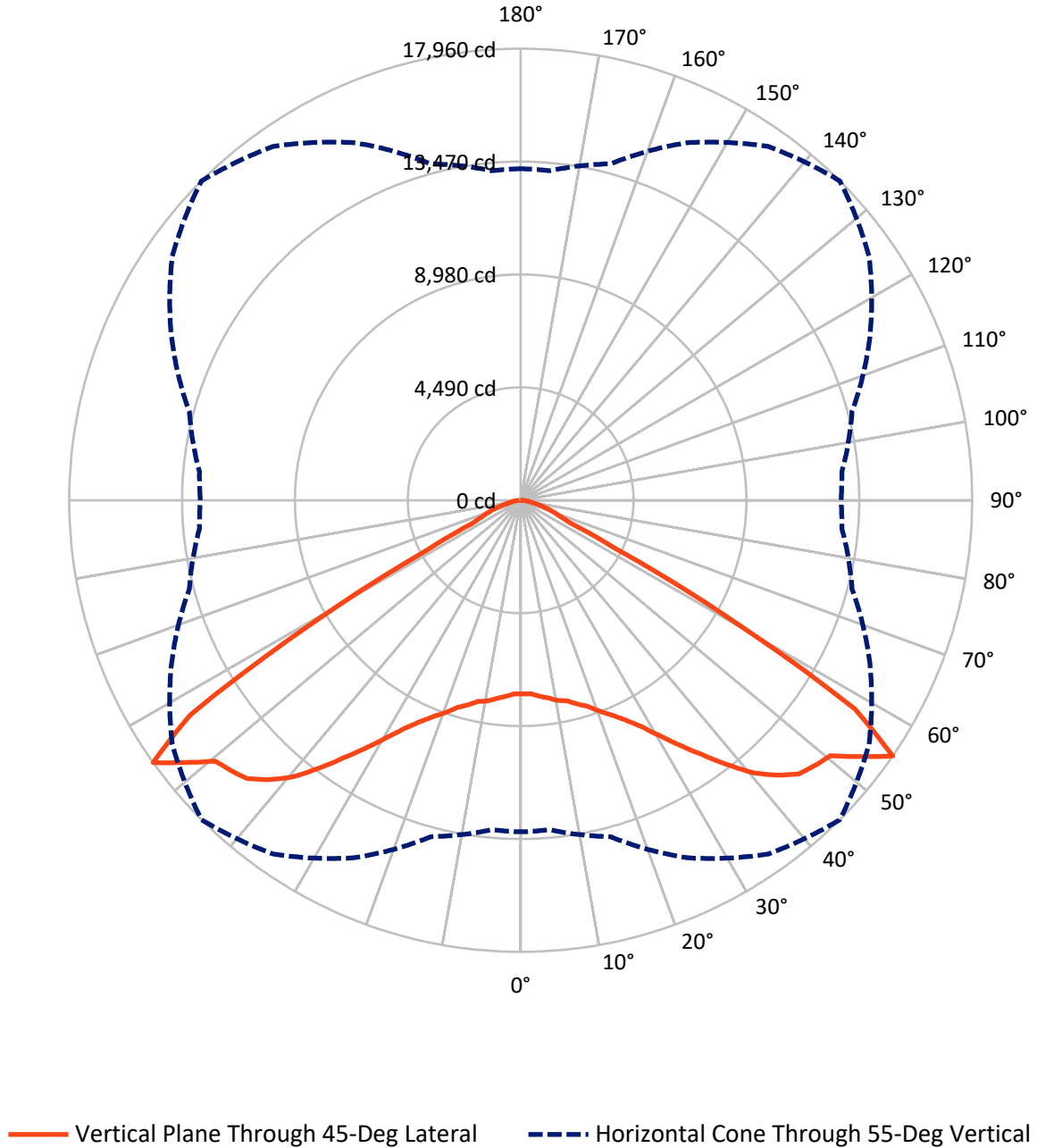
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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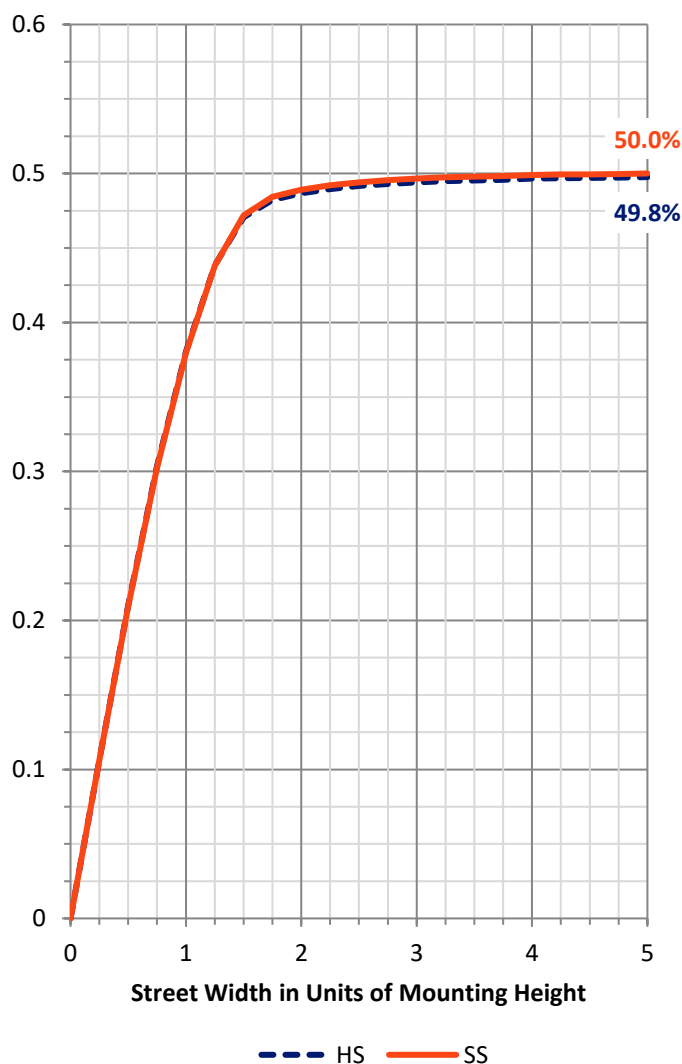
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21100.5	0.0	21100.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21100.5	0.0	21100.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42201.0	0.0	42201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.7	1.8
10°-20°	2385.0	5.7
20°-30°	4447.3	10.5
30°-40°	7446.3	17.6
40°-50°	11587.0	27.5
50°-60°	12031.0	28.5
60°-70°	2551.4	6.0
70°-80°	840.3	2.0
80°-90°	160.0	0.4
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°	42201.0	100.0
0°-180°	42201.0	100.0

**Coefficient of Utilization**

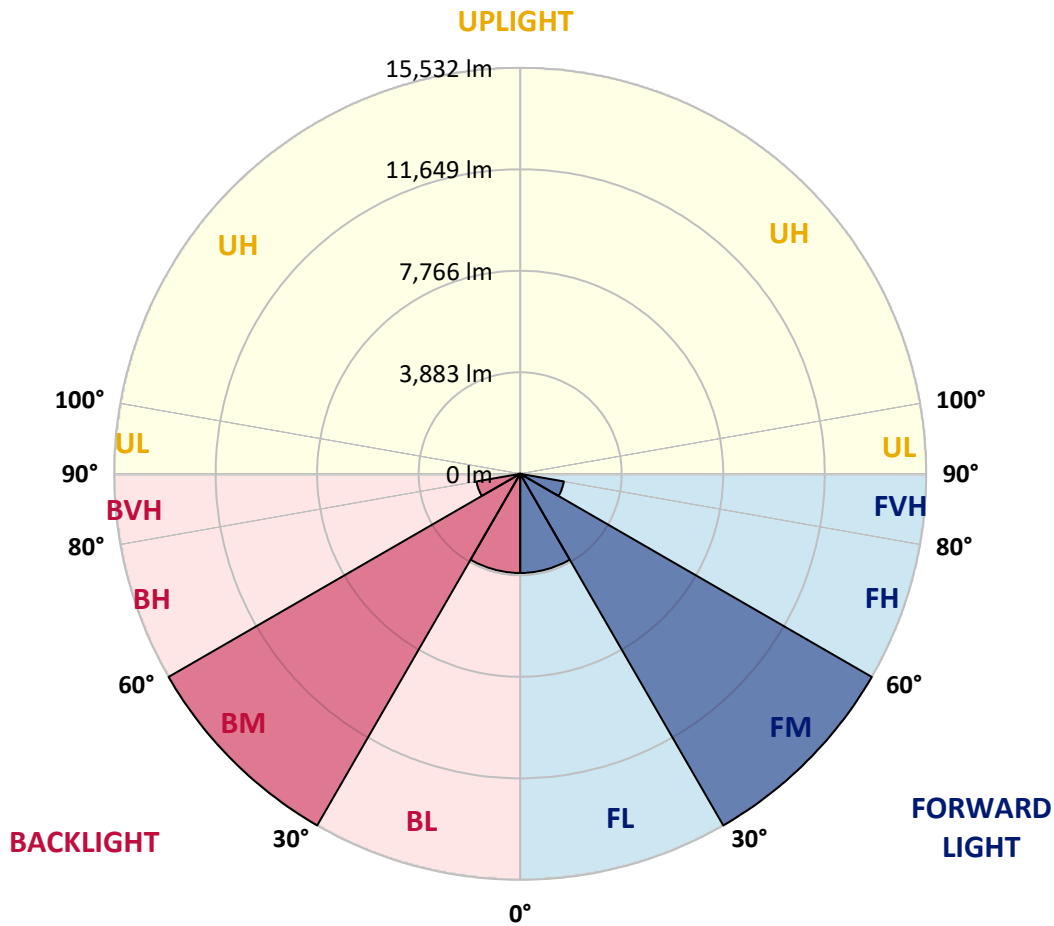


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3792.6	9.0			
FM (30°-60°)	15532.1	36.8			
FH (60°-80°)	1695.8	4.0			G1/1800
FVH (80°-90°)	80.0	0.2			G1/100
BL (0°-30°)	3792.6	9.0	B4/5000		
BM (30°-60°)	15532.1	36.8	B5		
BH (60°-80°)	1695.8	4.0	B3/2500		G1/1800
