

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: P453831

Luminaire Tested: **GALN-SA4D-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453831  
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-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22457 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

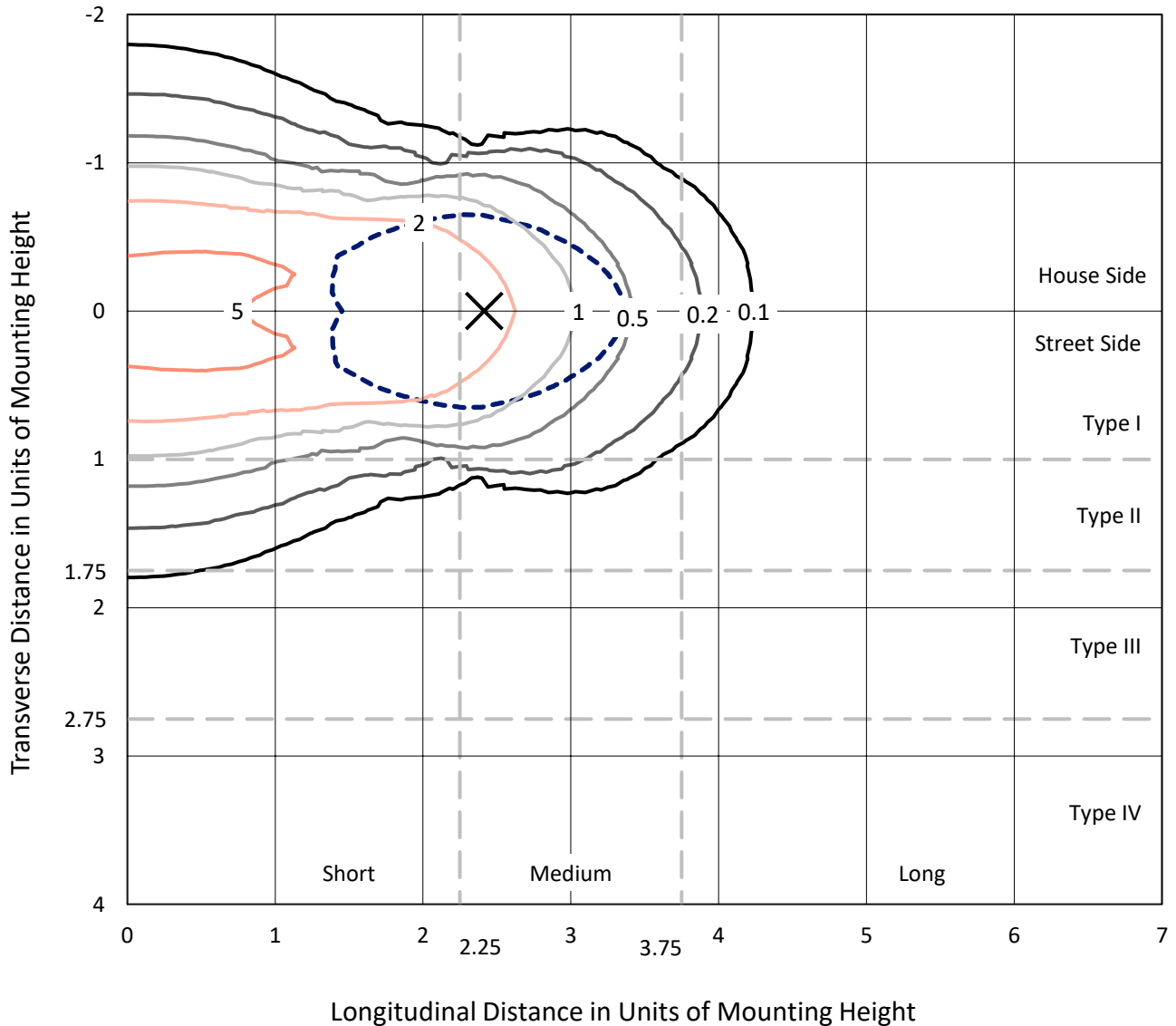
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

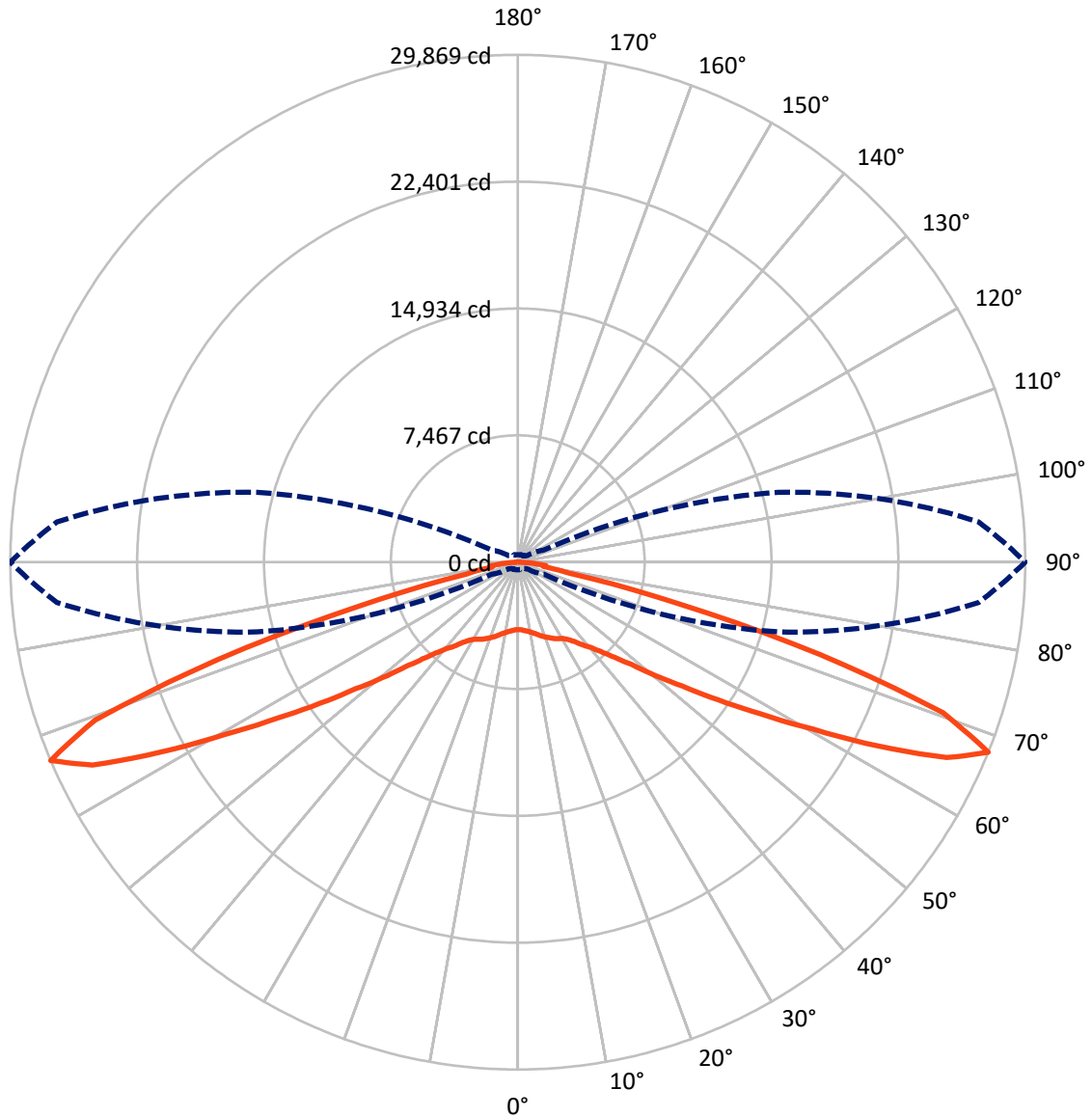
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	11228.5	0.0	11228.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11228.5	0.0	11228.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22457.0	0.0	22457.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.4	1.8
10°-20°	1268.2	5.6
20°-30°	2122.6	9.5
30°-40°	2875.5	12.8
40°-50°	3642.3	16.2
50°-60°	4550.2	20.3
60°-70°	5348.5	23.8
70°-80°	2046.1	9.1
80°-90°	207.3	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°	22457.0	100.0
0°-180°	22457.0	100.0



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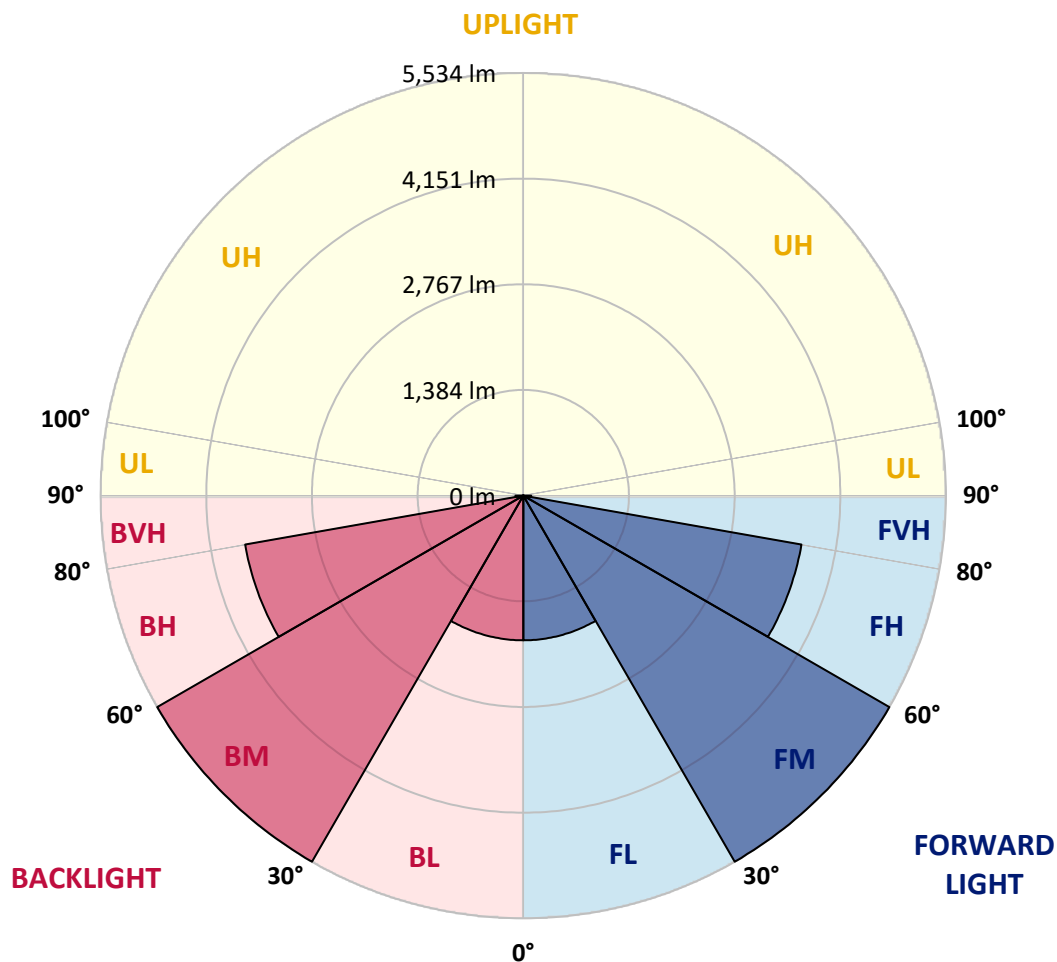
