

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: P652182

Luminaire Tested: **GALN-SA1B-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652182  
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-SA1B-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4834.1 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

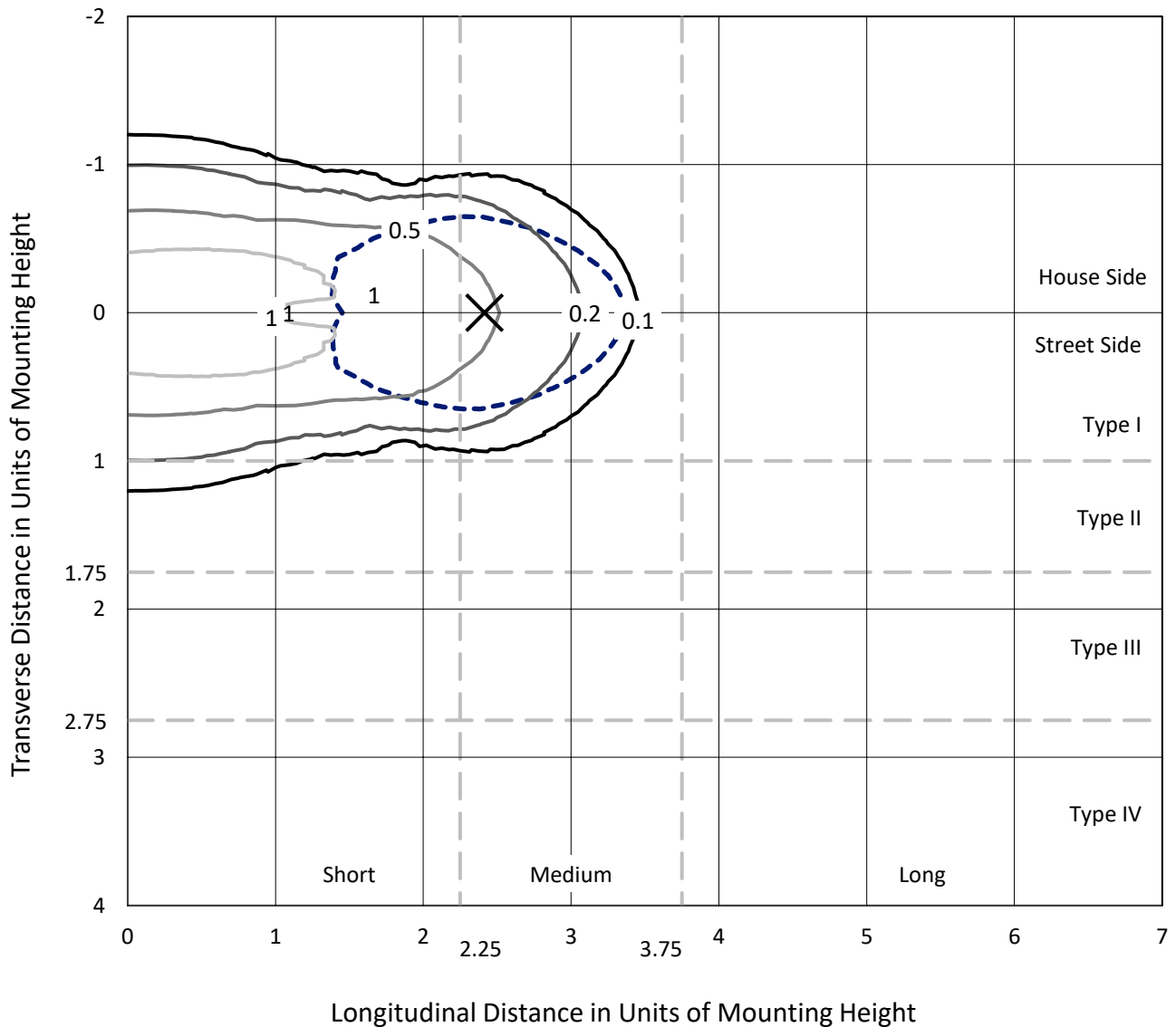
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

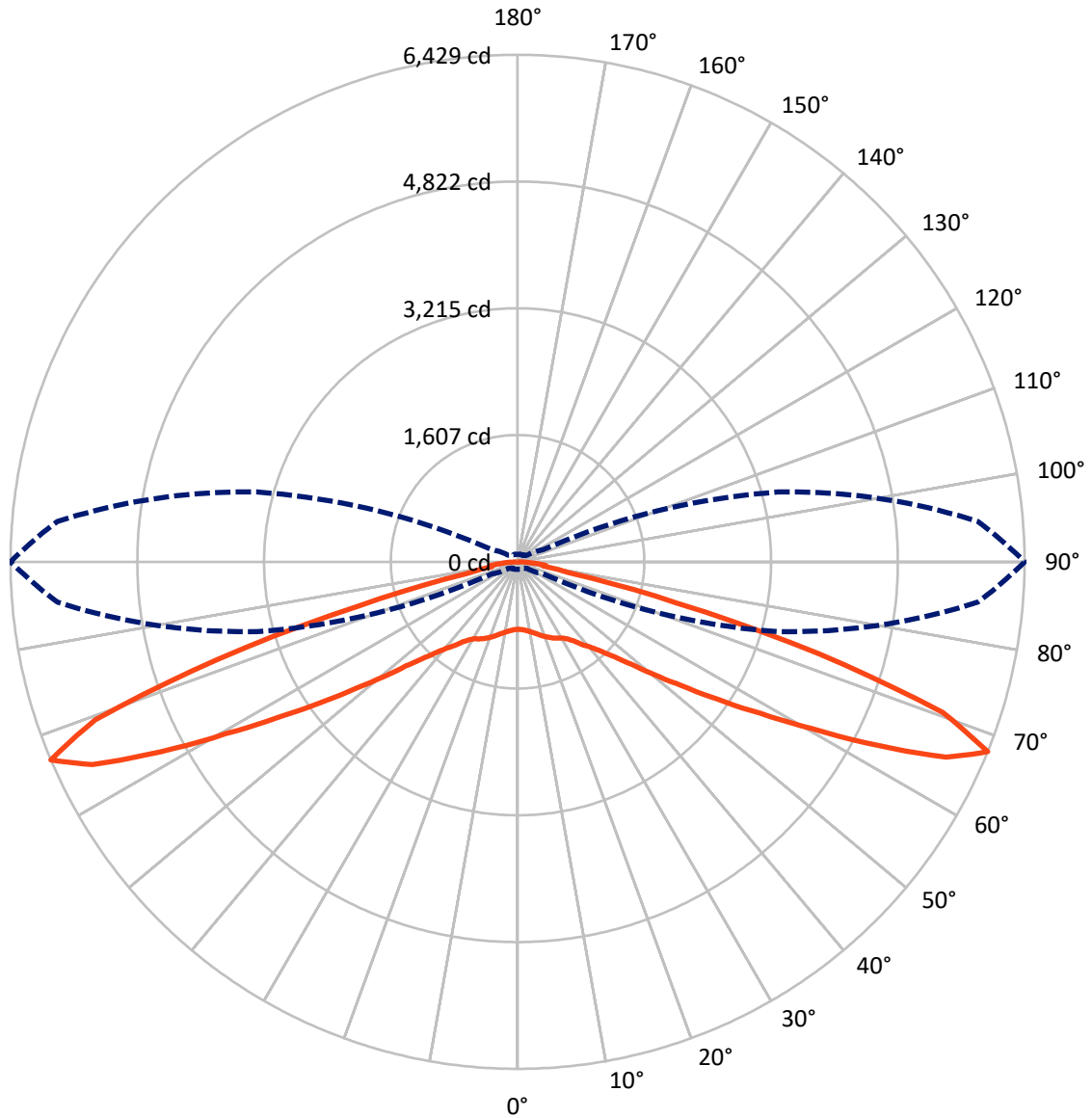
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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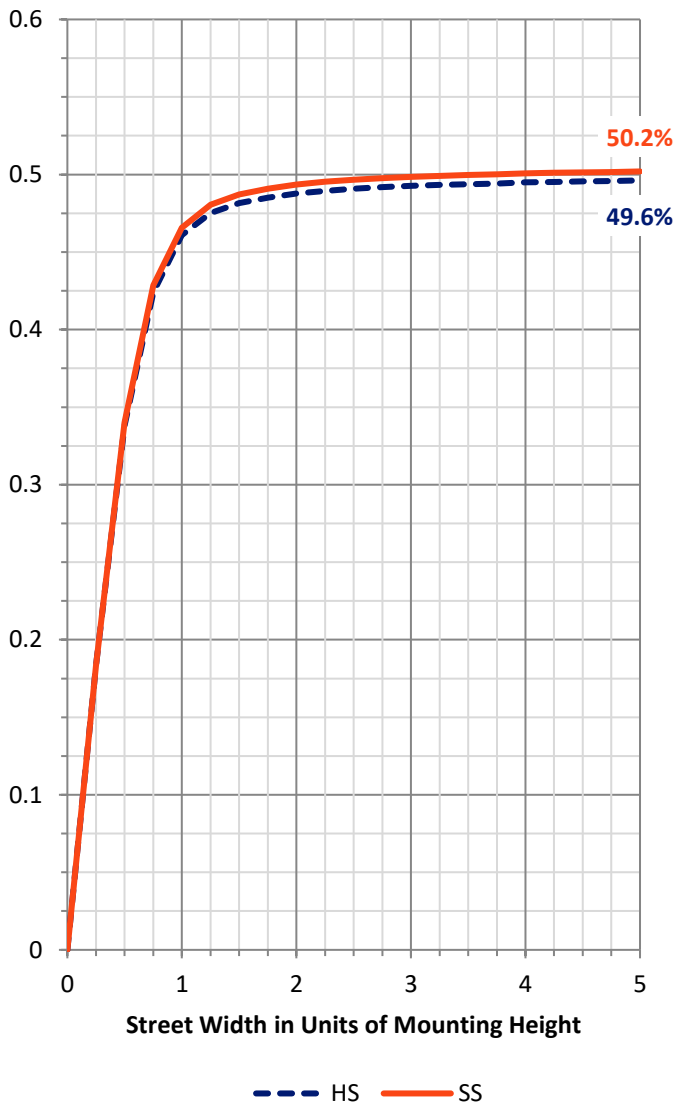
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2417.0	0.0	2417.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2417.0	0.0	2417.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4834.1	0.0	4834.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	1.8
