

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: P647535

Luminaire Tested: **GALN-SA7D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647535  
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-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 35792.5 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

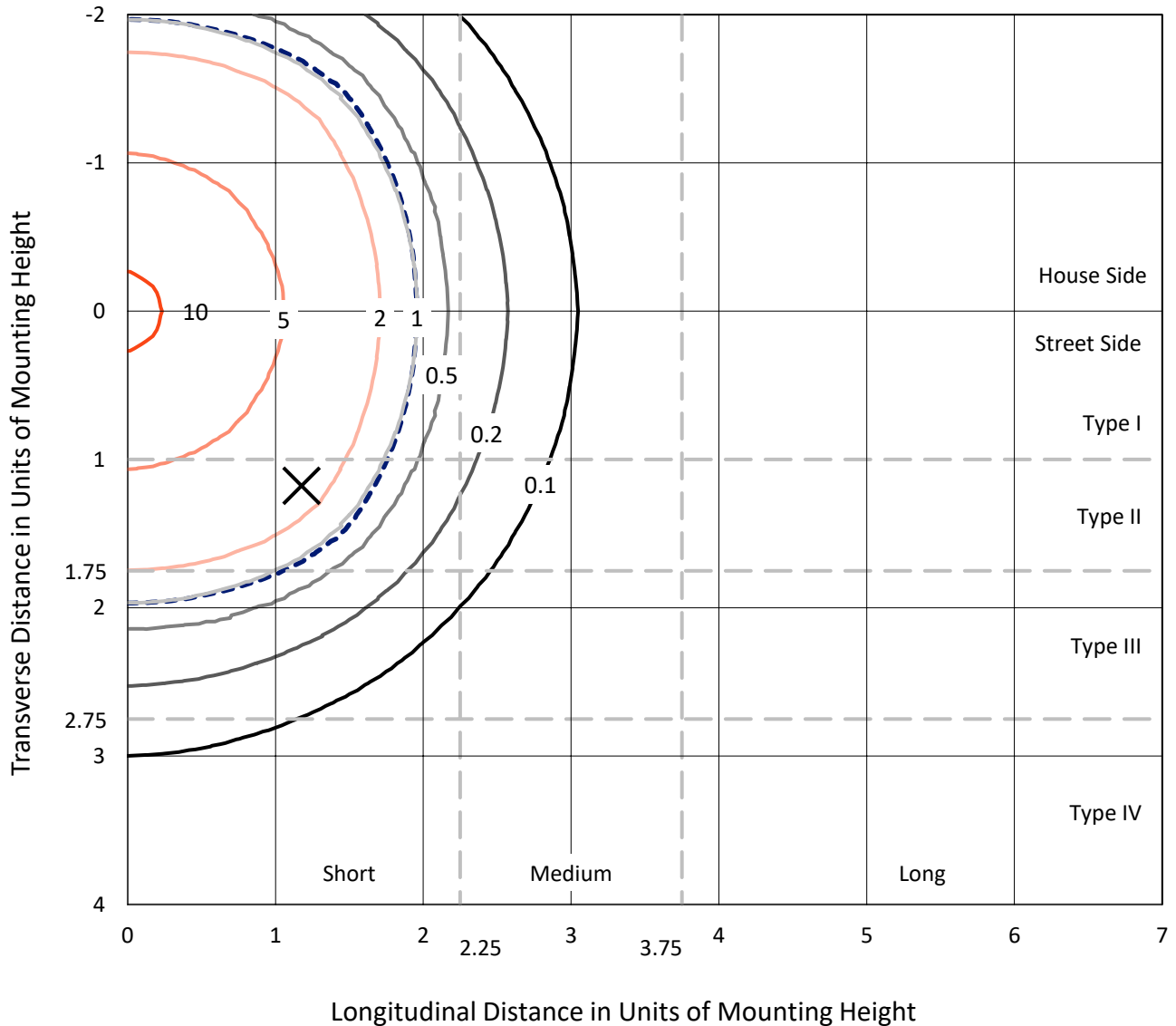
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

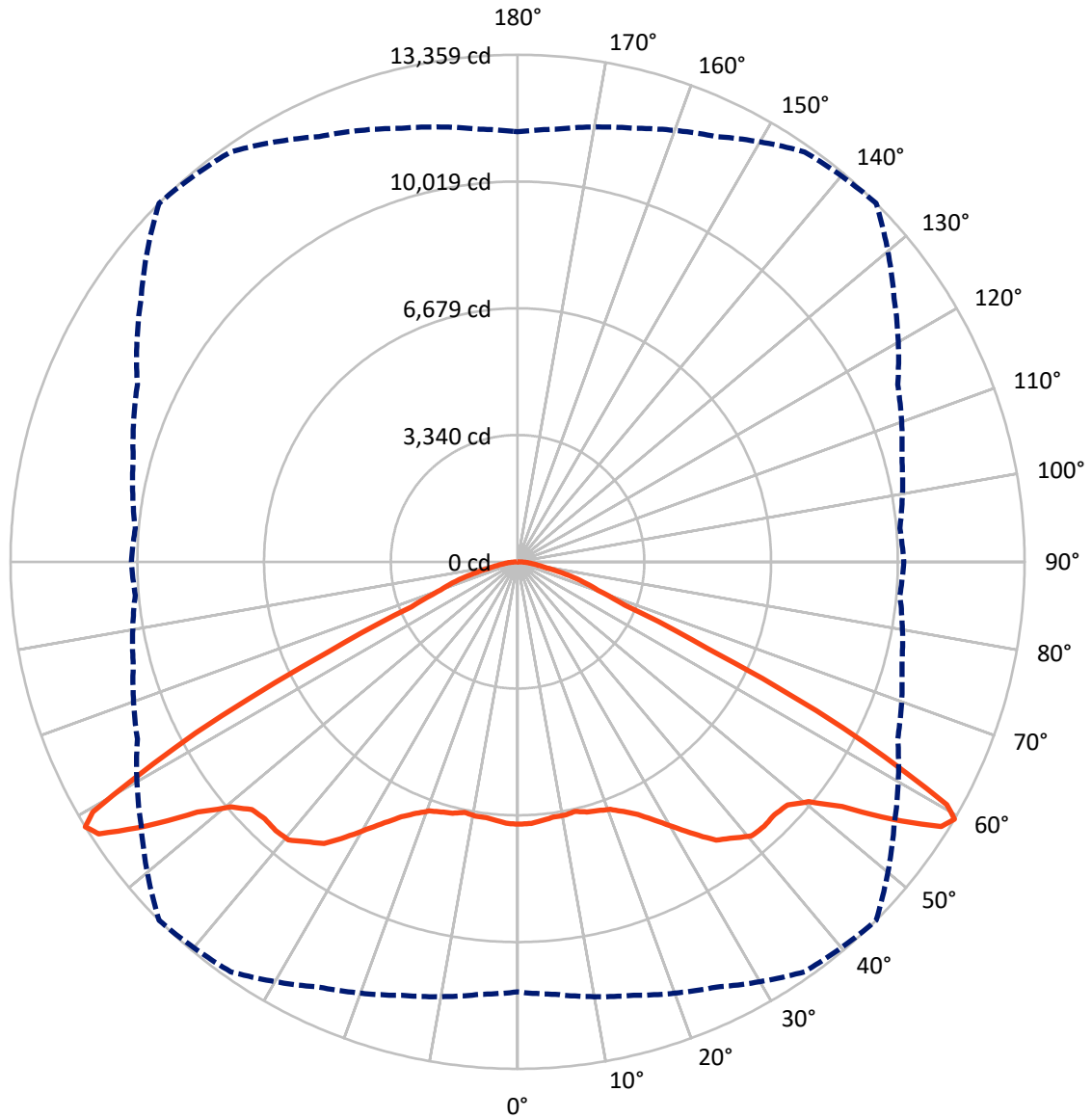
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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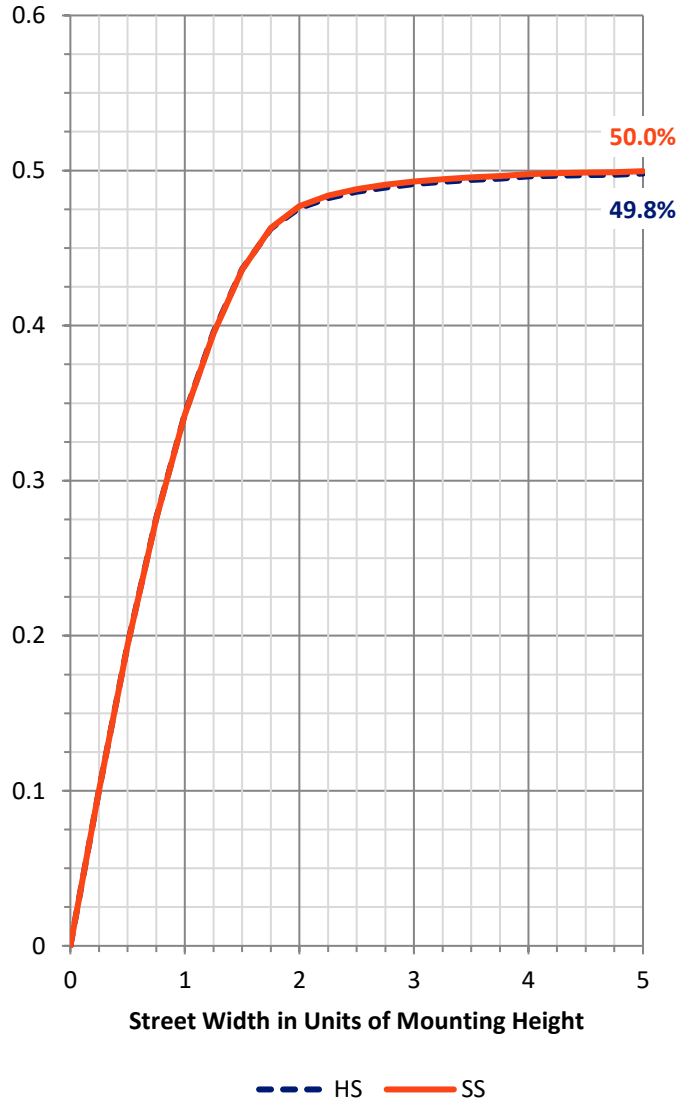
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17896.2	0.0	17896.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17896.2	0.0	17896.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35792.5	0.0	35792.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	651.7	1.8
10°-20°	1938.1	5.4
20°-30°	3384.1	9.5
