

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: P647584

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
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-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43173 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

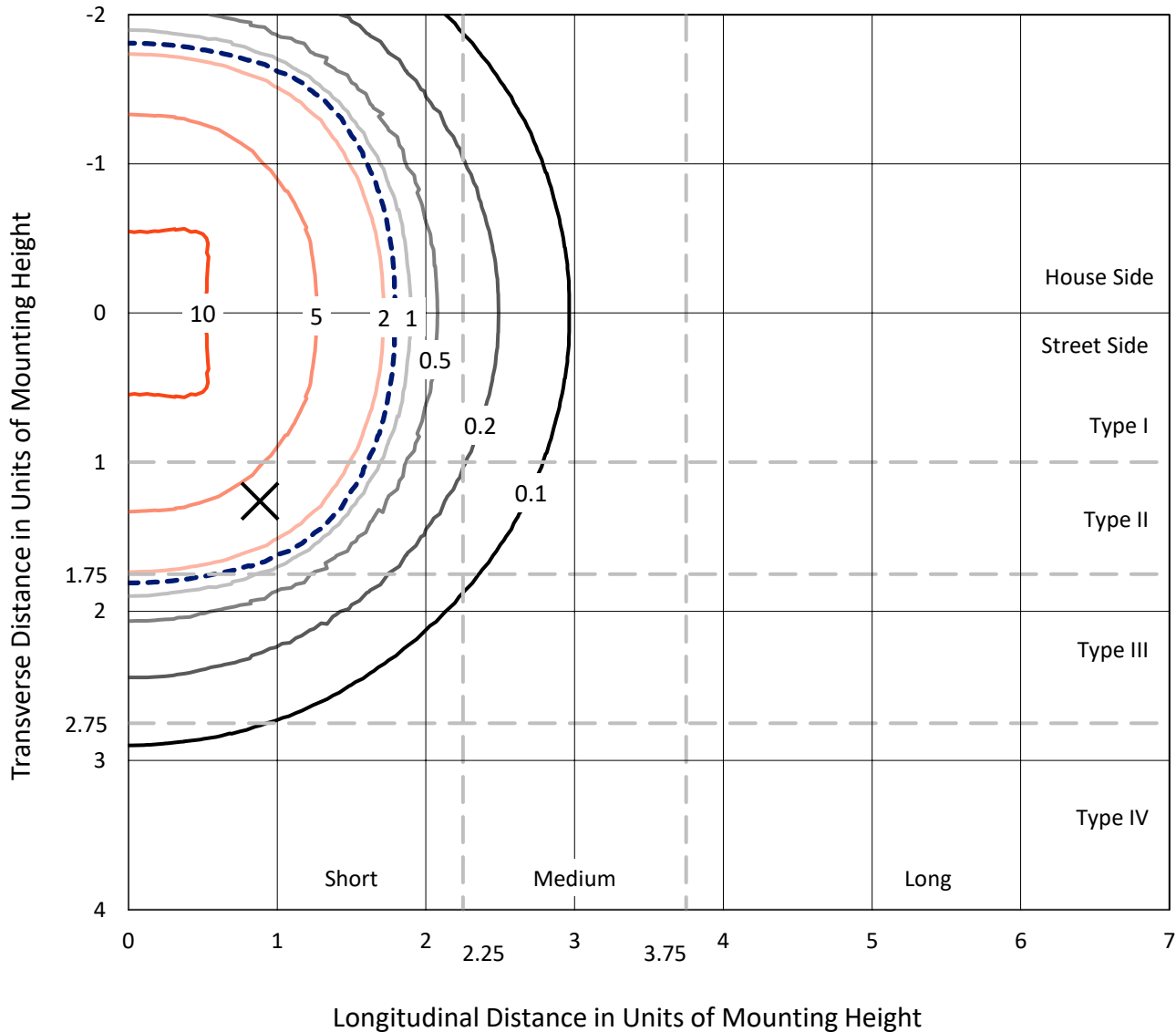
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

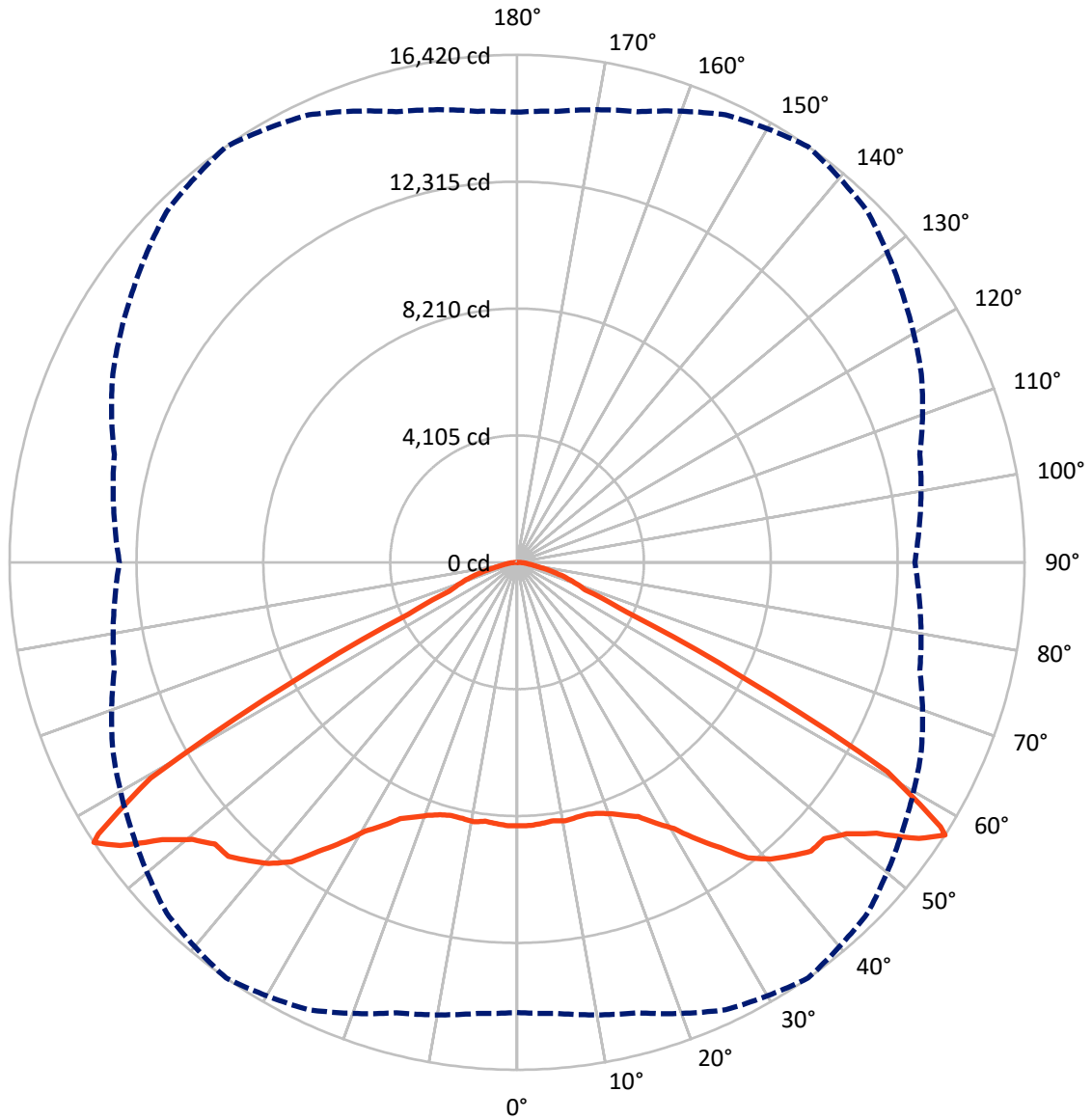
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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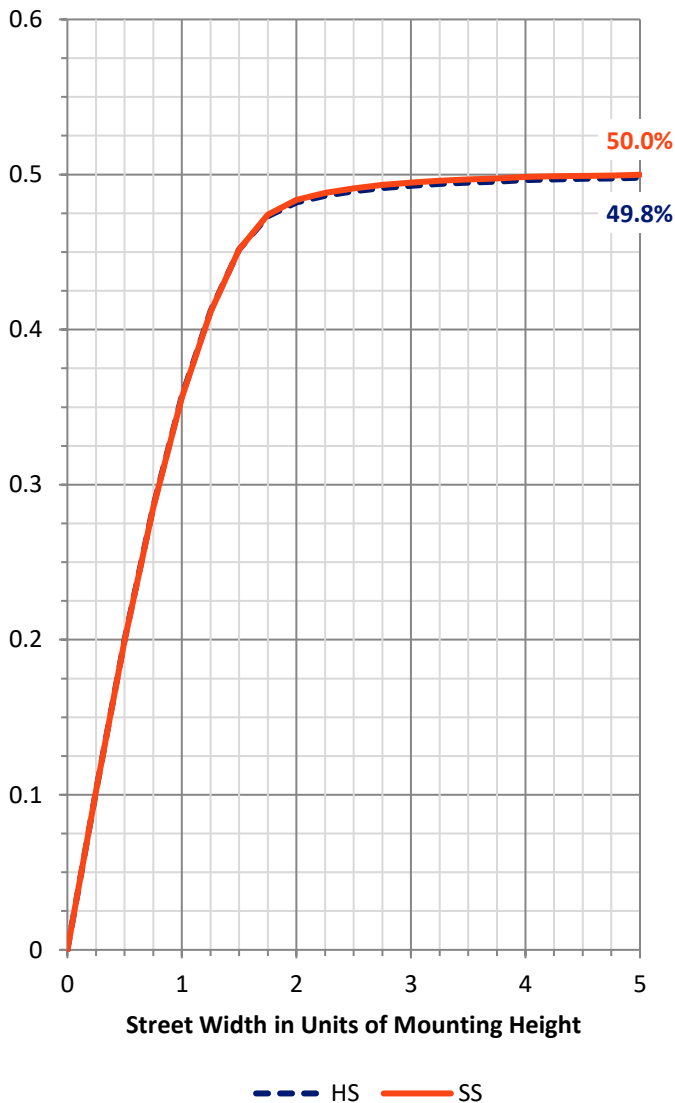
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21586.5	0.0	21586.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21586.5	0.0	21586.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43173.0	0.0	43173.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.3	1.9
10°-20°	2394.0	5.5
20°-30°	4181.2	9.7
30°-40°	6850.9	15.9
40°-50°	10045.2	23.3
