

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: P532516

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
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-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33604 lumens  
Efficiency: N/A  
Efficacy: 77.6 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

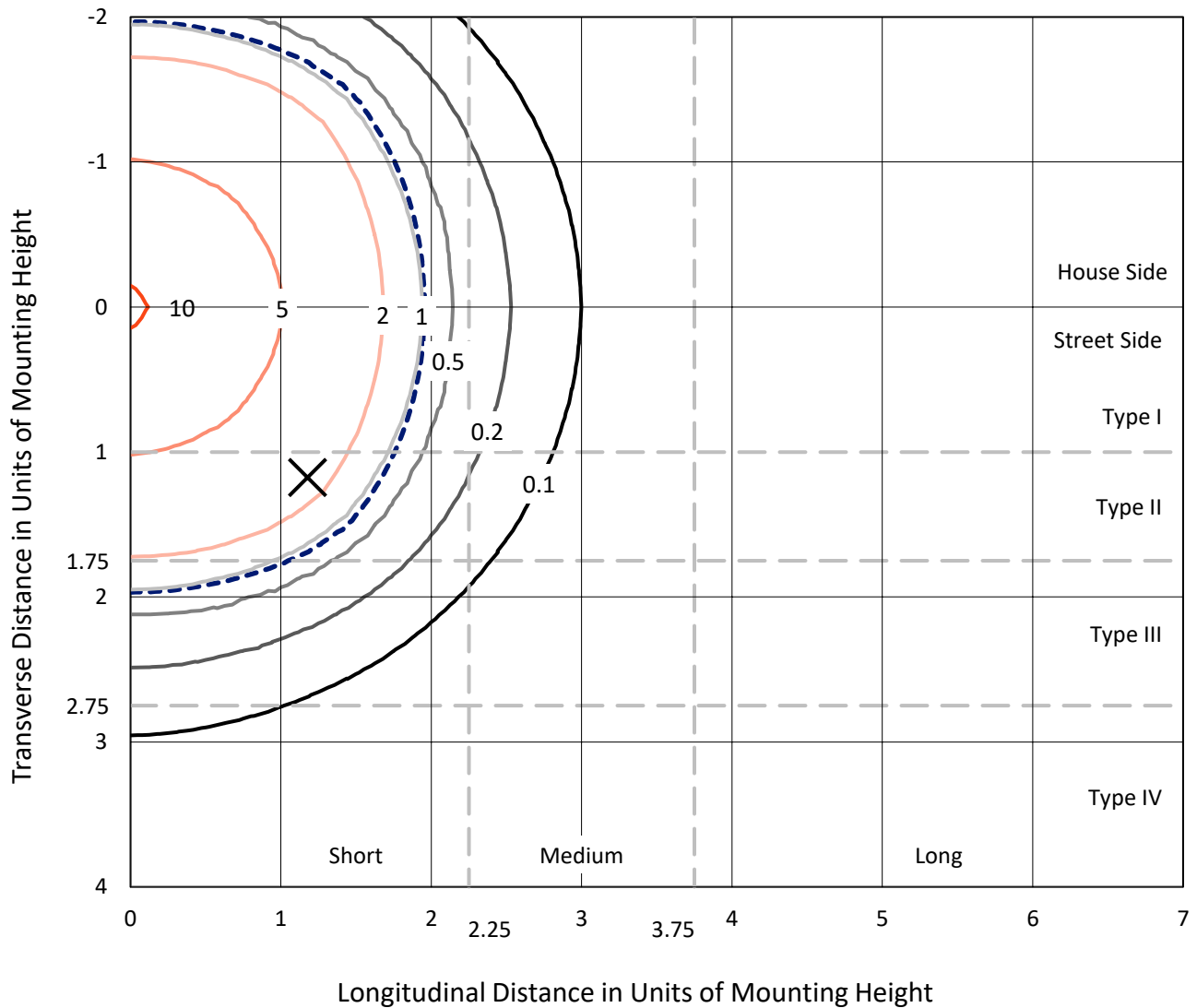
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

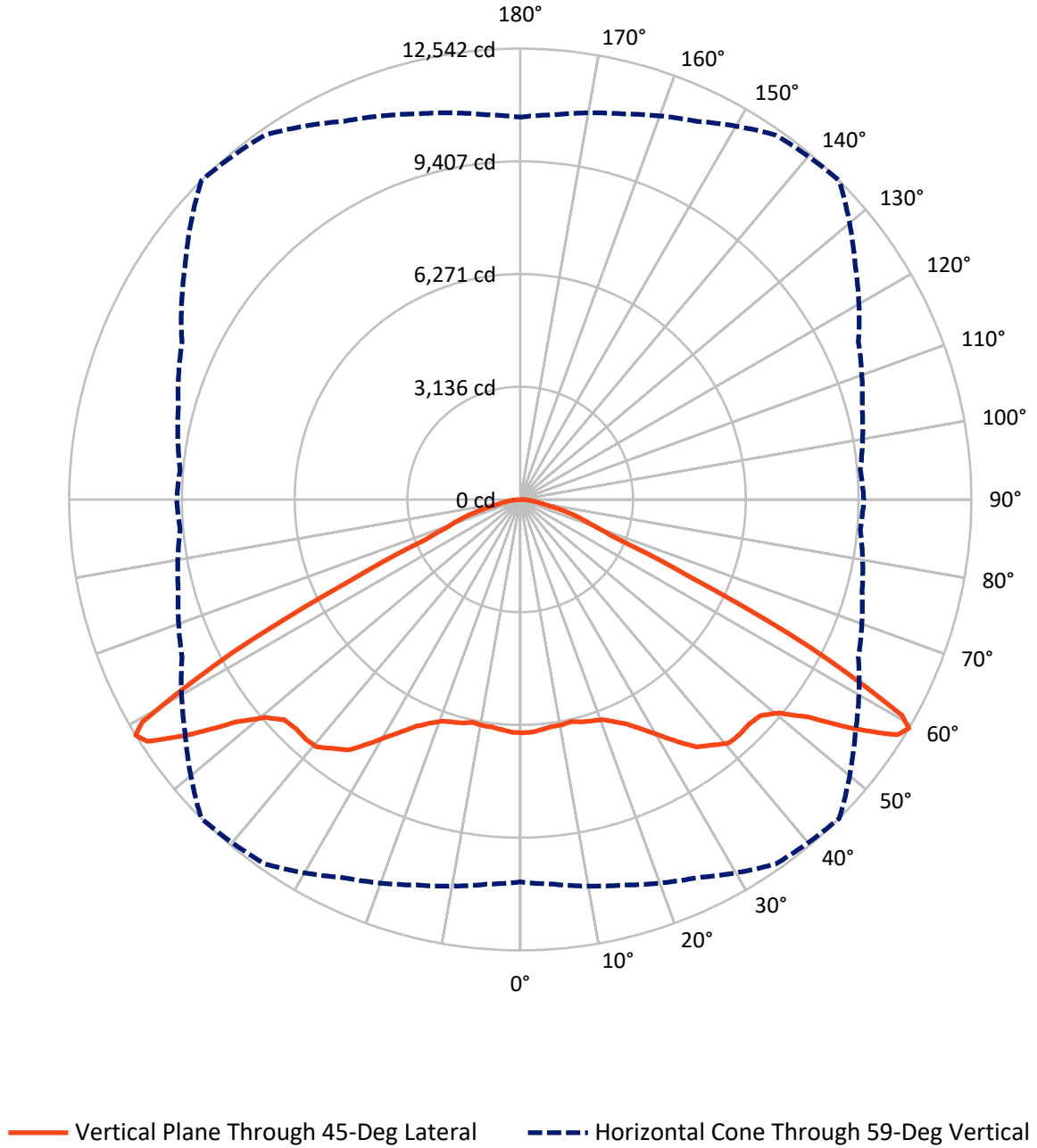
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	16802.0	0.0	16802.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16802.0	0.0	16802.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33604.0	0.0	33604.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.9	1.8
10°-20°	1819.6	5.4
20°-30°	3177.2	9.5
30°-40°	5074.4	15.1
40°-50°	6912.4	20.6
50°-60°	9347.4	27.8
60°-70°	5126.1	15.3
70°-80°	1311.4	3.9
80°-90°	223.7	0.7
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°	33604.0	100.0
0°-180°	33604.0	100.0

**Coefficient of Utilization**



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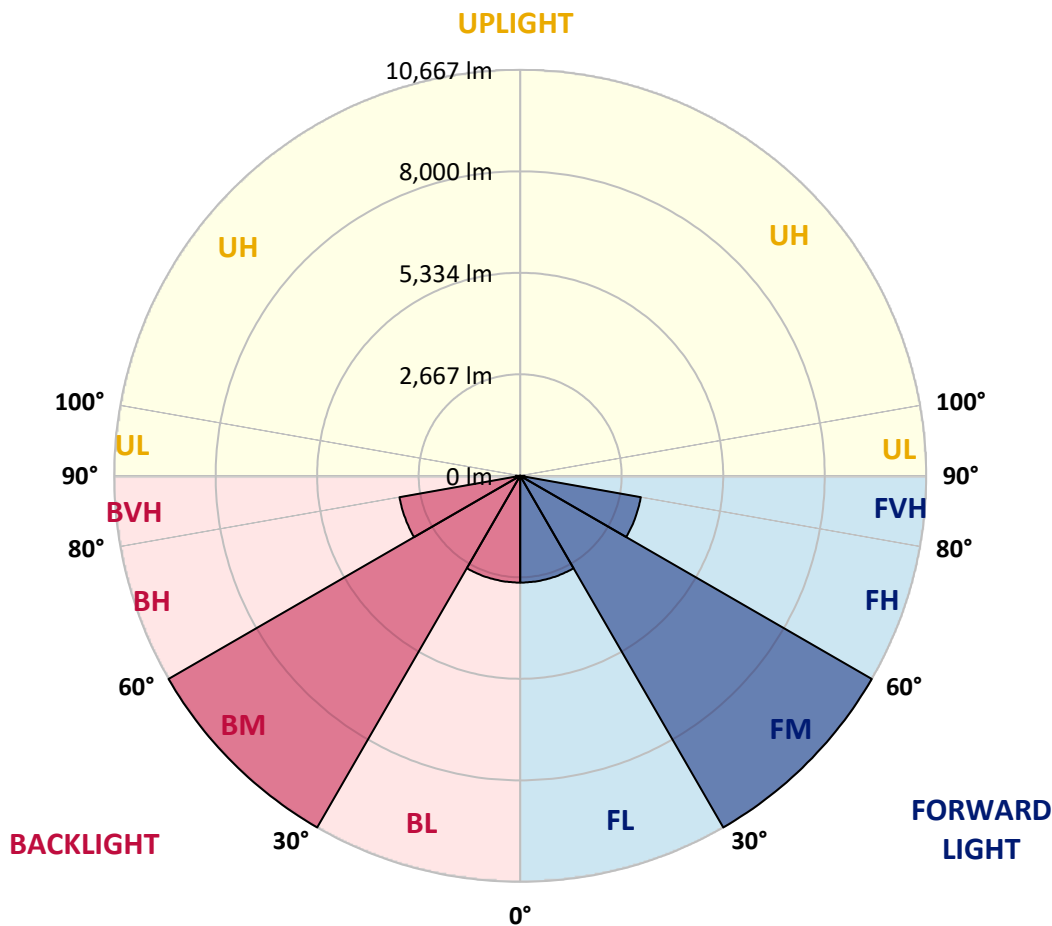
