

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: P647397

Luminaire Tested: **GALN-SA4D-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647397  
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-SA4D-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23919.9 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

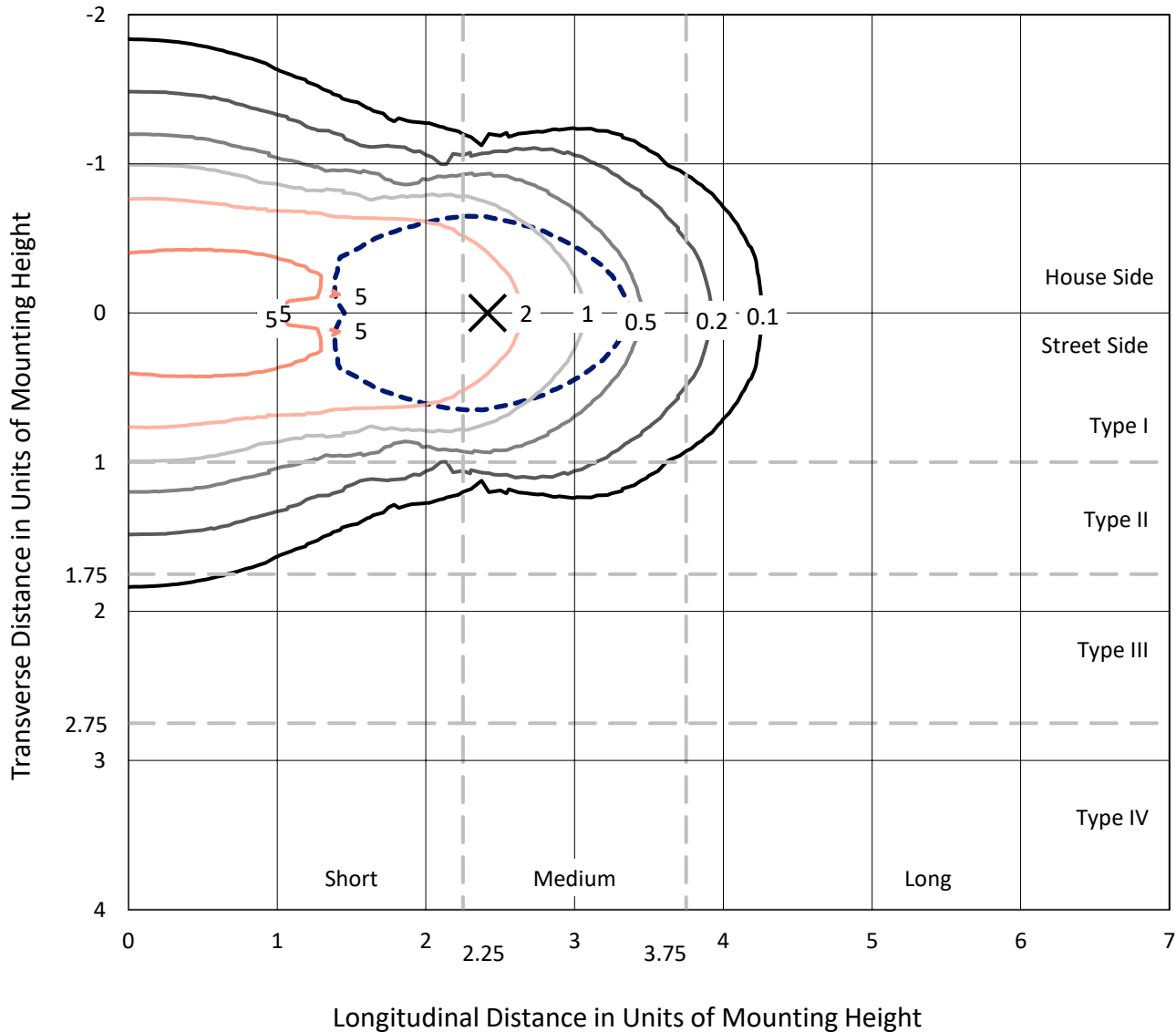
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647397  
 CATALOG NUMBER: GALN-SA4D-835-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