BVH (80°-90°)	80.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	7705.3	7705.3	7705.3	7705.3	7705.3	7705.3	7705.3	7705.3	7705.3	7705.3	7705.3
2.5°	7797.1	7761.4	7700.2	7746.1	7781.8	7705.3	7735.9	7751.2	7741.0	7700.2	7715.5
5°	7909.3	7888.9	7837.9	7873.6	7827.7	7827.7	7797.1	7756.3	7817.5	7807.3	7832.8
7.5°	7909.3	7883.8	7985.7	7919.5	7939.8	7939.8	7888.9	7848.1	7878.7	7832.8	7807.3
10°	8067.3	8103.0	8057.1	8072.4	8062.2	8097.9	8021.4	7995.9	7970.4	7955.1	7924.5
12.5°	8256.0	8230.5	8245.8	8235.6	8271.3	8179.5	8133.6	8077.5	8123.4	8057.1	8103.0
15°	8409.0	8393.7	8409.0	8449.8	8414.1	8409.0	8327.4	8271.3	8199.9	8215.2	8143.8
17.5°	8618.1	8602.8	8607.9	8643.6	8638.5	8613.0	8551.8	8444.7	8419.2	8378.4	8332.5
20°	8929.1	8903.6	8893.4	8908.7	8934.2	8954.6	8832.3	8791.5	8704.8	8638.5	8562.0
22.5°	9194.3	9184.1	9224.9	9158.6	9214.7	9275.9	9158.6	9138.2	8924.0	8888.3	8806.8
25°	9561.5	9546.2	9520.7	9617.6	9683.9	9678.8	9566.6	9454.4	9291.2	9250.4	9250.4
27.5°	9949.0	9862.3	9994.9	10020.4	10137.7	10173.4	10076.5	9913.3	9760.4	9673.7	9694.1
