

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: P647701

Luminaire Tested: **GALN-SA1A-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3792.1 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

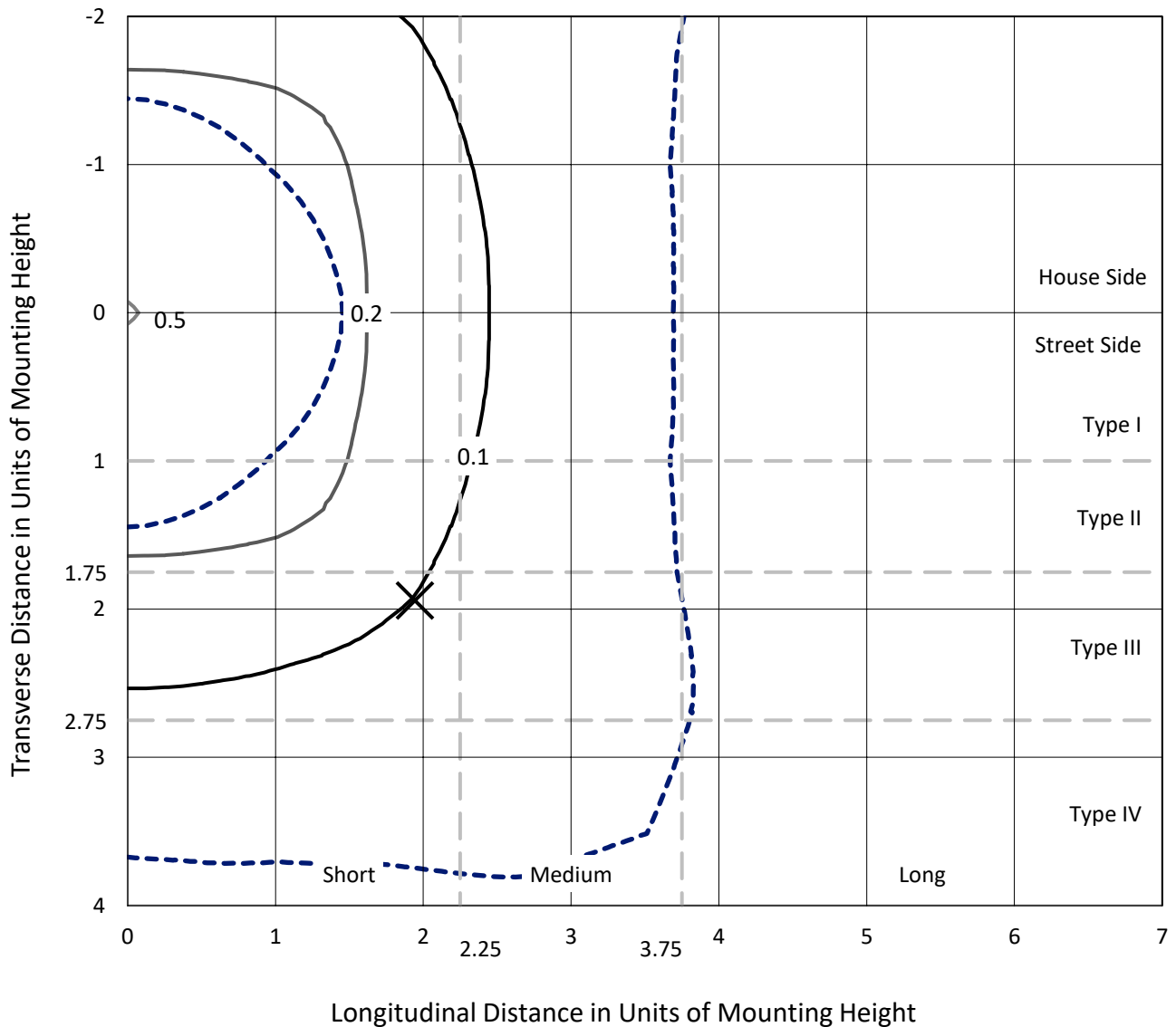
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