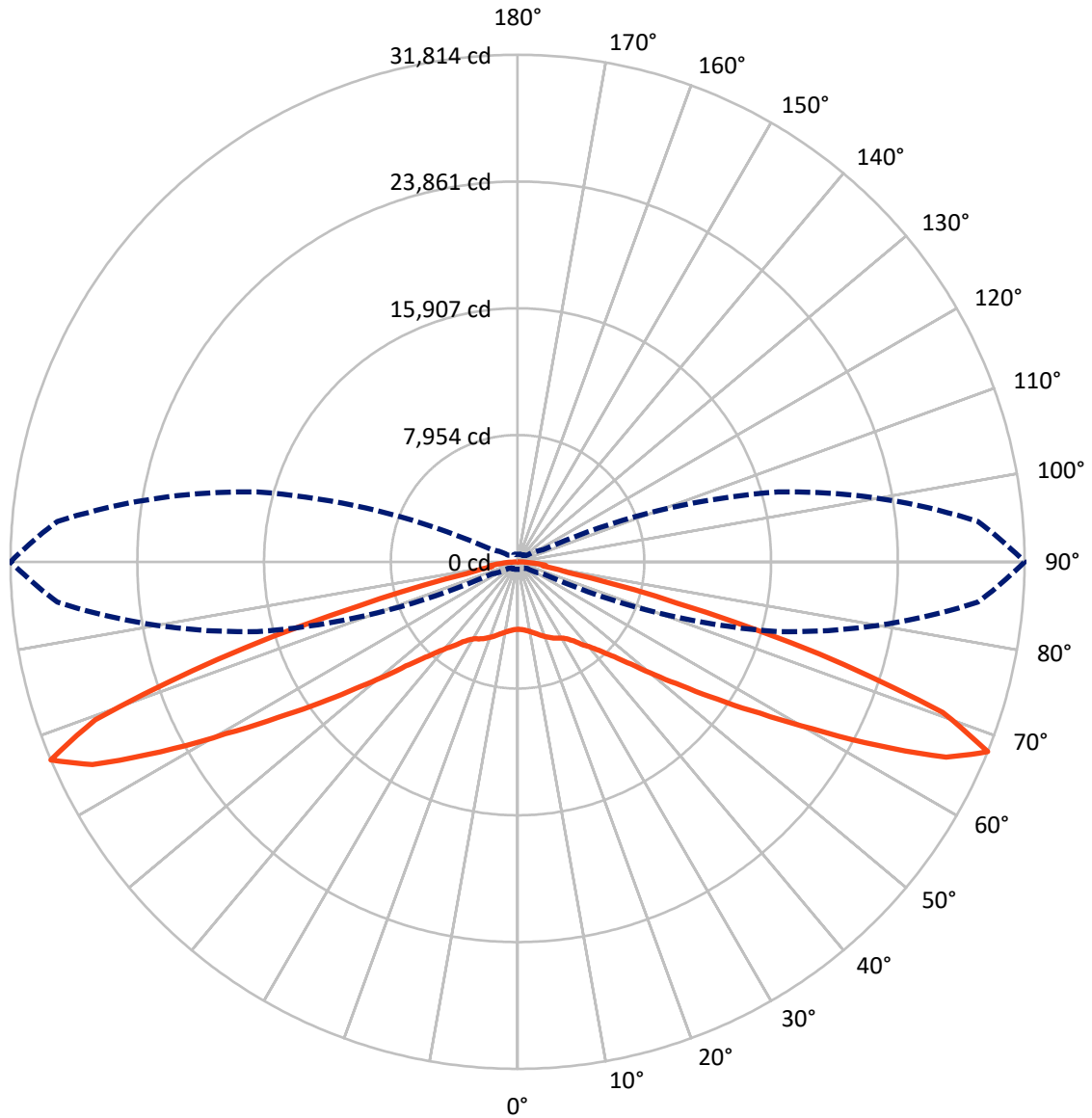
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type I - Short - N/A

