

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: P647422

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27322.8 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

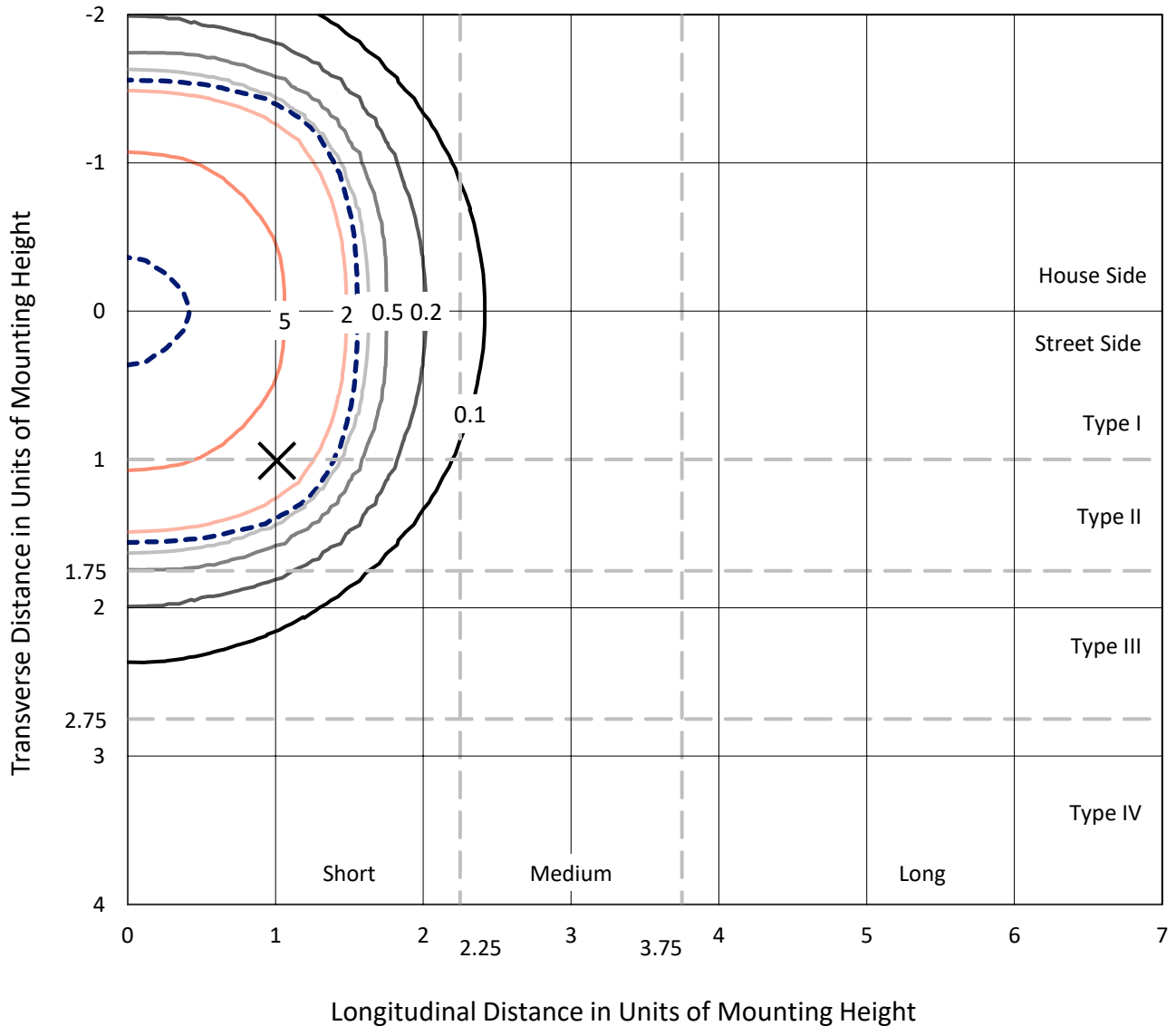
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

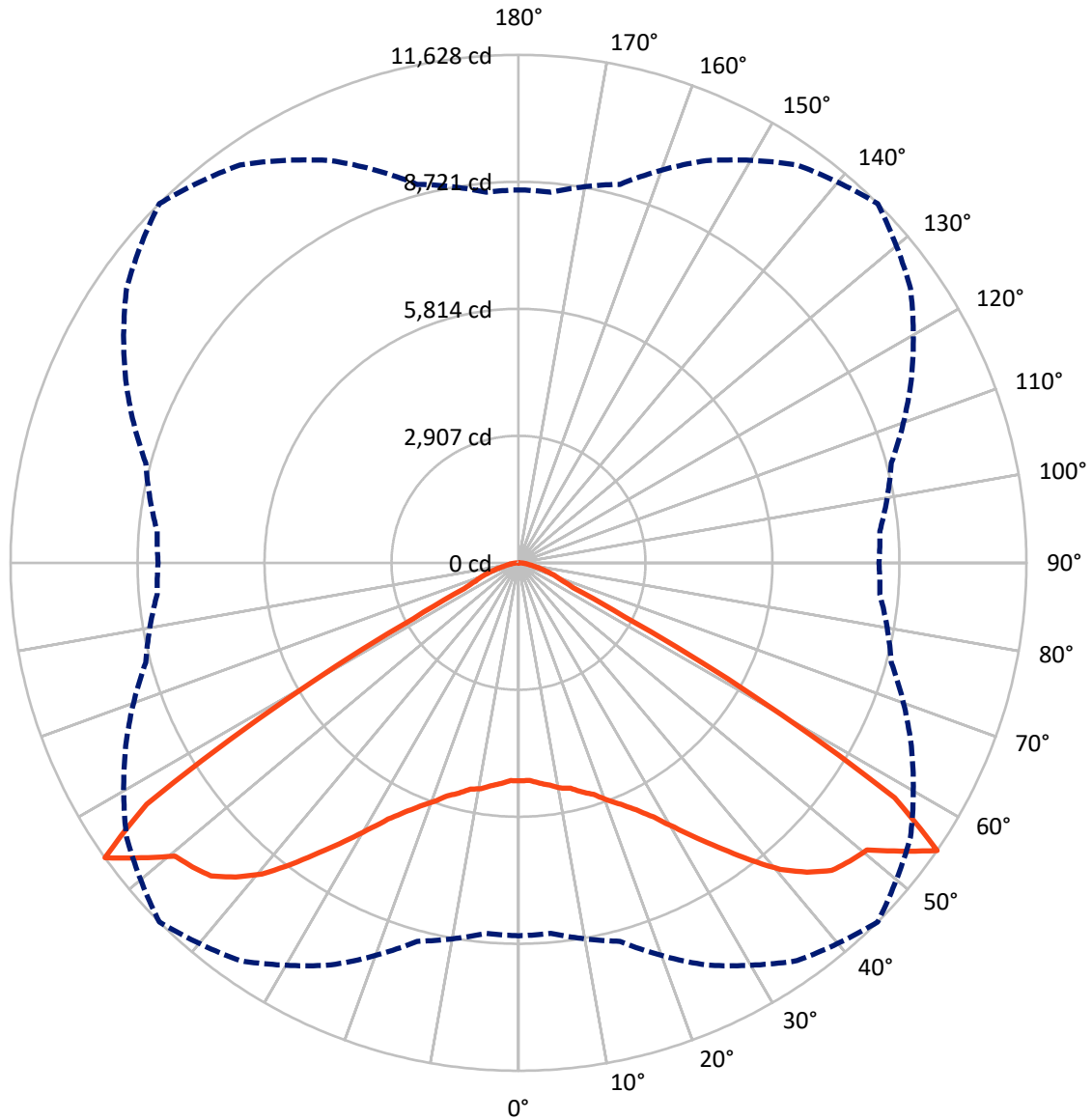
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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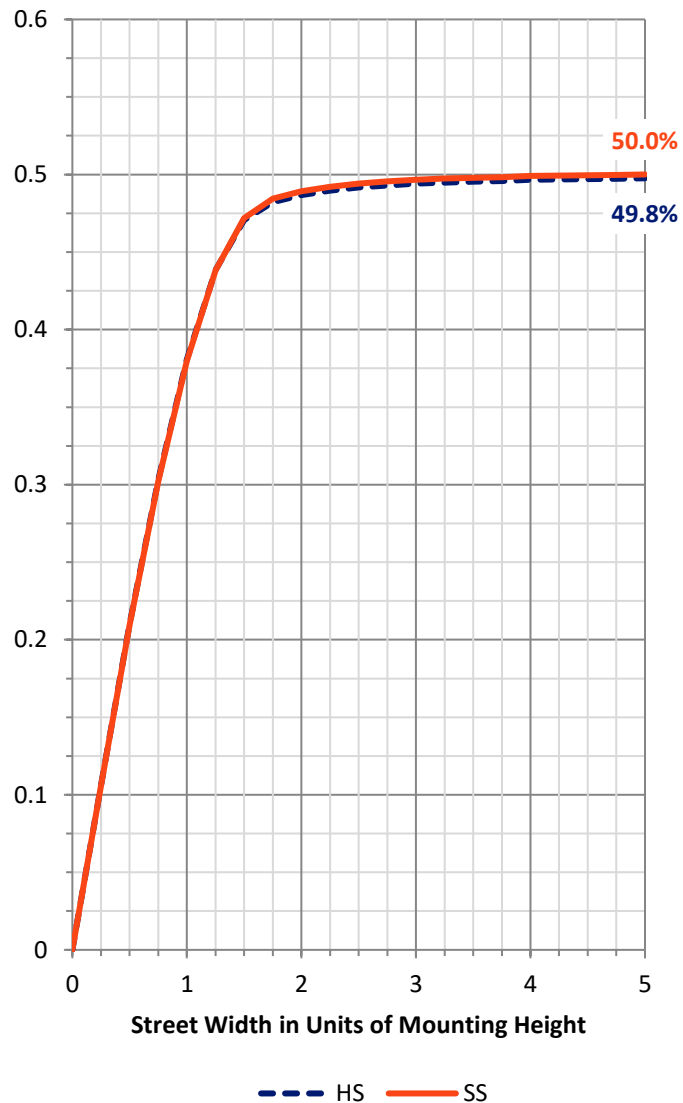
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13661.4	0.0	13661.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13661.4	0.0	13661.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27322.8	0.0	27322.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.3	1.8
10°-20°	1544.2	5.7
20°-30°	2879.4	10.5
30°-40°	4821.1	17.6
40°-50°	7501.9	27.5
50°-60°	7789.4	28.5
60°-70°	1651.9	6.0
70°-80°	544.0	2.0
