

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: P651550

Luminaire Tested: **GALN-SA8D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651550  
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-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 44569.7 lumens  
Efficiency: N/A  
Efficacy: 90.4 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

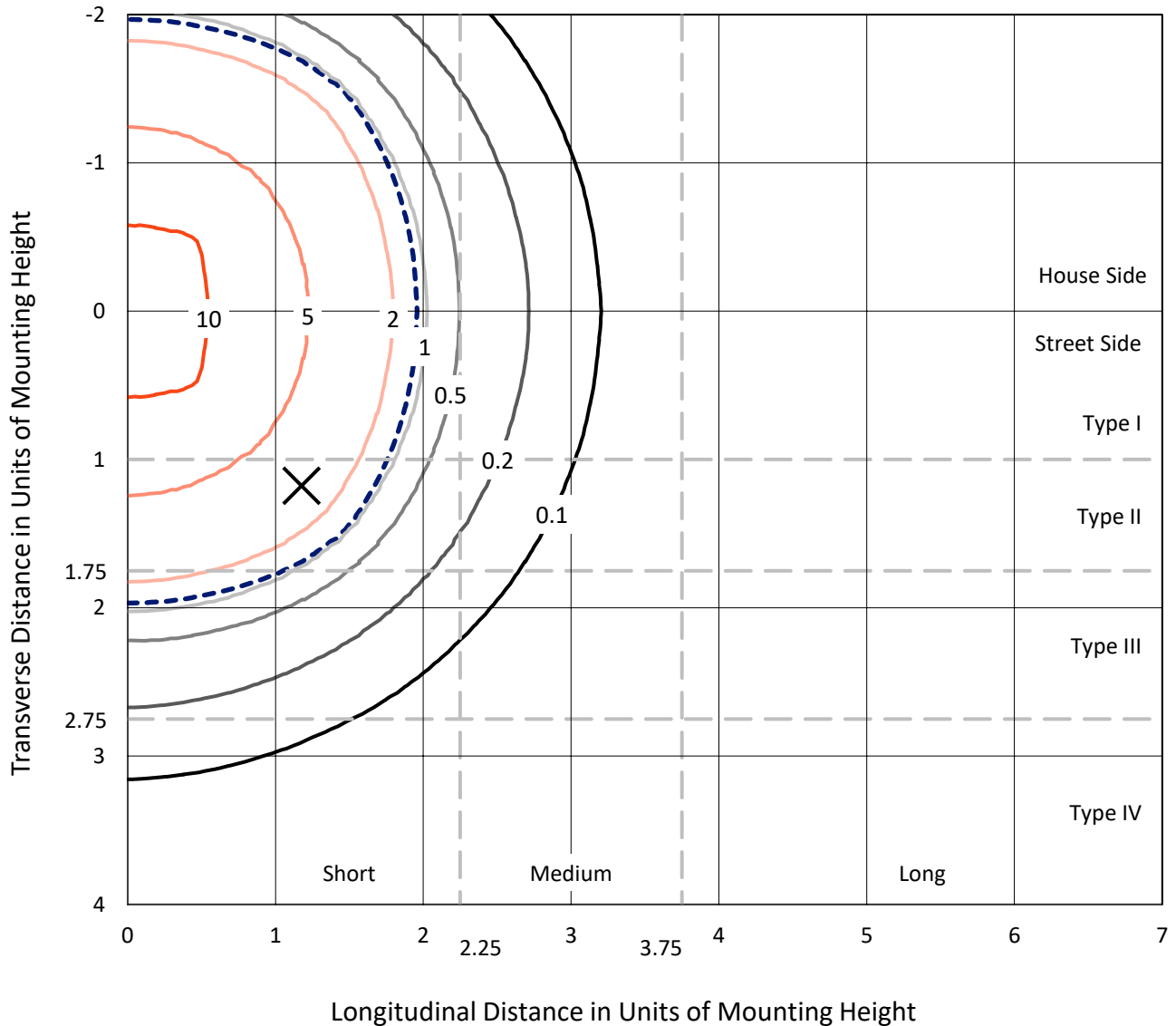
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

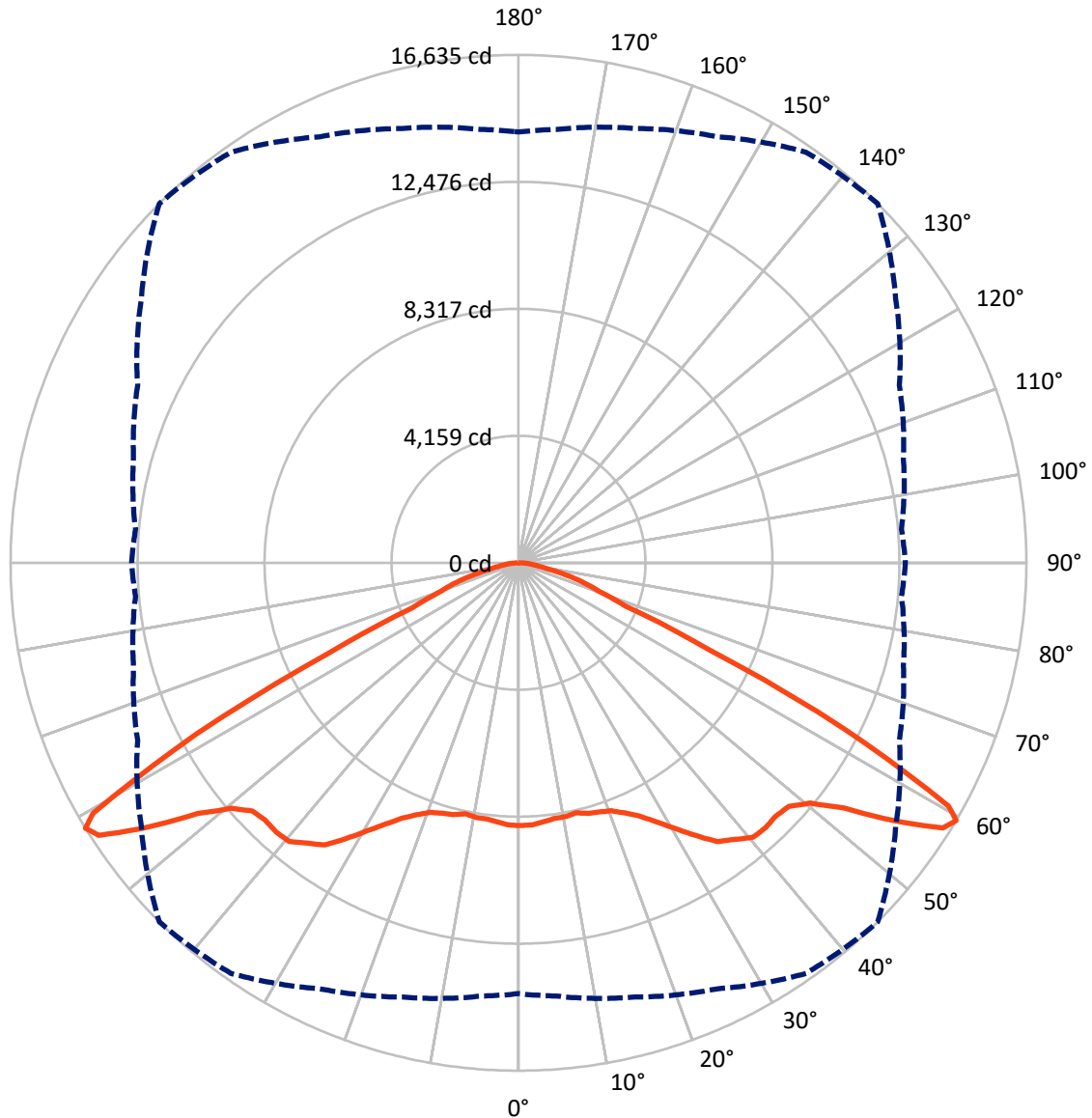
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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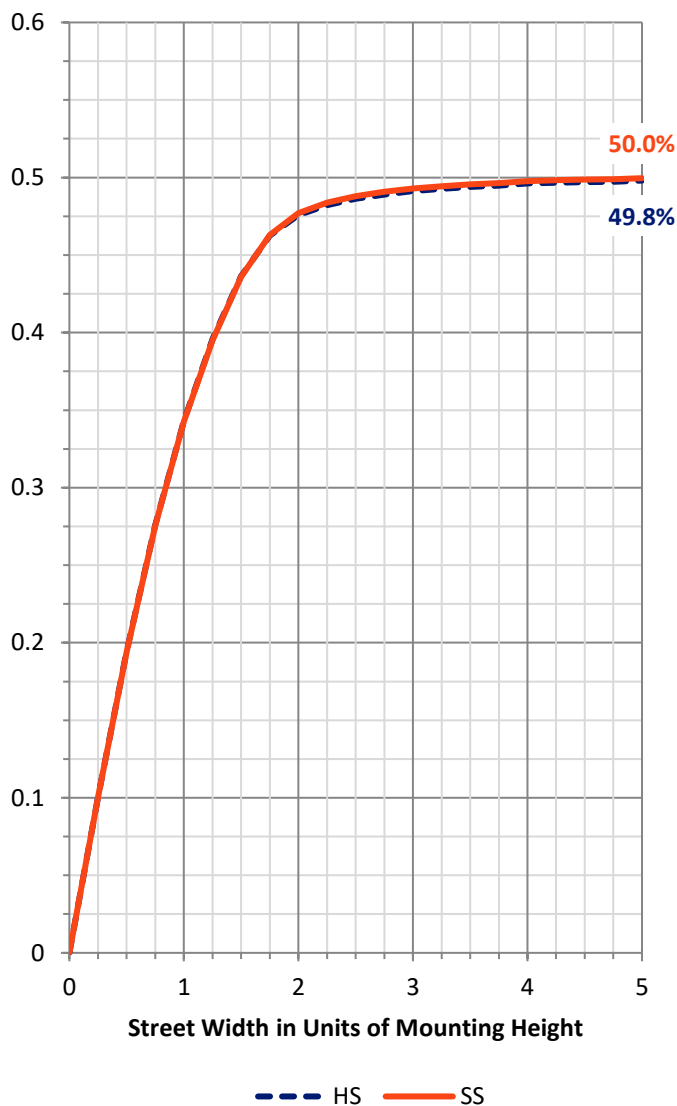
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22284.8	0.0	22284.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22284.8	0.0	22284.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44569.7	0.0	44569.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	811.5	1.8
10°-20°	2413.3	5.4
