

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: P651503

Luminaire Tested: **GALN-SA7D-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46752.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

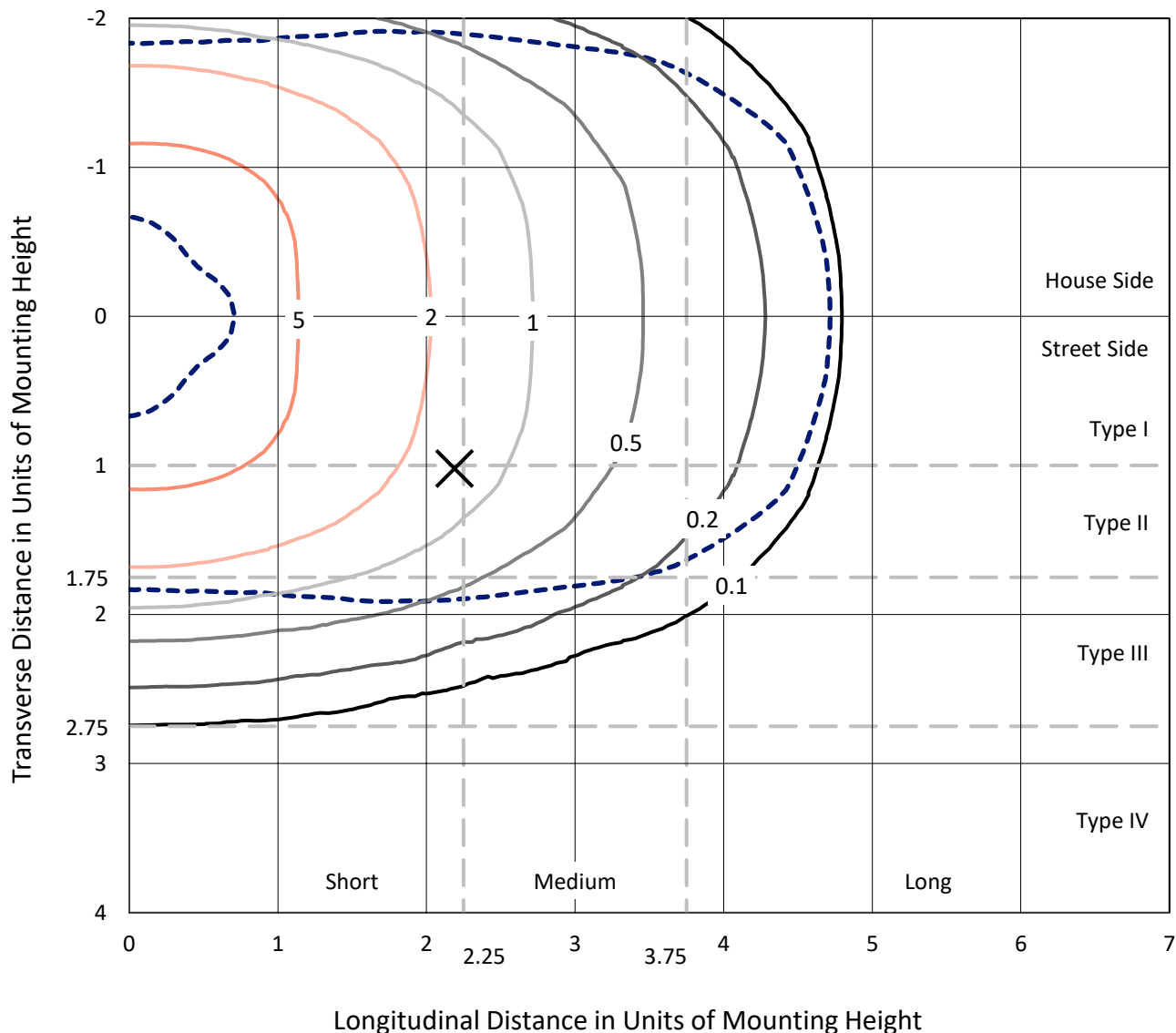
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

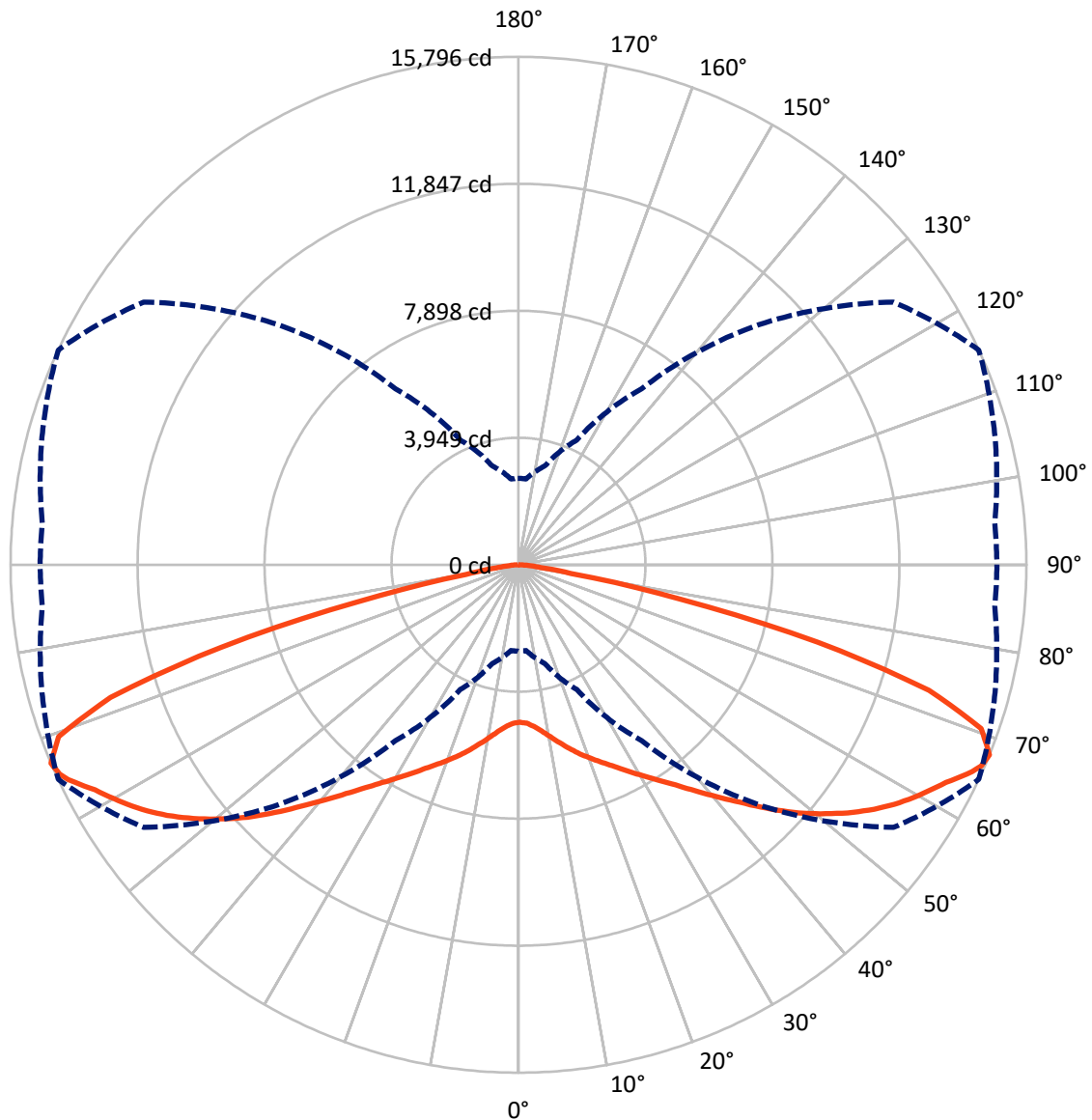
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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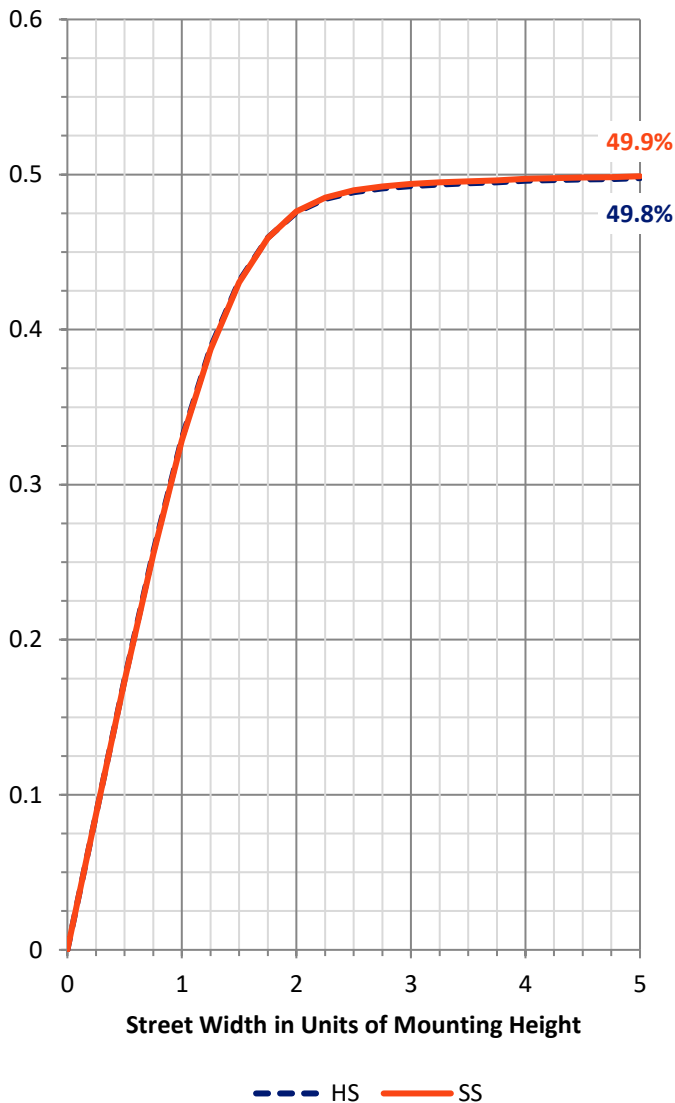
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23376.4	0.0	23376.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23376.4	0.0	23376.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46752.9	0.0	46752.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.0	1.0
10°-20°	1616.5	3.5
20°-30°	3161.9	6.8
30°-40°	5378.0	11.5
40°-50°	8511.8	18.2
50°-60°	11286.4	24.1
60°-70°	10646.6	22.8
70°-80°	5263.1	11.3
