

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: P647590

Luminaire Tested: **GALN-SA8D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647590  
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-SA8D-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 41495.9 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

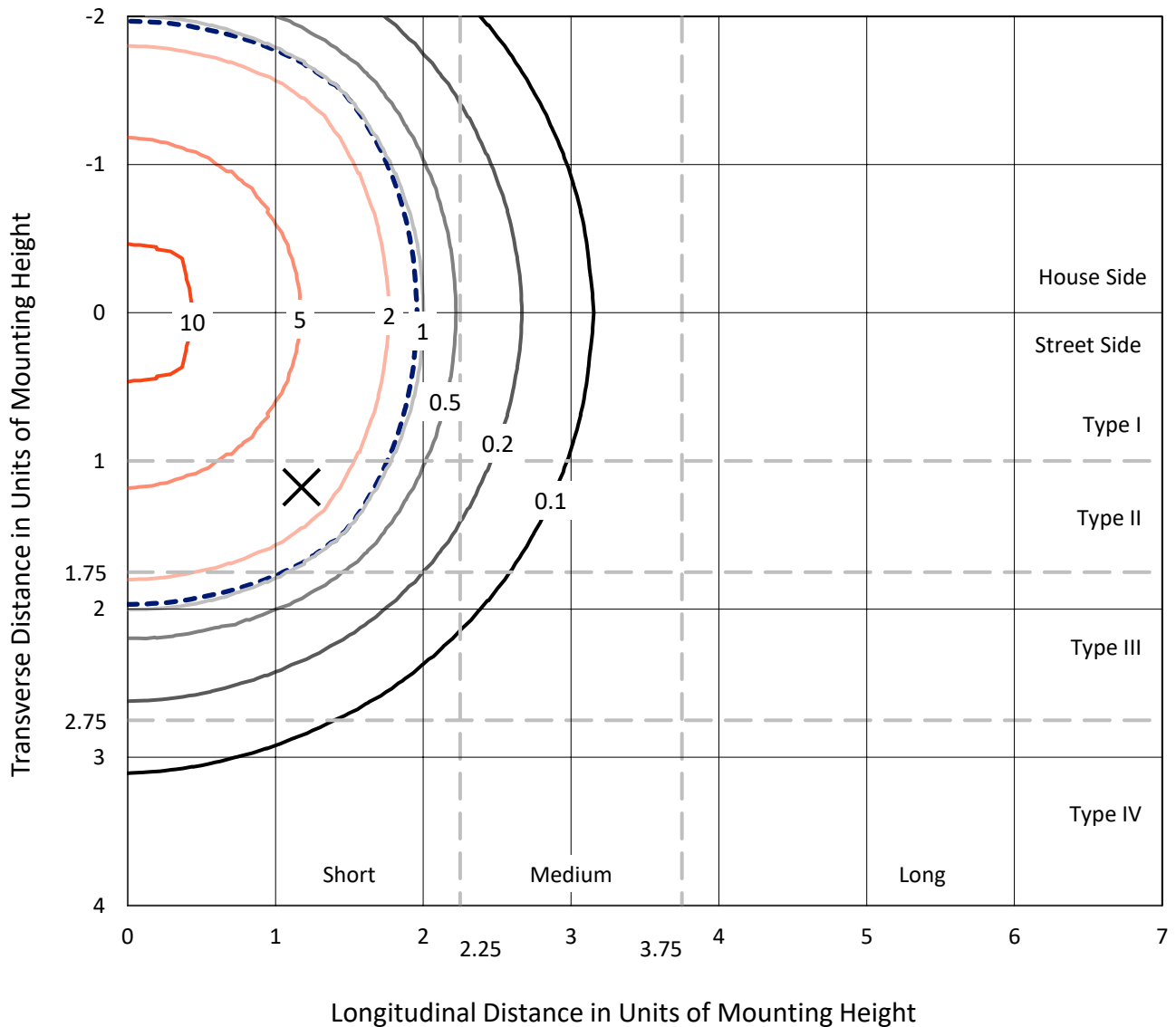
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

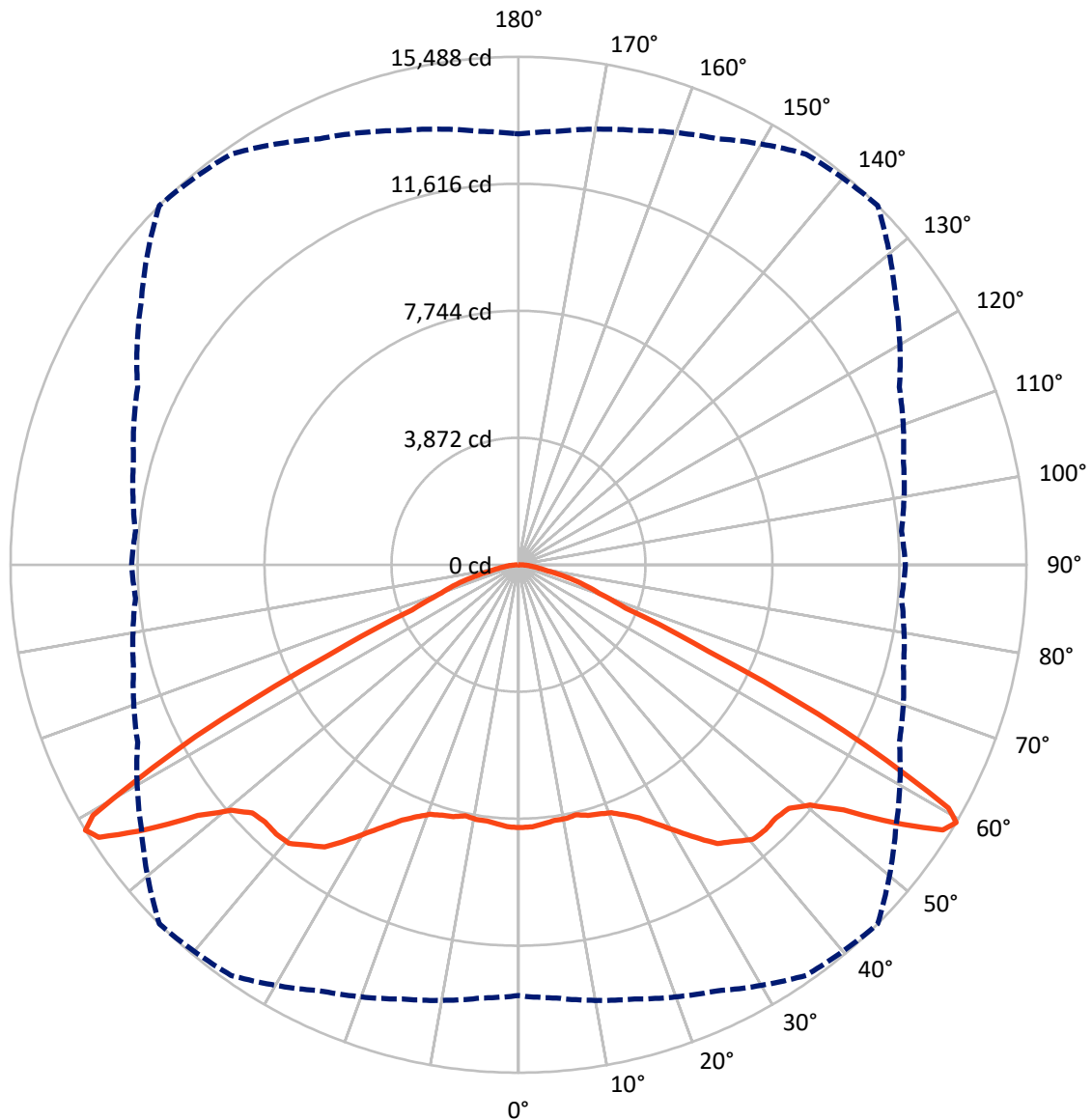
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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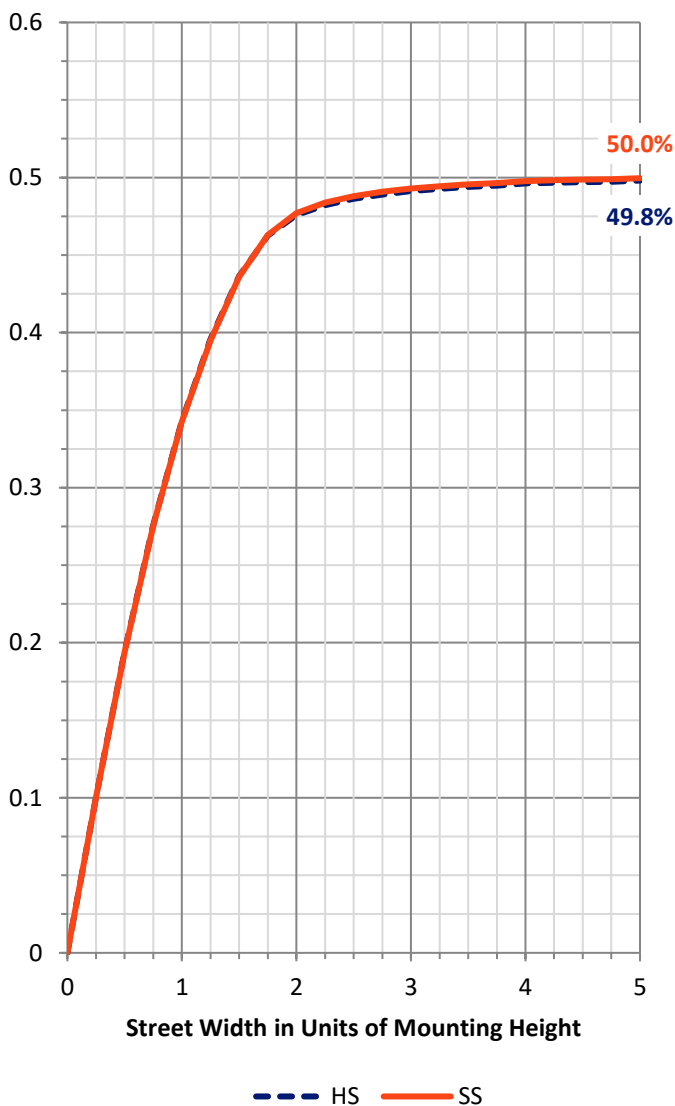
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20747.9	0.0	20747.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20747.9	0.0	20747.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41495.9	0.0	41495.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.6	1.8
10°-20°	2246.9	5.4
20°-30°	3923.3	9.5