80°-90°	103.6	0.4
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°	27322.8	100.0
0°-180°	27322.8	100.0

**Coefficient of Utilization**



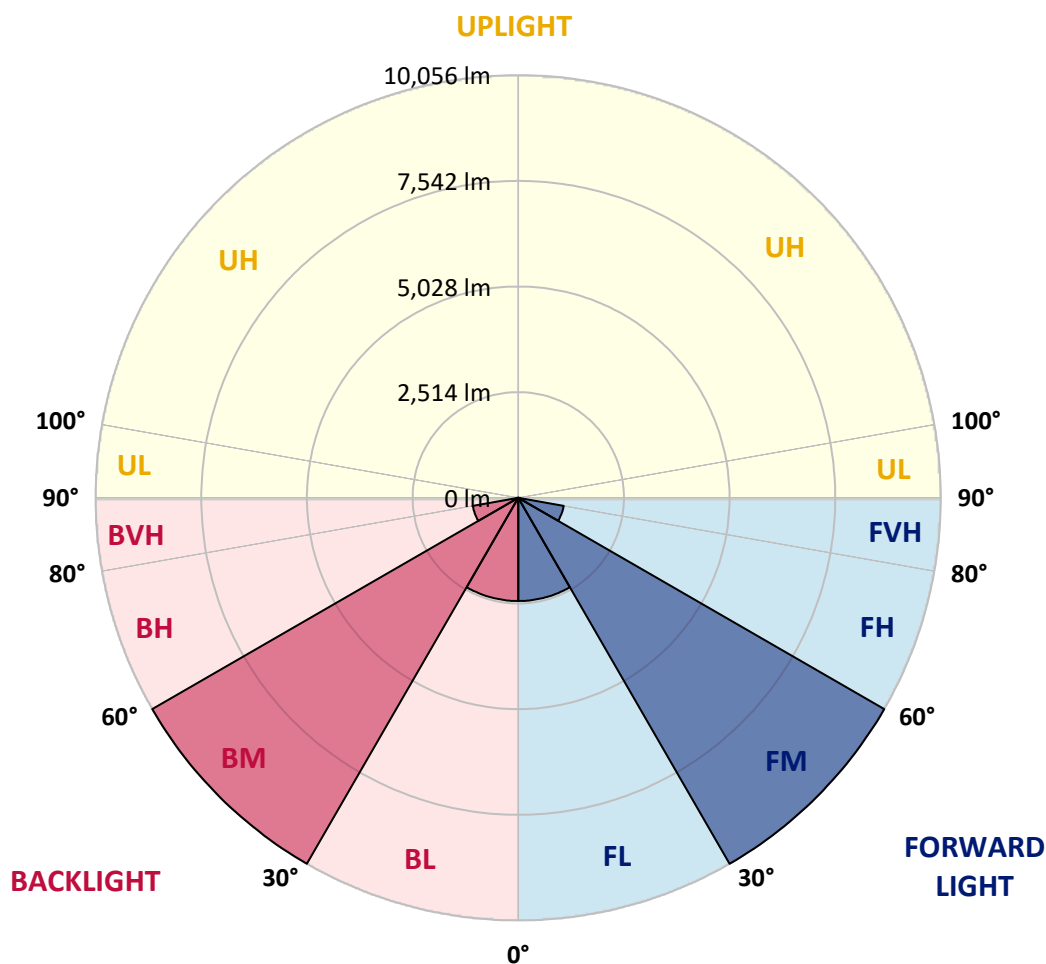
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2455.5	9.0			
FM (30°-60°)	10056.2	36.8			
FH (60°-80°)	1097.9	4.0			G1/1800
FVH (80°-90°)	51.8	0.2			G1/100
BL (0°-30°)	2455.5	9.0	B3/2500		
BM (30°-60°)	10056.2	36.8	B5		
BH (60°-80°)	1097.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	51.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4988.7	4988.7	4988.7	4988.7	4988.7	4988.7	4988.7	4988.7	4988.7	4988.7	4988.7
2.5°	5048.2	5025.1	4985.4	5015.1	5038.3	4988.7	5008.5	5018.5	5011.8	4985.4	4995.3
5°	5120.8	5107.6	5074.5	5097.7	5068.0	5068.0	5048.2	5021.8	5061.4	5054.7	5071.3
7.5°	5120.8	5104.3	5170.3	5127.4	5140.6	5140.6	5107.6	5081.2	5101.0	5071.3	5054.7