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2804.3	8.3			
FM (30°-60°)	10667.1	31.7			
FH (60°-80°)	3218.8	9.6			G2/5000
FVH (80°-90°)	111.8	0.3			G2/225
BL (0°-30°)	2804.3	8.3	B4/5000		
BM (30°-60°)	10667.1	31.7	B5		
BH (60°-80°)	3218.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	111.8	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°	6490.7	6490.7	6490.7	6490.7	6490.7	6490.7	6490.7	6490.7	6490.7	6490.7	6490.7
2.5°	6451.9	6499.3	6464.8	6495.0	6490.7	6477.8	6456.2	6443.3	6426.1	6451.9	6408.9
5°	6426.1	6464.8	6503.6	6451.9	6451.9	6426.1	6413.2	6387.3	6387.3	6383.0	6378.7
7.5°	6469.2	6430.4	6413.2	6421.8	6430.4	6374.4	6413.2	6361.5	6318.4	6348.6	6383.0
10°	6430.4	6447.6	6383.0	6413.2	6365.8	6374.4	6348.6	6383.0	6335.6	6335.6	6335.6
12.5°	6469.2	6421.8	6443.3	6421.8	6408.9	6335.6	6370.1	6331.3	6327.0	6370.1	6331.3
15°	6546.7	6469.2	6451.9	6408.9	6421.8	6421.8	6387.3	6391.6	6344.2	6370.1	6378.7
17.5°	6520.8	6477.8	6464.8	6413.2	6456.2	6469.2	6404.5	6361.5	6391.6	6387.3	6383.0
20°	6542.4	6559.6	6546.7	6555.3	6572.5	6538.1	6477.8	6417.5	6378.7	6434.7	6430.4
22.5°	6680.2	6663.0	6654.4	6645.7	6675.9	6710.3	6628.5	6533.8	6533.8	6572.5	6589.7