10°-20°	273.0	5.6
20°-30°	456.9	9.5
30°-40°	619.0	12.8
40°-50°	784.0	16.2
50°-60°	979.5	20.3
60°-70°	1151.3	23.8
70°-80°	440.4	9.1
80°-90°	44.6	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°	4834.1	100.0
0°-180°	4834.1	100.0

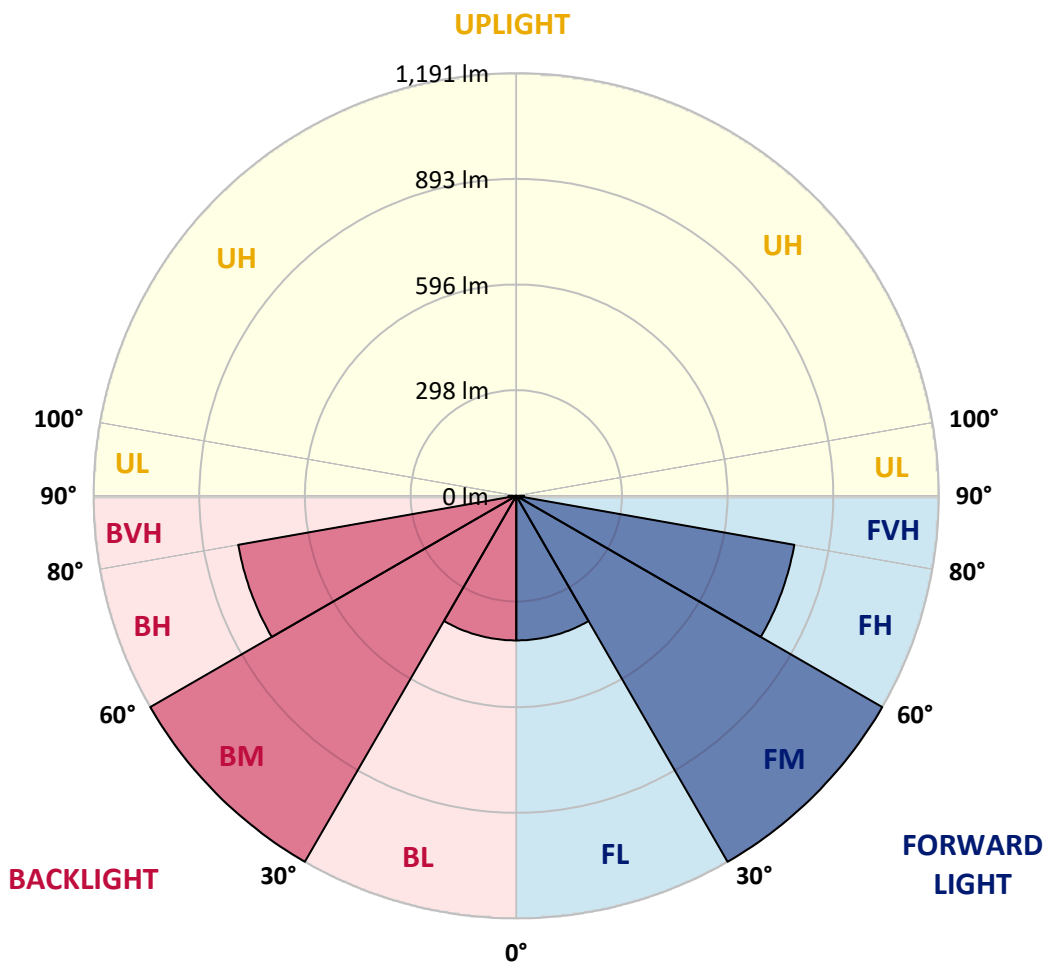


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.6	8.4			
FM (30°-60°)	1191.2	24.6			
FH (60°-80°)	795.9	16.5			G1/1800
FVH (80°-90°)	22.3	0.5			G1/100
BL (0°-30°)	407.6	8.4	B1/500		
BM (30°-60°)	1191.2	24.6	B2/2500		
BH (60°-80°)	795.9	16.5	B2/1000		G2/1000
BVH (80°-90°)	22.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	855.8	855.8	855.8	855.8	855.8	855.8	855.8	855.8	855.8	855.8	855.8
2.5°	866.7	866.2	866.5	866.2	867.0	866.5	863.3	860.6	858.5	858.7	857.9
