

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: P458460

Luminaire Tested: **GALN-SA9D-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9D-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53190 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

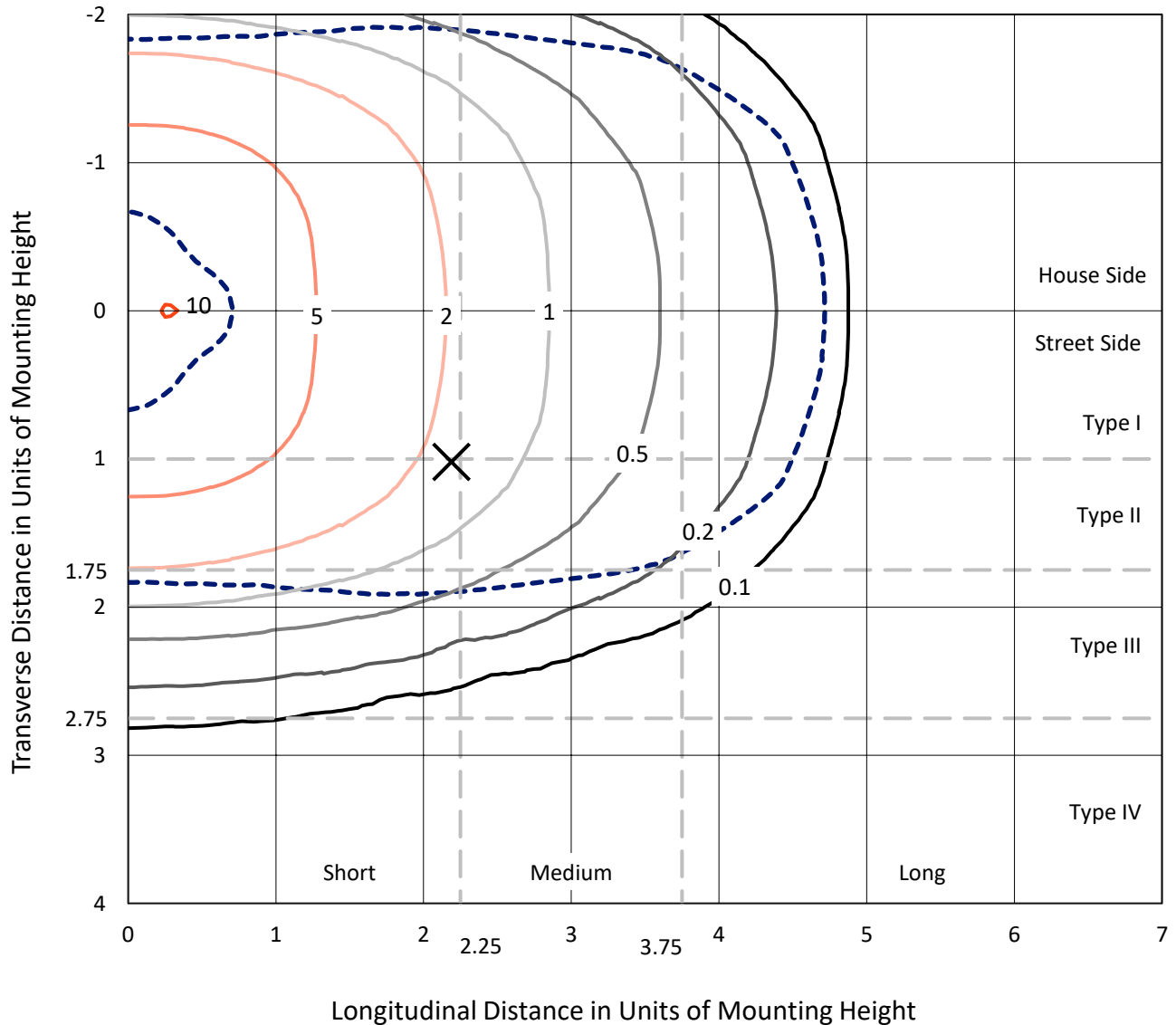
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

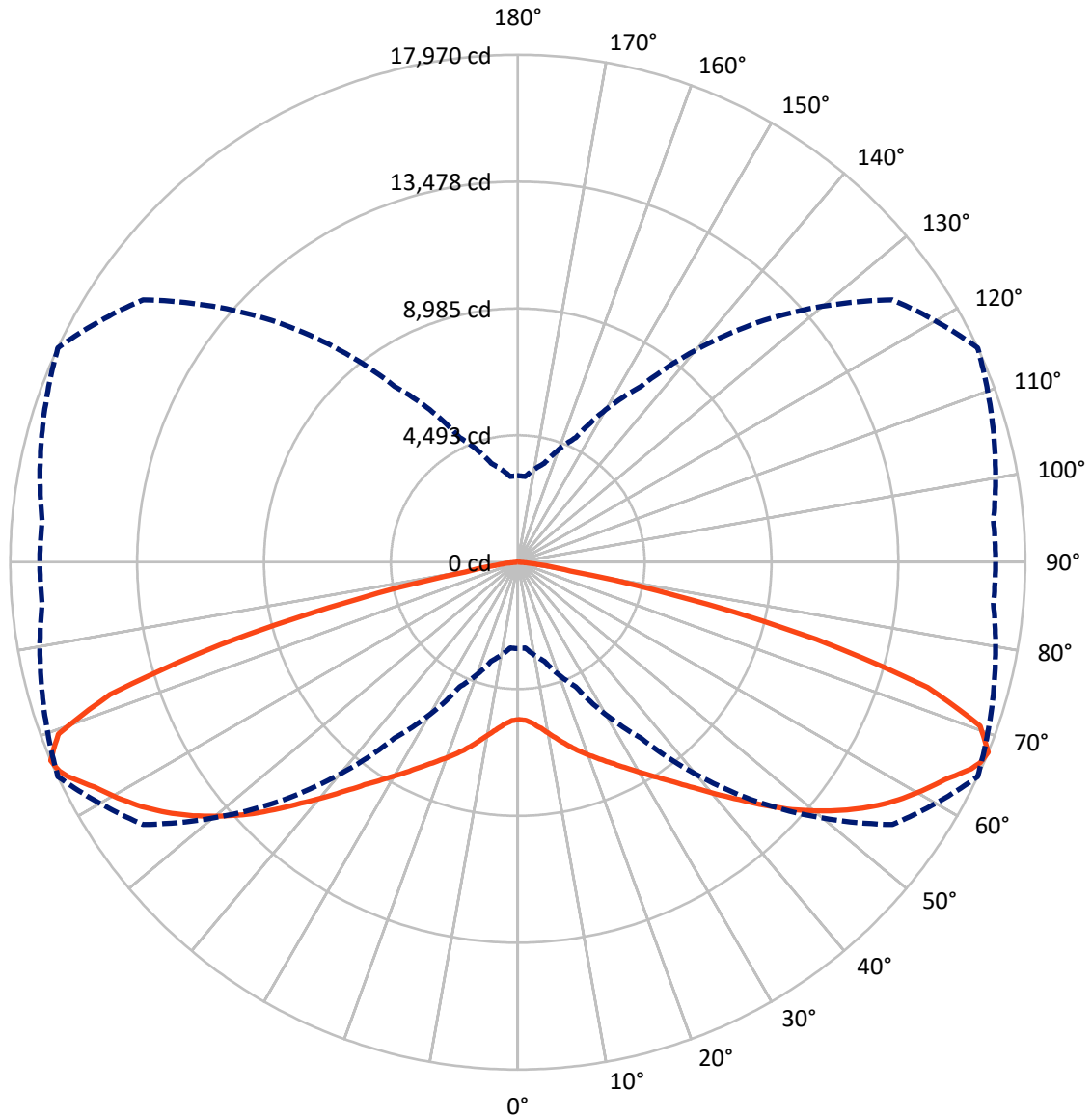
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26595.0	0.0	26595.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26595.0	0.0	26595.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53190.0	0.0	53190.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.5	1.0
10°-20°	1839.0	3.5
20°-30°	3597.3	6.8
30°-40°	6118.5	11.5
40°-50°	9683.7	18.2
50°-60°	12840.4	24.1
60°-70°	12112.4	22.8
70°-80°	5987.8	11.3
80°-90°	461.5	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°	53190.0	100.0
0°-180°	53190.0	100.0



REPORT NUMBER: P458460

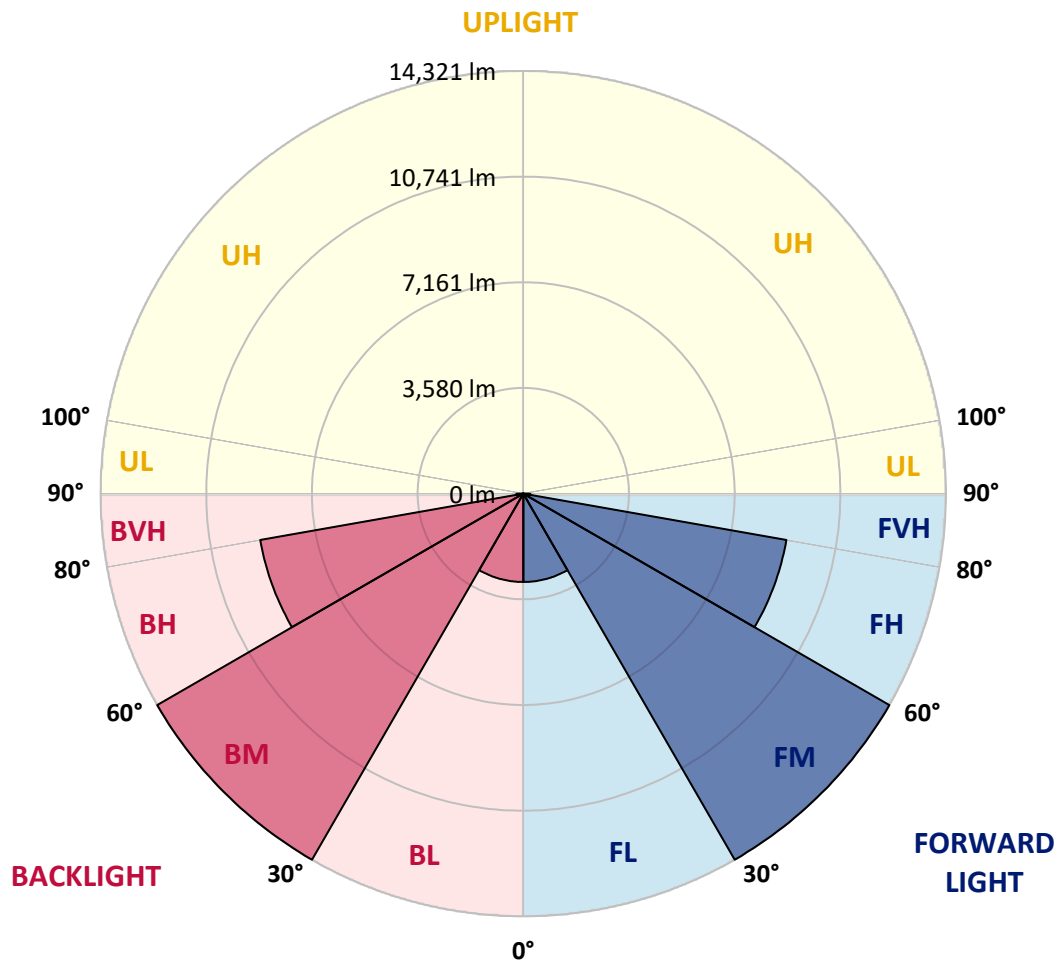
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2992.9	5.6			
FM	(30°-60°)	14321.3	26.9			
FH	(60°-80°)	9050.1	17.0			G4/12000
