

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: P647419

Luminaire Tested: **GALN-SA5D-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647419  
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-SA5D-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 26774.7 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

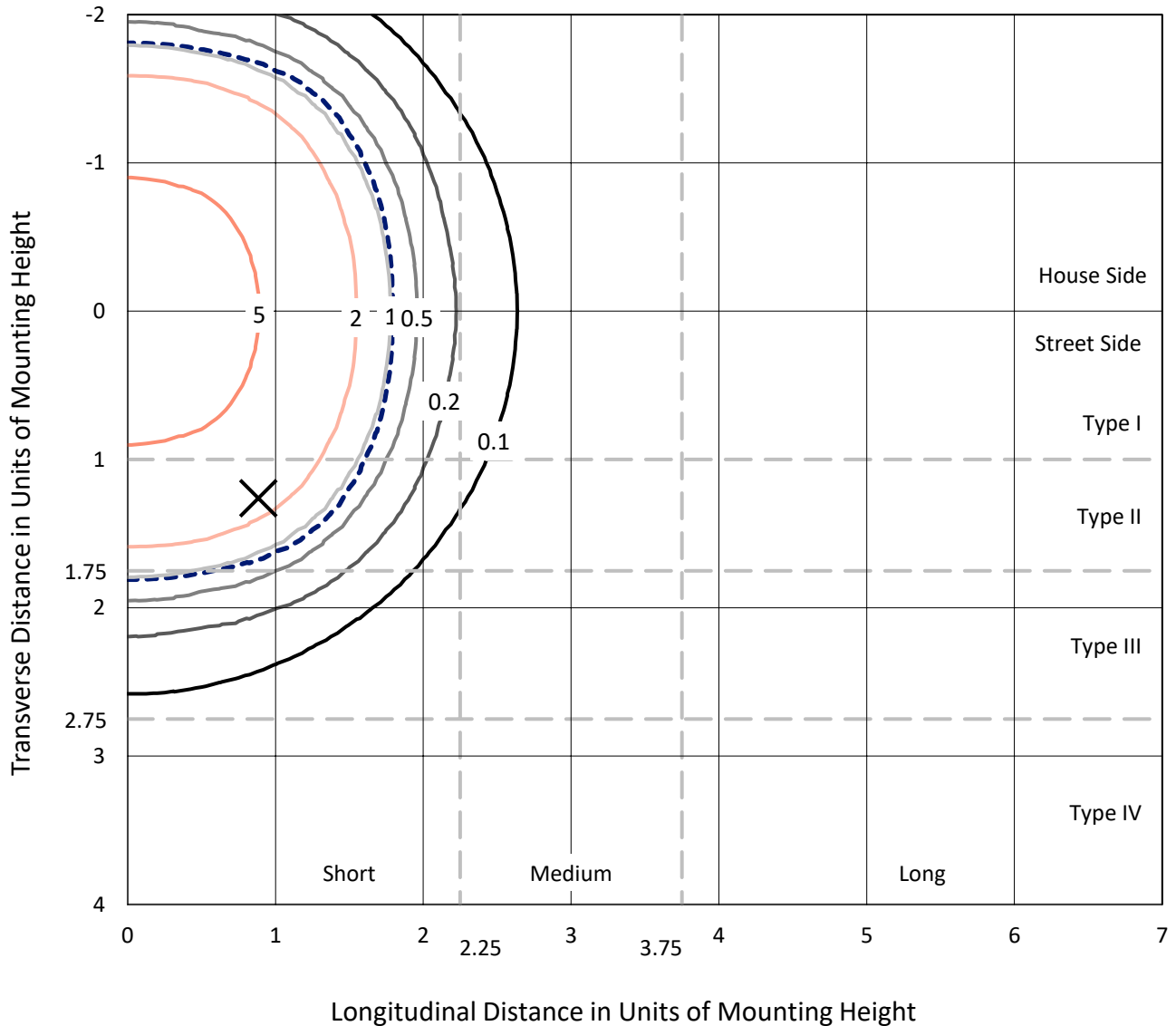
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

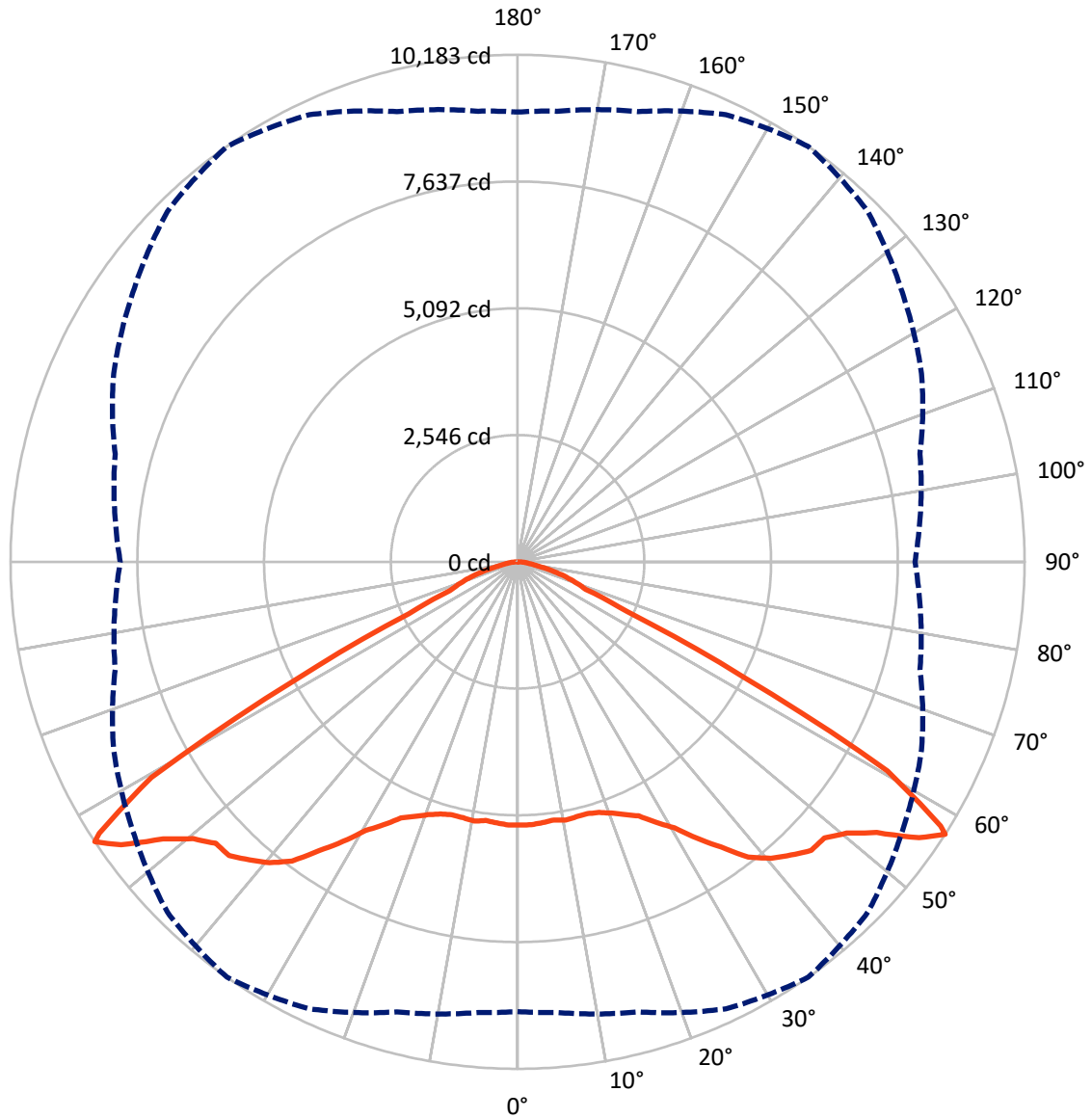
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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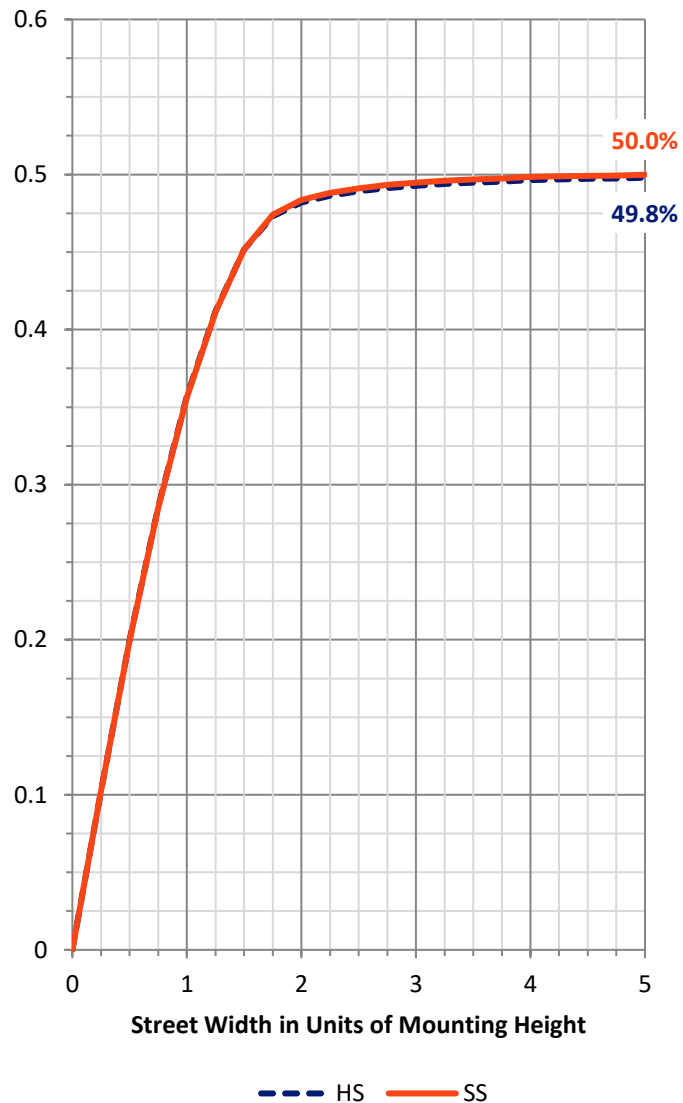
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13387.4	0.0	13387.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13387.4	0.0	13387.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26774.7	0.0	26774.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.3	1.9
10°-20°	1484.7	5.5
