

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: P456600

Luminaire Tested: **GALN-SA7D-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41338 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

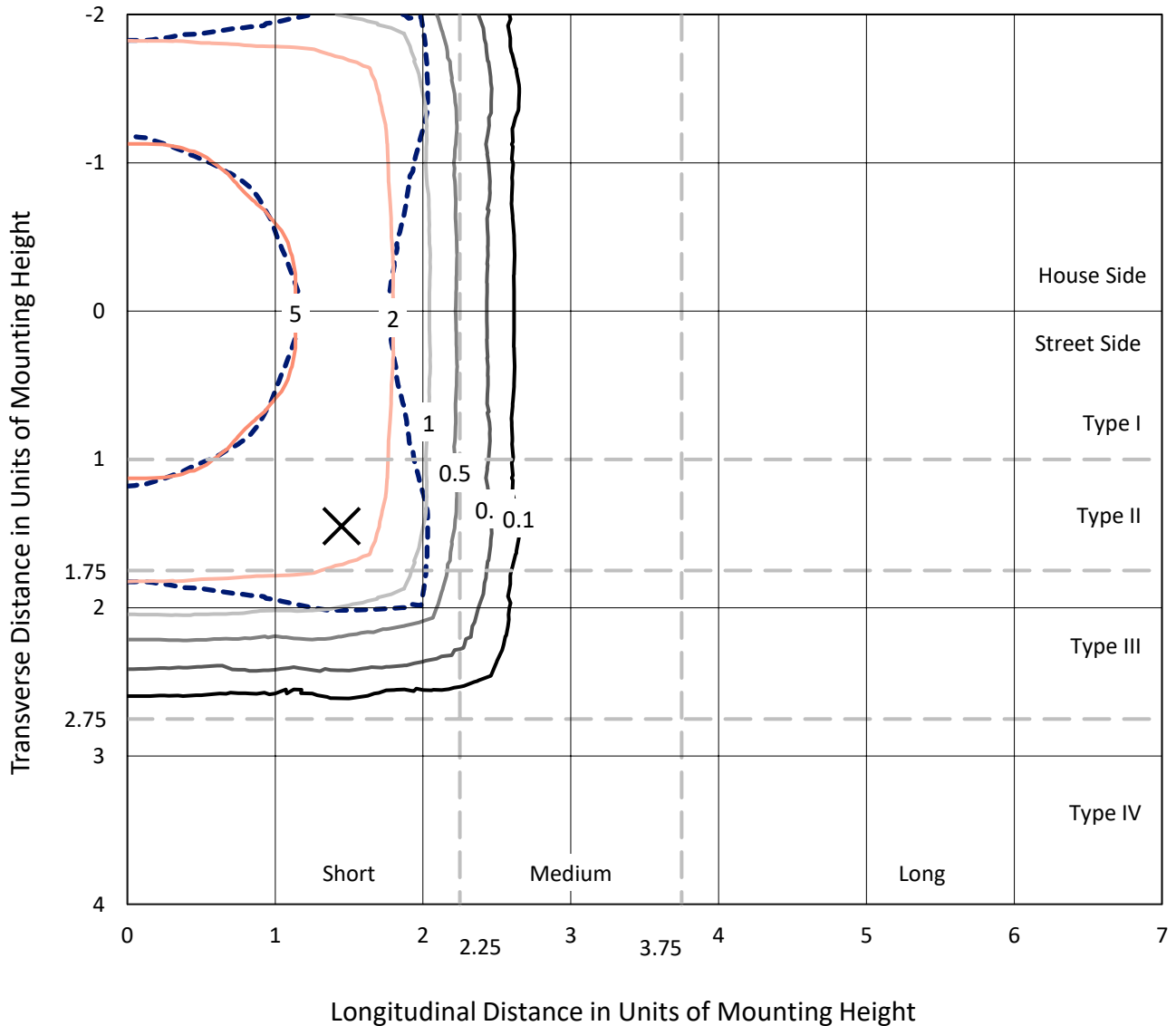
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

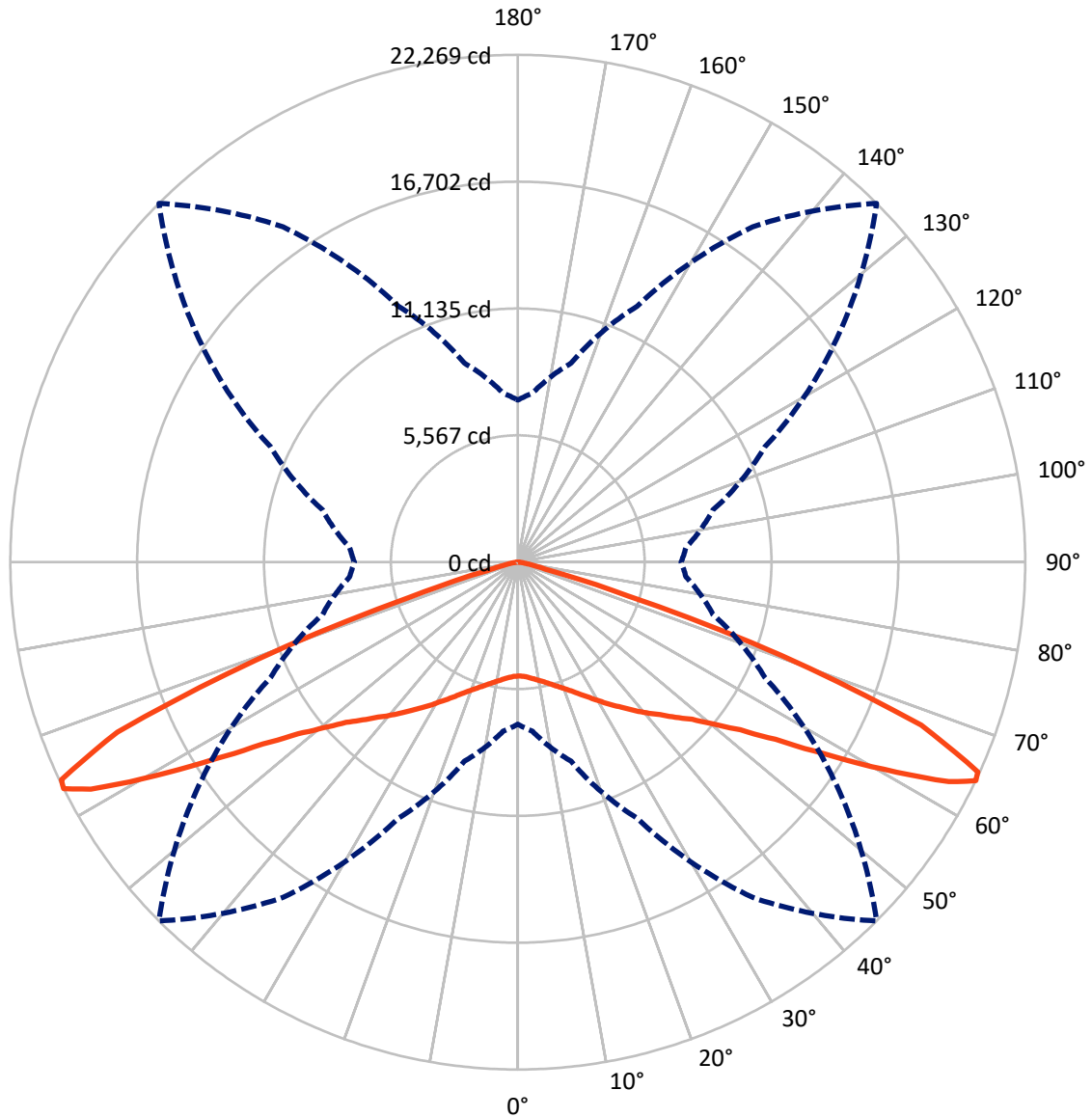
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20669.0	0.0	20669.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20669.0	0.0	20669.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41338.0	0.0	41338.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.9	1.2
10°-20°	1583.3	3.8
20°-30°	2992.1	7.2
30°-40°	4955.2	12.0
40°-50°	7735.9	18.7
50°-60°	11959.5	28.9
60°-70°	10312.5	24.9
70°-80°	1168.7	2.8
80°-90°	140.0	0.3
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°	41338.0	100.0
0°-180°	41338.0	100.0



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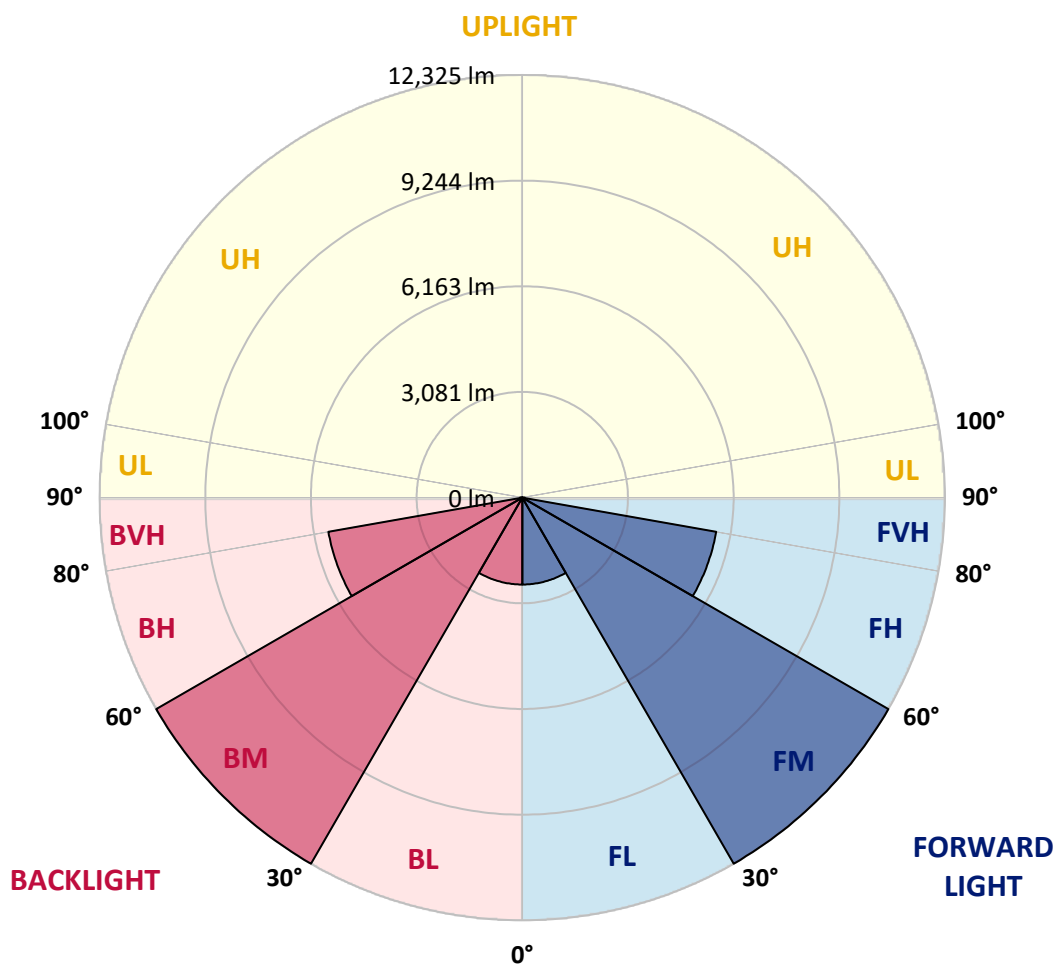
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2533.1	6.1			
FM	(30°-60°)	12325.3	29.8			
FH	(60°-80°)	5740.6	13.9			G3/7500
