

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: P651491

Luminaire Tested: **GALN-SA7D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651491  
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-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 31129.6 lumens  
Efficiency: N/A  
Efficacy: 71.9 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

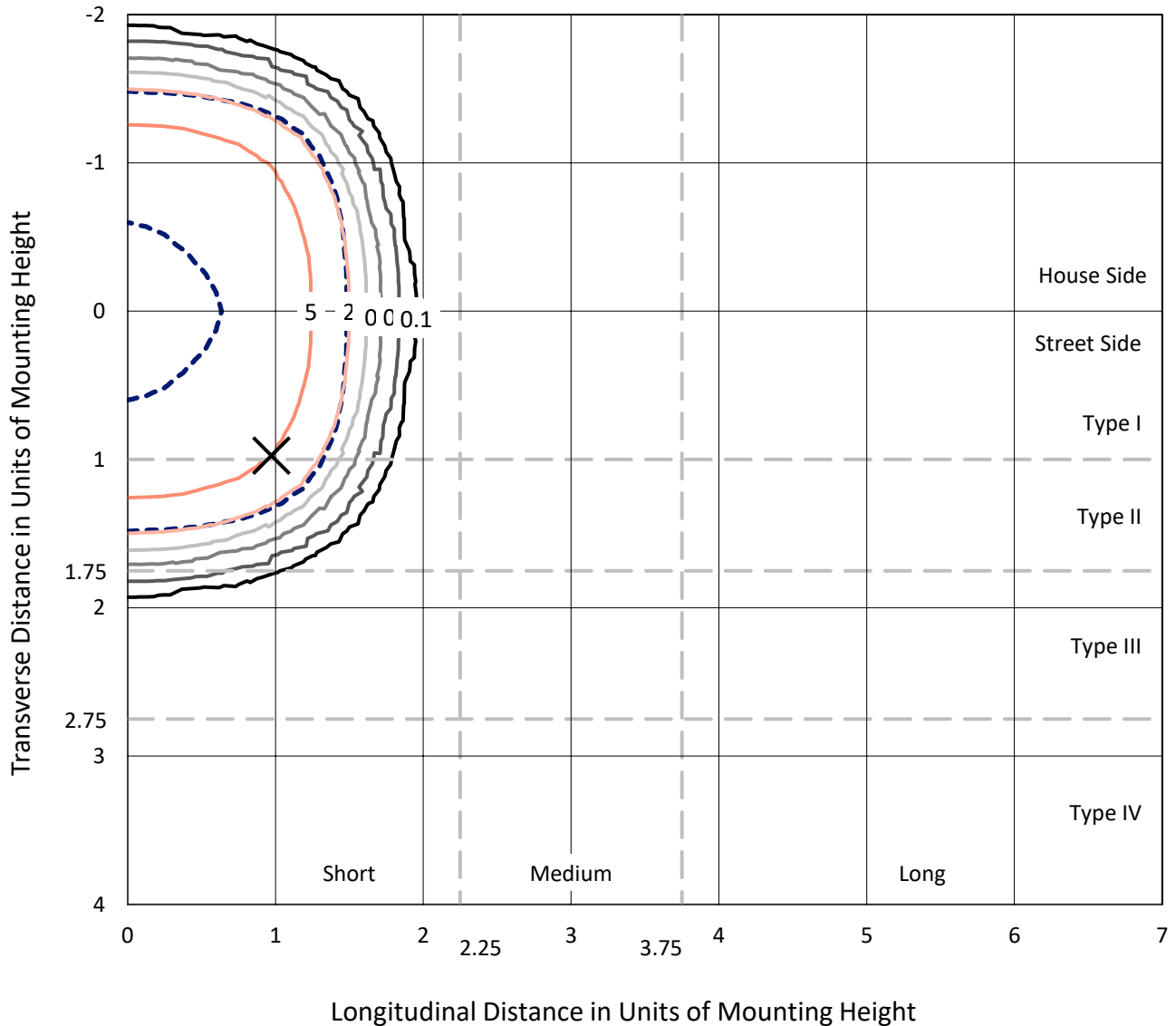
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

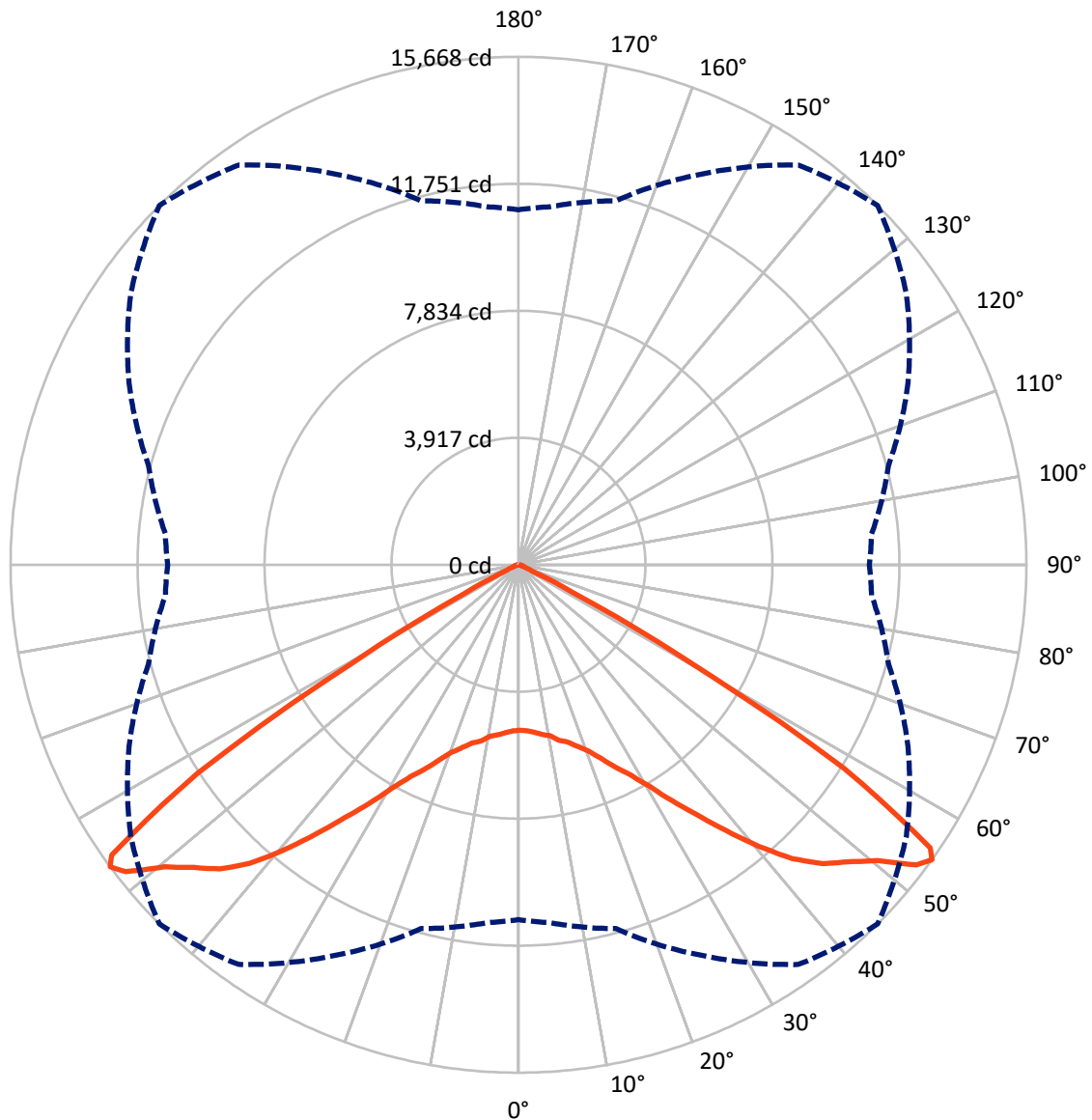
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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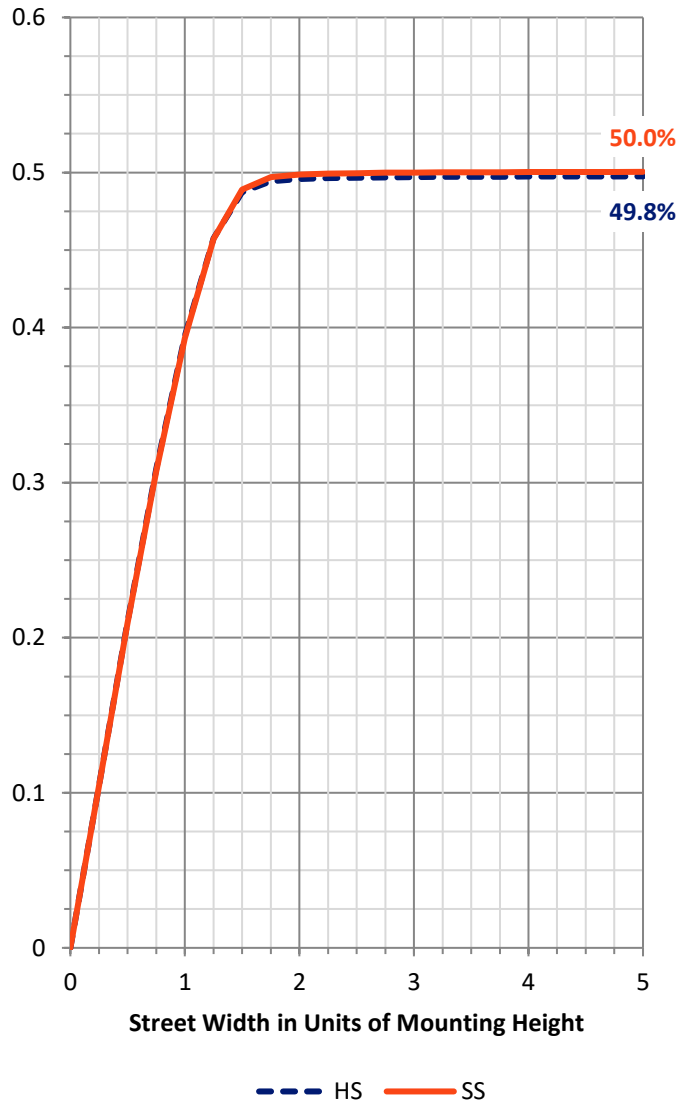
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15564.8	0.0	15564.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15564.8	0.0	15564.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31129.6	0.0	31129.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.6	1.6