5°	885.2	885.5	885.7	884.4	886.3	885.2	880.1	875.8	871.6	869.9	869.4
7.5°	900.5	901.8	902.6	904.0	907.2	907.2	904.5	898.4	888.9	883.6	883.4
10°	915.8	916.8	919.2	923.5	928.9	933.9	932.8	924.6	912.6	903.4	901.3
12.5°	921.1	922.4	930.5	942.8	954.8	964.7	964.7	958.1	942.5	928.5	924.6
15°	902.4	904.7	919.2	945.5	977.1	998.7	1003.6	994.1	977.6	956.1	951.3
17.5°	865.1	871.0	892.2	931.0	983.5	1028.5	1042.3	1037.8	1016.3	989.1	983.5
20°	825.3	831.7	854.2	905.6	978.1	1045.9	1086.2	1087.3	1060.8	1021.2	1012.9
22.5°	781.4	786.2	815.1	875.3	962.0	1049.8	1124.0	1142.5	1106.6	1053.4	1041.6
25°	732.1	737.5	767.7	832.8	931.8	1045.3	1158.6	1199.2	1154.5	1087.6	1072.6
27.5°	685.0	687.2	719.6	785.7	891.9	1033.5	1184.0	1251.4	1207.5	1116.0	1097.0
30°	639.7	644.9	673.5	738.8	846.1	1010.5	1205.9	1310.9	1264.5	1145.7	1121.3
