

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: P530484

Luminaire Tested: **GALN-SA5D-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28598 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

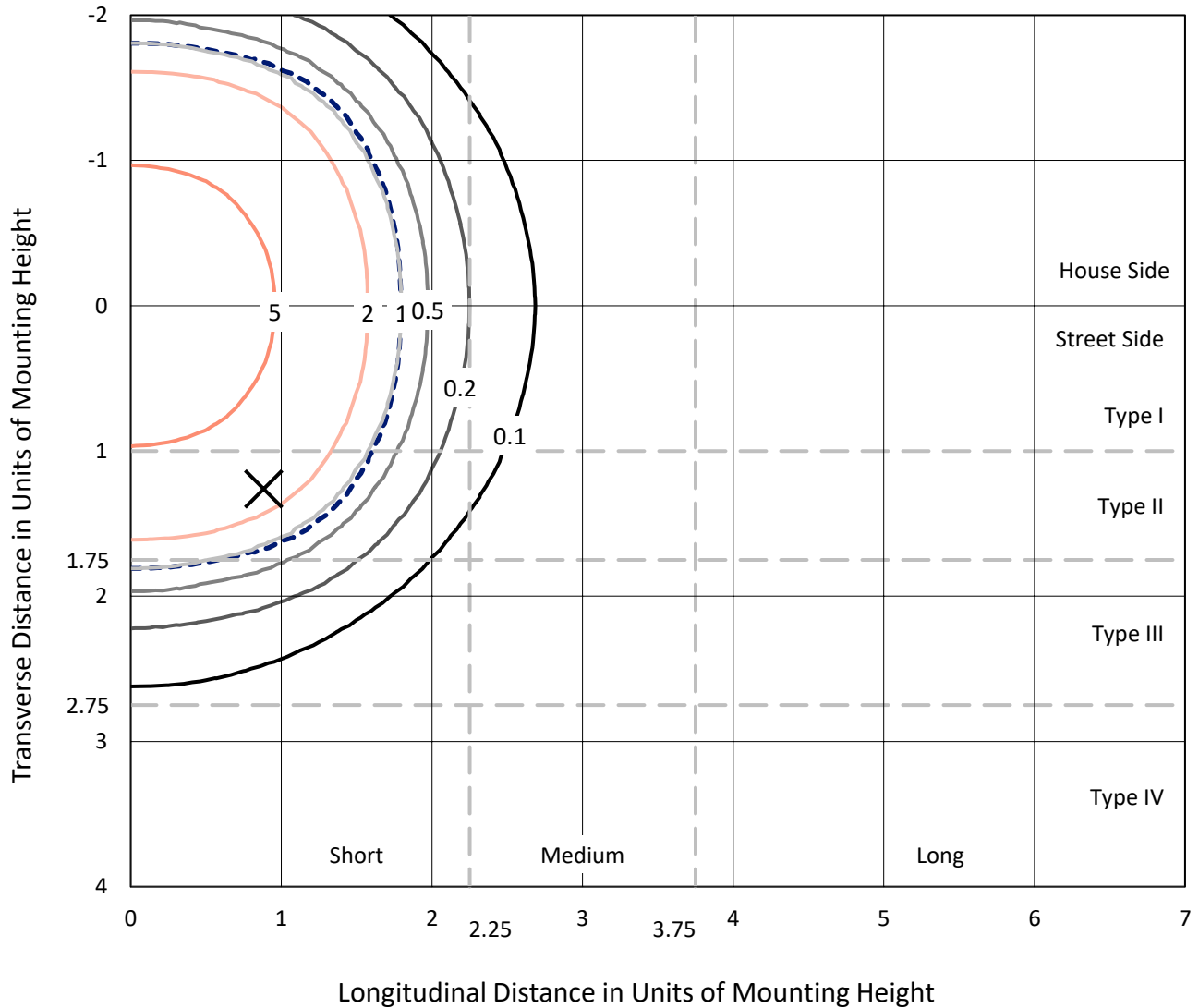
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

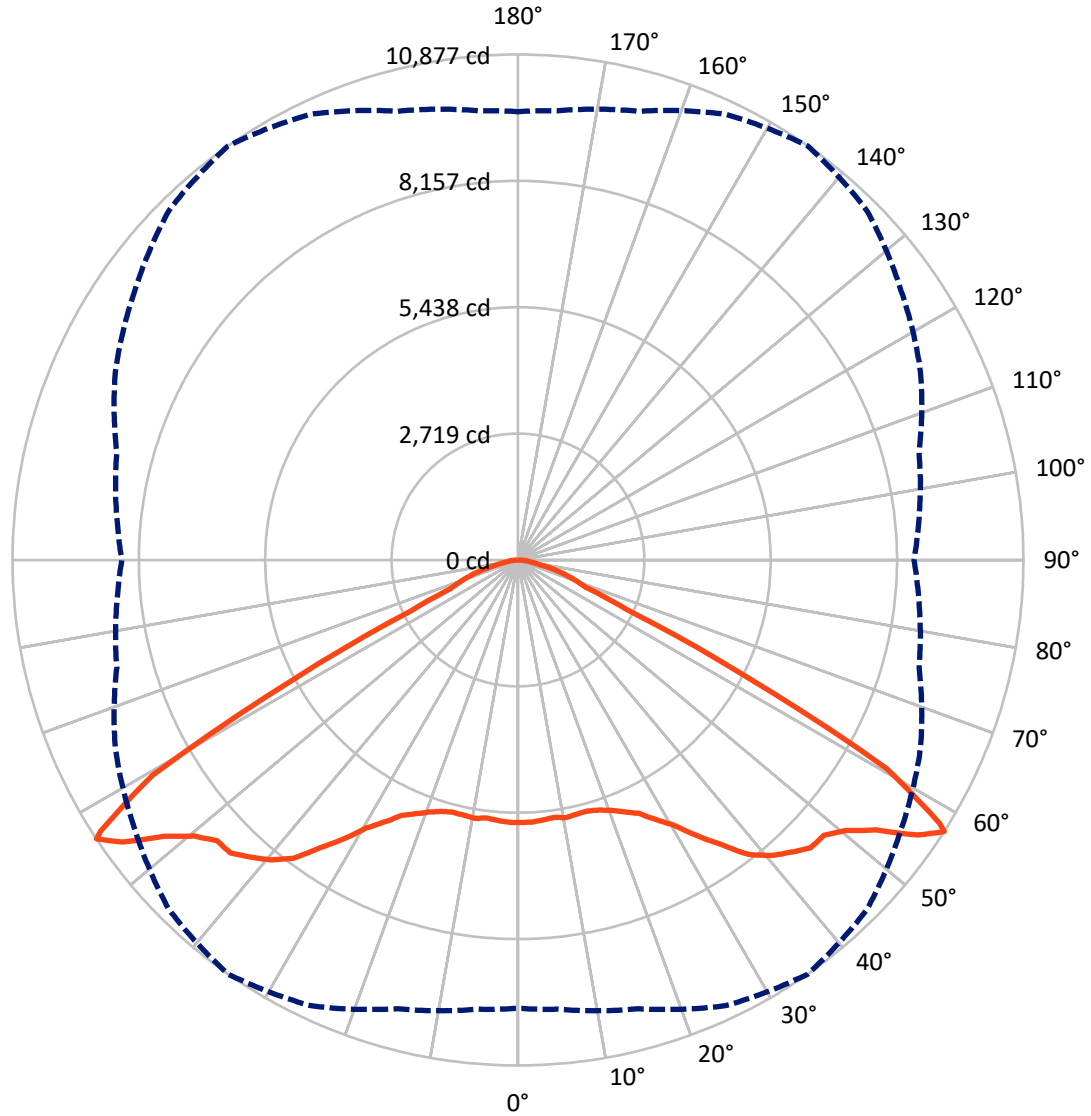
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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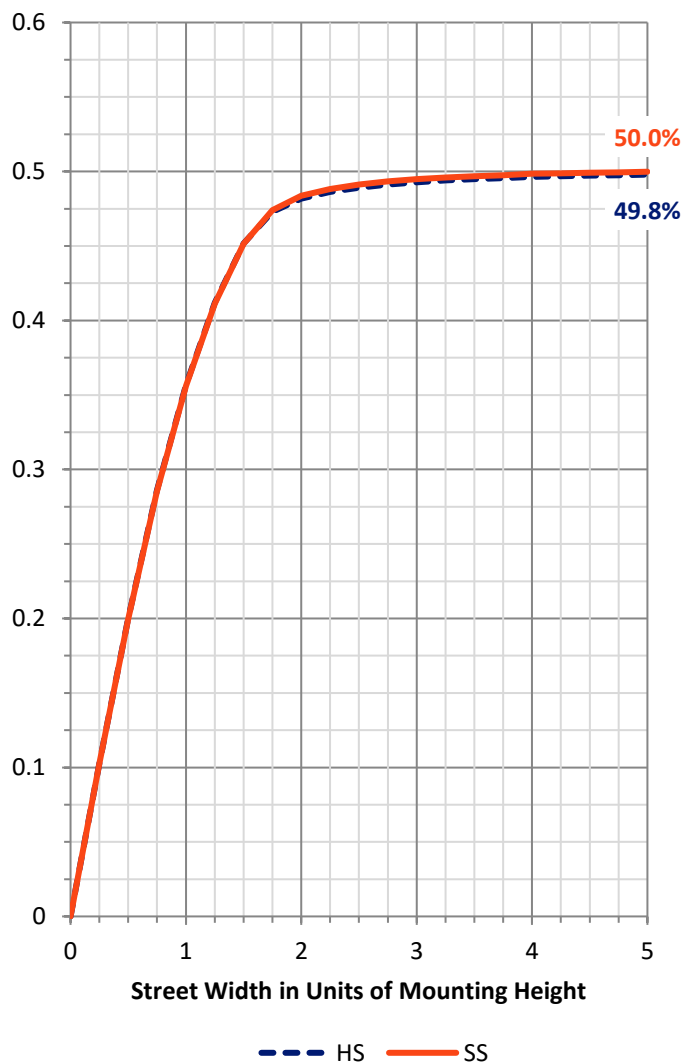