10°-20°	1617.9	5.2
20°-30°	3170.9	10.2
30°-40°	5701.9	18.3
40°-50°	9760.6	31.4
50°-60°	9444.3	30.3
60°-70°	808.5	2.6
70°-80°	95.8	0.3
80°-90°	30.1	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°	31129.6	100.0
0°-180°	31129.6	100.0

**Coefficient of Utilization**

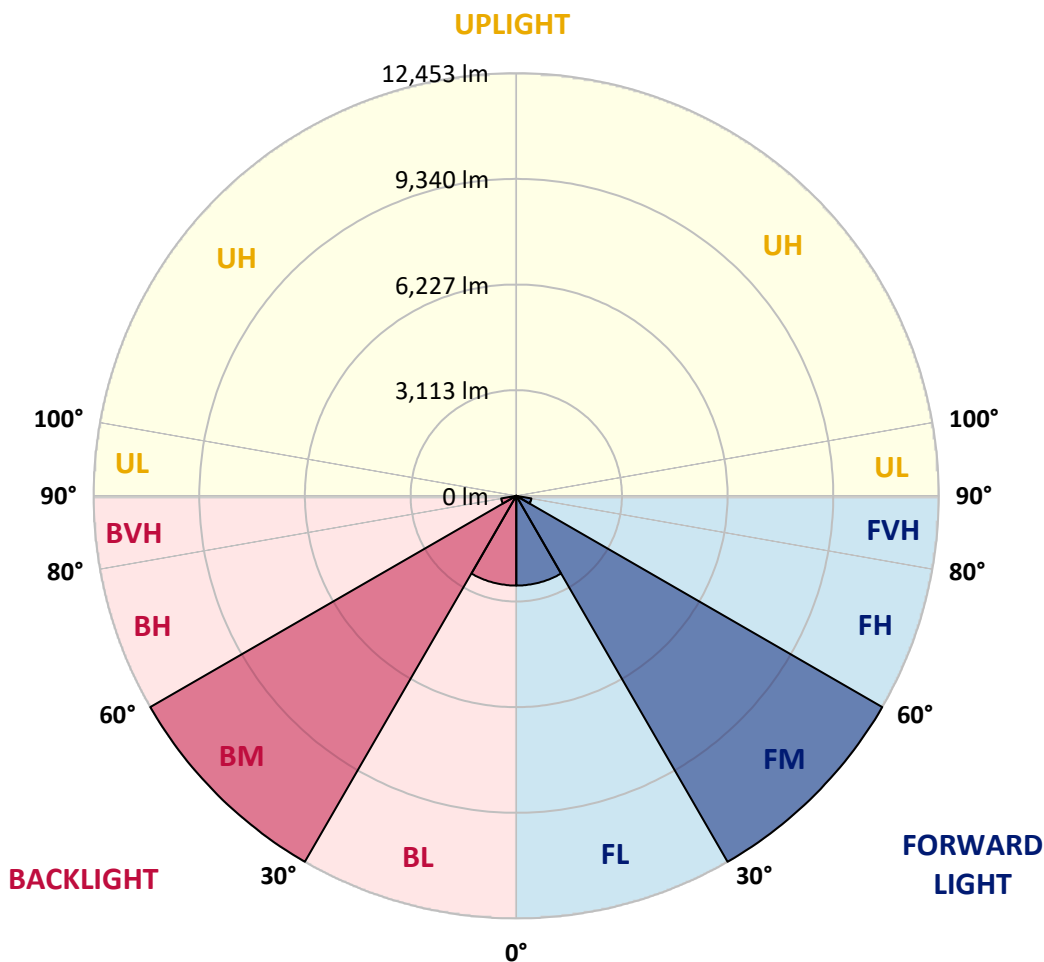


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.2	8.5			
FM (30°-60°)	12453.5	40.0			
FH (60°-80°)	452.1	1.5			G0/660
FVH (80°-90°)	15.0	0.0			G1/100
BL (0°-30°)	2644.2	8.5	B4/5000		
BM (30°-60°)	12453.5	40.0	B5		
BH (60°-80°)	452.1	1.5	B1/500		G0/660
BVH (80°-90°)	15.0	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°	5104.3	5104.3	5104.3	5104.3	5104.3	5104.3	5104.3	5104.3	5104.3	5104.3	5104.3
2.5°	5128.9	5158.5	5138.8	5153.6	5153.6	5128.9	5143.7	5084.6	5124.0	5094.4	5099.3
5°	5207.9	5202.9	5202.9	5207.9	5188.1	5198.0	5178.3	5158.5	5143.7	5124.0	5183.2