20°-30°	2593.0	9.7
30°-40°	4248.8	15.9
40°-50°	6229.7	23.3
50°-60°	7846.8	29.3
60°-70°	2951.1	11.0
70°-80°	784.7	2.9
80°-90°	134.6	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°	26774.7	100.0
0°-180°	26774.7	100.0

**Coefficient of Utilization**

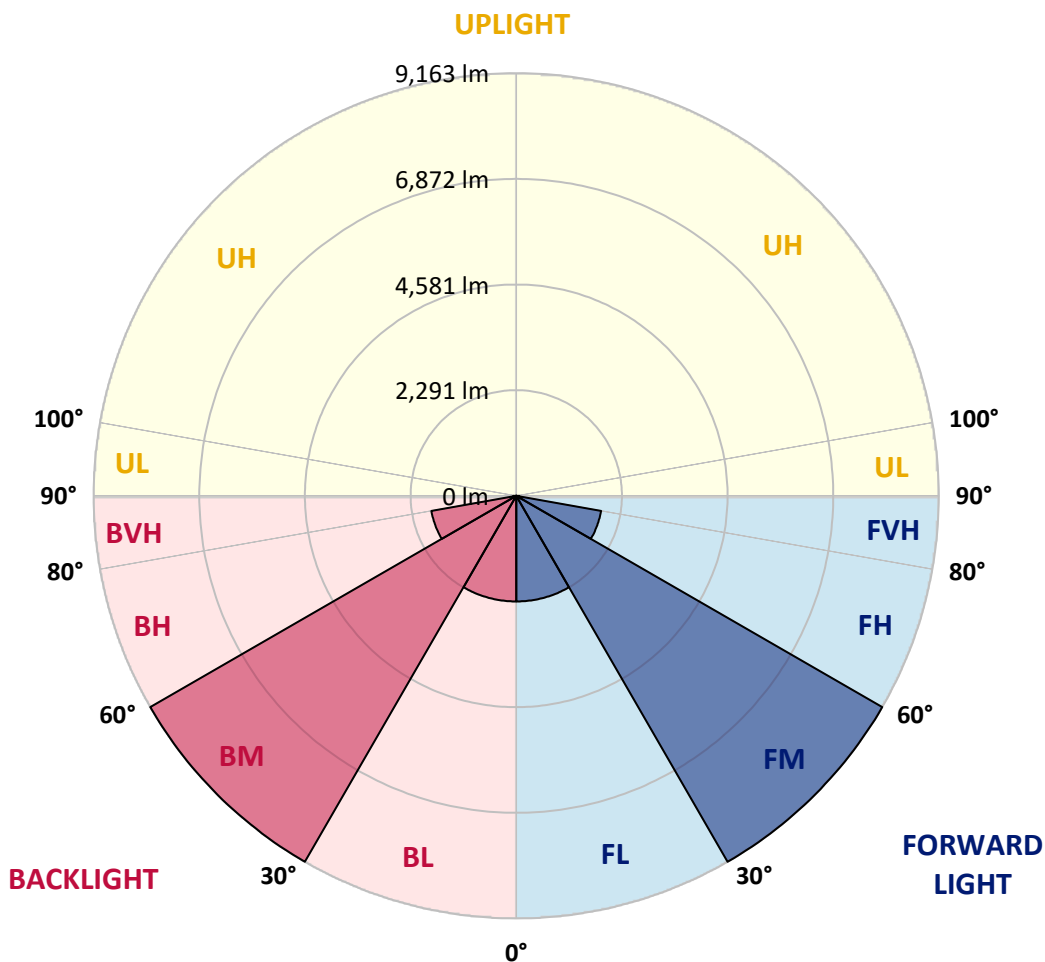


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.5	8.6			
FM (30°-60°)	9162.6	34.2			
FH (60°-80°)	1867.9	7.0			G2/5000
FVH (80°-90°)	67.3	0.3			G1/100
BL (0°-30°)	2289.5	8.6	B3/2500		
BM (30°-60°)	9162.6	34.2	B5		
BH (60°-80°)	1867.9	7.0	B3/2500		G2/5000
BVH (80°-90°)	67.3	0.3			G1/100
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°	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8	5287.8
2.5°	5261.4	5314.2	5291.1	5277.9	5287.8	5271.3	5244.9	5274.6	5268.0	5241.6	5231.7
5°	5248.2	5287.8	5261.4	5287.8	5261.4	5307.6	5294.4	5244.9	5304.3	5248.2	5268.0
