

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: P647531

Luminaire Tested: **GALN-SA7D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647531  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28982.8 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

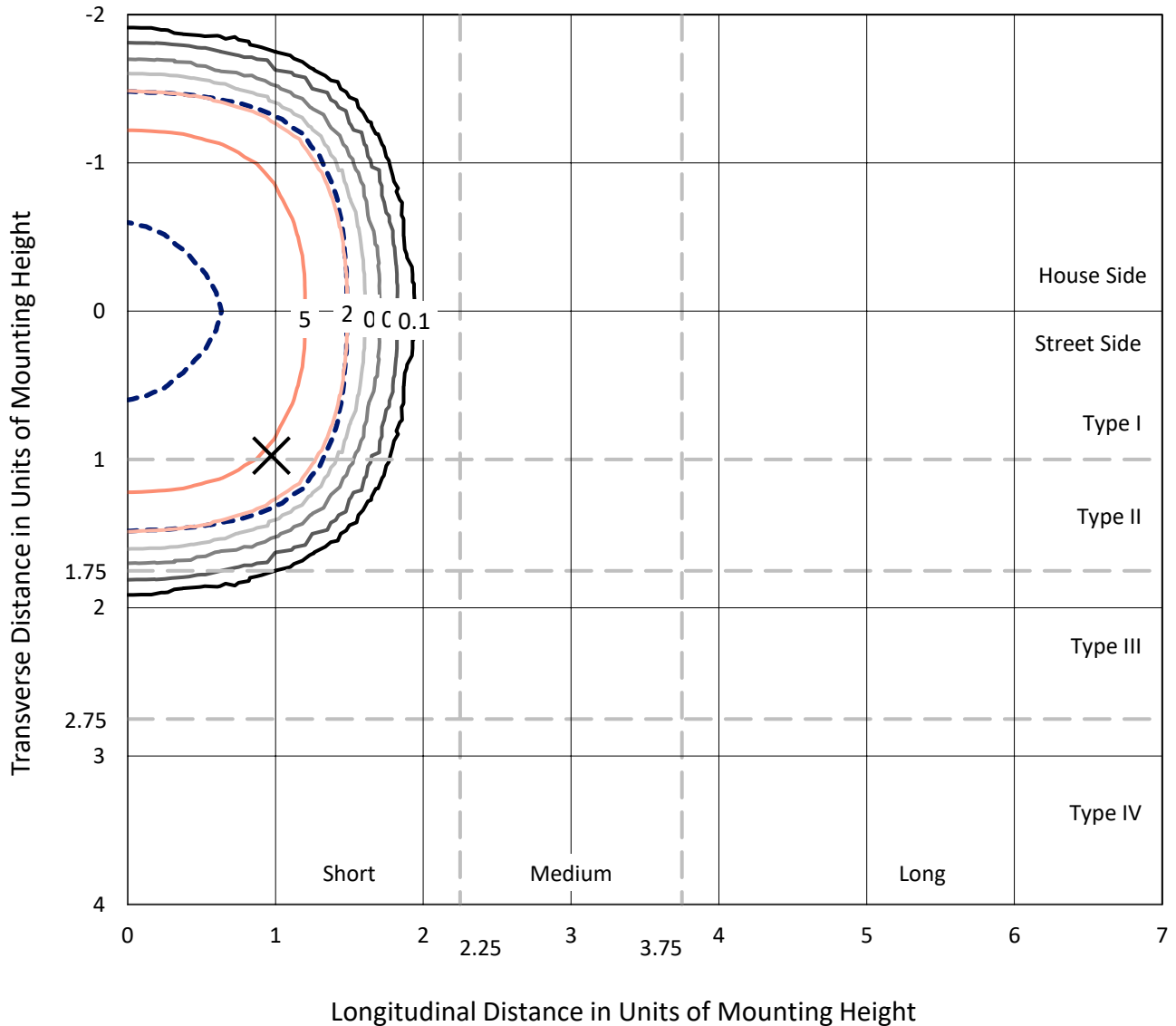
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

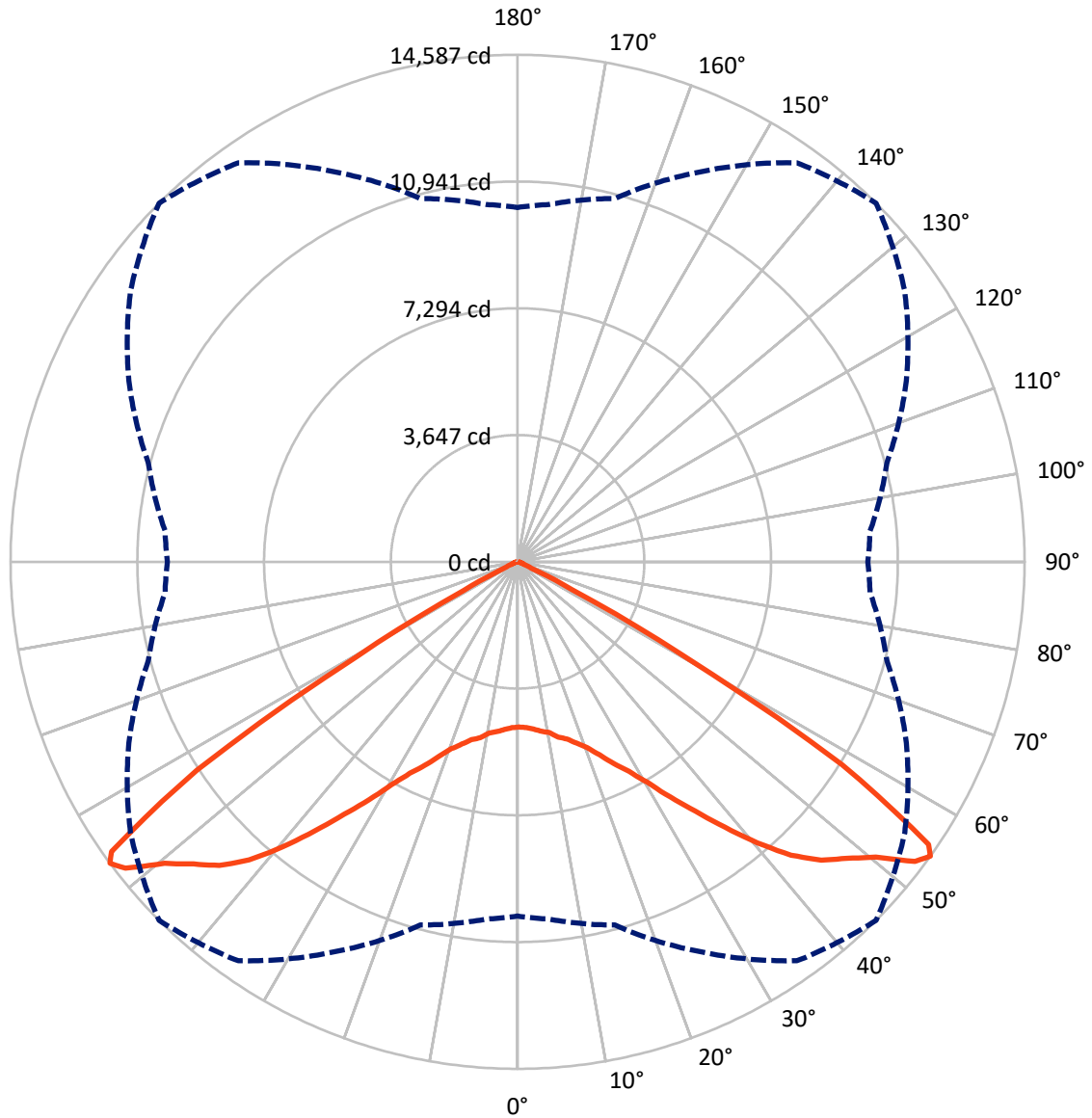
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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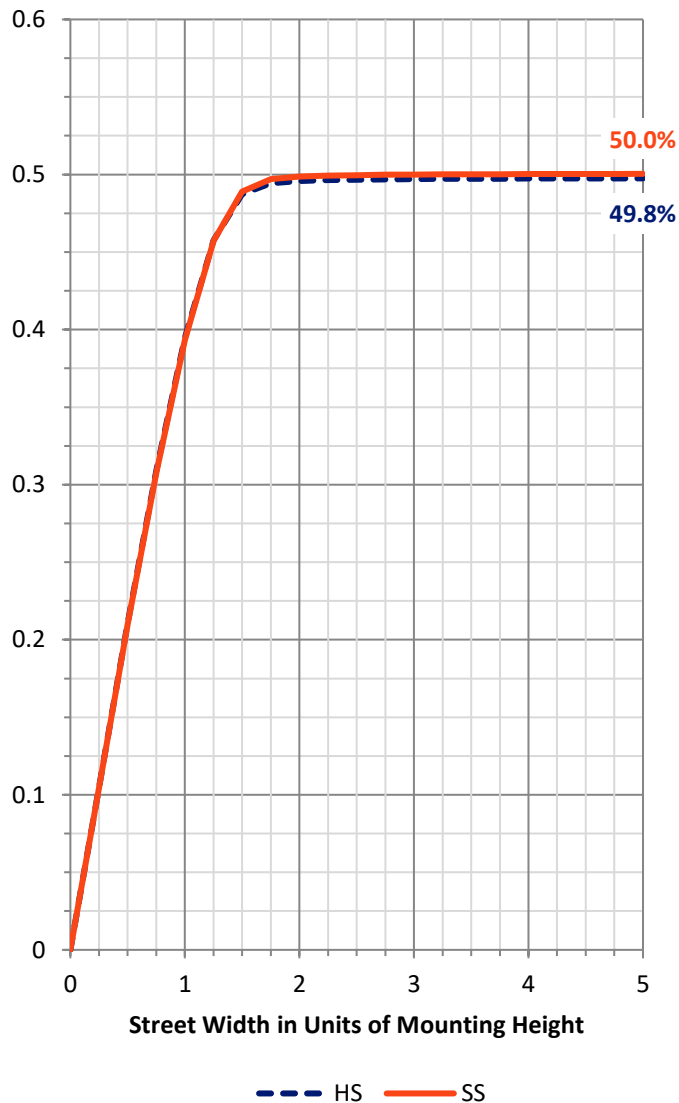
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14491.4	0.0	14491.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14491.4	0.0	14491.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28982.8	0.0	28982.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.1	1.6
10°-20°	1506.3	5.2
20°-30°	2952.2	10.2