10°	5223.2	5246.3	5216.6	5226.4	5219.9	5243.0	5193.4	5177.0	5160.4	5150.5	5130.7
12.5°	5345.3	5328.8	5338.7	5332.1	5355.3	5295.8	5266.1	5229.7	5259.5	5216.6	5246.3
15°	5444.4	5434.4	5444.4	5470.7	5447.6	5444.4	5391.5	5355.3	5309.0	5318.9	5272.6
17.5°	5579.7	5569.8	5573.1	5596.3	5592.9	5576.4	5536.8	5467.5	5450.9	5424.5	5394.9
20°	5781.1	5764.6	5758.0	5767.9	5784.4	5797.6	5718.4	5691.9	5635.9	5592.9	5543.4
22.5°	5952.8	5946.2	5972.6	5929.7	5966.0	6005.6	5929.7	5916.5	5777.8	5754.7	5701.9
25°	6190.6	6180.6	6164.1	6226.8	6269.8	6266.4	6193.8	6121.2	6015.6	5989.1	5989.1
27.5°	6441.4	6385.3	6471.2	6487.7	6563.6	6586.7	6524.0	6418.3	6319.3	6263.1	6276.4
30°	6755.1	6702.2	6722.1	6840.9	6940.0	7025.9	6867.4	6712.2	6573.5	6474.5	6457.9
32.5°	7068.8	7015.9	7075.3	7190.9	7389.0	7517.7	7362.6	7091.9	6930.1	6784.8	6814.5
35°	7323.0	7362.6	7458.3	7633.3	7838.0	8046.0	7798.4	7590.4	7359.3	7197.5	7220.6