7.5°	5238.3	5251.5	5258.1	5244.9	5235.1	5291.1	5261.4	5238.3	5205.3	5195.4	5212.0
10°	5215.2	5248.2	5198.7	5264.7	5277.9	5238.3	5238.3	5195.4	5169.1	5152.5	5208.7
12.5°	5274.6	5218.5	5212.0	5244.9	5254.8	5271.3	5225.1	5202.0	5152.5	5159.2	5149.2
15°	5205.3	5228.4	5231.7	5238.3	5248.2	5287.8	5244.9	5195.4	5175.6	5106.4	5113.0
17.5°	5231.7	5208.7	5231.7	5307.6	5294.4	5324.1	5277.9	5202.0	5155.8	5116.3	5169.1
20°	5277.9	5268.0	5277.9	5370.3	5386.7	5413.2	5373.6	5304.3	5215.2	5169.1	5195.4
22.5°	5327.4	5320.8	5327.4	5416.5	5512.1	5545.1	5505.5	5343.9	5297.7	5212.0	5182.2
25°	5416.5	5423.1	5492.4	5591.2	5654.0	5716.6	5644.1	5528.6	5380.1	5327.4	5264.7
27.5°	5614.3	5630.9	5670.5	5815.6	5924.4	5980.6	5878.3	5719.9	5627.6	5518.7	5502.2
30°	5858.5	5858.5	5927.8	6053.1	6201.5	6287.3	6162.0	5973.9	5861.8	5802.4	5766.1
32.5°	6181.8	6145.5	6171.8	6392.9	6623.8	6696.4	6528.1	6297.2	6119.1	6039.9	6013.5