30°-40°	5308.7	18.3
40°-50°	9087.5	31.4
50°-60°	8793.0	30.3
60°-70°	752.7	2.6
70°-80°	89.2	0.3
80°-90°	28.0	0.1
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°	28982.8	100.0
0°-180°	28982.8	100.0

**Coefficient of Utilization**



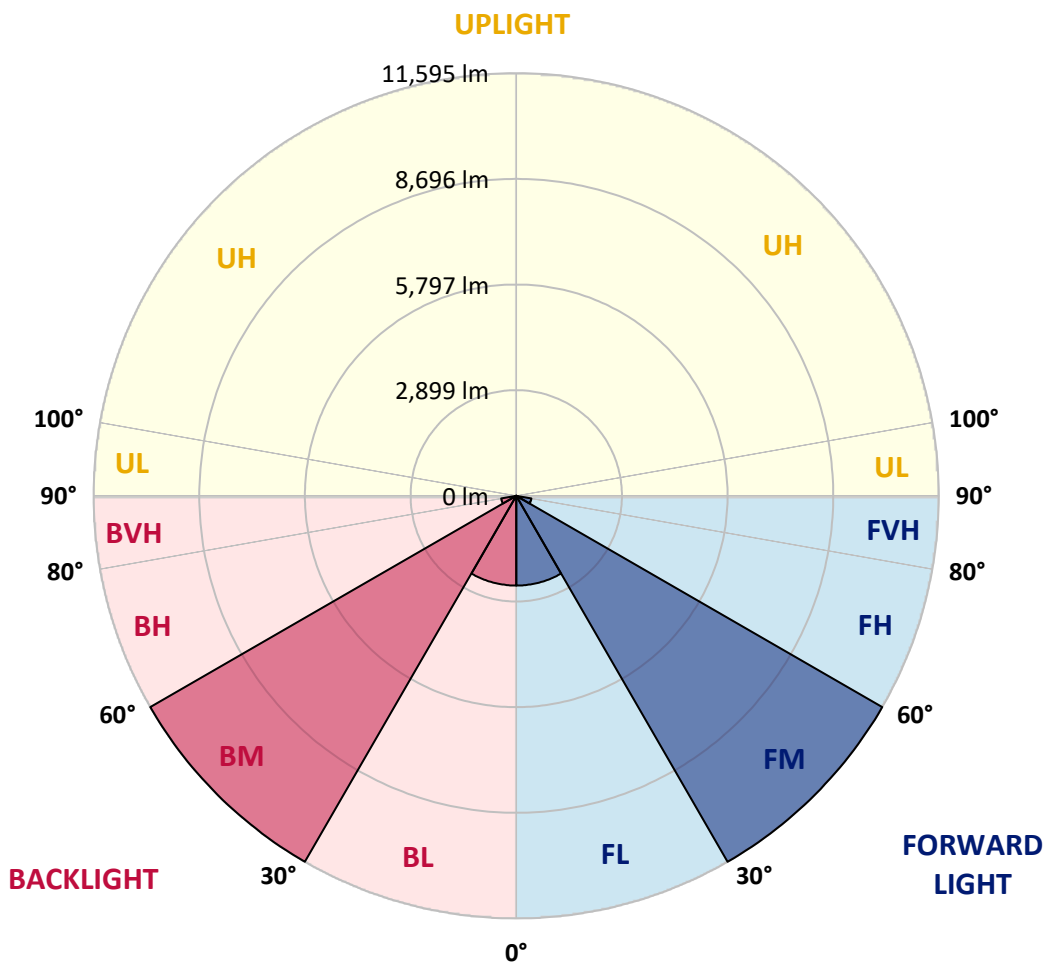
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.8	8.5			
FM (30°-60°)	11594.6	40.0			
FH (60°-80°)	421.0	1.5			G0/660
FVH (80°-90°)	14.0	0.0			G1/100
BL (0°-30°)	2461.8	8.5	B3/2500		
BM (30°-60°)	11594.6	40.0	B5		
BH (60°-80°)	421.0	1.5	B1/500		G0/660
BVH (80°-90°)	14.0	0.0			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°	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3
2.5°	4775.2	4802.8	4784.4	4798.1	4798.1	4775.2	4789.0	4733.9	4770.7	4743.1	4747.6
5°	4848.7	4844.1	4844.1	4848.7	4830.3	4839.5	4821.2	4802.8	4789.0	4770.7	4825.7
7.5°	4940.5	4940.5	4908.4	4917.6	4908.4	4922.2	4885.5	4848.7	4834.9	4821.2	4811.9
