

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: P532514

Luminaire Tested: **GALN-SA7D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532514  
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-SA7D-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA 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: 35678 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 - G1

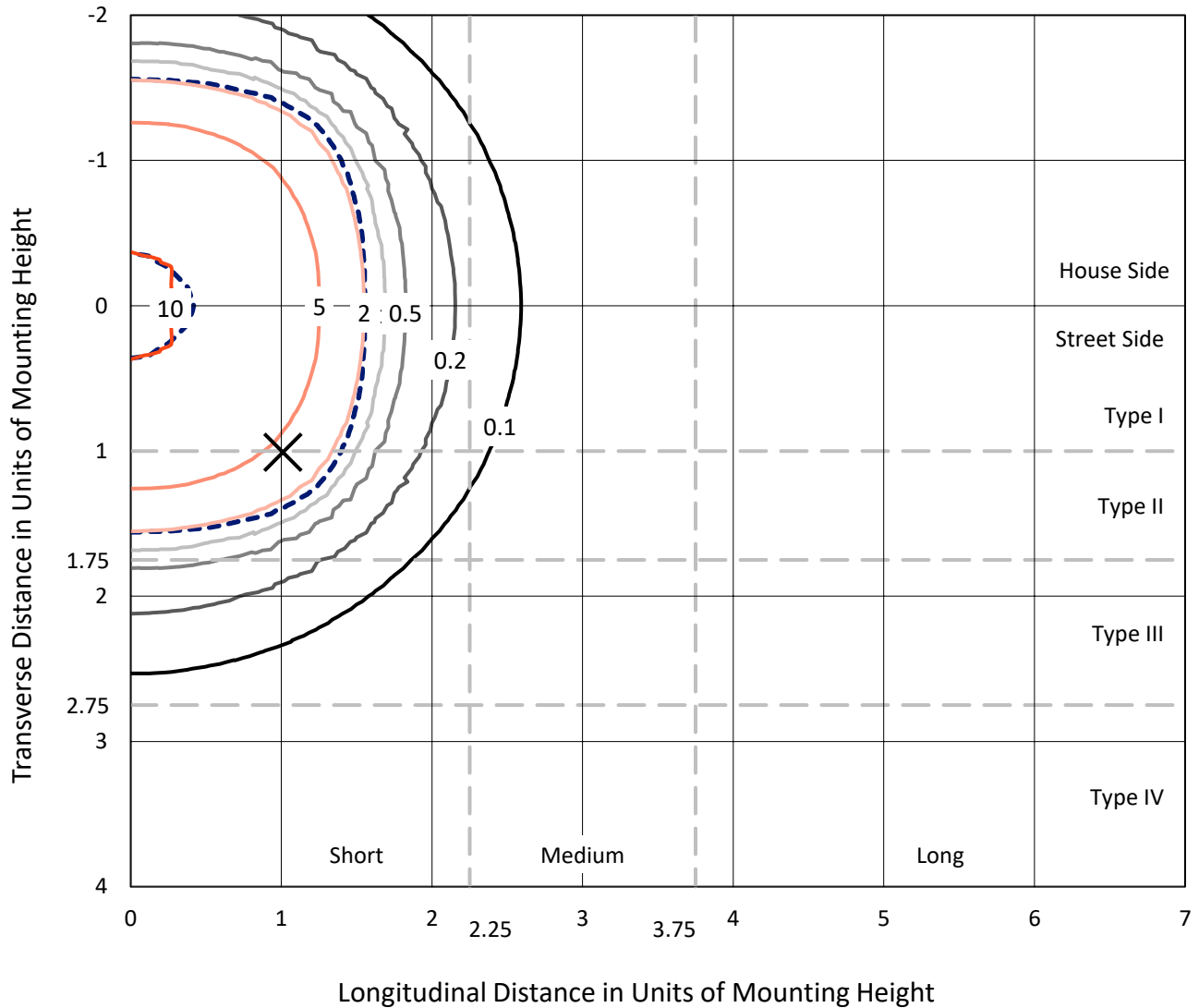
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

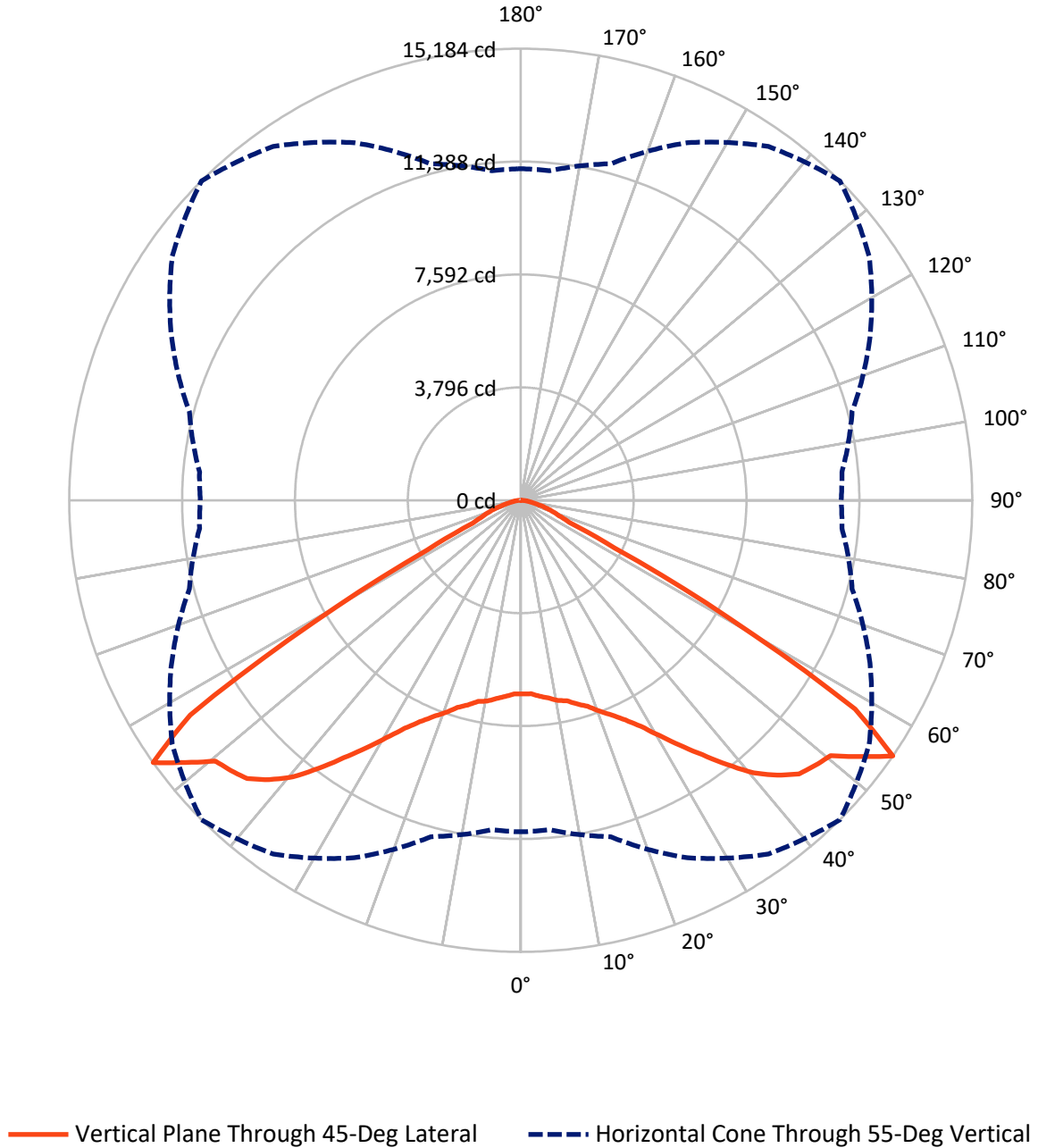
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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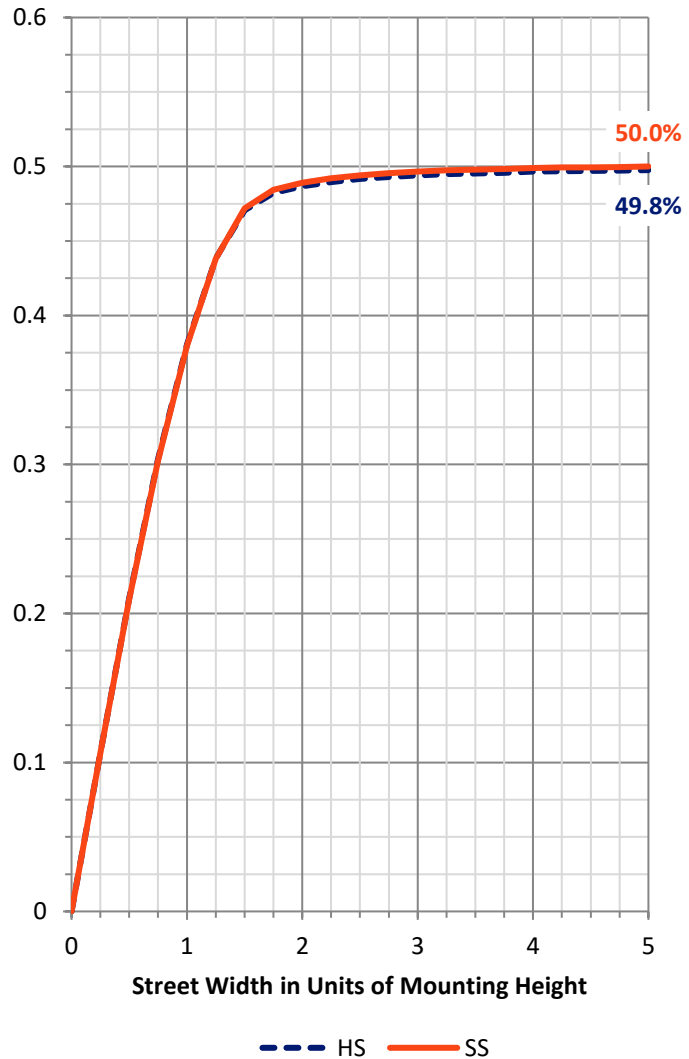
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17839.0	0.0	17839.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17839.0	0.0	17839.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35678.0	0.0	35678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.4	1.8