REPORT NUMBER: P647397  
CATALOG NUMBER: GALN-SA4D-835-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647397  
 CATALOG NUMBER: GALN-SA4D-835-U-T1

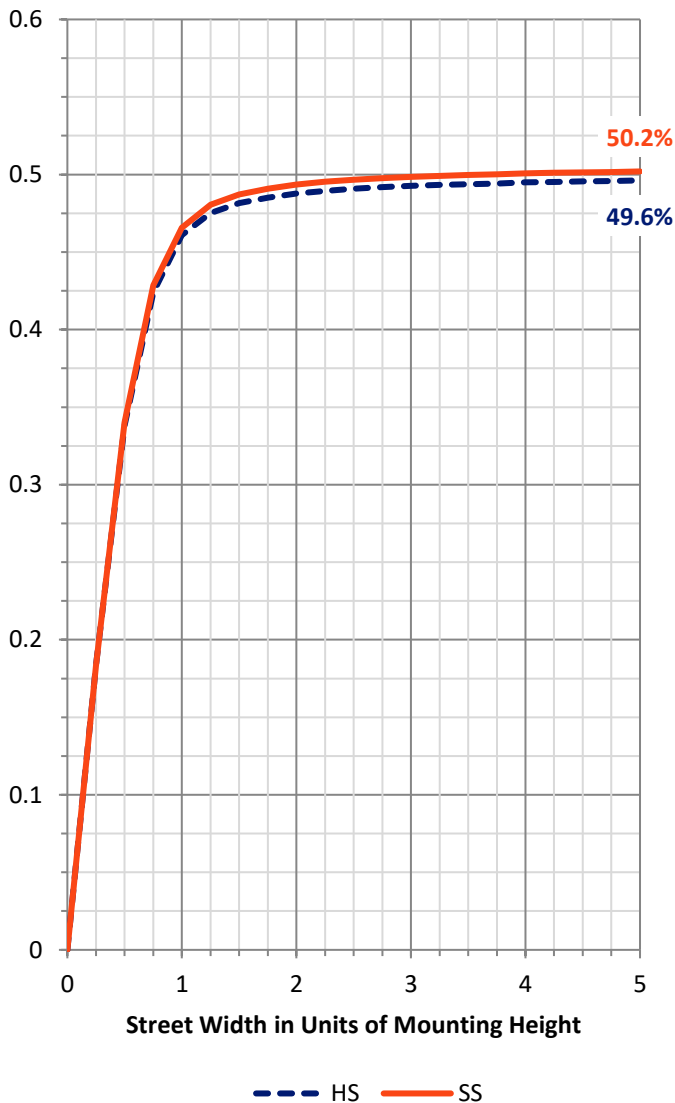
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11959.9	0.0	11959.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11959.9	0.0	11959.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23919.9	0.0	23919.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.2	1.8
10°-20°	1350.8	5.6
20°-30°	2260.8	9.5
30°-40°	3062.8	12.8
40°-50°	3879.6	16.2
50°-60°	4846.6	20.3
60°-70°	5696.9	23.8
70°-80°	2179.3	9.1
80°-90°	220.8	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°	23919.9	100.0
0°-180°	23919.9	100.0