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.5	8.4			
FM (30°-60°)	5534.0	24.6			
FH (60°-80°)	3697.3	16.5			G2/5000
FVH (80°-90°)	103.6	0.5			G2/225
BL (0°-30°)	1893.5	8.4	B3/2500		
BM (30°-60°)	5534.0	24.6	B4/8500		
BH (60°-80°)	3697.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	103.6	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°	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6
2.5°	4026.6	4024.1	4025.3	4024.1	4027.8	4025.3	4010.4	3998.0	3988.0	3989.3	3985.5
5°	4112.4	4113.6	4114.9	4108.6	4117.4	4112.4	4088.8	4068.9	4049.0	4041.5	4039.0
7.5°	4183.3	4189.5	4193.2	4199.4	4214.3	4214.3	4201.9	4173.3	4129.8	4104.9	4103.7
10°	4254.1	4259.1	4270.3	4290.2	4315.1	4338.7	4333.7	4295.2	4239.2	4196.9	4187.0
12.5°	4279.0	4285.2	4322.5	4379.7	4435.7	4481.7	4481.7	4450.6	4378.5	4313.8	4295.2
15°	4192.0	4203.2	4270.3	4392.2	4538.9	4639.6	4662.0	4618.5	4541.4	4441.9	4419.5
17.5°	4019.1	4046.5	4144.7	4325.0	4568.8	4777.7	4842.3	4821.2	4721.7	4594.9	4568.8
20°	3833.8	3863.7	3968.1	4206.9	4543.9	4858.5	5046.3	5051.2	4928.1	4744.1	4705.5
