

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: P458312

Luminaire Tested: **GALN-SA9D-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61384 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

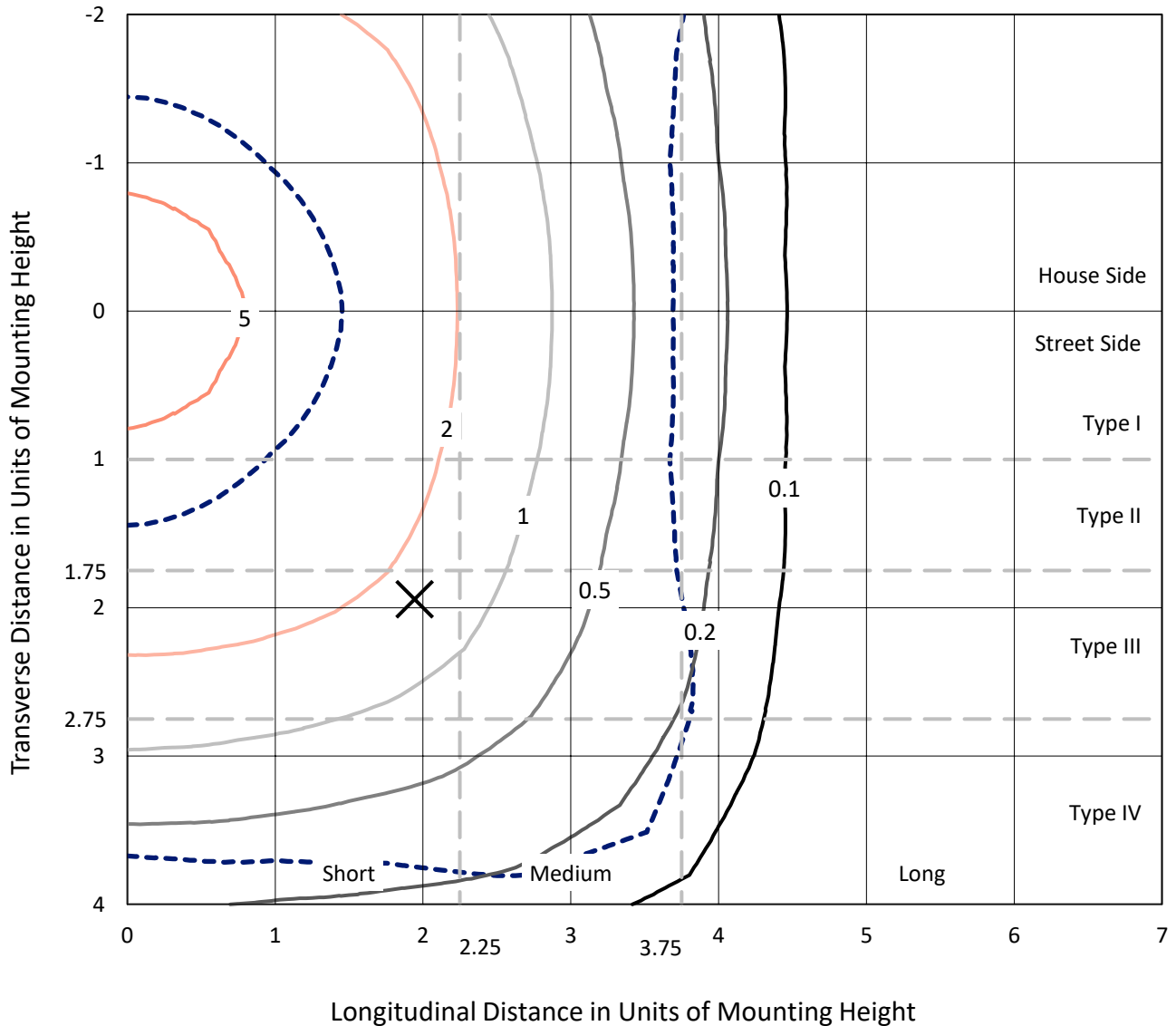
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

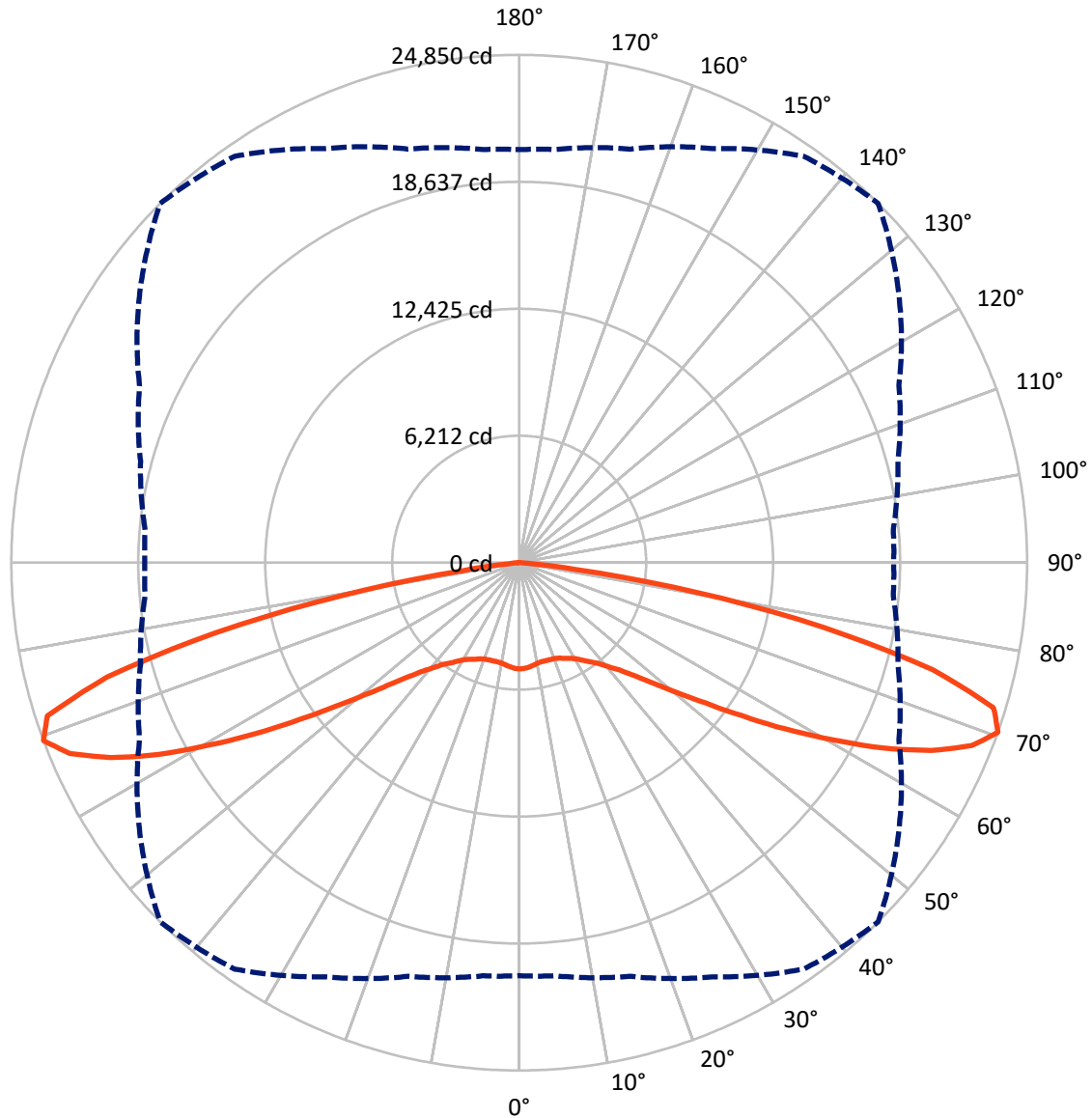
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	30692.0	0.0	30692.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30692.0	0.0	30692.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	61384.0	0.0	61384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.0	0.8
10°-20°	1422.8	2.3
20°-30°	2424.2	3.9
30°-40°	3757.4	6.1
40°-50°	6324.2	10.3
50°-60°	11506.7	18.7
60°-70°	19480.5	31.7
70°-80°	15078.7	24.6
80°-90°	903.5	1.5
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°	61384.0	100.0
0°-180°	61384.0	100.0

**Coefficient of Utilization**



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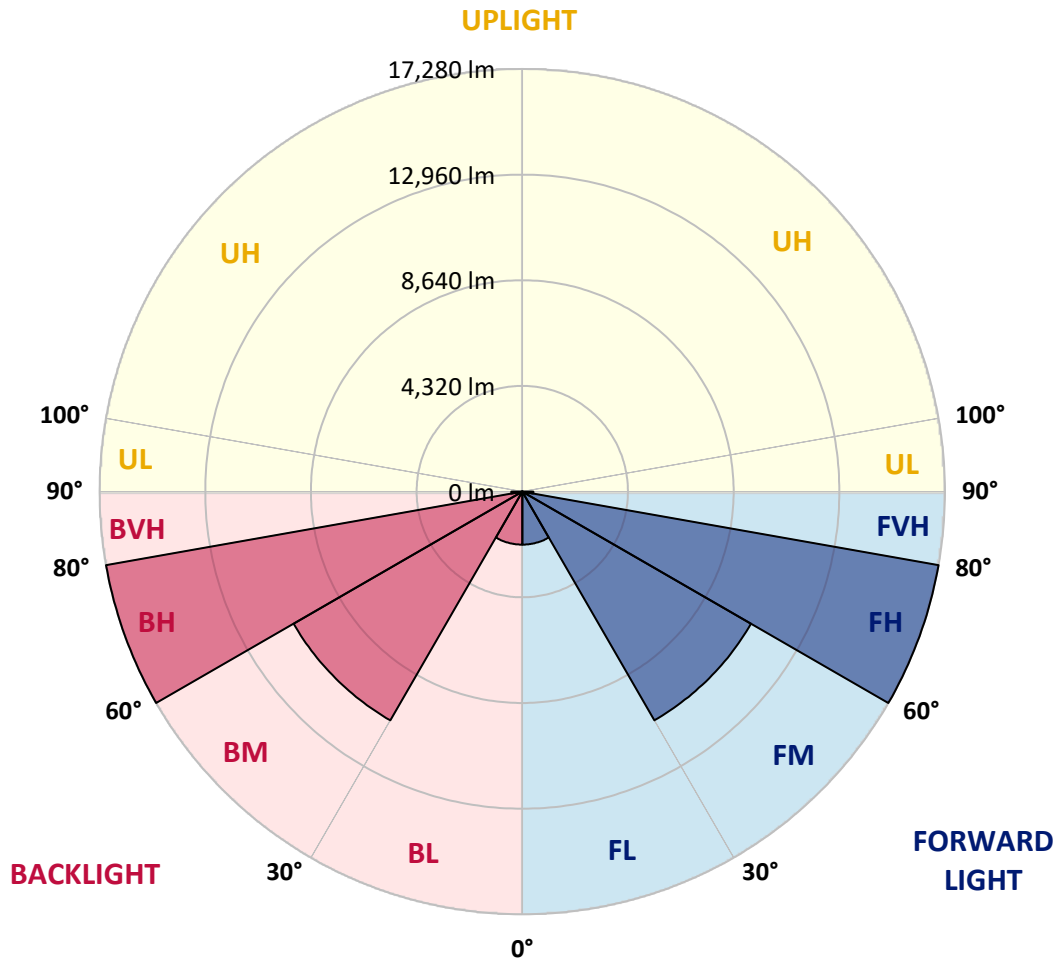
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.5	3.5			
FM (30°-60°)	10794.2	17.6			
FH (60°-80°)	17279.6	28.1			G5