20°-30°	4214.0	9.5
30°-40°	6730.3	15.1
40°-50°	9168.0	20.6
50°-60°	12397.6	27.8
60°-70°	6798.9	15.3
70°-80°	1739.4	3.9
80°-90°	296.6	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°	44569.7	100.0
0°-180°	44569.7	100.0

**Coefficient of Utilization**



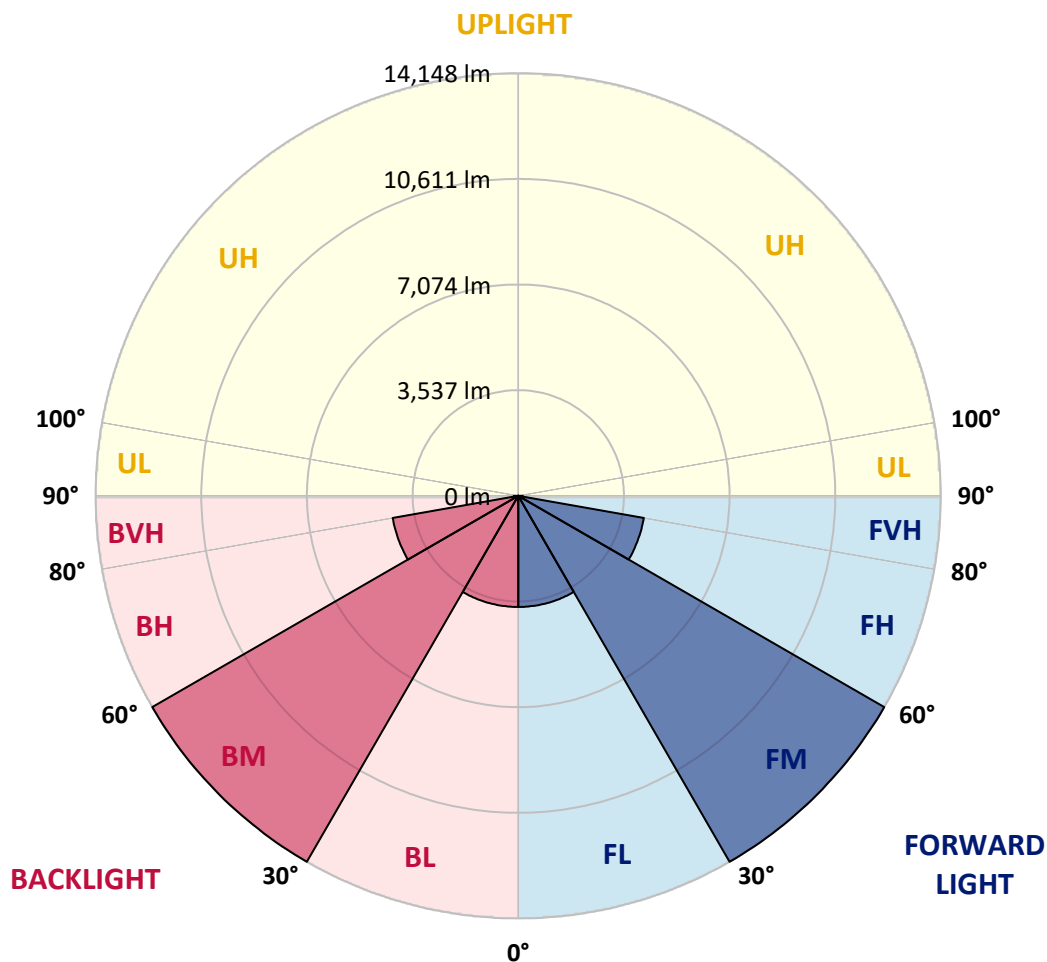
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3719.4	8.3			
FM (30°-60°)	14148.0	31.7			
FH (60°-80°)	4269.1	9.6			G2/5000
FVH (80°-90°)	148.3	0.3			G2/225
BL (0°-30°)	3719.4	8.3	B4/5000		
BM (30°-60°)	14148.0	31.7	B5		
BH (60°-80°)	4269.1	9.6	B4/5000		G2/5000
BVH (80°-90°)	148.3	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°	8608.7	8608.7	8608.7	8608.7	8608.7	8608.7	8608.7	8608.7	8608.7	8608.7	8608.7
2.5°	8557.3	8620.2	8574.4	8614.4	8608.7	8591.6	8563.1	8545.9	8523.0	8557.3	8500.2
5°	8523.0	8574.4	8625.9	8557.3	8557.3	8523.0	8505.9	8471.6	8471.6	8465.9	8460.2
7.5°	8580.1	8528.7	8505.9	8517.3	8528.7	8454.5	8505.9	8437.3	8380.2	8420.2	8465.9
