

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: P651522

Luminaire Tested: **GALN-SA7D-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
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-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45234.9 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

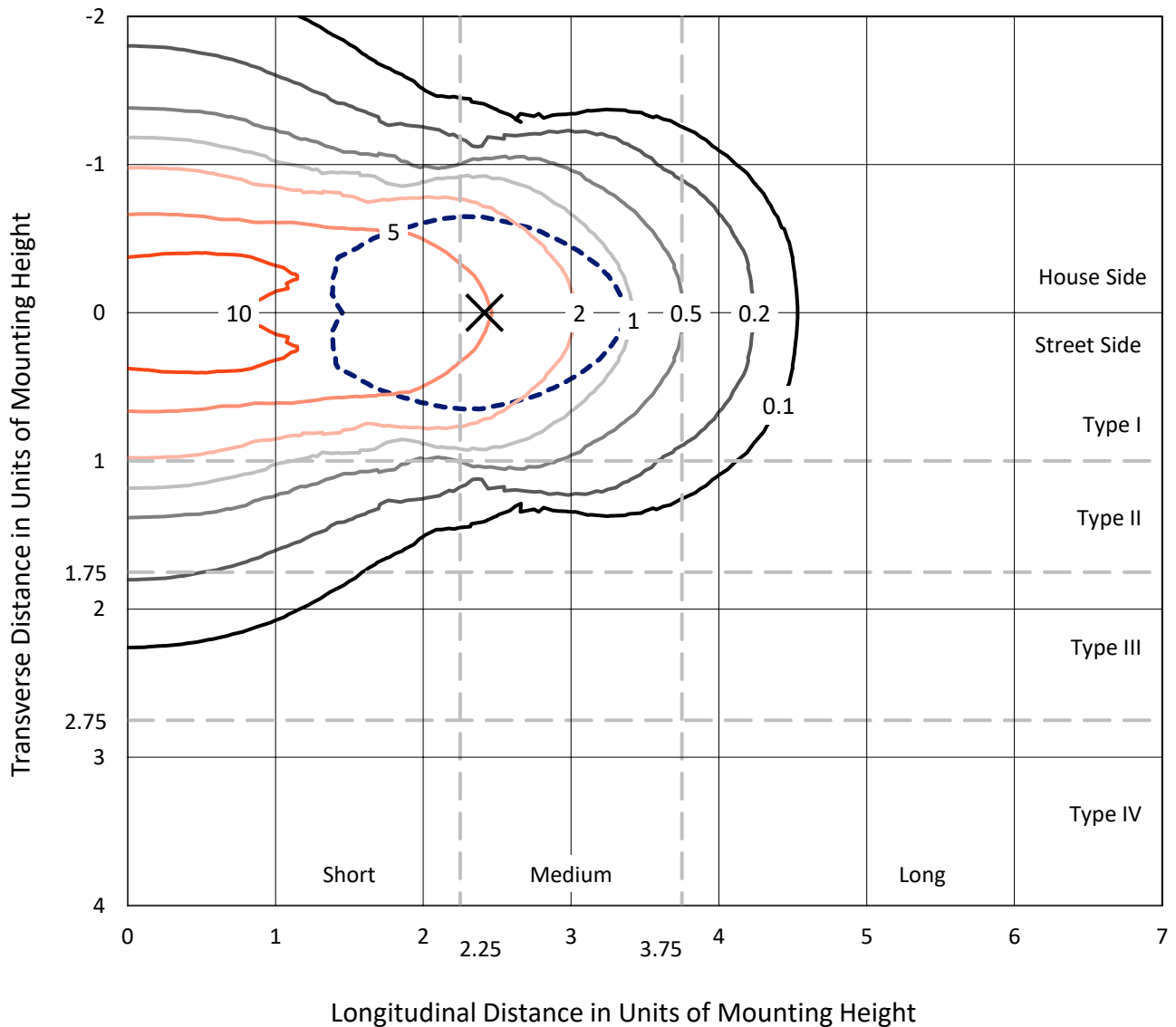
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

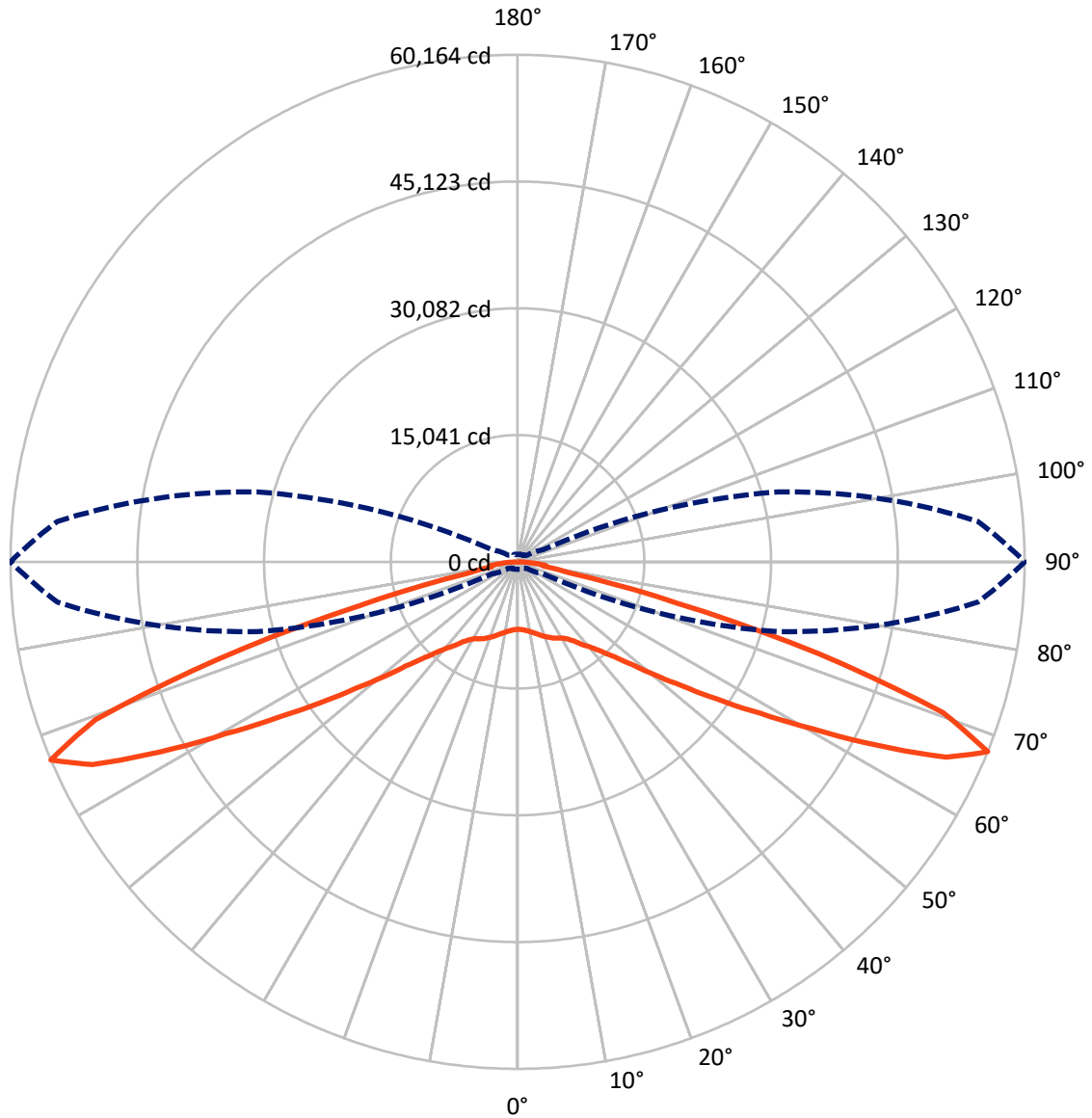
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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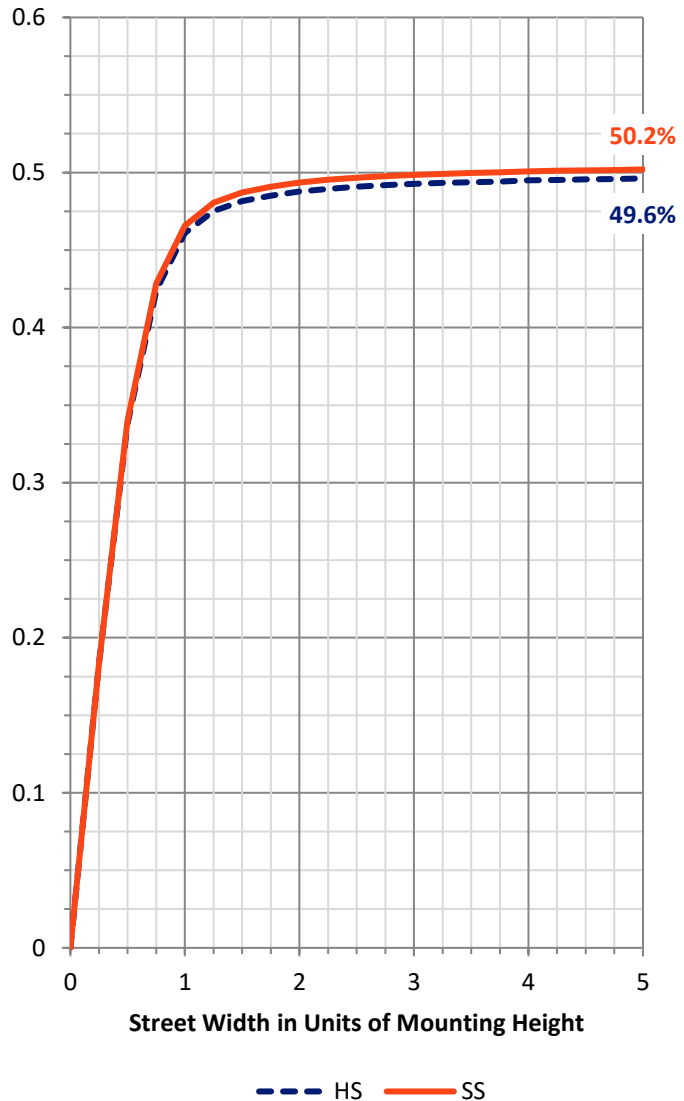
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22617.4	0.0	22617.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22617.4	0.0	22617.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45234.9	0.0	45234.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	798.4	1.8
10°-20°	2554.4	5.6
20°-30°	4275.5	9.5
