

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: P455919

Luminaire Tested: **GALN-SA7A-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455919  
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-SA7A-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23374 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

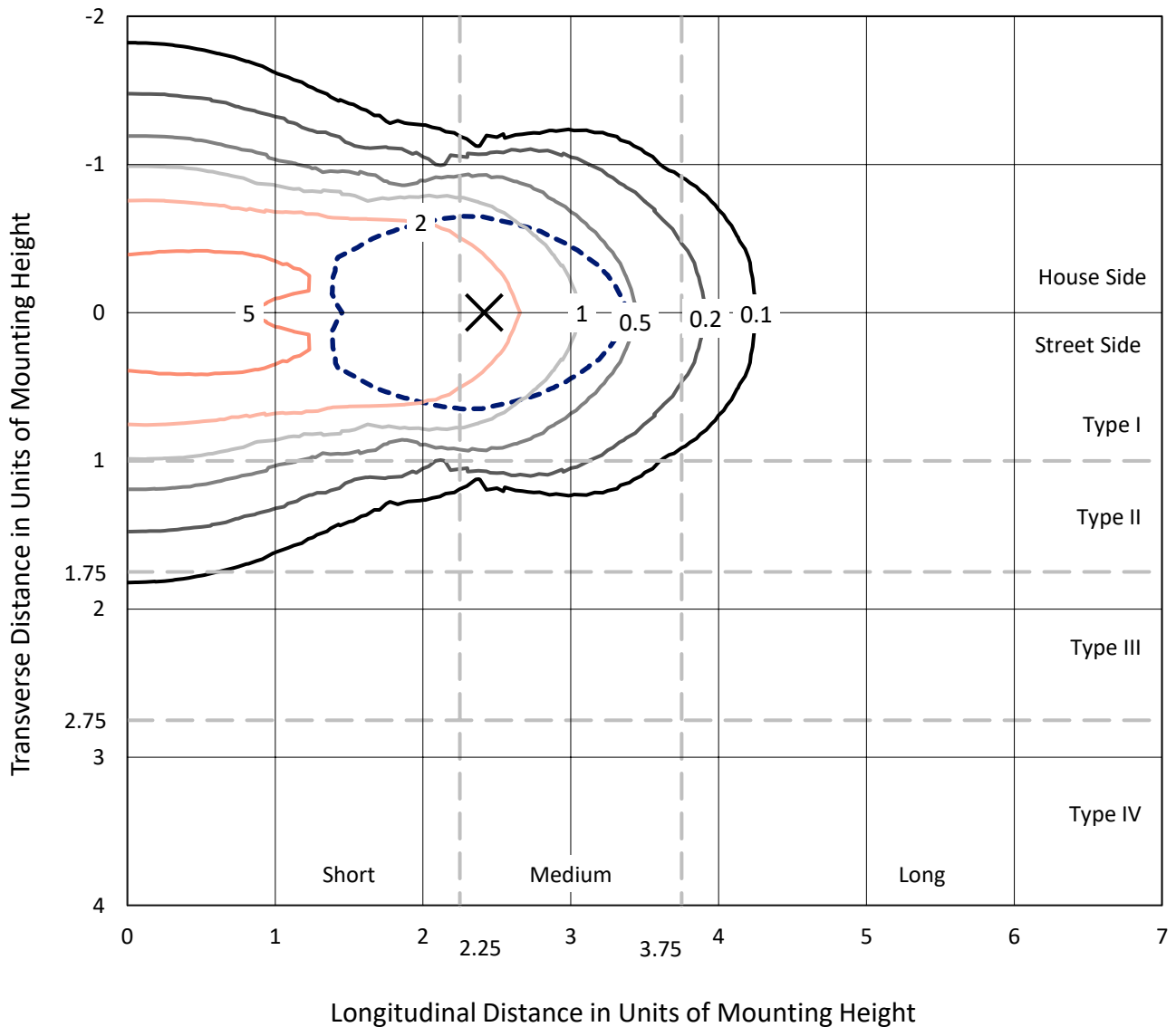
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

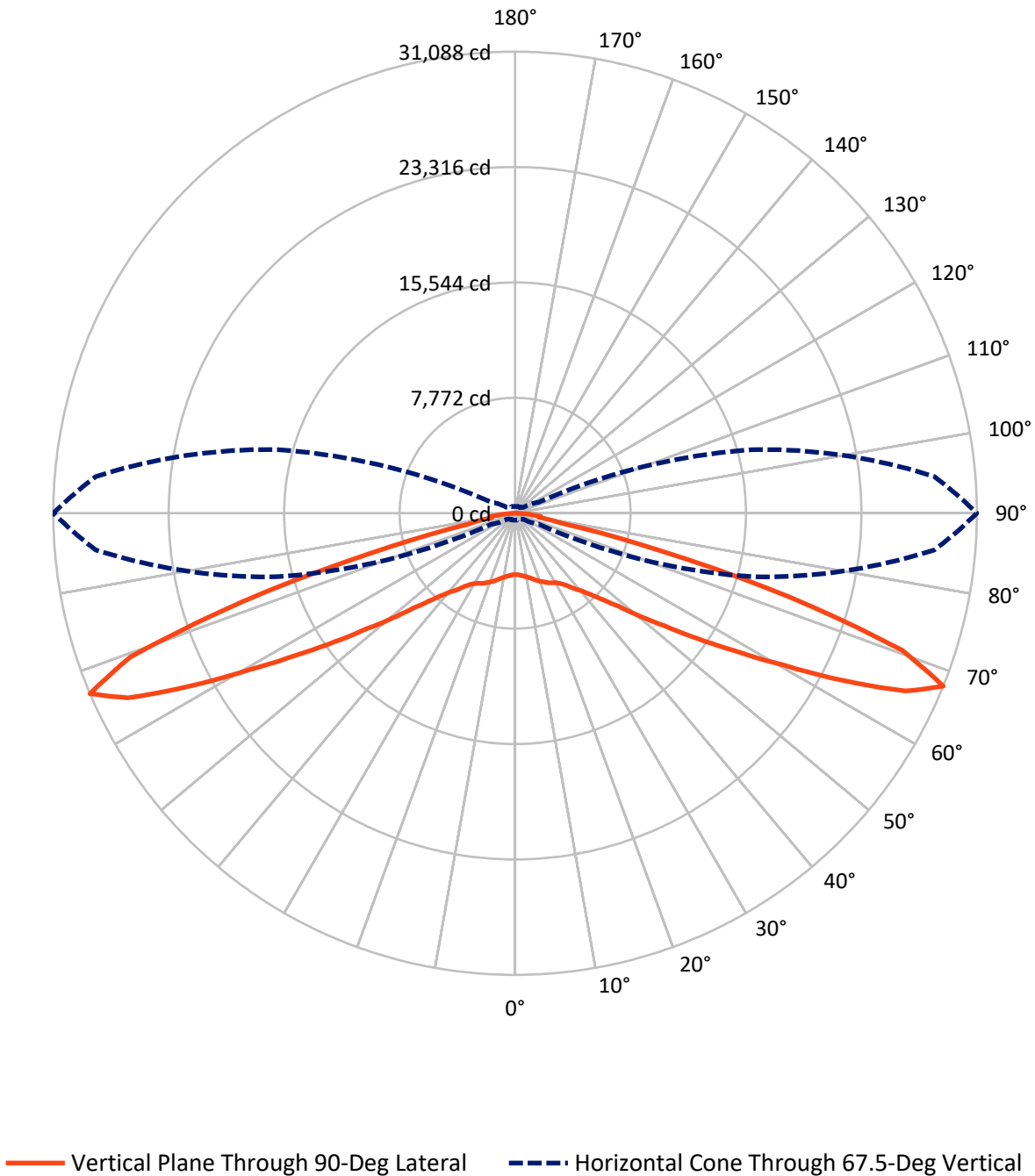
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11687.0	0.0	11687.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11687.0	0.0	11687.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23374.0	0.0	23374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.6	1.8
10°-20°	1319.9	5.6
20°-30°	2209.2	9.5
30°-40°	2992.9	12.8
40°-50°	3791.1	16.2
50°-60°	4736.0	20.3
60°-70°	5566.9	23.8
70°-80°	2129.6	9.1
80°-90°	215.8	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°	23374.0	100.0
0°-180°	23374.0	100.0

**Coefficient of Utilization**



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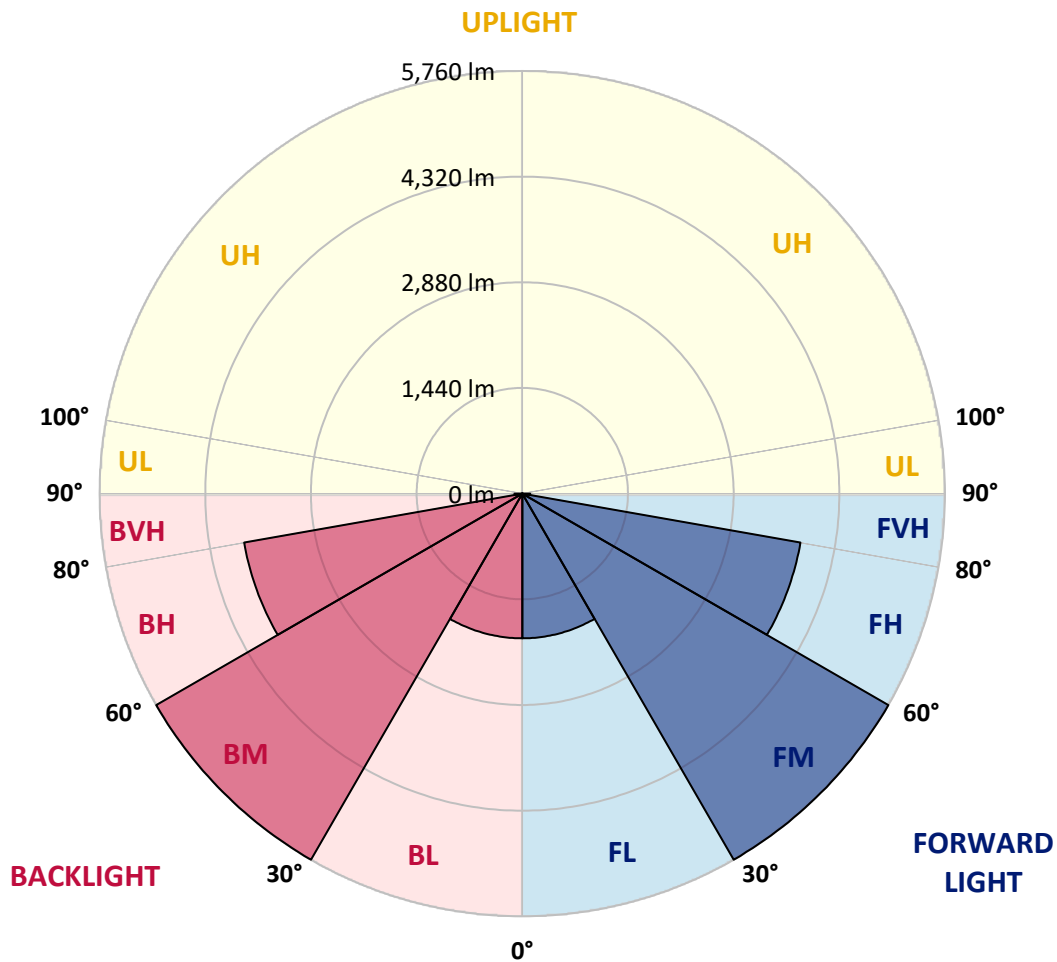