22.5°	3629.9	3652.3	3786.6	4066.4	4469.3	4877.2	5221.6	5307.4	5140.8	4893.3	4838.6
25°	3401.1	3425.9	3566.5	3868.6	4328.8	4856.0	5382.0	5571.0	5363.4	5052.5	4982.9
27.5°	3182.2	3192.2	3342.6	3649.8	4143.5	4801.3	5500.2	5813.5	5609.6	5184.3	5096.0
30°	2972.1	2995.7	3128.7	3432.2	3930.8	4694.4	5602.1	6089.6	5874.5	5322.3	5209.2
32.5°	2749.5	2778.1	2922.3	3229.5	3718.2	4533.9	5664.3	6391.8	6243.8	5546.2	5425.6
35°	2535.6	2554.2	2699.7	2998.2	3510.5	4347.4	5675.5	6732.5	6720.1	5885.7	5725.2
37.5°	2316.7	2344.1	2490.8	2776.8	3290.4	4149.7	5619.5	7094.4	7294.6	6357.0	6184.1
40°	2106.6	2130.2	2274.4	2562.9	3040.4	3908.4	5486.5	7425.2	7964.9	6841.9	6597.0
42.5°	1877.7	1884.0	2041.9	2335.4	2795.5	3628.6	5295.0	7719.9	8712.2	7492.3	7187.6
45°	1617.8	1634.0	1780.7	2069.2	2514.4	3315.3	5035.1	7963.6	9659.8	8393.9	7978.5
47.5°	1357.9	1371.6	1505.9	1790.7	2207.3	2955.9	4634.7	8177.5	10632.2	9539.2	8994.5
50°	1104.3	1111.7	1221.2	1473.6	1861.6	2577.9	4138.5	8245.9	11731.5	11160.7	10465.6
52.5°	873.0	884.2	967.5	1165.2	1492.2	2131.4	3602.5	8076.8	13014.9	13083.3	12103.3