50°-60°	12652.7	29.3
60°-70°	4758.5	11.0
70°-80°	1265.3	2.9
80°-90°	216.9	0.5
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°	43173.0	100.0
0°-180°	43173.0	100.0

**Coefficient of Utilization**



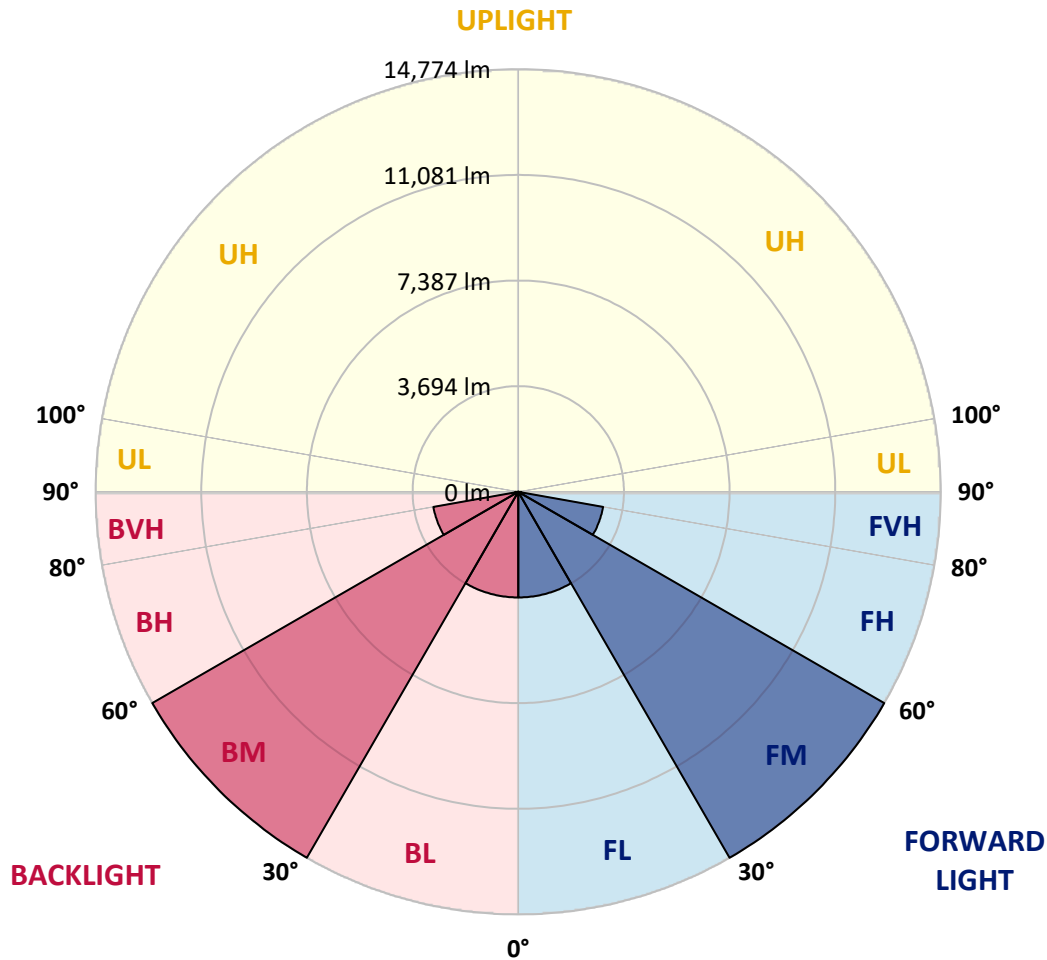
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3691.8	8.6			
FM (30°-60°)	14774.4	34.2			
FH (60°-80°)	3011.9	7.0			G2/5000
FVH (80°-90°)	108.5	0.3			G2/225
BL (0°-30°)	3691.8	8.6	B4/5000		
BM (30°-60°)	14774.4	34.2	B5		
BH (60°-80°)	3011.9	7.0	B4/5000		G2/5000
BVH (80°-90°)	108.5	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°	8526.3	8526.3	8526.3	8526.3	8526.3	8526.3	8526.3	8526.3	8526.3	8526.3	8526.3
2.5°	8483.8	8568.9	8531.6	8510.4	8526.3	8499.8	8457.2	8505.1	8494.5	8451.9	8436.0
5°	8462.5	8526.3	8483.8	8526.3	8483.8	8558.3	8537.0	8457.2	8552.9	8462.5	8494.5
7.5°	8446.6	8467.8	8478.5	8457.2	8441.3	8531.6	8483.8	8446.6	8393.4	8377.4	8404.0
