

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: P458310

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61514 lumens
Efficiency: N/A
Efficacy: 111.4 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

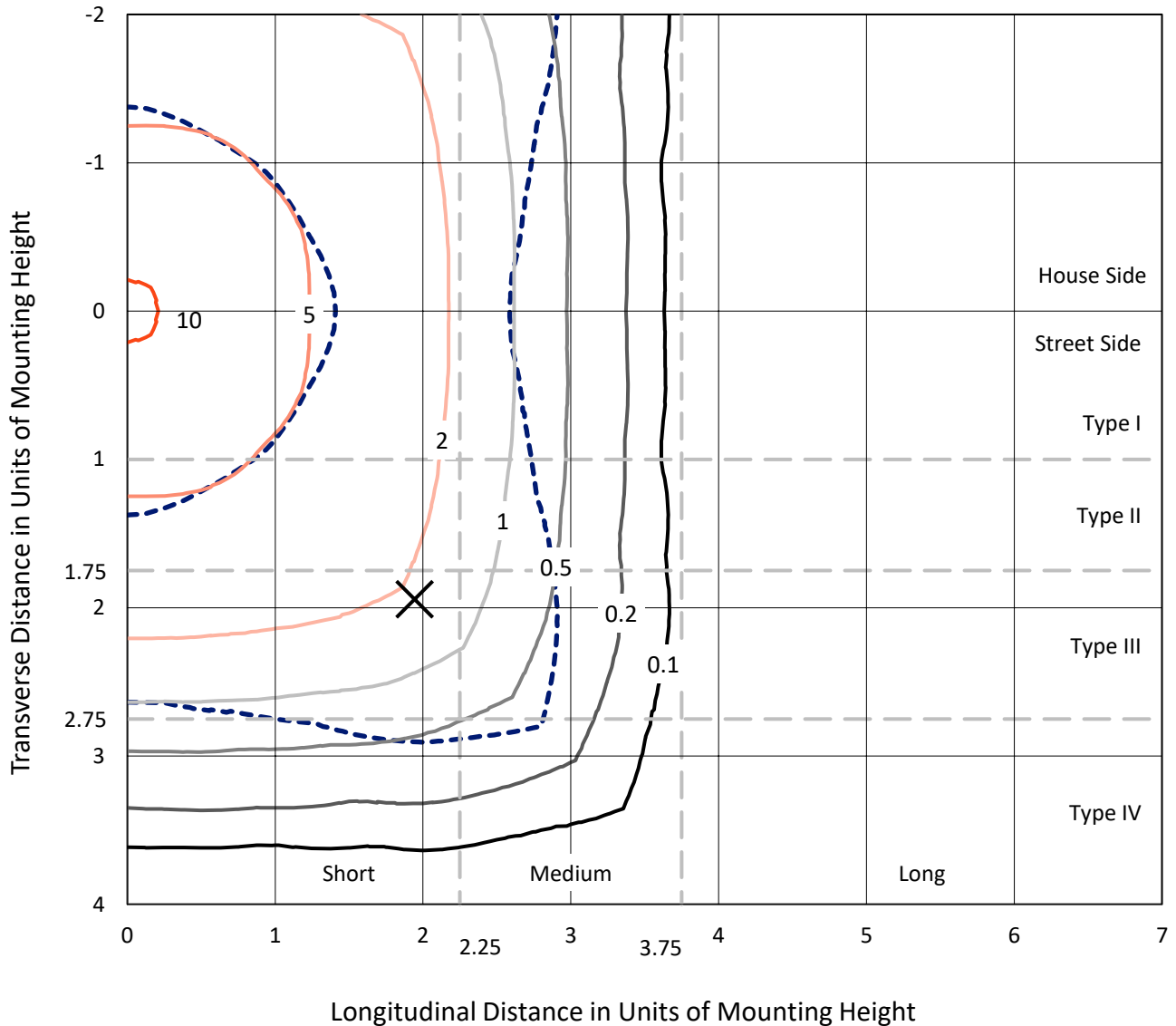
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

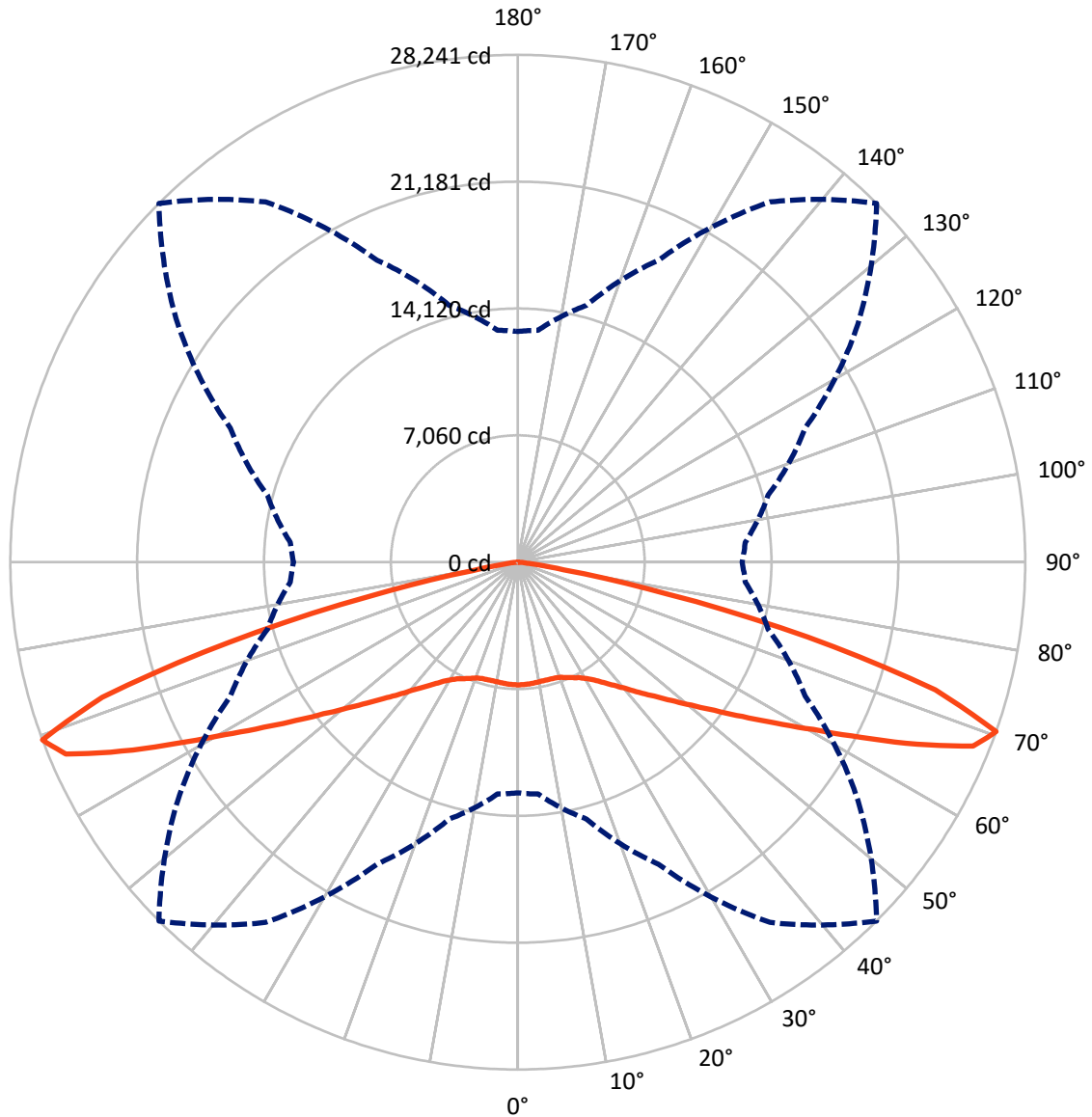
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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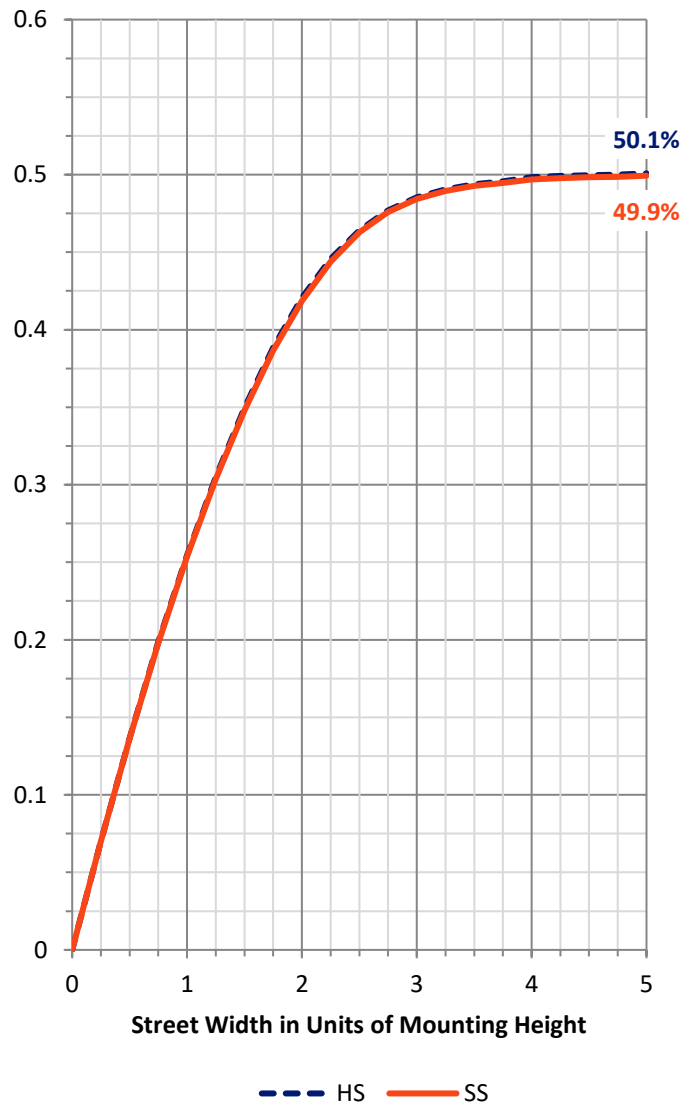
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30757.0	0.0	30757.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30757.0	0.0	30757.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	61514.0	0.0	61514.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.8	1.1
10°-20°	1900.8	3.1
20°-30°	3250.9	5.3
30°-40°	5160.0	8.4
40°-50°	8324.4	13.5
50°-60°	13544.0	22.0
60°-70°	19633.8	31.9
