

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: P458311

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458311  
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-SA9D-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 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: 61209 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

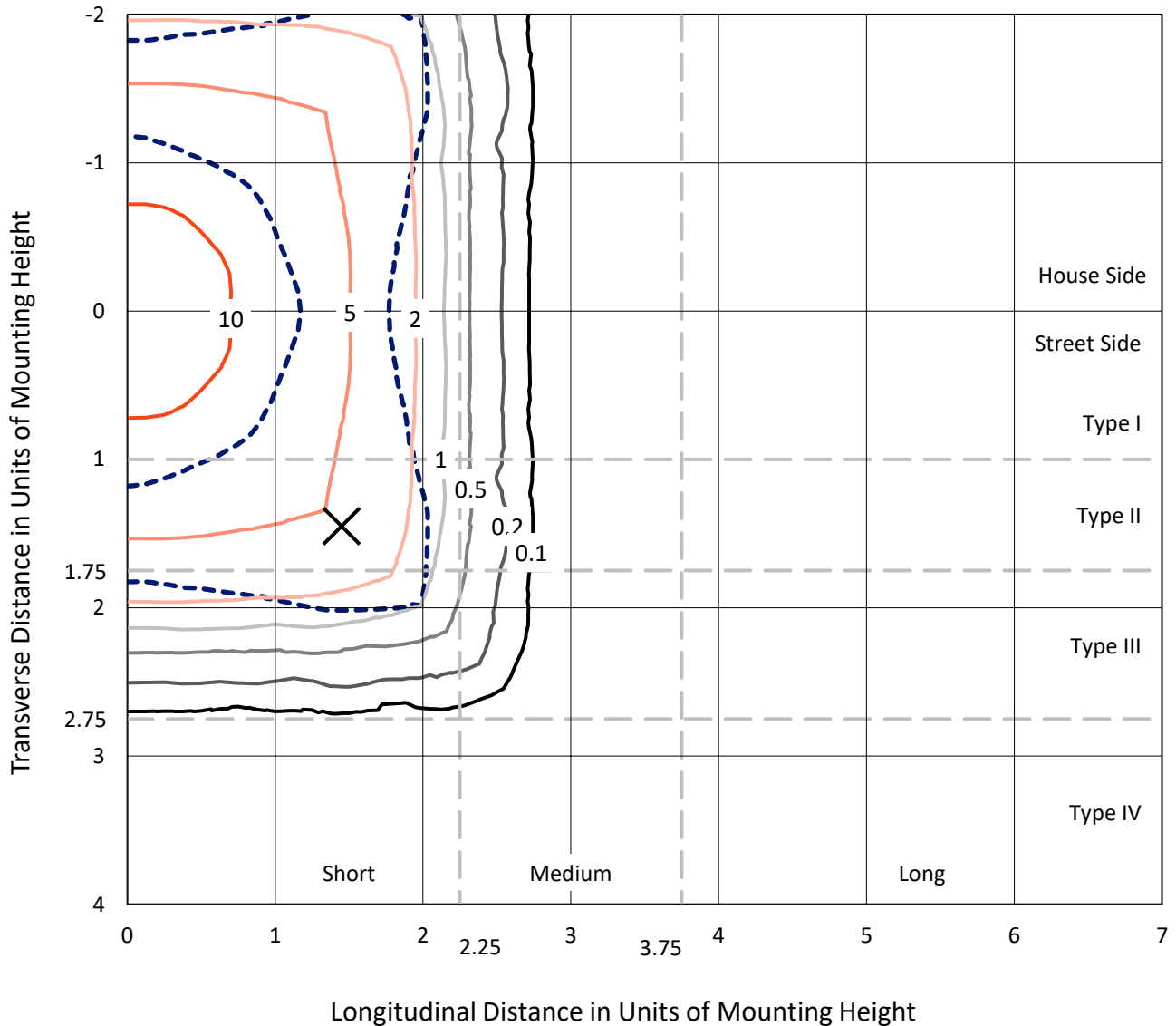
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

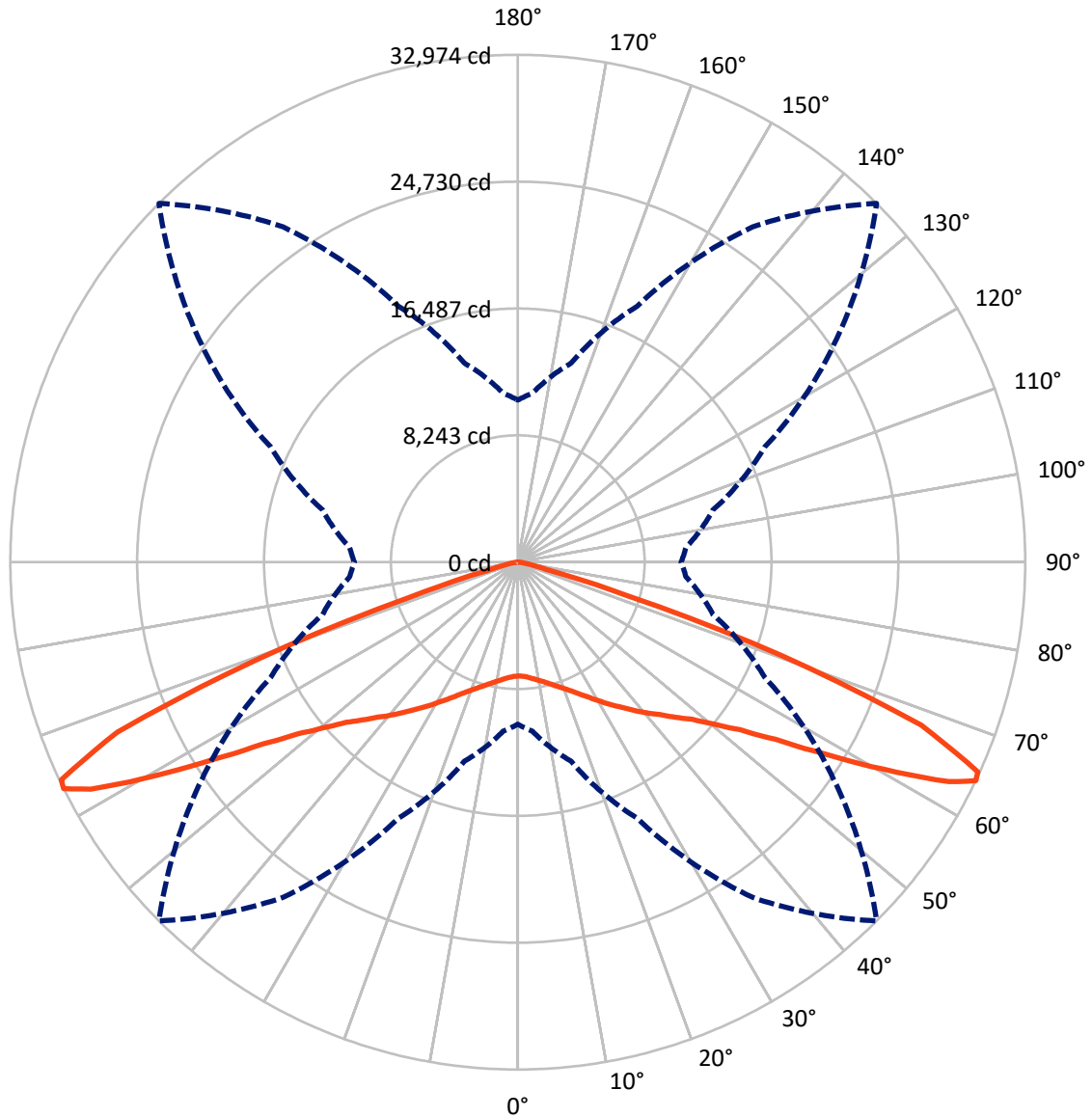
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	30604.5	0.0	30604.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30604.5	0.0	30604.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	61209.0	0.0	61209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	726.8	1.2
10°-20°	2344.4	3.8
20°-30°	4430.3	7.2
30°-40°	7337.1	12.0
40°-50°	11454.5	18.7
50°-60°	17708.3	28.9
60°-70°	15269.7	24.9
70°-80°	1730.4	2.8
80°-90°	207.3	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°	61209.0	100.0
0°-180°	61209.0	100.0

**Coefficient of Utilization**



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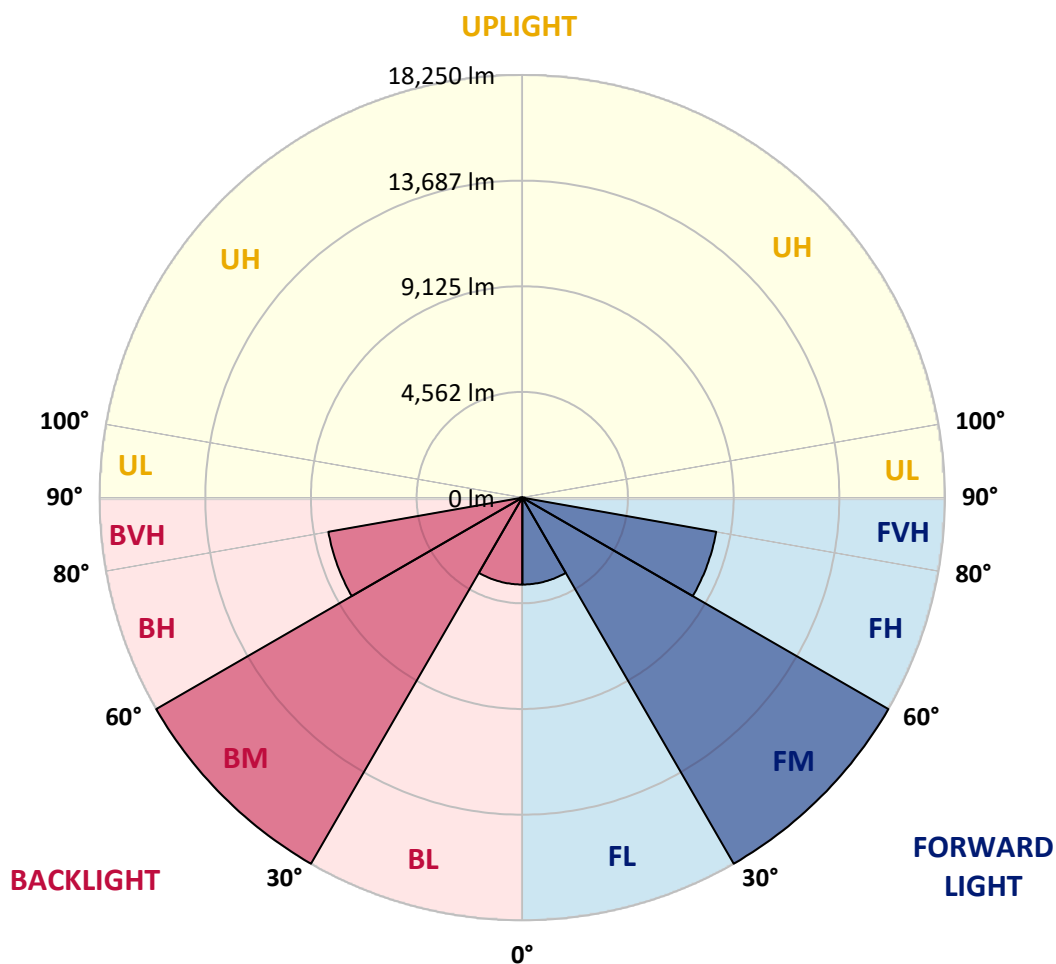