30°-40°	5792.1	12.8
40°-50°	7336.7	16.2
50°-60°	9165.4	20.3
60°-70°	10773.5	23.8
70°-80°	4121.4	9.1
80°-90°	417.5	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°	45234.9	100.0
0°-180°	45234.9	100.0

**Coefficient of Utilization**

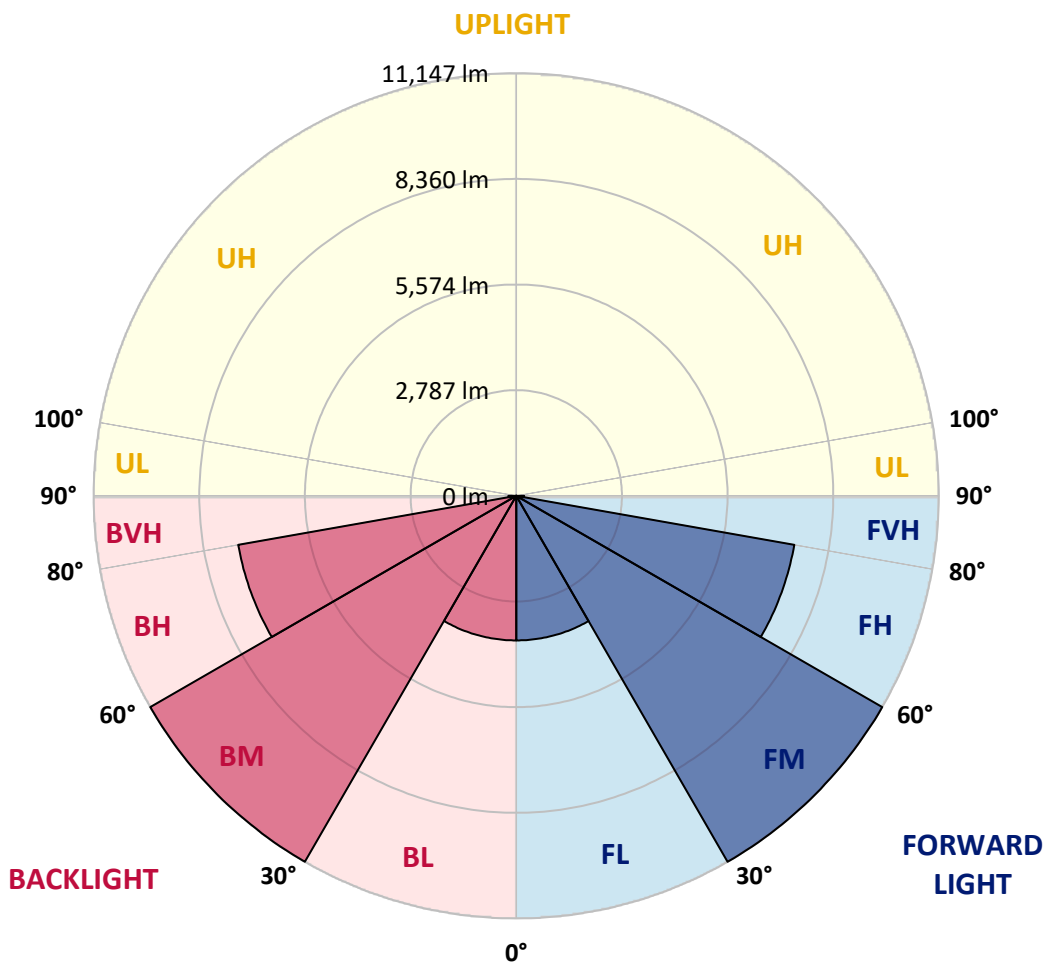


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3814.1	8.4			
FM	(30°-60°)	11147.1	24.6			
FH	(60°-80°)	7447.4	16.5			G3/7500
FVH	(80°-90°)	208.8	0.5			G2/225
BL	(0°-30°)	3814.1	8.4	B4/5000		
BM	(30°-60°)	11147.1	24.6	B5		
BH	(60°-80°)	7447.4	16.5	B5		G5
BVH	(80°-90°)	208.8	0.5			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8008.0	8008.0	8008.0	8008.0	8008.0	8008.0	8008.0	8008.0	8008.0	8008.0	8008.0
2.5°	8110.7	8105.6	8108.2	8105.6	8113.2	8108.2	8078.1	8053.1	8033.1	8035.5	8028.0
5°	8283.5	8286.0	8288.6	8276.0	8293.5	8283.5	8235.9	8195.9	8155.8	8140.7	8135.7
7.5°	8426.3	8438.8	8446.3	8458.9	8488.9	8488.9	8463.8	8406.2	8318.6	8268.5	8265.9