FVH	(80°-90°)	70.0	0.2			G1/100
BL	(0°-30°)	2533.1	6.1	B4/5000		
BM	(30°-60°)	12325.3	29.8	B5		
BH	(60°-80°)	5740.6	13.9	B5		G3/7500
BVH	(80°-90°)	70.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4996.4	4996.4	4996.4	4996.4	4996.4	4996.4	4996.4	4996.4	4996.4	4996.4	4996.4
2.5°	5016.1	5027.0	5018.3	5016.1	5013.9	5013.9	5013.9	5016.1	5024.9	5031.4	5027.0
5°	5079.6	5088.4	5084.0	5081.8	5079.6	5079.6	5077.4	5075.2	5081.8	5081.8	5079.6
7.5°	5158.4	5169.4	5165.0	5169.4	5171.6	5173.7	5162.8	5154.0	5151.8	5158.4	5154.0
10°	5265.7	5274.5	5276.6	5278.8	5283.2	5281.0	5267.9	5252.6	5250.4	5248.2	5246.0
12.5°	5386.1	5392.7	5394.9	5403.6	5410.2	5412.4	5397.1	5383.9	5362.0	5366.4	5357.7
15°	5521.9	5535.0	5532.8	5546.0	5563.5	5567.8	5552.5	5530.6	5510.9	5500.0	5493.4
17.5°	5688.3	5697.0	5692.6	5705.8	5727.7	5738.6	5725.5	5697.0	5677.3	5653.2	5640.1
20°	5885.3	5900.6	5905.0	5905.0	5924.7	5935.7	5916.0	5907.2	5876.6	5859.0	5848.1
22.5°	6108.6	6115.2	6128.4	6141.5	6161.2	6156.8	6150.2	6137.1	6108.6	6093.3	6075.8
25°	6360.4	6367.0	6399.8	6428.3	6434.9	6430.5	6421.7	6415.2	6388.9	6353.9	6340.7