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14299.0	0.0	14299.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14299.0	0.0	14299.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28598.0	0.0	28598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.4	1.9
10°-20°	1585.8	5.5
20°-30°	2769.6	9.7
30°-40°	4538.1	15.9
40°-50°	6654.0	23.3
50°-60°	8381.2	29.3
60°-70°	3152.1	11.0
70°-80°	838.1	2.9
80°-90°	143.7	0.5
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°	28598.0	100.0
0°-180°	28598.0	100.0

Coefficient of Utilization



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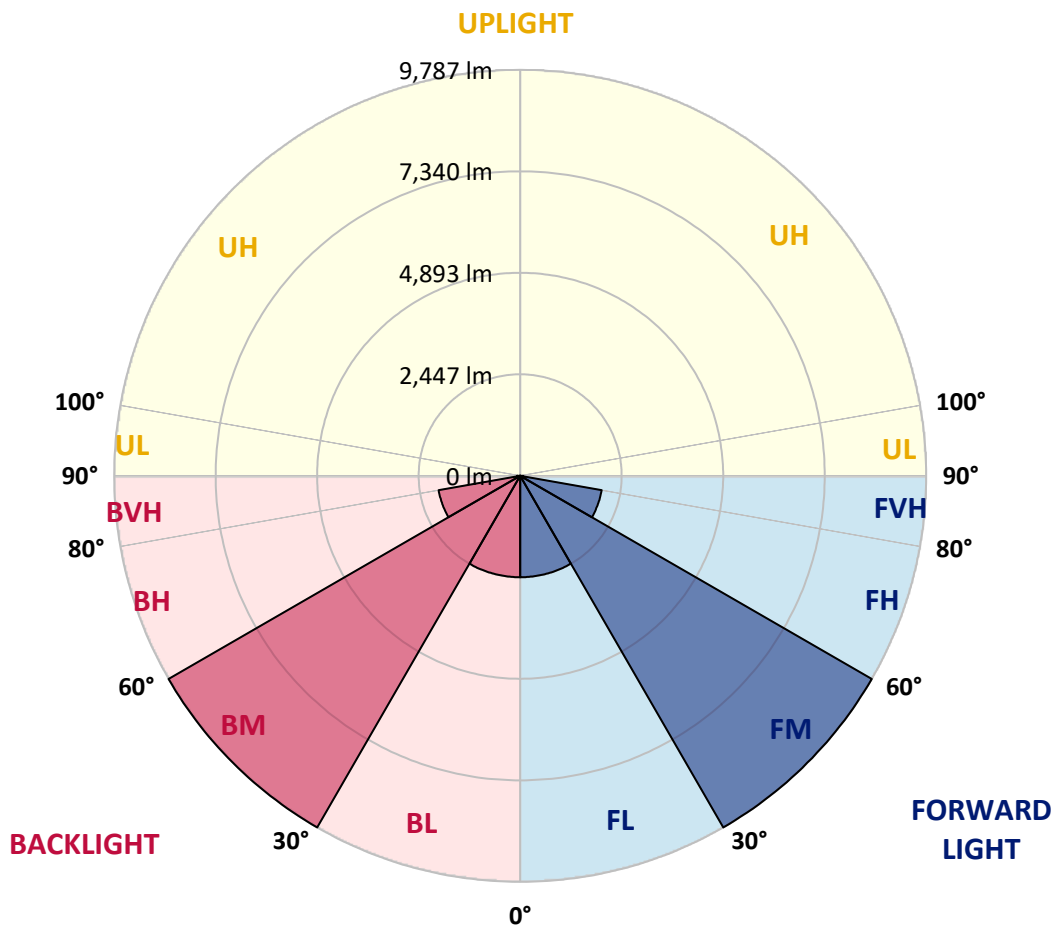