10°	8528.7	8551.6	8465.9	8505.9	8443.1	8454.5	8420.2	8465.9	8403.1	8403.1	8403.1
12.5°	8580.1	8517.3	8545.9	8517.3	8500.2	8403.1	8448.8	8397.4	8391.7	8448.8	8397.4
15°	8683.0	8580.1	8557.3	8500.2	8517.3	8517.3	8471.6	8477.4	8414.5	8448.8	8460.2
17.5°	8648.7	8591.6	8574.4	8505.9	8563.1	8580.1	8494.4	8437.3	8477.4	8471.6	8465.9
20°	8677.3	8700.1	8683.0	8694.4	8717.3	8671.6	8591.6	8511.6	8460.2	8534.5	8528.7
22.5°	8860.1	8837.2	8825.8	8814.4	8854.4	8900.1	8791.6	8665.8	8665.8	8717.3	8740.1
25°	9008.6	9002.9	8997.2	9048.6	9185.7	9185.7	9048.6	8888.6	8848.7	8882.9	8854.4
27.5°	9225.7	9288.5	9265.6	9357.1	9557.0	9602.7	9419.9	9231.4	9122.8	9082.9	9134.3
30°	9722.6	9648.4	9665.5	9762.7	9939.7	10088.2	9808.3	9608.4	9459.9	9454.2	9477.1
32.5°	10054.0	10111.1	10162.6	10253.9	10533.9	10648.1	10311.1	9985.4	9894.0	9842.6	9859.7
35°	10716.6	10665.2	10653.8	10745.2	11025.1	11213.6	10790.9	10505.3	10385.3	10499.5	10499.5