10°-20°	2016.4	5.7
20°-30°	3759.9	10.5
30°-40°	6295.3	17.6
40°-50°	9796.0	27.5
50°-60°	10171.3	28.5
60°-70°	2157.0	6.0
70°-80°	710.4	2.0
80°-90°	135.3	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°	35678.0	100.0
0°-180°	35678.0	100.0

**Coefficient of Utilization**

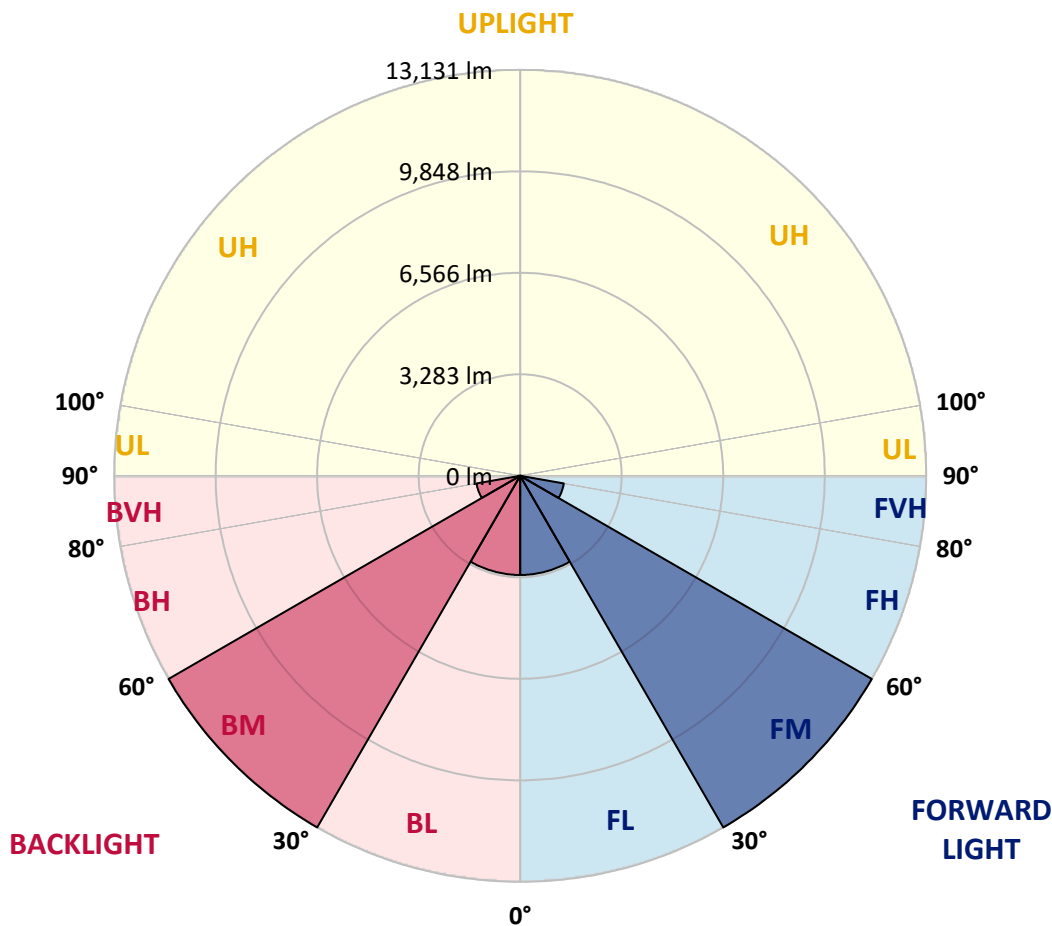


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3206.3	9.0			
FM (30°-60°)	13131.3	36.8			
FH (60°-80°)	1433.7	4.0			G1/1800
FVH (80°-90°)	67.6	0.2			G1/100
BL (0°-30°)	3206.3	9.0	B4/5000		
BM (30°-60°)	13131.3	36.8	B5		
BH (60°-80°)	1433.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	67.6	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°	6514.3	6514.3	6514.3	6514.3	6514.3	6514.3	6514.3	6514.3	6514.3	6514.3	6514.3
2.5°	6591.9	6561.7	6510.0	6548.8	6578.9	6514.3	6540.1	6553.1	6544.4	6510.0	6522.9
5°	6686.7	6669.5	6626.4	6656.5	6617.7	6617.7	6591.9	6557.4	6609.1	6600.5	6622.1