27.5°	6653.8	6667.0	6710.8	6737.0	6737.0	6739.2	6721.7	6743.6	6686.7	6645.1	6640.7
30°	7021.7	7030.4	7067.6	7093.9	7080.8	7069.8	7065.5	7087.3	7026.0	6951.6	6934.1
32.5°	7385.1	7415.8	7448.6	7505.5	7459.6	7439.9	7435.5	7450.8	7380.7	7297.5	7273.5
35°	7774.8	7796.7	7858.0	7906.2	7864.6	7818.6	7838.3	7886.5	7803.3	7691.6	7687.3
37.5°	8206.2	8225.9	8304.7	8355.1	8324.4	8245.6	8278.4	8335.3	8252.1	8114.2	8085.7
40°	8655.0	8696.6	8795.1	8847.7	8797.3	8692.2	8753.5	8814.8	8740.4	8580.6	8517.1
42.5°	9158.6	9224.3	9366.6	9392.9	9296.5	9154.2	9261.5	9360.0	9307.5	9123.6	9099.5
45°	9747.6	9787.0	9962.1	10019.1	9885.5	9708.2	9841.7	10021.2	9981.8	9769.5	9723.5
47.5°	10406.6	10443.8	10625.5	10710.9	10542.3	10303.7	10544.5	10778.8	10754.7	10527.0	10505.1
50°	11186.1	11194.8	11446.6	11542.9	11374.3	11168.5	11383.1	11674.3	11578.0	11286.8	11282.4
52.5°	12039.9	12050.9	12368.4	12554.5	12460.3	12228.2	12482.2	12659.6	12414.3	12033.4	12004.9
55°	12780.0	12834.7	13268.2	13763.1	13892.2	13723.7	13800.3	13717.1	13112.8	12578.6	12495.4
57.5°	13082.1	13189.4	13848.5	14772.4	15613.2	15862.8	15271.6	14479.0	13390.9	12635.5	12554.5