10°	8569.0	8579.1	8601.7	8641.7	8691.8	8739.4	8729.4	8651.7	8539.0	8453.8	8433.8
12.5°	8619.2	8631.7	8706.8	8822.1	8934.8	9027.5	9027.5	8964.8	8819.6	8689.3	8651.7
15°	8443.8	8466.3	8601.7	8847.1	9142.7	9345.5	9390.7	9303.0	9147.6	8947.3	8902.2
17.5°	8095.6	8150.7	8348.6	8711.8	9202.8	9623.6	9753.8	9711.3	9510.9	9255.4	9202.8
20°	7722.4	7782.5	7992.9	8473.9	9152.7	9786.4	10164.7	10174.7	9926.7	9555.9	9478.3
22.5°	7311.7	7356.7	7627.3	8190.8	9002.4	9824.0	10517.8	10690.6	10355.0	9856.5	9746.3
25°	6850.7	6900.8	7183.9	7792.5	8719.3	9781.4	10841.0	11221.7	10803.4	10177.2	10036.9
27.5°	6409.8	6429.9	6733.0	7351.7	8346.2	9671.2	11078.9	11710.2	11299.3	10442.7	10264.8
30°	5986.6	6034.2	6302.2	6913.4	7917.8	9455.8	11284.3	12266.2	11832.9	10720.7	10492.8
32.5°	5538.2	5595.8	5886.4	6505.1	7489.4	9132.7	11409.6	12874.9	12576.8	11171.6	10928.6