32.5°	591.8	598.0	629.1	695.2	800.4	976.0	1219.3	1375.9	1344.0	1193.9	1167.9
35°	545.8	549.8	581.1	645.4	755.6	935.8	1221.7	1449.2	1446.5	1267.0	1232.4
37.5°	498.7	504.6	536.1	597.7	708.3	893.2	1209.7	1527.1	1570.2	1368.4	1331.2
40°	453.5	458.5	489.6	551.7	654.5	841.3	1181.0	1598.3	1714.5	1472.8	1420.0
42.5°	404.2	405.5	439.5	502.7	601.7	781.1	1139.8	1661.7	1875.3	1612.8	1547.2
45°	348.3	351.7	383.3	445.4	541.3	713.7	1083.9	1714.2	2079.4	1806.9	1717.5
47.5°	292.3	295.3	324.1	385.4	475.2	636.3	997.7	1760.3	2288.7	2053.4	1936.2
50°	237.7	239.3	262.9	317.2	400.7	554.9	890.9	1775.0	2525.4	2402.5	2252.8
52.5°	187.9	190.3	208.2	250.8	321.2	458.8	775.5	1738.6	2801.5	2816.3	2605.3
55°	152.3	153.1	166.5	197.8	251.1	358.2	636.3	1637.2	3098.7	3346.6	3077.6
57.5°	131.2	131.7	139.2	156.6	193.3	270.1	493.6	1445.3	3365.6	3967.8	3622.0