30°	10433.5	10351.9	10382.5	10566.1	10719.0	10851.6	10606.9	10367.2	10153.0	10000.0	9974.5
32.5°	10917.9	10836.3	10928.1	11106.6	11412.6	11611.5	11371.8	10953.6	10703.8	10479.4	10525.3
35°	11310.6	11371.8	11519.7	11789.9	12106.1	12427.4	12044.9	11723.6	11366.7	11116.8	11152.5
37.5°	11942.9	12131.6	12248.9	12560.0	13008.7	13340.2	12942.4	12524.3	12141.8	11815.4	11703.2
40°	12769.0	12896.5	13029.1	13396.3	13926.6	14258.1	13880.7	13335.1	12957.7	12621.1	12605.8
42.5°	13676.7	13799.1	13936.8	14385.6	14701.7	14951.6	14604.8	14314.2	13896.0	13630.8	13615.5
45°	14732.3	14645.6	14798.6	15094.4	15359.6	15522.7	15298.4	15155.6	14854.7	14609.9	14584.4
47.5°	15436.0	15359.6	15634.9	15900.1	15940.9	15762.4	15808.3	15940.9	15624.7	15221.9	15349.4
50°	15844.0	15844.0	16027.6	16272.4	16195.9	15966.4	16328.4	16338.6	16022.5	15665.5	15665.5
52.5°	15135.2	15293.3	15813.4	16614.0	16869.0	16935.3	16853.7	16506.9	15680.8	14951.6	14915.9
55°	13187.2	13151.5	13855.2	15691.0	17175.0	17960.3	16920.0	15323.9	13646.1	12825.1	12743.5