7.5°	6686.7	6665.2	6751.4	6695.3	6712.6	6712.6	6669.5	6635.0	6660.9	6622.1	6600.5
10°	6820.4	6850.5	6811.7	6824.7	6816.1	6846.2	6781.6	6760.0	6738.5	6725.5	6699.7
12.5°	6979.9	6958.3	6971.3	6962.6	6992.8	6915.2	6876.4	6829.0	6867.8	6811.7	6850.5
15°	7109.2	7096.3	7109.2	7143.7	7113.5	7109.2	7040.2	6992.8	6932.5	6945.4	6885.0
17.5°	7286.0	7273.0	7277.4	7307.5	7303.2	7281.7	7229.9	7139.4	7117.8	7083.4	7044.6
20°	7549.0	7527.4	7518.8	7531.7	7553.3	7570.5	7467.1	7432.6	7359.3	7303.2	7238.6
22.5°	7773.2	7764.5	7799.0	7743.0	7790.4	7842.1	7743.0	7725.7	7544.7	7514.5	7445.5
25°	8083.6	8070.6	8049.1	8131.0	8187.0	8182.7	8087.9	7993.0	7855.1	7820.6	7820.6
27.5°	8411.2	8337.9	8450.0	8471.6	8570.7	8600.9	8519.0	8381.0	8251.7	8178.4	8195.7
30°	8820.8	8751.8	8777.7	8932.9	9062.2	9174.3	8967.4	8764.7	8583.7	8454.3	8432.8
32.5°	9230.3	9161.4	9239.0	9389.9	9648.5	9816.7	9614.0	9260.5	9049.3	8859.6	8898.4