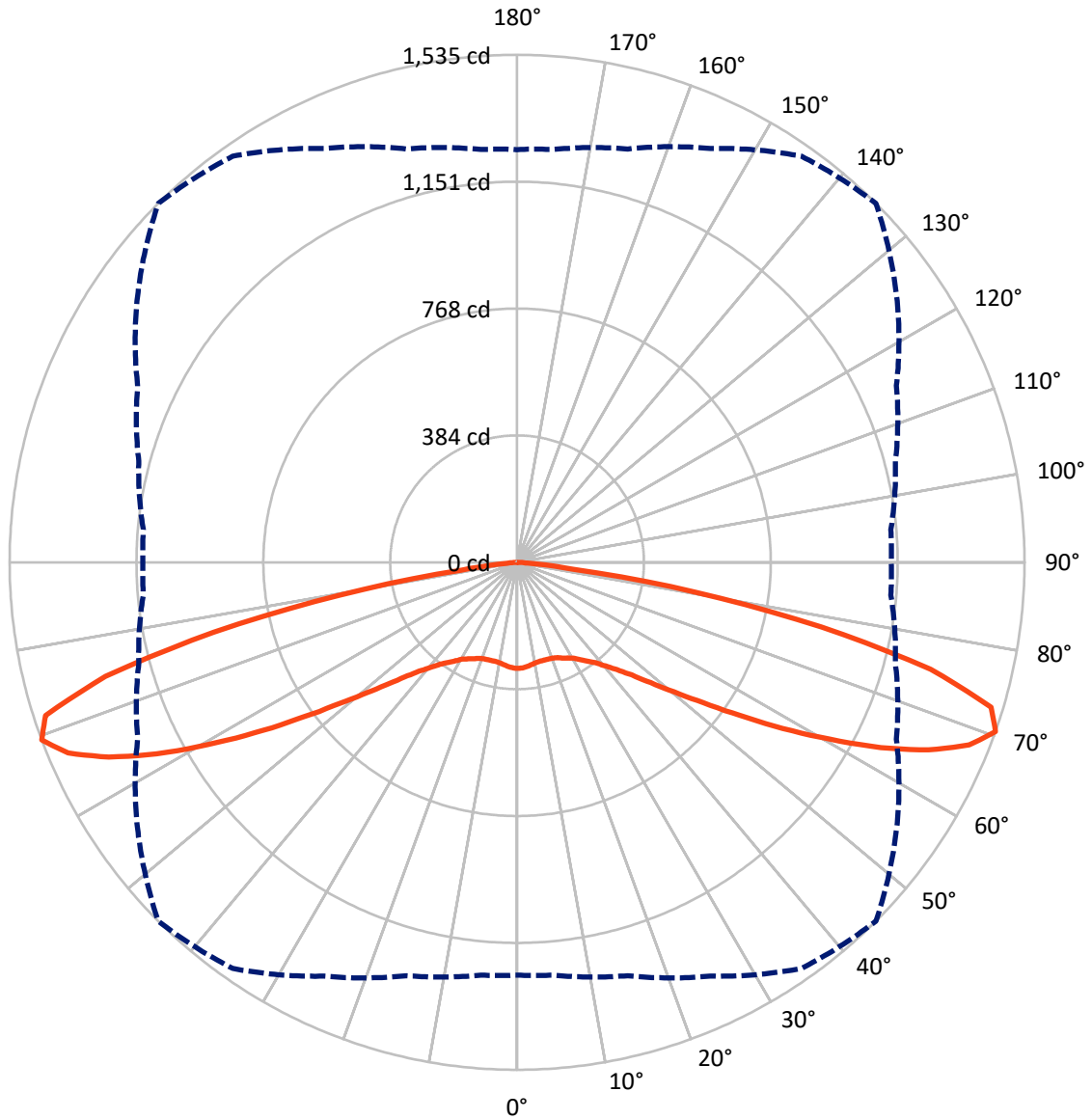
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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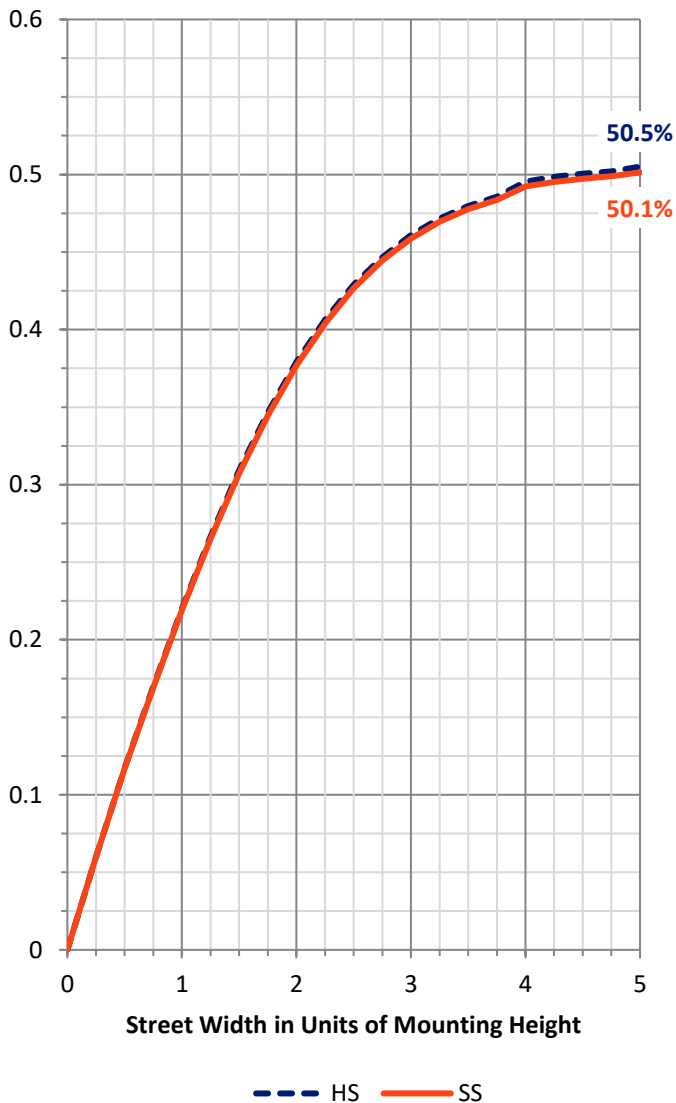
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1896.0	0.0	1896.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1896.0	0.0	1896.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3792.1	0.0	3792.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.0	0.8
10°-20°	87.9	2.3
20°-30°	149.8	3.9
30°-40°	232.1	6.1
40°-50°	390.7	10.3
50°-60°	710.8	18.7
60°-70°	1203.4	31.7
70°-80°	931.5	24.6
80°-90°	55.8	1.5
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°	3792.1	100.0
0°-180°	3792.1	100.0