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.9	8.4			
FM (30°-60°)	5760.0	24.6			
FH (60°-80°)	3848.3	16.5			G2/5000
FVH (80°-90°)	107.9	0.5			G2/225
BL (0°-30°)	1970.9	8.4	B3/2500		
BM (30°-60°)	5760.0	24.6	B4/8500		
BH (60°-80°)	3848.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	107.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4137.9	4137.9	4137.9	4137.9	4137.9	4137.9	4137.9	4137.9	4137.9	4137.9	4137.9
2.5°	4191.0	4188.4	4189.7	4188.4	4192.3	4189.7	4174.2	4161.2	4150.9	4152.2	4148.3
5°	4280.3	4281.6	4282.9	4276.4	4285.5	4280.3	4255.7	4235.0	4214.3	4206.5	4203.9
7.5°	4354.1	4360.5	4364.4	4370.9	4386.4	4386.4	4373.5	4343.7	4298.4	4272.5	4271.2
10°	4427.9	4433.0	4444.7	4465.4	4491.3	4515.9	4510.7	4470.6	4412.3	4368.3	4358.0
12.5°	4453.7	4460.2	4499.0	4558.6	4616.8	4664.7	4664.7	4632.4	4557.3	4490.0	4470.6
15°	4363.1	4374.8	4444.7	4571.5	4724.3	4829.1	4852.4	4807.1	4726.8	4623.3	4600.0
17.5°	4183.2	4211.7	4314.0	4501.6	4755.3	4972.8	5040.1	5018.1	4914.5	4782.5	4755.3
20°	3990.4	4021.4	4130.2	4378.7	4729.4	5056.9	5252.3	5257.5	5129.4	4937.8	4897.7