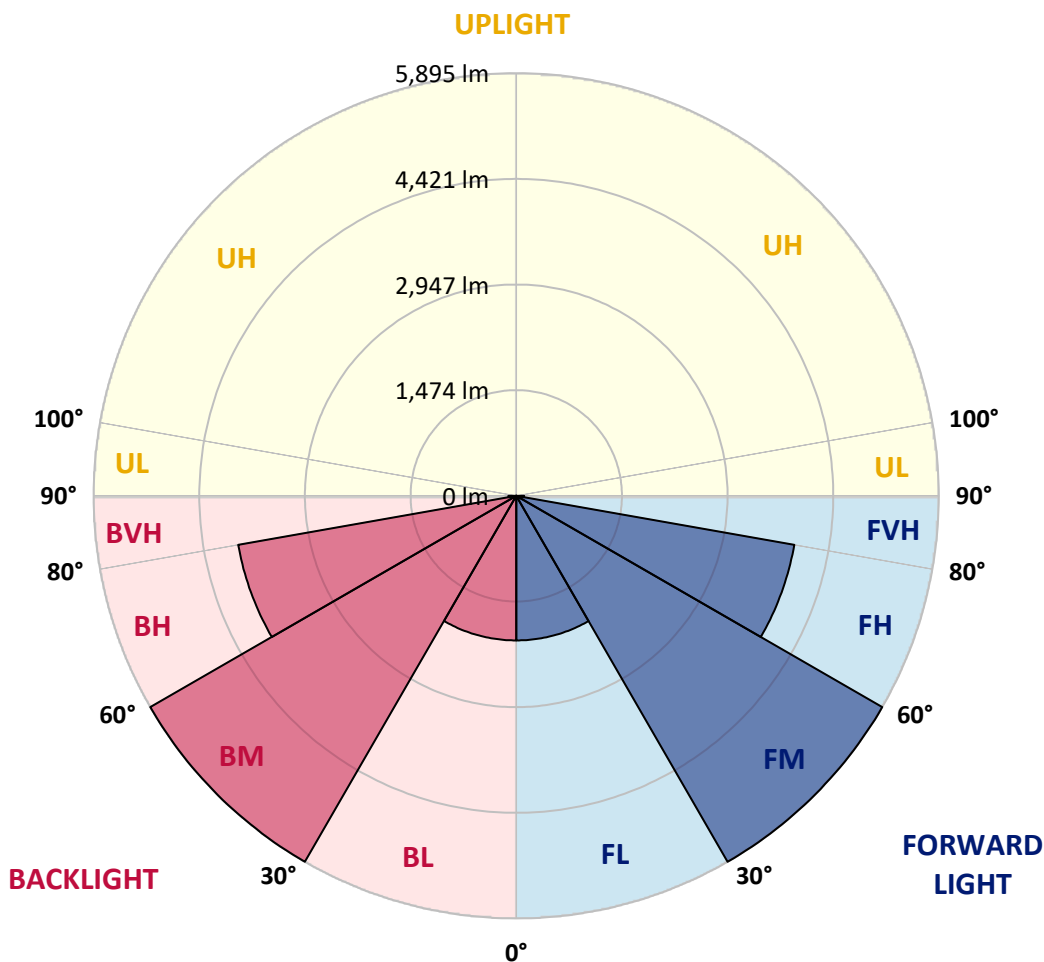


REPORT NUMBER: P647397  
 CATALOG NUMBER: GALN-SA4D-835-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.9	8.4			
FM (30°-60°)	5894.5	24.6			
FH (60°-80°)	3938.1	16.5			G2/5000
FVH (80°-90°)	110.4	0.5			G2/225
BL (0°-30°)	2016.9	8.4	B3/2500		
BM (30°-60°)	5894.5	24.6	B4/8500		
BH (60°-80°)	3938.1	16.5	B4/5000		G4/5000
BVH (80°-90°)	110.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type I Short