70°-80°	8708.9	14.2
80°-90°	343.5	0.6
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°	61514.0	100.0
0°-180°	61514.0	100.0



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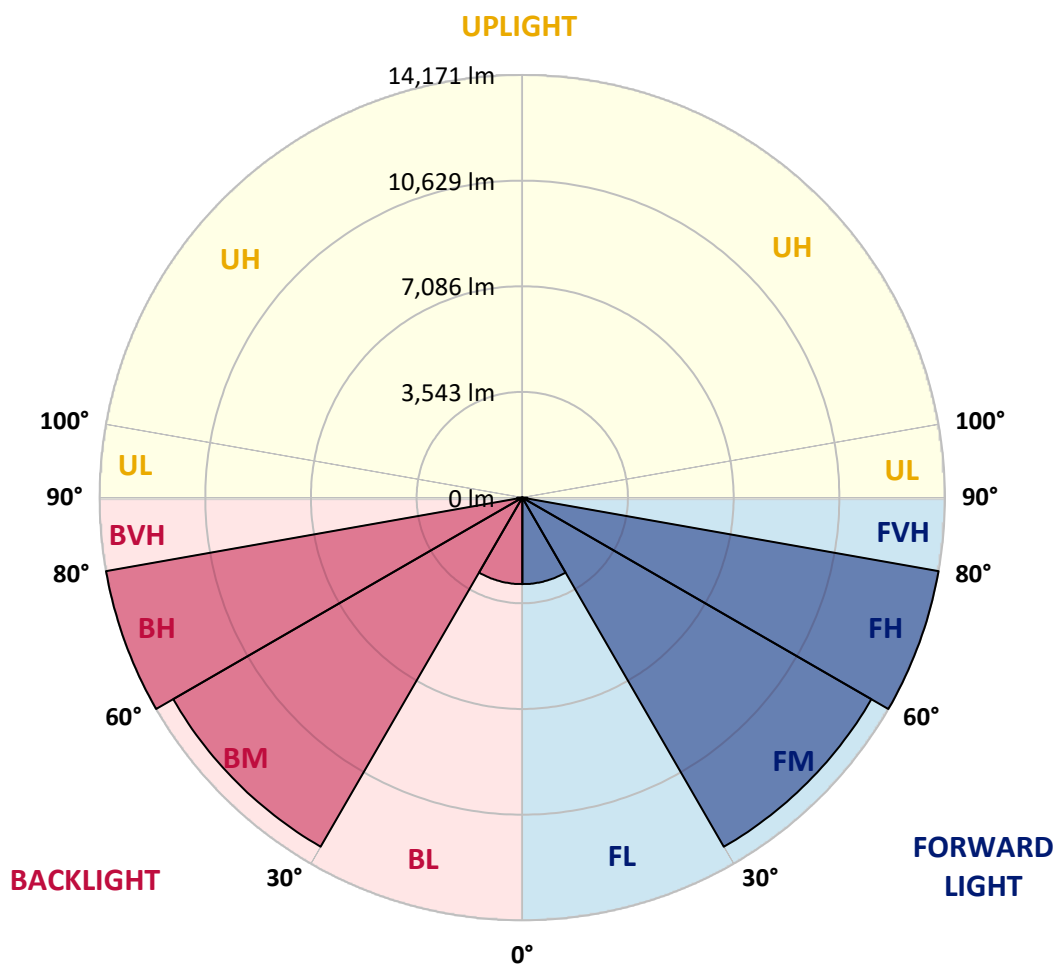
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2899.8	4.7			
FM	(30°-60°)	13514.1	22.0			
FH	(60°-80°)	14171.4	23.0			G5
FVH	(80°-90°)	171.7	0.3			G2/225
BL	(0°-30°)	2899.8	4.7	B4/5000		
BM	(30°-60°)	13514.1	22.0	B5		
BH	(60°-80°)	14171.4	23.0	B5		G5
BVH	(80°-90°)	171.7	0.3			G2/225
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°	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8
2.5°	6830.8	6837.3	6827.6	6821.1	6817.9	6817.9	6814.6	6817.9	6837.3	6840.6	6830.8
5°	6811.4	6817.9	6814.6	6808.1	6804.9	6804.9	6801.7	6798.4	6814.6	6821.1	6817.9
7.5°	6785.5	6788.7	6785.5	6782.2	6785.5	6782.2	6772.5	6766.0	6779.0	6779.0	6775.7