22.5°	3778.1	3801.4	3941.2	4232.4	4651.8	5076.3	5434.8	5524.1	5350.7	5093.1	5036.2
25°	3540.0	3565.8	3712.1	4026.6	4505.5	5054.3	5601.8	5798.5	5582.4	5258.8	5186.3
27.5°	3312.2	3322.5	3479.1	3798.8	4312.7	4997.4	5724.8	6050.9	5838.7	5396.0	5304.1
30°	3093.4	3118.0	3256.5	3572.3	4091.3	4886.0	5830.9	6338.3	6114.3	5539.7	5421.9
32.5°	2861.7	2891.5	3041.6	3361.3	3870.0	4719.1	5895.6	6652.8	6498.8	5772.6	5647.1
35°	2639.1	2658.5	2810.0	3120.6	3653.9	4524.9	5907.3	7007.4	6994.5	6126.0	5959.0
37.5°	2411.3	2439.8	2592.5	2890.2	3424.8	4319.1	5849.0	7384.1	7592.5	6616.5	6436.6
40°	2192.6	2217.2	2367.3	2667.6	3164.6	4068.0	5710.5	7728.4	8290.1	7121.3	6866.3
42.5°	1954.4	1960.9	2125.3	2430.7	2909.6	3776.8	5511.2	8035.1	9068.0	7798.2	7481.1
45°	1683.9	1700.7	1853.5	2153.7	2617.1	3450.6	5240.7	8288.8	10054.2	8736.6	8304.3
47.5°	1413.4	1427.6	1567.4	1863.8	2297.4	3076.6	4823.9	8511.4	11066.4	9928.7	9361.8
50°	1149.4	1157.1	1271.0	1533.8	1937.6	2683.1	4307.5	8582.6	12210.6	11616.5	10893.0
52.5°	908.6	920.3	1007.0	1212.8	1553.2	2218.5	3749.6	8406.6	13546.3	13617.5	12597.6