REPORT NUMBER: P647397  
 CATALOG NUMBER: GALN-SA4D-835-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4234.5	4234.5	4234.5	4234.5	4234.5	4234.5	4234.5	4234.5	4234.5	4234.5	4234.5
2.5°	4288.9	4286.2	4287.6	4286.2	4290.2	4287.6	4271.7	4258.4	4247.8	4249.1	4245.2
5°	4380.3	4381.6	4382.9	4376.3	4385.6	4380.3	4355.1	4333.9	4312.7	4304.8	4302.1
7.5°	4455.7	4462.4	4466.4	4473.0	4488.9	4488.9	4475.6	4445.2	4398.8	4372.4	4371.0
10°	4531.2	4536.5	4548.4	4569.7	4596.1	4621.3	4616.0	4575.0	4515.3	4470.3	4459.7
12.5°	4557.8	4564.3	4604.1	4665.0	4724.6	4773.6	4773.6	4740.5	4663.7	4594.8	4575.0
15°	4465.1	4477.0	4548.4	4678.3	4834.6	4941.9	4965.7	4919.4	4837.2	4731.3	4707.4
17.5°	4280.9	4310.0	4414.7	4606.8	4866.3	5088.9	5157.8	5135.2	5029.3	4894.2	4866.3
20°	4083.6	4115.4	4226.6	4481.0	4839.9	5175.0	5375.0	5380.3	5249.2	5053.1	5012.1
22.5°	3866.4	3890.2	4033.2	4331.2	4760.4	5194.9	5561.7	5653.2	5475.7	5212.0	5153.8
25°	3622.6	3649.1	3798.8	4120.6	4610.7	5172.3	5732.7	5934.0	5712.8	5381.6	5307.4
27.5°	3389.5	3400.1	3560.4	3887.5	4413.4	5114.1	5858.5	6192.2	5975.0	5522.0	5428.0
30°	3165.7	3190.8	3332.5	3655.7	4186.9	5000.2	5967.1	6486.3	6257.1	5669.1	5548.5
32.5°	2928.6	2959.0	3112.7	3439.8	3960.4	4829.3	6033.3	6808.2	6650.5	5907.4	5779.0
35°	2700.7	2720.6	2875.6	3193.5	3739.2	4630.6	6045.2	7171.1	7157.8	6269.1	6098.2
37.5°	2467.6	2496.8	2653.0	2957.7	3504.7	4420.0	5985.6	7556.5	7769.8	6771.1	6586.9
40°	2243.8	2269.0	2422.6	2729.9	3238.5	4163.1	5843.8	7908.8	8483.7	7287.6	7026.7
42.5°	2000.1	2006.7	2174.9	2487.5	2977.6	3865.0	5639.9	8222.8	9279.7	7980.3	7655.9
45°	1723.2	1740.5	1896.7	2204.1	2678.3	3531.3	5363.1	8482.4	10289.0	8940.7	8498.3
47.5°	1446.4	1461.0	1604.1	1907.3	2351.0	3148.4	4936.6	8710.2	11324.8	10160.6	9580.4
50°	1176.2	1184.1	1300.7	1569.6	1982.9	2745.7	4408.1	8783.1	12495.7	11887.7	11147.3
52.5°	929.8	941.7	1030.5	1241.1	1589.4	2270.2	3837.2	8602.9	13862.6	13935.5	12891.8
55°	753.6	757.6	823.9	978.8	1242.4	1772.2	3148.4	8100.9	15332.9	16559.4	15228.3
57.5°	649.0	651.7	688.7	774.9	956.4	1336.4	2442.5	7151.2	16653.5	19633.7	17922.4
60°	589.4	590.8	611.9	662.3	757.6	1025.2	1749.7	5810.8	17956.9	23055.0	21270.8
62.5°	552.3	552.3	566.9	594.7	641.0	786.8	1267.6	4192.2	18849.6	26526.6	25398.1
65°	516.5	516.5	527.2	547.0	572.2	643.7	936.5	2733.8	18827.1	29055.2	29549.2
67.5°	475.5	475.5	483.4	503.3	517.9	553.7	723.2	1790.8	16911.8	28999.5	31814.2
70°	426.5	426.5	437.1	454.3	466.3	488.7	570.9	1225.2	12424.2	24761.0	28293.5
72.5°	377.5	378.8	385.5	402.7	411.9	425.2	474.2	858.3	7621.4	16860.1	19783.4
75°	323.2	325.8	332.5	349.7	357.6	362.9	400.0	611.9	3855.7	9090.3	10350.0
77.5°	261.0	266.2	270.2	288.8	294.0	302.0	329.8	442.4	1692.8	3266.3	3295.5
80°	190.7	197.4	209.3	226.5	230.4	235.8	251.7	313.9	766.9	1491.5	1619.9
82.5°	140.4	149.7	135.1	157.6	157.6	151.0	177.5	210.6	352.4	1476.9	1766.9
85°	76.8	78.1	70.2	80.8	86.1	84.8	94.0	103.3	170.9	985.5	1015.9
87.5°	18.6	19.9	21.2	25.1	30.5	30.5	33.1	29.1	55.6	319.2	182.8
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)