80°-90°	405.6	0.9
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°	46752.9	100.0
0°-180°	46752.9	100.0

**Coefficient of Utilization**



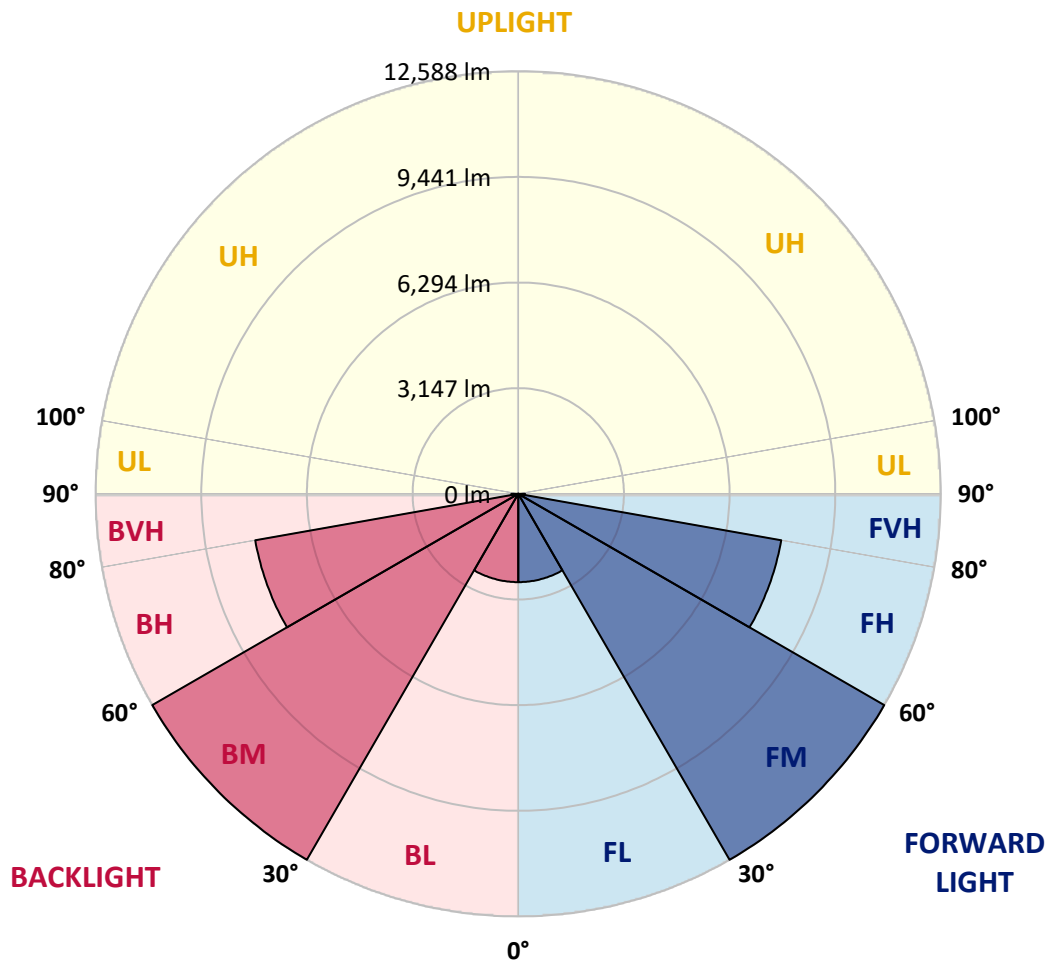
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.7	5.6			
FM (30°-60°)	12588.1	26.9			
FH (60°-80°)	7954.9	17.0			G4/12000
FVH (80°-90°)	202.8	0.4			G2/225
BL (0°-30°)	2630.7	5.6	B4/5000		
BM (30°-60°)	12588.1	26.9	B5		
BH (60°-80°)	7954.9	17.0	B5		G5
BVH (80°-90°)	202.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4897.0	4897.0	4897.0	4897.0	4897.0	4897.0	4897.0	4897.0	4897.0	4897.0	4897.0
2.5°	4871.9	4876.9	4881.9	4889.4	4899.4	4914.5	4924.5	4932.0	4952.1	4954.6	4952.1
5°	4854.3	4859.4	4871.9	4894.5	4927.0	4972.1	5007.1	5049.8	5082.3	5104.9	5099.8
7.5°	4851.9	4861.9	4881.9	4929.5	4992.2	5069.8	5149.9	5222.6	5285.2	5335.3	5327.8
10°	4891.9	4904.5	4937.0	5007.1	5104.9	5217.6	5330.3	5438.0	5528.1	5593.3	5615.9