7.5°	5306.5	5306.5	5272.0	5281.8	5272.0	5286.8	5247.3	5207.9	5193.1	5178.3	5168.4
10°	5400.2	5390.3	5375.5	5419.9	5385.4	5365.7	5345.9	5321.3	5267.0	5247.3	5227.6
12.5°	5538.2	5533.4	5513.6	5558.0	5538.2	5558.0	5484.0	5419.9	5410.1	5345.9	5380.5
15°	5701.1	5745.4	5710.9	5710.9	5701.1	5676.3	5646.8	5617.2	5528.4	5503.8	5508.7
17.5°	5913.1	5898.3	5903.2	5903.2	5952.5	5888.4	5829.2	5755.3	5710.9	5696.1	5646.8
20°	6115.2	6135.0	6130.0	6164.6	6194.2	6125.2	6061.0	6051.2	5927.9	5947.6	5878.6
22.5°	6470.4	6455.6	6480.2	6504.9	6485.1	6475.3	6416.1	6342.1	6233.7	6184.3	6174.5
25°	6845.2	6820.5	6776.1	6835.3	6864.9	6909.3	6795.9	6756.4	6588.7	6514.7	6519.7
27.5°	7165.7	7200.2	7249.6	7274.2	7348.2	7333.4	7254.5	7126.3	6998.0	6914.2	6860.0
30°	7604.7	7624.3	7708.2	7742.8	7870.9	7905.5	7782.2	7634.3	7407.4	7298.9	7234.8
32.5°	8009.0	8147.1	8142.2	8314.8	8521.9	8665.0	8443.1	8216.1	7989.3	7861.1	7747.6