37.5°	11345.0	11202.2	11093.6	11213.6	11470.7	11493.5	11133.7	10979.4	10916.6	11048.0	11042.2
40°	11642.0	11630.6	11379.3	11447.9	11790.6	11824.9	11487.8	11305.1	11293.6	11464.9	11636.3
42.5°	11950.5	11842.0	11590.7	11636.3	11847.7	11859.1	11539.2	11487.8	11613.5	11779.1	11790.6
45°	12001.9	11910.6	11750.6	11636.3	11790.6	11824.9	11636.3	11670.6	11682.1	11882.0	11882.0
47.5°	12104.8	12093.3	12001.9	11916.2	11944.8	11916.2	11796.3	11847.7	12019.1	12116.2	12070.5
50°	12390.4	12270.4	12361.9	12287.6	12293.3	12373.2	12264.7	12316.1	12281.9	12196.2	12139.1
52.5°	13018.8	12961.7	13041.6	13093.0	13150.1	13333.0	13207.3	12933.1	12676.1	12447.6	12441.8
55°	13938.5	13978.4	14132.7	14395.5	14618.3	14909.6	14304.1	13647.2	13235.8	12876.0	12898.8
57.5°	14806.8	14778.2	14989.6	15589.4	16240.6	16389.2	15200.9	14264.1	13595.7	13367.2	13270.1
59°	14109.9	14247.0	14726.8	15395.2	16417.7	16634.8	15081.0	13761.4	13053.1	12590.4	12670.3