25°	6792.2	6787.9	6783.6	6822.3	6925.7	6925.7	6822.3	6701.7	6671.6	6697.4	6675.9
27.5°	6955.8	7003.2	6986.0	7054.9	7205.7	7240.1	7102.3	6960.2	6878.3	6848.2	6886.9
30°	7330.6	7274.6	7287.5	7360.7	7494.2	7606.2	7395.2	7244.4	7132.4	7128.1	7145.4
32.5°	7580.4	7623.4	7662.2	7731.1	7942.2	8028.3	7774.2	7528.7	7459.8	7421.0	7433.9
35°	8080.0	8041.2	8032.6	8101.5	8312.6	8454.7	8136.0	7920.6	7830.2	7916.3	7916.3
37.5°	8553.8	8446.1	8364.2	8454.7	8648.5	8665.7	8394.4	8278.1	8230.7	8329.8	8325.5
40°	8777.7	8769.1	8579.6	8631.3	8889.7	8915.5	8661.4	8523.6	8515.0	8644.2	8773.4
42.5°	9010.3	8928.5	8739.0	8773.4	8932.8	8941.4	8700.2	8661.4	8756.2	8881.1	8889.7
45°	9049.1	8980.1	8859.5	8773.4	8889.7	8915.5	8773.4	8799.3	8807.9	8958.6	8958.6
47.5°	9126.6	9118.0	9049.1	8984.5	9006.0	8984.5	8894.0	8932.8	9062.0	9135.2	9100.7
50°	9341.9	9251.5	9320.4	9264.4	9268.7	9329.0	9247.2	9285.9	9260.1	9195.5	9152.4
52.5°	9815.7	9772.6	9832.9	9871.7	9914.8	10052.6	9957.8	9751.1	9557.3	9385.0	9380.7
55°	10509.1	10539.3	10655.6	10853.7	11021.7	11241.3	10784.8	10289.5	9979.4	9708.0	9725.3