10°	8409.3	8462.5	8382.7	8489.1	8510.4	8446.6	8446.6	8377.4	8334.9	8308.3	8398.7
12.5°	8505.1	8414.7	8404.0	8457.2	8473.2	8499.8	8425.3	8388.0	8308.3	8318.9	8302.9
15°	8393.4	8430.6	8436.0	8446.6	8462.5	8526.3	8457.2	8377.4	8345.5	8233.8	8244.4
17.5°	8436.0	8398.7	8436.0	8558.3	8537.0	8584.9	8510.4	8388.0	8313.6	8249.8	8334.9
20°	8510.4	8494.5	8510.4	8659.4	8685.9	8728.5	8664.7	8552.9	8409.3	8334.9	8377.4
22.5°	8590.2	8579.6	8590.2	8733.8	8888.1	8941.2	8877.4	8616.8	8542.3	8404.0	8356.2
25°	8733.8	8744.5	8856.1	9015.7	9116.8	9217.9	9100.8	8914.6	8675.3	8590.2	8489.1
27.5°	9053.0	9079.5	9143.3	9377.4	9552.9	9643.3	9478.4	9223.1	9074.2	8898.7	8872.1
30°	9446.6	9446.6	9558.2	9760.3	9999.7	10138.0	9935.9	9632.7	9451.8	9356.1	9297.6
32.5°	9967.8	9909.3	9951.9	10308.2	10680.6	10797.6	10526.3	10153.9	9866.7	9739.1	9696.5
35°	10414.6	10451.9	10547.6	10930.5	11345.4	11616.7	11191.2	10707.1	10414.6	10297.6	10276.3