FVH	(80°-90°)	230.7	0.4			G3/500
BL	(0°-30°)	2992.9	5.6	B4/5000		
BM	(30°-60°)	14321.3	26.9	B5		
BH	(60°-80°)	9050.1	17.0	B5		G5
BVH	(80°-90°)	230.7	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5571.2	5571.2	5571.2	5571.2	5571.2	5571.2	5571.2	5571.2	5571.2	5571.2	5571.2
2.5°	5542.7	5548.4	5554.1	5562.6	5574.0	5591.1	5602.5	5611.1	5633.9	5636.7	5633.9
5°	5522.7	5528.4	5542.7	5568.3	5605.4	5656.7	5696.6	5745.0	5782.1	5807.7	5802.0
7.5°	5519.9	5531.3	5554.1	5608.2	5679.5	5767.8	5859.0	5941.6	6012.9	6069.9	6061.3
10°	5565.5	5579.7	5616.8	5696.6	5807.7	5935.9	6064.2	6186.7	6289.3	6363.4	6389.1
12.5°	5642.4	5653.8	5722.2	5841.9	6001.5	6161.1	6306.4	6457.4	6599.9	6725.3	6725.3
15°	5776.4	5796.3	5881.8	6055.6	6252.3	6437.5	6585.7	6745.3	6899.1	7041.6	7084.4
17.5°	5961.6	5990.1	6118.3	6340.6	6591.4	6762.4	6902.0	7033.1	7167.0	7303.8	7323.8
20°	6215.2	6243.7	6414.7	6682.6	6978.9	7184.1	7278.2	7309.5	7375.0	7506.1	7523.2
22.5°	6560.0	6588.5	6779.5	7081.5	7412.1	7634.4	7674.3	7600.2	7583.1	7685.7	7697.1
25°	6950.4	6976.1	7195.5	7520.4	7862.4	8104.6	8093.2	7910.8	7808.2	7870.9	7888.0