35°	9562.3	9614.0	9739.1	9967.6	10234.9	10506.5	10183.1	9911.5	9609.7	9398.5	9428.7
37.5°	10096.9	10256.4	10355.6	10618.6	10998.0	11278.2	10941.9	10588.4	10265.0	9989.1	9894.3
40°	10795.3	10903.1	11015.2	11325.6	11774.0	12054.2	11735.2	11273.9	10954.8	10670.3	10657.4
42.5°	11562.7	11666.2	11782.6	12162.0	12429.3	12640.5	12347.4	12101.6	11748.1	11523.9	11511.0
45°	12455.1	12381.9	12511.2	12761.2	12985.4	13123.4	12933.7	12813.0	12558.6	12351.7	12330.1
47.5°	13050.1	12985.4	13218.2	13442.4	13476.9	13326.0	13364.8	13476.9	13209.6	12869.0	12976.8
50°	13395.0	13395.0	13550.2	13757.1	13692.5	13498.5	13804.6	13813.2	13545.9	13244.1	13244.1
52.5°	12795.7	12929.4	13369.1	14046.0	14261.6	14317.6	14248.6	13955.5	13257.0	12640.5	12610.4
55°	11148.8	11118.7	11713.6	13265.7	14520.2	15184.2	14304.7	12955.3	11536.9	10842.7	10773.8
57.5°	7251.5	7286.0	8174.1	9756.3	12019.7	13257.0	11774.0	9877.0	8174.1	7217.0	7307.5