30°-40°	5404.9	15.1
40°-50°	7362.6	20.6
50°-60°	9956.1	27.8
60°-70°	5460.0	15.3
70°-80°	1396.8	3.9
80°-90°	238.2	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°	35792.5	100.0
0°-180°	35792.5	100.0

**Coefficient of Utilization**



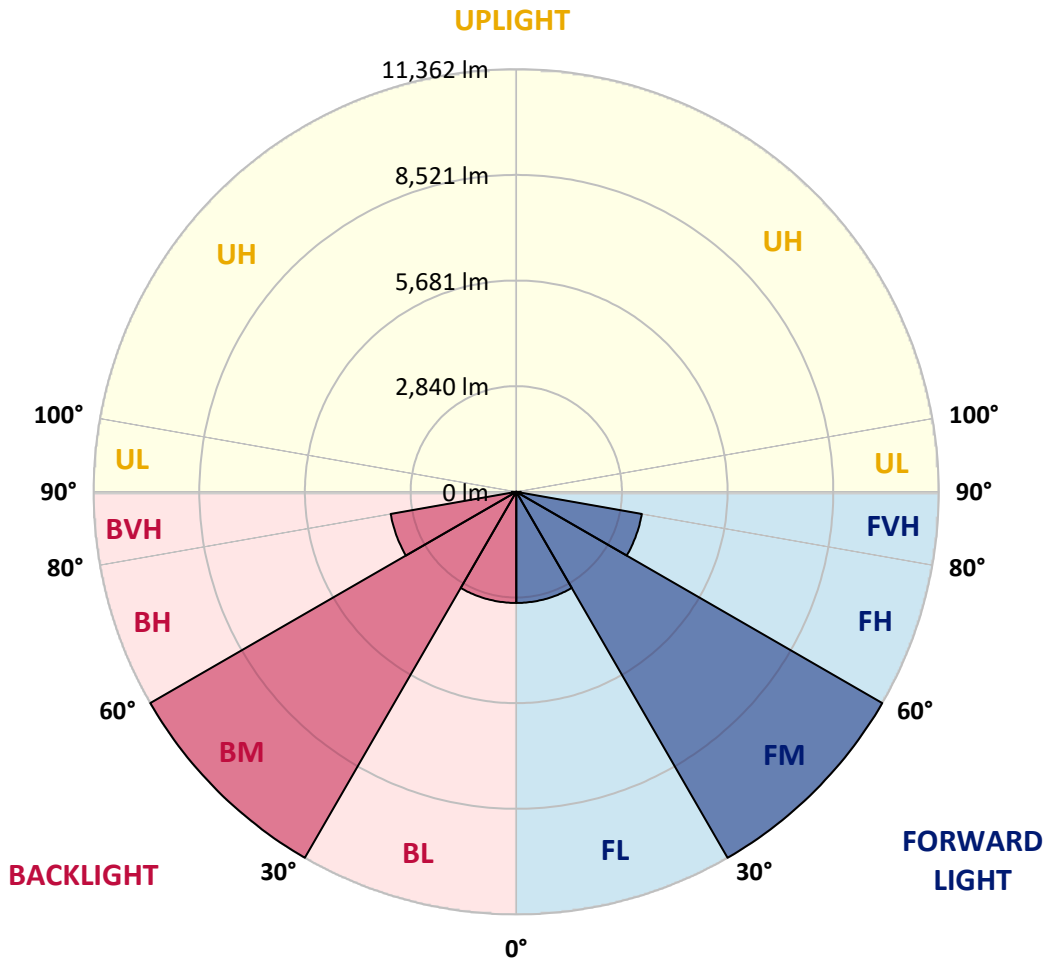
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2986.9	8.3			
FM (30°-60°)	11361.8	31.7			
FH (60°-80°)	3428.4	9.6			G2/5000
FVH (80°-90°)	119.1	0.3			G2/225
BL (0°-30°)	2986.9	8.3	B4/5000		
BM (30°-60°)	11361.8	31.7	B5		
BH (60°-80°)	3428.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	119.1	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°	6913.4	6913.4	6913.4	6913.4	6913.4	6913.4	6913.4	6913.4	6913.4	6913.4	6913.4
2.5°	6872.1	6922.6	6885.9	6918.0	6913.4	6899.6	6876.7	6862.9	6844.6	6872.1	6826.3
5°	6844.6	6885.9	6927.1	6872.1	6872.1	6844.6	6830.8	6803.3	6803.3	6798.7	6794.1
7.5°	6890.5	6849.1	6830.8	6840.0	6849.1	6789.5	6830.8	6775.8	6729.9	6762.0	6798.7