**Coefficient of Utilization**

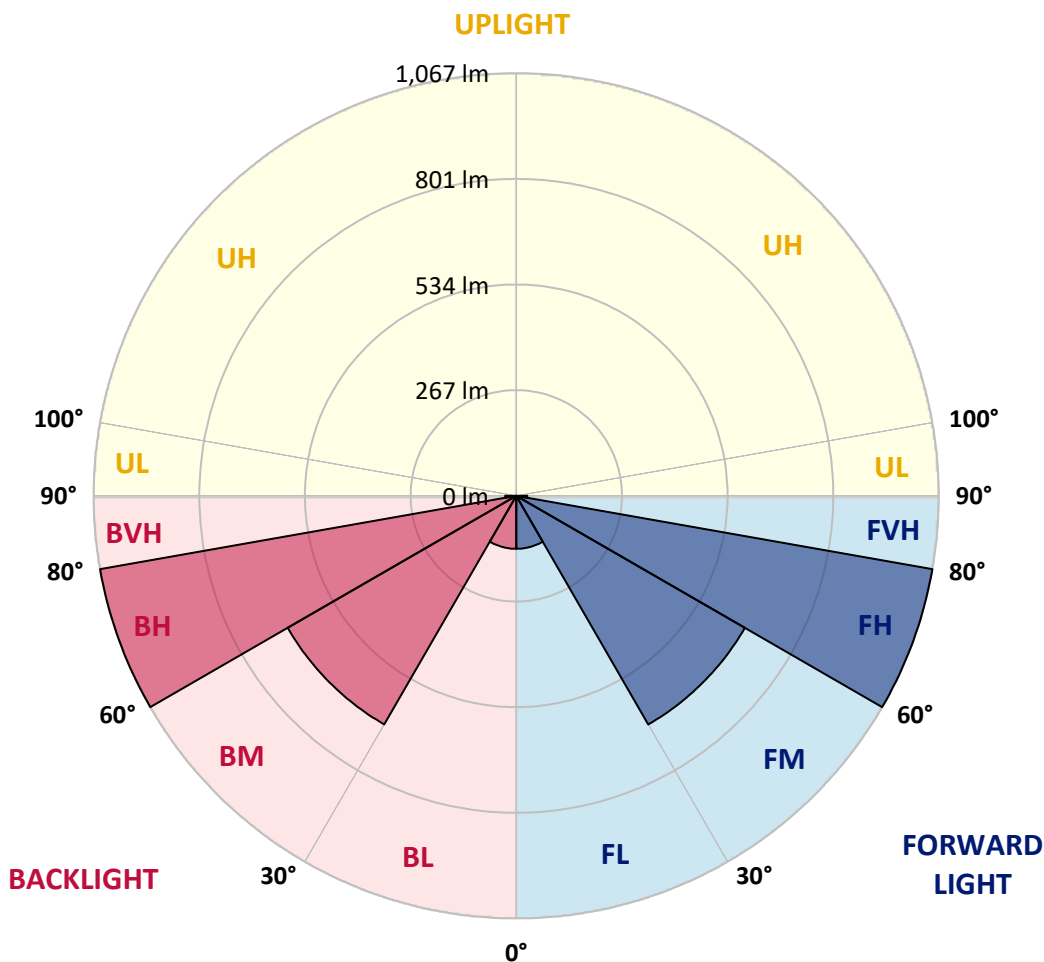


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.8	3.5			
FM (30°-60°)	666.8	17.6			
FH (60°-80°)	1067.5	28.1			G1/1800
FVH (80°-90°)	27.9	0.7			G1/100
BL (0°-30°)	133.8	3.5	B1/500		
BM (30°-60°)	666.8	17.6	B1/1000		
BH (60°-80°)	1067.5	28.1	B3/2500		G1/1800
BVH (80°-90°)	27.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	320.2	320.5	320.5	320.0	319.9	319.9	319.6	319.6	320.2	320.5	320.6
5°	317.4	317.4	317.4	317.3	316.8	316.8	316.4	316.4	316.6	317.3	316.8
7.5°	313.7	314.1	314.1	313.2	312.7	312.7	312.4	312.7	312.8	313.4	313.2
10°	312.4	312.7	311.6	310.2	309.2	308.7	308.8	309.2	310.2	310.6	310.9
12.5°	313.2	313.2	311.4	309.4	307.6	306.9	306.6	308.0	309.8	311.0	311.4
15°	314.2	313.8	311.6	309.1	307.2	307.0	306.9	307.8	310.5	312.8	313.0
17.5°	314.8	314.6	311.9	308.7	307.6	307.6	307.4	308.2	311.0	314.1	314.2
20°	316.8	316.3	313.0	309.6	308.8	309.2	308.7	309.6	312.7	316.3	317.0
22.5°	320.9	320.2	317.0	313.7	313.2	313.2	313.0	314.1	317.3	321.0	321.7
25°	325.6	325.0	322.0	319.6	320.0	320.9	320.5	320.6	323.2	326.4	327.5
27.5°	332.1	331.1	328.5	326.4	327.7	327.7	327.7	327.5	329.1	332.1	333.1
30°	339.9	339.5	336.7	336.5	337.5	336.5	336.5	336.7	336.8	339.7	340.7
32.5°	350.1	349.3	347.9	347.5	350.3	351.1	348.3	345.7	347.1	349.9	350.5
35°	366.9	365.7	363.7	361.5	363.7	367.5	361.5	359.5	363.1	366.9	367.3
37.5°	389.8	389.2	385.9	381.9	381.7	385.7	379.5	379.4	386.1	390.7	391.3