27.5°	7389.3	7426.3	7648.6	7984.9	8355.4	8569.1	8534.9	8269.9	8050.4	8039.0	8044.7
30°	7950.7	7990.6	8201.5	8523.5	8888.2	9084.9	9013.6	8657.4	8318.3	8204.3	8204.3
32.5°	8543.4	8643.2	8856.9	9193.2	9478.1	9620.6	9512.3	9084.9	8634.6	8475.0	8466.5
35°	9315.7	9369.8	9580.7	9908.4	10122.2	10233.3	10025.3	9566.5	9047.8	8859.7	8834.1
37.5°	10070.9	10116.5	10361.5	10675.0	10934.3	10928.6	10646.5	10139.3	9560.8	9349.9	9332.8
40°	10843.1	10891.6	11170.9	11458.7	11718.0	11695.2	11353.2	10786.2	10170.6	9934.1	9979.7
42.5°	11512.8	11567.0	11883.3	12293.6	12527.3	12521.6	12125.5	11487.2	10846.0	10635.1	10675.0
45°	12122.7	12171.1	12538.7	13008.9	13350.9	13393.6	12960.5	12285.1	11626.8	11356.1	11367.5
47.5°	12553.0	12644.2	13028.9	13567.5	14032.0	14183.0	13758.4	13097.3	12339.2	12057.1	12074.2
50°	12880.7	12937.7	13356.6	13969.3	14556.3	14869.8	14527.8	13849.6	13051.7	12752.5	12792.3
52.5°	12920.6	12989.0	13444.9	14151.7	14904.0	15379.9	15211.8	14584.8	13778.3	13470.6	13556.1
55°	12595.7	12635.6	13179.9	14037.7	15040.8	15758.9	15801.6	15268.7	14470.8	14237.2	14294.1
57.5°	11669.6	11772.2	12461.8	13504.8	14852.7	15961.2	16243.3	15890.0	15171.9	14941.0	15032.2