37.5°	7732.4	7854.5	7930.5	8131.8	8422.4	8637.0	8379.5	8108.7	7861.2	7649.8	7577.2
40°	8267.2	8349.8	8435.7	8673.3	9016.7	9231.3	8987.0	8633.7	8389.4	8171.5	8161.6
42.5°	8854.9	8934.2	9023.3	9313.9	9518.5	9680.3	9455.8	9267.6	8996.9	8825.2	8815.3
45°	9538.3	9482.2	9581.3	9772.8	9944.4	10050.1	9904.8	9812.4	9617.6	9459.1	9442.6
47.5°	9994.0	9944.4	10122.7	10294.4	10320.8	10205.3	10235.0	10320.8	10116.1	9855.3	9937.8
50°	10258.1	10258.1	10376.9	10535.4	10485.9	10337.3	10571.8	10578.3	10373.7	10142.5	10142.5
52.5°	9799.2	9901.5	10238.3	10756.6	10921.8	10964.7	10911.8	10687.3	10152.5	9680.3	9657.2
55°	8538.0	8514.9	8970.4	10159.0	11119.9	11628.3	10954.7	9921.3	8835.1	8303.6	8250.7
57.5°	5553.3	5579.7	6259.9	7471.5	9204.9	10152.5	9016.7	7564.0	6259.9	5526.9	5596.3
60°	2499.3	2588.4	3001.2	3905.8	5394.9	6167.4	5408.0	4103.9	3149.8	2733.8	2770.0