10°	6849.1	6867.5	6798.7	6830.8	6780.4	6789.5	6762.0	6798.7	6748.3	6748.3	6748.3
12.5°	6890.5	6840.0	6862.9	6840.0	6826.3	6748.3	6784.9	6743.7	6739.0	6784.9	6743.7
15°	6973.0	6890.5	6872.1	6826.3	6840.0	6840.0	6803.3	6807.9	6757.4	6784.9	6794.1
17.5°	6945.5	6899.6	6885.9	6830.8	6876.7	6890.5	6821.7	6775.8	6807.9	6803.3	6798.7
20°	6968.5	6986.8	6973.0	6982.2	7000.6	6963.8	6899.6	6835.4	6794.1	6853.8	6849.1
22.5°	7115.3	7096.9	7087.7	7078.6	7110.7	7147.4	7060.2	6959.3	6959.3	7000.6	7018.9
25°	7234.5	7229.9	7225.4	7266.6	7376.7	7376.7	7266.6	7138.2	7106.0	7133.6	7110.7
27.5°	7408.8	7459.3	7440.9	7514.4	7675.0	7711.6	7564.8	7413.4	7326.3	7294.2	7335.5
30°	7808.0	7748.3	7762.1	7840.1	7982.3	8101.5	7876.7	7716.2	7596.9	7592.4	7610.7
32.5°	8074.1	8119.9	8161.2	8234.6	8459.4	8551.1	8280.5	8019.0	7945.6	7904.3	7918.1
35°	8606.2	8564.9	8555.8	8629.1	8853.9	9005.3	8665.9	8436.4	8340.1	8431.9	8431.9