10°	5027.8	5018.6	5004.8	5046.1	5014.0	4995.6	4977.2	4954.3	4903.8	4885.5	4867.0
12.5°	5156.3	5151.7	5133.3	5174.7	5156.3	5174.7	5105.8	5046.1	5037.0	4977.2	5009.4
15°	5307.9	5349.1	5317.0	5317.0	5307.9	5284.9	5257.4	5229.8	5147.1	5124.2	5128.8
17.5°	5505.3	5491.5	5496.1	5496.1	5542.0	5482.3	5427.2	5358.4	5317.0	5303.3	5257.4
20°	5693.5	5711.9	5707.3	5739.5	5767.0	5702.7	5643.0	5633.8	5519.1	5537.5	5473.2
22.5°	6024.2	6010.4	6033.3	6056.3	6037.9	6028.7	5973.6	5904.8	5803.8	5757.8	5748.6
25°	6373.1	6350.1	6308.8	6363.9	6391.5	6432.8	6327.2	6290.5	6134.3	6065.4	6070.1
27.5°	6671.6	6703.7	6749.6	6772.6	6841.5	6827.7	6754.2	6634.8	6515.4	6437.4	6386.9
30°	7080.2	7098.5	7176.6	7208.8	7328.1	7360.3	7245.5	7107.8	6896.5	6795.5	6735.8
32.5°	7456.7	7585.2	7580.7	7741.4	7934.2	8067.4	7860.8	7649.5	7438.3	7318.9	7213.3