60°	10150.7	10253.3	10945.7	12268.0	14143.1	15867.2	16608.1	16440.0	15807.3	15622.1	15670.6
62.5°	7953.5	7945.0	8802.8	10424.2	12732.5	15405.5	16878.8	16970.0	16434.3	16200.6	16274.7
65°	5155.1	5180.8	6010.0	7756.9	10603.8	14231.5	16938.7	17645.4	17049.8	16696.5	16750.6
66°	4146.3	4223.3	4927.1	6537.2	9518.0	13462.0	16759.1	17844.9	17237.9	16810.4	16836.1
67.5°	3060.6	3046.3	3624.8	4867.3	7600.2	12000.1	16197.8	17970.3	17451.6	16913.0	16924.4
70°	1746.9	1744.0	1949.2	2673.0	4468.3	8449.4	13653.0	17369.0	17884.8	17283.5	17252.1
72.5°	1276.7	1268.1	1296.6	1476.1	2180.0	4266.0	9418.3	15180.4	17662.5	17223.6	17135.3
75°	1071.5	1065.8	1060.1	1082.9	1222.5	1932.1	4998.4	10920.1	15325.7	16166.4	16075.2
77.5°	874.9	874.9	877.7	872.0	877.7	1017.3	2071.7	5853.3	9332.8	10418.5	10672.2
80°	683.9	681.1	729.5	709.6	664.0	652.6	917.6	1883.7	3097.6	3080.5	2541.9
82.5°	504.4	470.2	555.7	541.4	490.2	416.1	535.7	803.6	1034.4	672.5	498.7
85°	319.2	316.3	393.3	359.1	299.2	196.6	256.5	344.8	427.5	259.3	210.9
87.5°	57.0	54.1	125.4	91.2	91.2	57.0	71.2	94.0	139.6	96.9	71.2
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)