62.5°	1436.2	1452.7	1469.2	1743.3	2297.9	2717.2	2387.1	1842.3	1624.4	1551.7	1551.7
65°	1211.7	1201.7	1205.1	1228.2	1287.6	1373.5	1337.1	1287.6	1294.2	1287.6	1277.7
67.5°	1030.1	1043.3	1033.4	1049.9	1053.2	1066.4	1089.5	1109.4	1112.6	1119.2	1112.6
70°	845.2	848.5	855.1	868.3	871.6	881.5	914.5	931.1	940.9	940.9	954.2
72.5°	647.1	643.8	650.4	663.6	680.1	683.4	713.2	736.3	749.5	733.0	736.3
75°	425.9	429.2	439.1	449.1	472.1	495.2	505.1	528.3	531.6	538.2	521.6
77.5°	254.2	260.8	270.8	290.6	310.4	330.2	353.3	369.8	376.4	369.8	350.0
80°	165.1	165.1	178.3	194.8	217.9	234.4	247.6	260.8	270.8	260.8	254.2
82.5°	102.3	102.3	118.9	138.7	155.2	165.1	184.9	201.4	211.3	204.7	194.8
85°	52.9	56.1	69.3	85.8	99.0	105.6	102.3	92.5	82.5	79.2	72.7
87.5°	16.5	16.5	19.8	19.8	16.5	16.5	19.8	16.5	19.8	19.8	19.8
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)