30°-40°	6266.1	15.1
40°-50°	8535.7	20.6
50°-60°	11542.6	27.8
60°-70°	6330.0	15.3
70°-80°	1619.4	3.9
80°-90°	276.2	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°	41495.9	100.0
0°-180°	41495.9	100.0

**Coefficient of Utilization**

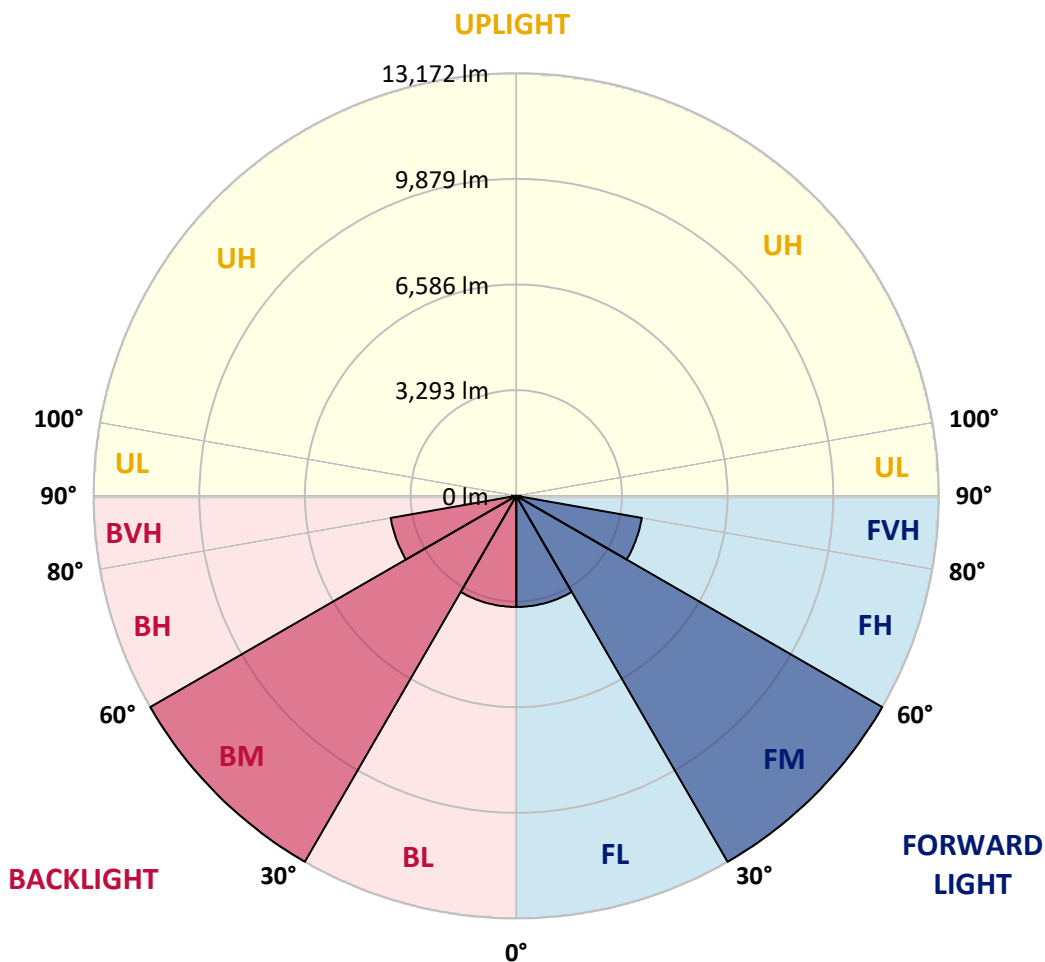


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3462.9	8.3			
FM (30°-60°)	13172.2	31.7			
FH (60°-80°)	3974.7	9.6			G2/5000
FVH (80°-90°)	138.1	0.3			G2/225
BL (0°-30°)	3462.9	8.3	B4/5000		
BM (30°-60°)	13172.2	31.7	B5		
BH (60°-80°)	3974.7	9.6	B4/5000		G2/5000
BVH (80°-90°)	138.1	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°	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0
2.5°	7967.2	8025.7	7983.1	8020.3	8015.0	7999.0	7972.5	7956.5	7935.2	7967.2	7913.9
5°	7935.2	7983.1	8031.0	7967.2	7967.2	7935.2	7919.3	7887.4	7887.4	7882.1	7876.7
7.5°	7988.4	7940.6	7919.3	7929.9	7940.6	7871.4	7919.3	7855.4	7802.3	7839.5	7882.1