FVH (80°-90°)	451.8	0.7			G3/500
BL (0°-30°)	2166.5	3.5	B3/2500		
BM (30°-60°)	10794.2	17.6	B5		
BH (60°-80°)	17279.6	28.1	B5		G5
BVH (80°-90°)	451.8	0.7			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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5196.9	5196.9	5196.9	5196.9	5196.9	5196.9	5196.9	5196.9	5196.9	5196.9	5196.9
2.5°	5183.9	5187.2	5187.2	5180.7	5177.5	5177.5	5174.2	5174.2	5183.9	5187.2	5190.4
5°	5138.6	5138.6	5138.6	5135.3	5128.8	5128.8	5122.3	5122.3	5125.6	5135.3	5128.8
7.5°	5077.0	5083.4	5083.4	5070.5	5060.7	5060.7	5057.5	5060.7	5064.0	5073.7	5070.5
10°	5057.5	5060.7	5044.5	5021.8	5005.6	4995.9	4999.1	5005.6	5021.8	5028.3	5031.6
12.5°	5070.5	5070.5	5041.3	5008.9	4979.7	4966.7	4963.5	4986.2	5015.4	5034.8	5041.3
15°	5086.7	5080.2	5044.5	5002.4	4973.2	4970.0	4966.7	4982.9	5025.1	5064.0	5067.2
17.5°	5096.4	5093.2	5047.8	4995.9	4979.7	4979.7	4976.5	4989.4	5034.8	5083.4	5086.7
20°	5128.8	5119.1	5067.2	5012.1	4999.1	5005.6	4995.9	5012.1	5060.7	5119.1	5132.1
22.5°	5193.7	5183.9	5132.1	5077.0	5070.5	5070.5	5067.2	5083.4	5135.3	5196.9	5206.6