55°	736.5	740.3	805.1	956.5	1214.1	1731.8	3076.6	7916.0	14983.0	16181.5	14880.7
57.5°	634.2	636.8	673.0	757.2	934.5	1306.0	2386.7	6988.0	16273.4	19185.6	17513.4
60°	576.0	577.3	598.0	647.2	740.3	1001.8	1709.8	5678.2	17547.0	22528.9	20785.4
62.5°	539.7	539.7	554.0	581.1	626.4	768.8	1238.7	4096.5	18419.4	25921.3	24818.5
65°	504.8	504.8	515.1	534.6	559.1	629.0	915.1	2671.5	18397.4	28392.1	28874.9
67.5°	464.7	464.7	472.4	491.8	506.1	541.0	706.7	1749.9	16525.8	28337.7	31088.2
70°	416.8	416.8	427.1	444.0	455.6	477.6	557.8	1197.2	12140.7	24195.9	27647.9
72.5°	368.9	370.2	376.6	393.5	402.5	415.5	463.4	838.7	7447.5	16475.3	19331.9
75°	315.8	318.4	324.9	341.7	349.5	354.6	390.9	598.0	3767.8	8882.9	10113.8
77.5°	255.0	260.2	264.0	282.2	287.3	295.1	322.3	432.3	1654.1	3191.8	3220.3
80°	186.4	192.9	204.5	221.3	225.2	230.4	245.9	306.8	749.4	1457.4	1582.9
82.5°	137.2	146.3	132.0	154.0	154.0	147.6	173.4	205.8	344.3	1443.2	1726.6
85°	75.1	76.4	68.6	79.0	84.1	82.8	91.9	101.0	167.0	963.0	992.7
87.5°	18.1	19.4	20.7	24.6	29.8	29.8	32.4	28.5	54.4	311.9	178.6
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)