10°	7940.6	7961.9	7882.1	7919.3	7860.8	7871.4	7839.5	7882.1	7823.6	7823.6	7823.6
12.5°	7988.4	7929.9	7956.5	7929.9	7913.9	7823.6	7866.1	7818.3	7812.9	7866.1	7818.3
15°	8084.2	7988.4	7967.2	7913.9	7929.9	7929.9	7887.4	7892.7	7834.1	7866.1	7876.7
17.5°	8052.2	7999.0	7983.1	7919.3	7972.5	7988.4	7908.6	7855.4	7892.7	7887.4	7882.1
20°	8078.8	8100.1	8084.2	8094.8	8116.1	8073.5	7999.0	7924.6	7876.7	7945.9	7940.6
22.5°	8249.1	8227.8	8217.1	8206.5	8243.7	8286.3	8185.2	8068.2	8068.2	8116.1	8137.3
25°	8387.3	8382.0	8376.7	8424.5	8552.2	8552.2	8424.5	8275.6	8238.4	8270.3	8243.7
27.5°	8589.4	8647.9	8626.6	8711.7	8897.9	8940.5	8770.2	8594.8	8493.7	8456.5	8504.3
30°	9052.1	8983.0	8998.9	9089.4	9254.2	9392.5	9131.9	8945.8	8807.5	8802.2	8823.5
32.5°	9360.6	9413.8	9461.7	9546.7	9807.4	9913.7	9600.0	9296.8	9211.7	9163.8	9179.7
35°	9977.5	9929.7	9919.0	10004.2	10264.7	10440.3	10046.7	9780.8	9669.1	9775.4	9775.4
37.5°	10562.6	10429.6	10328.6	10440.3	10679.6	10700.9	10365.8	10222.2	10163.7	10286.0	10280.7