25°	5271.5	5261.7	5213.1	5174.2	5180.7	5193.7	5187.2	5190.4	5232.6	5284.4	5300.7
27.5°	5375.2	5359.0	5316.9	5284.4	5303.9	5303.9	5303.9	5300.7	5326.6	5375.2	5391.4
30°	5501.7	5495.2	5449.8	5446.5	5462.8	5446.5	5446.5	5449.8	5453.0	5498.4	5514.6
32.5°	5667.0	5654.0	5631.3	5624.8	5670.2	5683.2	5637.8	5595.7	5618.4	5663.8	5673.5
35°	5939.3	5919.9	5887.5	5851.8	5887.5	5949.0	5851.8	5819.4	5877.7	5939.3	5945.8
37.5°	6308.9	6299.2	6247.3	6182.5	6179.2	6244.1	6143.6	6140.3	6250.6	6325.1	6334.8
40°	6772.5	6782.2	6717.4	6655.8	6623.4	6675.3	6597.4	6626.6	6733.6	6817.9	6811.4
42.5°	7424.2	7388.5	7288.0	7229.6	7194.0	7174.5	7155.1	7200.5	7320.4	7411.2	7482.5
45°	8186.0	8173.1	8046.6	7975.3	7897.5	7868.3	7861.8	7942.9	8088.8	8199.0	8208.7
47.5°	9048.4	9019.2	8938.2	8863.6	8834.4	8798.8	8766.3	8827.9	8973.8	9051.6	9074.3
50°	9936.7	9943.2	9943.2	9930.2	9959.4	9965.9	9878.3	9901.0	9982.1	9975.6	9969.1
52.5°	10951.4	10987.1	11155.7	11171.9	11311.3	11405.3	11246.5	11152.4	11123.3	10948.2	10961.2
55°	12144.5	12176.9	12429.8	12682.7	13058.7	13217.6	12883.7	12591.9	12384.4	12118.6	12131.5
57.5°	13632.6	13648.8	13888.7	14375.0	14971.5	15344.3	14757.5	14180.5	13759.0	13506.1	13405.6