60°	119.1	119.4	123.7	133.8	153.1	207.2	353.6	1174.3	3629.0	4659.3	4298.7
62.5°	111.6	111.6	114.5	120.2	129.6	159.0	256.2	847.2	3809.4	5360.9	5132.8
65°	104.4	104.4	106.6	110.6	115.6	130.1	189.2	552.5	3804.9	5871.9	5971.7
67.5°	96.1	96.1	97.7	101.8	104.7	111.9	146.2	361.9	3417.7	5860.7	6429.4
70°	86.2	86.2	88.3	91.8	94.2	98.7	115.4	247.6	2510.9	5004.0	5718.0
72.5°	76.3	76.5	77.9	81.4	83.3	86.0	95.8	173.5	1540.2	3407.3	3998.1
75°	65.3	65.9	67.2	70.6	72.2	73.3	80.8	123.7	779.2	1837.1	2091.7
77.5°	52.7	53.8	54.6	58.4	59.5	61.1	66.7	89.4	342.1	660.1	666.0
80°	38.5	39.9	42.3	45.8	46.6	47.7	50.9	63.4	155.0	301.4	327.4
82.5°	28.3	30.3	27.3	31.9	31.9	30.5	35.9	42.6	71.2	298.5	357.1
85°	15.6	15.8	14.2	16.3	17.4	17.2	19.0	20.9	34.6	199.1	205.3
87.5°	3.8	4.0	4.3	5.0	6.1	6.1	6.7	5.9	11.3	64.5	36.9
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)