10°	6740.1	6746.5	6743.3	6746.5	6753.0	6753.0	6740.1	6727.1	6730.3	6723.9	6723.9
12.5°	6685.0	6694.7	6697.9	6710.9	6727.1	6746.5	6717.4	6688.2	6681.7	6678.5	6675.2
15°	6649.3	6659.0	6672.0	6685.0	6714.1	6756.3	6714.1	6668.7	6655.8	6642.8	6636.3
17.5°	6639.6	6652.5	6672.0	6691.4	6730.3	6772.5	6736.8	6691.4	6659.0	6639.6	6633.1
20°	6665.5	6675.2	6704.4	6740.1	6795.2	6837.3	6801.7	6753.0	6704.4	6675.2	6665.5
22.5°	6717.4	6733.6	6769.2	6834.1	6911.9	6973.5	6924.9	6843.8	6766.0	6727.1	6714.1
25°	6830.8	6843.8	6886.0	6973.5	7064.3	7122.6	7070.7	6976.7	6869.7	6817.9	6801.7
27.5°	7002.7	7022.1	7067.5	7171.2	7245.8	7278.2	7242.6	7177.7	7099.9	7044.8	7031.8
30°	7245.8	7268.5	7336.6	7446.8	7495.4	7514.9	7498.7	7456.5	7401.4	7343.1	7330.1
32.5°	7573.3	7586.2	7664.0	7767.8	7813.2	7819.6	7800.2	7780.7	7690.0	7592.7	7586.2
35°	7939.6	7962.3	8056.3	8179.5	8221.6	8224.9	8186.0	8156.8	8049.8	7972.0	7972.0
37.5°	8425.9	8435.6	8526.4	8665.8	8711.2	8698.2	8678.8	8652.8	8539.4	8438.9	8442.1