55°	707.6	711.3	773.5	919.0	1166.4	1663.9	2955.9	7605.5	14395.2	15546.7	14296.9
57.5°	609.3	611.8	646.6	727.5	897.8	1254.7	2293.1	6713.9	15635.0	18433.0	16826.3
60°	553.4	554.6	574.5	621.8	711.3	962.5	1642.7	5455.4	16858.6	21645.0	19970.0
62.5°	518.6	518.6	532.2	558.3	601.9	738.7	1190.1	3935.8	17696.8	24904.3	23844.8
65°	485.0	485.0	494.9	513.6	537.2	604.4	879.2	2566.7	17675.6	27278.2	27742.1
67.5°	446.4	446.4	453.9	472.5	486.2	519.8	679.0	1681.3	15877.5	27226.0	29868.5
70°	400.4	400.4	410.4	426.5	437.7	458.9	536.0	1150.3	11664.4	23246.7	26563.2
72.5°	354.4	355.7	361.9	378.0	386.7	399.2	445.2	805.8	7155.3	15829.0	18573.5
75°	303.4	305.9	312.1	328.3	335.8	340.7	375.5	574.5	3619.9	8534.4	9717.0
77.5°	245.0	250.0	253.7	271.1	276.1	283.5	309.6	415.3	1589.2	3066.6	3093.9
80°	179.1	185.3	196.5	212.6	216.4	221.3	236.3	294.7	720.0	1400.2	1520.8
82.5°	131.8	140.5	126.8	148.0	148.0	141.8	166.6	197.7	330.8	1386.5	1658.9
85°	72.1	73.4	65.9	75.9	80.8	79.6	88.3	97.0	160.4	925.2	953.8
87.5°	17.4	18.7	19.9	23.6	28.6	28.6	31.1	27.4	52.2	299.7	171.6
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)