37.5°	9110.8	8996.1	8909.0	9005.3	9211.8	9230.1	8941.1	8817.2	8766.8	8872.3	8867.7
40°	9349.4	9340.2	9138.3	9193.4	9468.7	9496.1	9225.5	9078.7	9069.6	9207.1	9344.8
42.5°	9597.1	9509.9	9308.1	9344.8	9514.5	9523.7	9266.8	9225.5	9326.5	9459.5	9468.7
45°	9638.4	9565.0	9436.6	9344.8	9468.7	9496.1	9344.8	9372.3	9381.5	9542.0	9542.0
47.5°	9720.9	9711.8	9638.4	9569.6	9592.5	9569.6	9473.2	9514.5	9652.1	9730.1	9693.5
50°	9950.4	9854.0	9927.4	9867.8	9872.4	9936.6	9849.4	9890.7	9863.1	9794.4	9748.5
52.5°	10454.9	10409.1	10473.3	10514.6	10560.5	10707.3	10606.4	10386.2	10179.7	9996.2	9991.6
55°	11193.5	11225.6	11349.5	11560.5	11739.4	11973.4	11487.2	10959.6	10629.3	10340.3	10358.6
57.5°	11890.9	11867.9	12037.7	12519.4	13042.4	13161.6	12207.4	11455.1	10918.3	10734.8	10656.8
59°	11331.2	11441.3	11826.7	12363.4	13184.5	13358.8	12111.1	11051.3	10482.5	10110.9	10175.2
60°	10450.4	10491.7	10835.7	11583.5	12693.7	12991.8	11464.2	10427.4	9670.5	9454.9	9551.2