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3750.8	6.1			
FM	(30°-60°)	18250.0	29.8			
FH	(60°-80°)	8500.1	13.9			G4/12000
FVH	(80°-90°)	103.7	0.2			G2/225
BL	(0°-30°)	3750.8	6.1	B4/5000		
BM	(30°-60°)	18250.0	29.8	B5		
BH	(60°-80°)	8500.1	13.9	B5		G4/12000
BVH	(80°-90°)	103.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7398.1	7398.1	7398.1	7398.1	7398.1	7398.1	7398.1	7398.1	7398.1	7398.1	7398.1
2.5°	7427.3	7443.5	7430.6	7427.3	7424.1	7424.1	7424.1	7427.3	7440.3	7450.0	7443.5
5°	7521.3	7534.3	7527.8	7524.6	7521.3	7524.6	7518.1	7514.8	7524.6	7524.6	7521.3
7.5°	7638.0	7654.3	7647.8	7654.3	7657.5	7660.7	7644.5	7631.6	7628.3	7638.0	7631.6
10°	7796.9	7809.9	7813.1	7816.3	7822.8	7819.6	7800.1	7777.4	7774.2	7771.0	7767.7
12.5°	7975.2	7984.9	7988.2	8001.1	8010.9	8014.1	7991.4	7972.0	7939.5	7946.0	7933.1
15°	8176.2	8195.7	8192.4	8211.9	8237.8	8244.3	8221.6	8189.2	8160.0	8143.8	8134.1
17.5°	8422.6	8435.6	8429.1	8448.5	8480.9	8497.2	8477.7	8435.6	8406.4	8370.7	8351.3
20°	8714.4	8737.1	8743.5	8743.5	8772.7	8788.9	8759.8	8746.8	8701.4	8675.5	8659.3
22.5°	9045.0	9054.8	9074.2	9093.7	9122.9	9116.4	9106.6	9087.2	9045.0	9022.4	8996.4