12.5°	4959.5	4969.6	5029.7	5134.9	5275.2	5415.5	5543.2	5676.0	5801.2	5911.4	5911.4
15°	5077.3	5094.9	5170.0	5322.8	5495.6	5658.4	5788.7	5929.0	6064.2	6189.4	6227.0
17.5°	5240.1	5265.2	5377.9	5573.2	5793.6	5943.9	6066.7	6181.9	6299.7	6419.9	6437.4
20°	5463.1	5488.1	5638.4	5873.8	6134.3	6314.6	6397.3	6424.9	6482.5	6597.7	6612.8
22.5°	5766.1	5791.2	5959.0	6224.5	6515.1	6710.4	6745.5	6680.4	6665.3	6755.5	6765.6
25°	6109.3	6131.8	6324.7	6610.3	6910.8	7123.8	7113.8	6953.4	6863.2	6918.3	6933.4
27.5°	6495.0	6527.6	6723.0	7018.6	7344.2	7532.0	7502.0	7269.0	7076.2	7066.2	7071.1
30°	6988.5	7023.5	7208.9	7492.0	7812.6	7985.4	7922.8	7609.7	7311.6	7211.4	7211.4
32.5°	7509.5	7597.2	7785.1	8080.6	8331.1	8456.3	8361.1	7985.4	7589.7	7449.4	7441.8
35°	8188.3	8235.9	8421.3	8709.3	8897.2	8994.8	8812.0	8408.7	7952.8	7787.5	7765.0
37.5°	8852.1	8892.1	9107.6	9383.1	9611.0	9606.1	9358.1	8912.2	8403.7	8218.3	8203.4