40°	8996.5	9015.9	9093.7	9255.8	9255.8	9239.6	9252.6	9233.1	9119.7	9022.4	9025.7
42.5°	9674.1	9683.8	9777.8	9949.6	9936.7	9904.2	9917.2	9891.3	9819.9	9709.7	9670.8
45°	10397.0	10435.9	10598.0	10763.4	10737.4	10633.7	10685.5	10679.1	10614.2	10448.9	10458.6
47.5°	11269.1	11333.9	11489.6	11687.3	11658.1	11496.0	11554.4	11593.3	11502.5	11321.0	11288.6
50°	12251.4	12293.6	12523.7	12708.5	12682.6	12510.8	12643.7	12650.2	12423.2	12167.1	12167.1
52.5°	13298.6	13340.7	13652.0	13940.5	13956.7	13707.1	13814.1	13807.6	13438.0	13100.8	13036.0
55°	14472.2	14491.6	14893.6	15318.3	15409.1	15166.0	15178.9	15049.2	14569.4	14177.2	14141.5
57.5°	15684.7	15756.0	16200.1	16751.3	17020.4	16871.2	16803.2	16456.3	15992.7	15542.0	15519.3
60°	17026.8	17030.1	17607.2	18258.8	18803.5	18904.0	18625.1	18161.5	17561.8	16965.3	16939.3
62.5°	17957.3	18096.7	18826.1	19928.4	20904.3	21468.4	20732.4	19759.8	18579.8	17616.9	17519.6