40°	10839.1	10828.5	10594.5	10658.4	10977.4	11009.4	10695.5	10525.4	10514.8	10674.2	10833.8
42.5°	11126.4	11025.3	10791.3	10833.8	11030.6	11041.2	10743.4	10695.5	10812.5	10966.8	10977.4
45°	11174.2	11089.2	10940.2	10833.8	10977.4	11009.4	10833.8	10865.8	10876.4	11062.5	11062.5
47.5°	11270.0	11259.3	11174.2	11094.4	11121.0	11094.4	10982.7	11030.6	11190.2	11280.6	11238.0
50°	11535.9	11424.2	11509.3	11440.2	11445.5	11519.9	11418.9	11466.7	11434.9	11355.1	11301.9
52.5°	12120.9	12067.8	12142.2	12190.1	12243.2	12413.4	12296.5	12041.1	11801.8	11589.1	11583.8
55°	12977.2	13014.4	13158.0	13402.7	13610.1	13881.3	13317.6	12706.0	12323.0	11988.0	12009.3
57.5°	13785.7	13759.0	13955.8	14514.2	15120.6	15258.9	14152.6	13280.4	12658.1	12445.3	12355.0
59°	13136.8	13264.4	13711.2	14333.4	15285.4	15487.6	14040.9	12812.3	12152.9	11722.1	11796.5
60°	12115.6	12163.4	12562.4	13429.3	14716.3	15062.1	13291.0	12089.0	11211.5	10961.5	11073.2