37.5°	10994.3	11058.2	11106.1	11632.6	12132.7	12233.7	11824.2	11435.9	11079.4	10983.8	10930.5
40°	11813.5	11770.9	11786.9	12175.2	12627.3	12691.2	12286.9	12010.3	11717.8	11659.3	11659.3
42.5°	12489.0	12441.2	12494.3	12637.9	12983.7	12935.8	12712.4	12510.3	12387.9	12324.1	12387.9
45°	12898.6	12887.9	12983.7	13090.0	13334.7	13175.1	12999.7	13031.5	12914.6	12808.2	12802.8
47.5°	13345.4	13276.2	13393.2	13552.8	13366.7	13292.2	13281.6	13350.7	13313.4	13127.3	13068.8
50°	13563.4	13536.9	13723.0	13909.2	13808.1	13637.9	13675.2	13786.8	13308.2	13058.2	12914.6
52.5°	14148.6	14153.9	14510.2	14611.3	14568.7	14318.7	14398.5	14095.3	13531.6	13180.5	13196.4
55°	15068.8	15031.5	15430.4	15728.3	15776.2	15457.0	15074.1	14648.5	13941.1	13584.7	13478.3
57°	14563.4	14648.5	15090.0	15973.0	16419.7	16042.1	15207.0	14430.5	13489.0	13058.2	12866.6
57.5°	13887.9	14026.2	14792.1	15680.4	16148.5	16116.6	15042.1	14026.2	13185.8	12515.6	12531.6
60°	10175.2	10201.9	10893.3	12302.9	13765.6	13797.5	12489.0	11143.3	10207.2	9478.4	9579.5