35°	6458.8	6481.9	6541.3	6778.8	7036.1	7204.3	6940.4	6640.2	6458.8	6386.3	6373.1
37.5°	6818.4	6858.0	6887.7	7214.2	7524.3	7587.0	7333.0	7092.2	6871.1	6811.8	6778.8
40°	7326.4	7300.0	7309.9	7550.7	7831.1	7870.7	7620.0	7448.4	7267.0	7230.8	7230.8
42.5°	7745.4	7715.6	7748.6	7837.7	8052.1	8022.4	7883.9	7758.5	7682.6	7643.1	7682.6
45°	7999.4	7992.7	8052.1	8118.1	8269.8	8170.8	8062.0	8081.8	8009.2	7943.2	7939.9
47.5°	8276.4	8233.6	8306.1	8405.0	8289.6	8243.4	8236.8	8279.8	8256.7	8141.2	8104.9
50°	8411.7	8395.2	8510.7	8626.1	8563.4	8457.8	8480.9	8550.2	8253.3	8098.3	8009.2
52.5°	8774.5	8777.8	8998.9	9061.5	9035.1	8880.1	8929.6	8741.6	8391.9	8174.1	8184.1
55°	9345.2	9322.1	9569.5	9754.2	9783.9	9586.0	9348.5	9084.6	8645.9	8424.8	8358.9
57°	9031.8	9084.6	9358.4	9906.0	10183.1	9948.9	9430.9	8949.4	8365.5	8098.3	7979.6
57.5°	8612.9	8698.7	9173.6	9724.5	10014.8	9995.1	9328.7	8698.7	8177.5	7761.8	7771.7
60°	6310.4	6326.9	6755.7	7629.9	8537.0	8556.8	7745.4	6910.8	6330.2	5878.3	5940.9