35°	5107.4	5145.0	5438.0	6039.1	7071.1	8756.9	11432.1	13561.2	13536.1	11855.4	11532.3
37.5°	4666.5	4721.6	5017.2	5593.3	6627.8	8358.7	11319.4	14290.1	14693.4	12804.7	12456.6
40°	4243.2	4290.8	4581.3	5162.5	6124.3	7872.7	11051.3	14956.4	16043.5	13781.6	13288.2
42.5°	3782.3	3794.8	4112.9	4704.1	5630.9	7309.1	10665.6	15550.1	17548.9	15091.7	14478.0
45°	3258.8	3291.3	3586.9	4168.1	5064.8	6677.9	10142.1	16041.0	19457.6	16907.7	16071.1
47.5°	2735.3	2762.9	3033.4	3607.0	4446.1	5954.0	9335.5	16471.8	21416.4	19214.7	18117.5
50°	2224.3	2239.3	2459.8	2968.2	3749.8	5192.5	8336.1	16609.6	23630.7	22480.9	21080.8
52.5°	1758.4	1780.9	1948.8	2347.1	3005.8	4293.3	7256.6	16269.0	26215.7	26353.4	24379.7
55°	1425.2	1432.7	1558.0	1851.0	2349.5	3351.5	5954.0	15319.6	28996.1	31315.6	28798.2
57.5°	1227.4	1232.4	1302.5	1465.4	1808.5	2527.4	4618.9	13523.6	31493.3	37129.3	33893.1
60°	1114.7	1117.2	1157.2	1252.4	1432.7	1938.8	3308.9	10988.8	33958.2	43599.3	40225.3