40°	9530.9	9573.4	9818.9	10071.9	10299.9	10279.9	9979.2	9480.8	8939.7	8731.9	8772.0
42.5°	10119.5	10167.1	10445.1	10805.8	11011.2	11006.3	10658.1	10097.0	9533.4	9348.1	9383.1
45°	10655.6	10698.1	11021.3	11434.6	11735.1	11772.7	11392.0	10798.4	10219.7	9981.7	9991.8
47.5°	11033.8	11114.0	11452.1	11925.5	12333.8	12466.6	12093.3	11512.2	10846.0	10597.9	10613.0
50°	11321.9	11371.9	11740.2	12278.7	12794.7	13070.2	12769.7	12173.5	11472.2	11209.1	11244.2
52.5°	11356.9	11417.0	11817.8	12439.0	13100.3	13518.6	13370.8	12819.8	12110.9	11840.4	11915.5
55°	11071.3	11106.4	11584.9	12338.8	13220.5	13851.8	13889.3	13420.9	12719.5	12514.2	12564.3
57.5°	10257.3	10347.5	10953.6	11870.4	13055.2	14029.6	14277.6	13967.0	13335.7	13132.9	13213.0
60°	8922.3	9012.4	9621.0	10783.3	12431.5	13946.9	14598.2	14450.4	13894.3	13731.5	13774.1
62.5°	6991.0	6983.5	7737.5	9162.7	11191.6	13541.1	14836.2	14916.3	14445.4	14240.0	14305.1