60°	12344.3	12460.3	13482.8	15236.6	17382.3	18466.1	16804.3	14608.2	12758.1	11696.2	11569.2
62.5°	9885.5	9918.3	11422.5	14144.0	18413.5	21220.4	17450.2	13506.9	10916.7	9473.9	9423.5
64°	7113.6	7450.8	9044.7	12401.2	17962.5	22269.2	17077.9	11963.3	8867.4	7407.0	7170.5
65°	5320.4	5412.4	7291.0	10590.5	17167.7	22190.4	16355.4	10487.6	7343.5	5668.6	5405.8
67.5°	2009.9	2020.9	2690.9	5278.8	12221.7	19092.3	12482.2	5705.8	3093.7	2237.6	2156.6
70°	834.2	849.5	987.5	1775.7	5252.6	12258.9	6018.9	2058.1	1132.0	917.4	904.3
72.5°	610.9	619.6	661.2	788.2	1615.8	5033.6	1979.3	873.6	663.4	593.3	586.8
75°	479.5	483.9	514.5	580.2	753.2	1394.7	823.2	599.9	505.8	455.4	451.0
77.5°	365.6	376.6	398.5	442.3	505.8	661.2	545.2	448.8	389.7	348.1	341.6
80°	251.8	264.9	306.5	324.0	339.4	429.1	372.2	339.4	304.3	254.0	238.7
82.5°	155.5	164.2	205.8	221.1	214.6	240.8	238.7	243.0	216.8	157.6	146.7
85°	81.0	85.4	111.7	116.0	107.3	98.5	122.6	142.3	133.6	89.8	87.6
87.5°	17.5	19.7	24.1	21.9	24.1	24.1	30.7	46.0	48.2	30.7	28.5
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)