62.5°	7385.9	7353.8	7601.5	8211.6	9207.1	9610.9	8523.6	7794.2	7317.1	7078.6	7133.6
65°	3926.9	4073.7	4174.6	4555.4	5083.0	5509.6	5060.1	4743.5	4477.4	4280.2	4275.6
67.5°	2651.6	2633.2	2656.2	2743.3	2922.2	3041.6	3032.3	2871.8	2848.9	2812.1	2853.4
70°	2234.1	2225.0	2183.6	2183.6	2220.4	2247.9	2280.0	2298.3	2335.1	2380.9	2376.3
72.5°	1812.1	1789.2	1761.6	1747.8	1793.7	1807.5	1848.7	1867.1	1899.2	1894.6	1936.0
75°	1197.4	1197.4	1229.5	1266.2	1279.9	1307.5	1312.0	1367.1	1367.1	1376.3	1339.6
77.5°	669.8	651.5	674.4	711.0	743.1	793.6	844.1	885.4	908.4	899.1	899.1
80°	389.9	389.9	412.9	454.1	495.5	541.4	578.0	610.1	633.1	623.9	605.6
82.5°	243.1	243.1	266.1	307.3	339.5	367.0	417.5	458.8	486.2	477.1	454.1
85°	123.9	123.9	151.4	178.9	220.2	238.6	234.0	215.6	211.0	188.1	188.1
87.5°	32.1	32.1	45.9	50.4	41.3	45.9	45.9	45.9	45.9	45.9	50.4
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)