62.5°	5366.8	5489.2	5765.8	6898.8	8164.7	8473.2	7680.6	6989.1	6180.7	5627.5	5680.7
65°	2840.3	2824.4	2957.4	3276.5	3898.8	4058.4	3952.0	3404.2	3122.3	3031.9	3037.2
67.5°	2308.4	2335.1	2319.1	2335.1	2377.6	2446.7	2430.7	2452.0	2468.0	2494.6	2489.3
70°	1957.4	1957.4	1968.0	1973.3	1973.3	2005.3	2042.5	2111.7	2117.0	2143.5	2154.2
72.5°	1542.5	1531.9	1547.8	1585.0	1590.4	1617.0	1670.1	1712.7	1728.7	1728.7	1696.8
75°	1047.8	1058.5	1079.8	1111.7	1143.6	1191.5	1234.0	1260.6	1271.3	1255.3	1239.3
77.5°	590.4	601.0	617.0	664.8	702.1	744.6	792.6	819.1	845.7	851.0	819.1
80°	351.0	351.0	377.6	414.9	457.4	500.0	542.5	574.5	585.1	585.1	569.2
82.5°	212.7	218.1	239.4	276.6	313.8	340.4	377.6	404.3	425.5	420.2	409.6
85°	111.7	111.7	133.0	164.9	191.5	218.1	218.1	202.1	191.5	164.9	154.3
87.5°	37.3	31.9	42.5	42.5	37.3	42.5	42.5	47.8	47.8	47.8	47.8
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)