25°	9417.9	9427.6	9476.2	9518.4	9528.1	9521.6	9508.6	9498.9	9460.0	9408.1	9388.7
27.5°	9852.3	9871.7	9936.6	9975.5	9975.5	9978.7	9952.8	9985.2	9900.9	9839.3	9832.8
30°	10396.9	10409.9	10465.0	10503.9	10484.5	10468.3	10461.8	10494.2	10403.4	10293.2	10267.3
32.5°	10935.1	10980.5	11029.1	11113.4	11045.3	11016.2	11009.7	11032.4	10928.6	10805.4	10769.8
35°	11512.2	11544.6	11635.4	11706.7	11645.1	11577.0	11606.2	11677.5	11554.3	11389.0	11382.5
37.5°	12150.8	12180.0	12296.7	12371.3	12325.9	12209.2	12257.8	12342.1	12218.9	12014.7	11972.5
40°	12815.4	12877.0	13022.9	13100.7	13026.2	12870.6	12961.3	13052.1	12941.9	12705.2	12611.2
42.5°	13561.1	13658.3	13869.1	13908.0	13765.3	13554.6	13713.5	13859.3	13781.5	13509.2	13473.6
45°	14433.2	14491.5	14750.9	14835.2	14637.4	14374.8	14572.6	14838.4	14780.1	14465.6	14397.5
47.5°	15409.0	15464.1	15733.2	15859.6	15610.0	15256.6	15613.2	15960.1	15924.5	15587.3	15554.9
50°	16563.1	16576.1	16948.9	17091.6	16841.9	16537.2	16854.9	17286.1	17143.4	16712.3	16705.8
52.5°	17827.5	17843.7	18313.8	18589.4	18450.0	18106.3	18482.4	18745.0	18381.9	17817.8	17775.6
55°	18923.3	19004.3	19646.2	20378.9	20570.2	20320.6	20434.0	20310.8	19416.1	18625.0	18501.8