60°	15234.1	15250.3	15600.4	16193.7	17120.9	17574.8	16848.6	15905.2	15373.5	14987.7	15013.6
62.5°	17156.6	17221.4	17535.9	18352.9	19477.9	19986.9	19024.0	17762.9	17043.1	16563.3	16582.8
65°	19215.3	19325.5	19669.1	20567.2	21604.6	22152.5	20972.4	19516.8	18622.0	18035.2	18096.8
67.5°	20551.0	20648.2	21144.2	22136.3	23429.8	23883.7	22360.0	20664.4	19545.9	18845.7	18716.0
70°	20210.6	20291.6	20953.0	22360.0	24276.0	24849.8	22690.7	20495.9	19179.6	18372.3	18320.5
72.5°	17840.7	17672.1	18638.2	20657.9	23309.9	24272.8	21650.0	18719.2	17062.6	16232.6	16135.4
75°	11823.5	12189.9	13616.4	15996.0	19721.0	20914.1	18479.3	15029.9	12945.3	12254.7	12147.7
77.5°	3952.0	4234.0	5501.7	9067.8	13444.5	15237.3	13464.0	9829.7	6954.1	5602.2	5628.1
80°	1047.2	1034.2	1338.9	2493.1	5809.6	8824.7	6762.8	3329.5	1822.0	1319.5	1251.4
82.5°	376.1	421.5	541.4	690.5	1539.9	2742.7	1935.5	933.7	684.1	505.8	489.5
85°	165.3	162.1	233.4	275.6	385.8	512.2	453.9	395.5	346.9	230.2	214.0
87.5°	35.7	35.7	55.1	42.1	68.1	68.1	84.3	100.5	103.7	68.1	55.1
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)