62.5°	3328.4	3404.2	3575.8	4278.4	5063.5	5254.8	4763.3	4334.5	3833.1	3490.0	3523.0
65°	1761.5	1751.6	1834.1	2032.0	2417.9	2516.9	2450.9	2111.1	1936.4	1880.2	1883.6
67.5°	1431.6	1448.2	1438.2	1448.2	1474.5	1517.4	1507.5	1520.7	1530.6	1547.1	1543.8
70°	1213.9	1213.9	1220.5	1223.8	1223.8	1243.6	1266.7	1309.6	1312.9	1329.4	1336.0
72.5°	956.6	950.0	960.0	983.0	986.3	1002.8	1035.8	1062.2	1072.1	1072.1	1052.3
75°	649.8	656.5	669.6	689.4	709.2	738.9	765.3	781.8	788.4	778.5	768.6
77.5°	366.1	372.8	382.7	412.3	435.4	461.8	491.5	508.0	524.5	527.8	508.0
80°	217.8	217.8	234.2	257.3	283.7	310.1	336.5	356.3	362.8	362.8	353.0
82.5°	131.9	135.2	148.5	171.6	194.7	211.1	234.2	250.7	263.9	260.6	254.0
85°	69.3	69.3	82.4	102.3	118.8	135.2	135.2	125.4	118.8	102.3	95.7
87.5°	23.1	19.8	26.4	26.4	23.1	26.4	26.4	29.7	29.7	29.7	29.7
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)