65°	4531.2	4553.8	5282.7	6818.2	9320.5	12509.1	14888.7	15510.0	14986.5	14675.8	14723.4
66°	3644.6	3712.2	4330.9	5746.0	8366.2	11832.9	14731.0	15685.2	15151.7	14776.0	14798.6
67.5°	2690.2	2677.7	3186.1	4278.3	6680.4	10547.8	14237.5	15795.5	15339.6	14866.2	14876.2
70°	1535.5	1533.0	1713.3	2349.5	3927.6	7426.9	12000.6	15266.9	15720.3	15191.8	15164.2
72.5°	1122.1	1114.7	1139.7	1297.5	1916.2	3749.8	8278.5	13343.2	15524.9	15139.2	15061.6
75°	941.8	936.8	931.8	951.8	1074.5	1698.3	4393.5	9598.5	13471.0	14210.0	14129.8
77.5°	769.0	769.0	771.4	766.5	771.4	894.2	1821.0	5144.9	8203.4	9157.6	9380.6
80°	601.1	598.6	641.3	623.7	583.7	573.6	806.5	1655.7	2722.7	2707.8	2234.3
82.5°	443.4	413.3	488.5	475.9	430.8	365.7	470.9	706.4	909.3	591.1	438.3
85°	280.6	278.0	345.7	315.6	263.0	172.8	225.5	303.1	375.8	227.9	185.4
87.5°	50.1	47.6	110.2	80.1	80.1	50.1	62.7	82.7	122.7	85.2	62.7
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)