35°	8067.4	8044.4	8177.6	8347.5	8659.7	8811.2	8586.2	8342.9	8021.4	7828.6	7746.0
37.5°	8636.7	8645.9	8825.0	9095.9	9454.0	9688.2	9490.7	9091.3	8760.7	8512.8	8398.0
40°	9463.2	9481.6	9665.3	9972.8	10376.9	10629.5	10399.9	9995.9	9555.0	9362.2	9362.2
42.5°	10432.1	10510.1	10629.5	10895.8	11258.5	11538.6	11332.0	11015.2	10569.8	10321.8	10358.5
45°	11428.4	11465.2	11543.2	11938.1	12107.9	12245.7	12052.9	11905.9	11607.5	11304.4	11253.9
47.5°	12360.5	12374.3	12603.9	12727.8	12860.9	12746.1	12870.2	12677.3	12342.1	12048.3	11988.6
50°	12773.7	12750.8	13076.8	13453.3	13554.3	13352.3	13246.6	13118.1	12608.4	12254.9	12098.8
52.5°	11570.7	11703.9	12310.0	13356.9	14146.6	14316.5	13701.2	13108.9	12158.4	11469.7	11364.1
54°	10193.3	10317.3	10817.7	12369.7	14013.4	14587.4	13595.6	12337.5	10996.8	10179.5	10073.9
55°	8829.6	8691.8	9601.0	11185.1	13389.0	14348.6	13177.8	11341.1	9807.5	9059.2	8912.2