57.5°	8577.3	8618.1	9668.6	11540.1	14217.3	15680.8	13926.6	11682.8	9668.6	8536.5	8643.6
60°	3860.3	3998.0	4635.4	6032.7	8332.5	9525.8	8352.9	6338.6	4864.9	4222.3	4278.4
62.5°	2218.3	2243.8	2269.3	2692.5	3549.2	4196.8	3686.9	2845.5	2508.9	2396.7	2396.7
65°	1871.5	1856.2	1861.3	1897.0	1988.8	2121.4	2065.3	1988.8	1999.0	1988.8	1973.5
67.5°	1591.0	1611.4	1596.1	1621.6	1626.7	1647.1	1682.8	1713.4	1718.5	1728.7	1718.5
70°	1305.5	1310.6	1320.8	1341.2	1346.3	1361.6	1412.5	1438.0	1453.3	1453.3	1473.7
72.5°	999.5	994.4	1004.6	1025.0	1050.5	1055.6	1101.5	1137.2	1157.6	1132.1	1137.2
75°	657.8	662.9	678.2	693.5	729.2	764.9	780.2	815.9	821.0	831.2	805.7
77.5°	392.7	402.9	418.2	448.8	479.3	509.9	545.6	571.1	581.3	571.1	540.5
80°	255.0	255.0	275.4	300.9	336.6	362.1	382.5	402.9	418.2	402.9	392.7
82.5°	158.1	158.1	183.6	214.2	239.7	255.0	285.6	311.1	326.4	316.2	300.9
85°	81.6	86.7	107.1	132.6	153.0	163.2	158.1	142.8	127.5	122.4	112.2
87.5°	25.5	25.5	30.6	30.6	25.5	25.5	30.6	25.5	30.6	30.6	30.6
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)