40°	418.4	419.0	415.0	411.2	409.2	412.4	407.6	409.4	416.0	421.2	420.8
42.5°	458.6	456.4	450.2	446.6	444.4	443.2	442.0	444.8	452.3	457.8	462.2
45°	505.7	504.9	497.1	492.7	487.9	486.1	485.7	490.7	499.7	506.5	507.1
47.5°	559.0	557.2	552.2	547.6	545.8	543.6	541.5	545.4	554.4	559.1	560.5
50°	613.9	614.3	614.3	613.5	615.3	615.7	610.3	611.7	616.7	616.2	615.8
52.5°	676.5	678.7	689.1	690.1	698.7	704.5	694.8	689.0	687.2	676.4	677.1
55°	750.3	752.2	767.9	783.5	806.7	816.5	795.9	777.9	765.1	748.6	749.4
57.5°	842.2	843.1	858.0	888.0	924.9	947.9	911.6	876.0	849.9	834.4	828.2
60°	941.1	942.1	963.7	1000.4	1057.7	1085.7	1040.8	982.6	949.7	925.9	927.5
62.5°	1059.9	1063.9	1083.3	1133.8	1203.2	1234.7	1175.2	1097.3	1052.8	1023.2	1024.4
65°	1187.0	1193.8	1215.1	1270.6	1334.6	1368.5	1295.6	1205.7	1150.4	1114.1	1118.0
67.5°	1269.6	1275.6	1306.2	1367.5	1447.4	1475.4	1381.3	1276.6	1207.5	1164.2	1156.2
70°	1248.5	1253.5	1294.4	1381.3	1499.7	1535.1	1401.7	1266.2	1184.8	1135.0	1131.7
72.5°	1102.2	1091.7	1151.4	1276.1	1440.0	1499.4	1337.4	1156.4	1054.1	1002.8	996.8
75°	730.4	753.0	841.2	988.1	1218.3	1292.0	1141.6	928.5	799.7	757.1	750.4
77.5°	244.1	261.6	339.9	560.2	830.5	941.3	831.8	607.2	429.6	346.1	347.7
80°	64.7	63.9	82.7	154.0	358.9	545.1	417.8	205.7	112.5	81.5	77.3
82.5°	23.3	26.1	33.4	42.7	95.1	169.4	119.6	57.7	42.3	31.2	30.2
85°	10.2	10.0	14.4	17.0	23.8	31.6	28.0	24.4	21.5	14.3	13.2
87.5°	2.2	2.2	3.4	2.6	4.2	4.2	5.2	6.2	6.4	4.2	3.4
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)