57.5°	11163.8	11142.3	11301.6	11753.9	12244.9	12356.9	11461.0	10754.6	10250.7	10078.4	10005.2
59°	10638.4	10741.7	11103.5	11607.4	12378.4	12542.1	11370.5	10375.6	9841.6	9492.7	9553.0
60°	9811.4	9850.2	10173.2	10875.2	11917.5	12197.5	10763.3	9789.9	9079.2	8876.8	8967.2
62.5°	6934.3	6904.2	7136.7	7709.6	8644.2	9023.2	8002.5	7317.6	6869.7	6645.7	6697.4
65°	3686.8	3824.6	3919.4	4276.9	4772.2	5172.7	4750.6	4453.5	4203.7	4018.5	4014.1
67.5°	2489.5	2472.2	2493.8	2575.6	2743.6	2855.6	2846.9	2696.2	2674.7	2640.2	2679.0
70°	2097.5	2088.9	2050.1	2050.1	2084.6	2110.4	2140.6	2157.8	2192.3	2235.3	2231.0
72.5°	1701.3	1679.7	1653.9	1641.0	1684.0	1697.0	1735.7	1753.0	1783.1	1778.8	1817.6
75°	1124.1	1124.1	1154.3	1188.7	1201.7	1227.5	1231.8	1283.5	1283.5	1292.1	1257.7
77.5°	628.8	611.6	633.1	667.6	697.7	745.1	792.5	831.3	852.8	844.2	844.2
80°	366.1	366.1	387.6	426.4	465.2	508.2	542.7	572.8	594.4	585.8	568.5
82.5°	228.3	228.3	249.8	288.6	318.7	344.6	391.9	430.7	456.5	447.9	426.4
85°	116.3	116.3	142.1	168.0	206.7	224.0	219.7	202.4	198.1	176.6	176.6
87.5°	30.1	30.1	43.1	47.4	38.8	43.1	43.1	43.1	43.1	43.1	47.4
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)