35°	8665.0	8640.3	8783.3	8965.8	9301.1	9463.9	9222.2	8960.9	8615.6	8408.5	8319.8
37.5°	9276.5	9286.3	9478.7	9769.6	10154.3	10405.9	10193.8	9764.7	9409.6	9143.4	9020.1
40°	10164.2	10183.9	10381.2	10711.6	11145.6	11416.8	11170.2	10736.3	10262.8	10055.7	10055.7
42.5°	11204.8	11288.6	11416.8	11702.9	12092.5	12393.3	12171.4	11831.1	11352.7	11086.4	11125.8
45°	12275.0	12314.4	12398.3	12822.4	13004.8	13152.8	12945.7	12787.8	12467.3	12141.8	12087.5
47.5°	13276.1	13290.9	13537.5	13670.6	13813.6	13690.3	13823.5	13616.4	13256.3	12940.7	12876.6
50°	13719.9	13695.3	14045.5	14449.8	14558.3	14341.3	14227.9	14089.8	13542.4	13162.7	12995.0
52.5°	12427.8	12570.8	13221.9	14346.3	15194.5	15377.0	14716.2	14079.9	13059.0	12319.3	12205.9
54°	10948.3	11081.5	11619.0	13285.9	15051.5	15667.9	14602.7	13251.4	11811.3	10933.5	10820.1
55°	9483.6	9335.7	10312.2	12013.6	14380.8	15411.5	14153.9	12181.2	10534.0	9730.2	9572.3