62.5°	1044.5	1044.5	1072.1	1124.7	1212.3	1487.9	2397.1	7927.9	35646.4	50164.5	48030.4
65°	976.9	976.9	996.9	1034.5	1082.1	1217.3	1770.9	5170.0	35603.8	54946.2	55880.5
67.5°	899.2	899.2	914.3	951.8	979.4	1047.0	1367.6	3386.5	31981.8	54841.0	60163.8
70°	806.5	806.5	826.6	859.2	881.7	924.3	1079.6	2317.0	23495.4	46825.5	53505.9
72.5°	713.8	716.4	728.9	761.4	779.0	804.1	896.8	1623.1	14412.9	31884.2	37412.3
75°	611.2	616.2	628.7	661.3	676.3	686.3	756.5	1157.2	7291.6	17190.7	19572.8
77.5°	493.4	503.5	511.0	546.1	556.1	571.1	623.7	836.6	3201.2	6177.0	6232.1
80°	360.7	373.2	395.8	428.3	435.8	445.9	475.9	593.7	1450.3	2820.5	3063.4
82.5°	265.5	283.1	255.5	298.1	298.1	285.5	335.6	398.3	666.3	2792.9	3341.5
85°	145.2	147.8	132.8	152.8	162.8	160.3	177.9	195.4	323.1	1863.6	1921.2
87.5°	35.1	37.6	40.1	47.6	57.6	57.6	62.7	55.1	105.2	603.7	345.7
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)