65°	18148.6	18242.6	19354.6	21222.0	23215.8	24431.5	22729.5	20661.1	18647.8	17364.0	17299.2
67.5°	16602.2	16702.7	18200.4	21066.3	24836.8	27329.8	24026.3	20226.7	17493.7	15905.1	15778.7
70°	12841.5	12954.9	14806.1	18544.1	24476.9	28240.8	23102.3	17642.8	14426.8	12711.8	12481.6
72.5°	6827.6	7245.8	8827.9	12728.0	19866.8	24314.8	18942.9	12873.9	9304.5	7605.7	7300.9
75°	2493.1	2544.9	3426.8	5644.3	11557.6	16673.5	12001.8	6140.3	3530.5	2726.5	2587.1
77.5°	1030.9	1027.7	1128.2	1705.3	4198.4	8539.4	4684.7	1802.5	1125.0	1040.7	1027.7
80°	609.5	609.5	671.1	710.0	1105.5	2577.4	1235.2	804.0	674.3	616.0	625.7
82.5°	272.3	288.5	424.7	447.4	534.9	706.8	596.5	512.2	440.9	304.7	275.6
85°	149.1	129.7	223.7	233.4	256.1	262.6	282.1	278.8	256.1	149.1	152.4
87.5°	29.2	35.7	64.8	48.6	55.1	48.6	64.8	90.8	94.0	51.9	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)