57.5°	5133.9	5158.5	5982.1	7589.9	10105.0	11816.3	10435.5	8240.9	6223.7	5321.3	5242.4
60°	1627.4	1666.9	2026.9	3067.5	4828.1	5765.1	4941.5	3309.2	2288.3	1834.6	1760.6
62.5°	508.0	527.7	577.0	858.1	1321.7	1888.8	1479.5	887.7	660.9	606.6	616.5
65°	310.7	310.7	315.6	335.4	394.5	458.7	443.9	389.6	374.8	364.9	360.0
67.5°	202.2	197.3	207.1	221.9	231.8	236.7	251.5	266.3	261.4	251.5	251.5
70°	123.3	118.3	128.3	147.9	152.9	162.7	177.5	197.3	192.3	182.5	187.4
72.5°	69.0	69.0	74.0	88.8	103.5	113.5	128.3	143.1	147.9	143.1	143.1
75°	24.6	29.6	39.4	54.2	64.1	78.9	93.7	108.5	123.3	113.5	108.5
77.5°	9.8	9.8	19.8	34.5	49.3	64.1	88.8	103.5	113.5	103.5	93.7
80°	5.0	5.0	14.8	29.6	44.4	59.2	74.0	88.8	93.7	83.8	74.0
82.5°	5.0	5.0	14.8	29.6	44.4	54.2	78.9	88.8	98.6	88.8	74.0
85°	0.0	5.0	14.8	29.6	39.4	44.4	44.4	29.6	24.6	14.8	14.8
87.5°	0.0	0.0	5.0	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)