62.5°	8562.8	8525.6	8812.8	9520.2	10674.2	11142.3	9881.9	9036.2	8483.0	8206.5	8270.3
65°	4552.7	4722.8	4839.9	5281.3	5892.9	6387.6	5866.3	5499.3	5190.9	4962.2	4956.9
67.5°	3074.1	3052.8	3079.5	3180.5	3387.9	3526.2	3515.5	3329.4	3302.8	3260.3	3308.1
70°	2590.1	2579.5	2531.6	2531.6	2574.2	2606.1	2643.3	2664.5	2707.1	2760.3	2755.0
72.5°	2100.8	2074.2	2042.3	2026.3	2079.6	2095.5	2143.4	2164.6	2201.9	2196.5	2244.4
75°	1388.1	1388.1	1425.4	1467.9	1483.9	1515.8	1521.1	1584.9	1584.9	1595.5	1553.0
77.5°	776.5	755.2	781.8	824.3	861.6	920.1	978.6	1026.5	1053.1	1042.4	1042.4
80°	452.1	452.1	478.6	526.6	574.4	627.6	670.2	707.4	734.0	723.3	702.0
82.5°	281.9	281.9	308.5	356.3	393.5	425.5	484.0	531.8	563.8	553.1	526.6
85°	143.6	143.6	175.5	207.4	255.3	276.6	271.2	249.9	244.7	218.1	218.1
87.5°	37.2	37.2	53.2	58.5	47.8	53.2	53.2	53.2	53.2	53.2	58.5
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)