60°	13013.0	13064.4	13492.9	14424.1	15806.4	16177.8	14275.5	12984.5	12041.9	11773.4	11893.4
62.5°	9197.1	9157.1	9465.6	10225.4	11464.9	11967.7	10613.8	9705.6	9111.4	8814.4	8882.9
65°	4889.9	5072.7	5198.4	5672.5	6329.5	6860.7	6300.9	5906.7	5575.4	5329.8	5324.0
67.5°	3301.9	3279.0	3307.6	3416.1	3638.8	3787.4	3775.9	3576.0	3547.4	3501.8	3553.1
70°	2781.9	2770.6	2719.1	2719.1	2764.9	2799.1	2839.1	2861.9	2907.7	2964.8	2959.1
72.5°	2256.4	2227.9	2193.6	2176.4	2233.6	2250.7	2302.2	2324.9	2365.0	2359.3	2410.6
75°	1490.9	1490.9	1531.0	1576.6	1593.8	1628.1	1633.8	1702.4	1702.4	1713.7	1668.0
77.5°	834.0	811.1	839.7	885.4	925.4	988.3	1051.1	1102.6	1131.1	1119.6	1119.6
80°	485.6	485.6	514.1	565.6	617.0	674.1	719.8	759.8	788.4	776.9	754.0
82.5°	302.8	302.8	331.4	382.7	422.7	457.0	519.8	571.2	605.5	594.1	565.6
85°	154.2	154.2	188.6	222.8	274.2	297.0	291.3	268.4	262.8	234.2	234.2
87.5°	39.9	39.9	57.1	62.8	51.4	57.1	57.1	57.1	57.1	57.1	62.8
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)