57.5°	19370.7	19529.5	20505.4	21873.5	23118.4	23487.9	22612.6	21439.0	19827.8	18709.3	18589.4
60°	18278.1	18450.0	19963.9	22560.8	25737.9	27342.6	24882.0	21630.3	18890.9	17318.5	17130.5
62.5°	14637.4	14686.0	16913.3	20943.0	27264.8	31421.0	25838.4	19999.6	16164.4	14027.9	13953.4
64°	10533.1	11032.4	13392.5	18362.4	26597.0	32973.9	25287.2	17714.0	13129.9	10967.5	10617.4
65°	7877.9	8014.1	10795.7	15681.3	25420.2	32857.2	24217.4	15529.0	10873.5	8393.4	8004.4
67.5°	2976.1	2992.3	3984.4	7816.3	18096.6	28269.8	18482.4	8448.5	4580.9	3313.3	3193.3
70°	1235.2	1257.9	1462.1	2629.2	7777.4	18151.7	8912.1	3047.4	1676.1	1358.4	1338.9
72.5°	904.5	917.5	979.1	1167.1	2392.6	7453.3	2930.7	1293.5	982.3	878.6	868.8
75°	710.0	716.5	761.9	859.1	1115.2	2065.1	1219.0	888.3	748.9	674.3	667.8
77.5°	541.4	557.6	590.0	654.9	748.9	979.1	807.2	664.6	577.1	515.5	505.7
80°	372.8	392.3	453.9	479.8	502.5	635.4	551.1	502.5	450.6	376.1	353.4
82.5°	230.2	243.1	304.7	327.4	317.7	356.6	353.4	359.9	321.0	233.4	217.2
85°	120.0	126.4	165.3	171.8	158.9	145.9	181.5	210.7	197.8	132.9	129.7
87.5°	25.9	29.2	35.7	32.4	35.7	35.7	45.4	68.1	71.3	45.4	42.1
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)