57.5°	4779.8	4802.8	5569.6	7066.4	9408.1	11001.4	9715.8	7672.5	5794.5	4954.3	4880.8
60°	1515.2	1552.0	1887.1	2855.9	4495.1	5367.5	4600.8	3080.9	2130.5	1708.0	1639.2
62.5°	472.9	491.3	537.2	798.9	1230.6	1758.5	1377.5	826.5	615.3	564.8	573.9
65°	289.2	289.2	293.9	312.3	367.3	427.0	413.3	362.8	349.0	339.7	335.2
67.5°	188.2	183.7	192.9	206.6	215.8	220.4	234.2	248.0	243.4	234.2	234.2
70°	114.8	110.2	119.4	137.7	142.3	151.5	165.3	183.7	179.1	169.9	174.5
72.5°	64.3	64.3	68.9	82.7	96.4	105.6	119.4	133.2	137.7	133.2	133.2
75°	22.9	27.6	36.7	50.5	59.7	73.4	87.2	101.0	114.8	105.6	101.0
77.5°	9.2	9.2	18.4	32.1	45.9	59.7	82.7	96.4	105.6	96.4	87.2
80°	4.6	4.6	13.8	27.6	41.3	55.1	68.9	82.7	87.2	78.1	68.9
82.5°	4.6	4.6	13.8	27.6	41.3	50.5	73.4	82.7	91.8	82.7	68.9
85°	0.0	4.6	13.8	27.6	36.7	41.3	41.3	27.6	22.9	13.8	13.8
87.5°	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)