60°	3263.6	3380.0	3918.9	5100.2	7044.6	8053.4	7061.8	5358.9	4112.9	3569.7	3617.1
62.5°	1875.4	1896.9	1918.5	2276.3	3000.6	3548.1	3117.0	2405.7	2121.1	2026.3	2026.3
65°	1582.2	1569.3	1573.6	1603.8	1681.4	1793.5	1746.0	1681.4	1690.0	1681.4	1668.4
67.5°	1345.1	1362.3	1349.4	1371.0	1375.3	1392.5	1422.7	1448.6	1452.9	1461.5	1452.9
70°	1103.7	1108.0	1116.6	1133.9	1138.2	1151.1	1194.2	1215.8	1228.7	1228.7	1245.9
72.5°	845.0	840.7	849.3	866.6	888.1	892.4	931.2	961.4	978.6	957.1	961.4
75°	556.1	560.5	573.4	586.3	616.5	646.7	659.6	689.8	694.1	702.7	681.2
77.5°	332.0	340.6	353.5	379.4	405.3	431.1	461.3	482.9	491.5	482.9	457.0
80°	215.6	215.6	232.8	254.4	284.5	306.1	323.3	340.6	353.5	340.6	332.0
82.5°	133.6	133.6	155.2	181.1	202.6	215.6	241.4	263.0	275.9	267.3	254.4
85°	69.0	73.3	90.5	112.1	129.3	138.0	133.6	120.7	107.8	103.5	94.8
87.5°	21.6	21.6	25.9	25.9	21.6	21.6	25.9	21.6	25.9	25.9	25.9
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)