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.4	8.6			
FM (30°-60°)	9786.6	34.2			
FH (60°-80°)	1995.1	7.0			G2/5000
FVH (80°-90°)	71.9	0.3			G1/100
BL (0°-30°)	2445.4	8.6	B3/2500		
BM (30°-60°)	9786.6	34.2	B5		
BH (60°-80°)	1995.1	7.0	B3/2500		G2/5000
BVH (80°-90°)	71.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5647.9	5647.9	5647.9	5647.9	5647.9	5647.9	5647.9	5647.9	5647.9	5647.9	5647.9
2.5°	5619.7	5676.1	5651.4	5637.3	5647.9	5630.3	5602.1	5633.8	5626.8	5598.6	5588.0
5°	5605.6	5647.9	5619.7	5647.9	5619.7	5669.0	5654.9	5602.1	5665.5	5605.6	5626.8
7.5°	5595.0	5609.1	5616.2	5602.1	5591.5	5651.4	5619.7	5595.0	5559.8	5549.2	5566.9
10°	5570.4	5605.6	5552.8	5623.2	5637.3	5595.0	5595.0	5549.2	5521.1	5503.4	5563.3
12.5°	5633.8	5573.9	5566.9	5602.1	5612.7	5630.3	5581.0	5556.3	5503.4	5510.5	5499.9
15°	5559.8	5584.5	5588.0	5595.0	5605.6	5647.9	5602.1	5549.2	5528.1	5454.1	5461.2
17.5°	5588.0	5563.3	5588.0	5669.0	5654.9	5686.7	5637.3	5556.3	5507.0	5464.7	5521.1
20°	5637.3	5626.8	5637.3	5736.0	5753.6	5781.8	5739.5	5665.5	5570.4	5521.1	5549.2
22.5°	5690.2	5683.1	5690.2	5785.3	5887.5	5922.7	5880.4	5707.8	5658.5	5566.9	5535.1
25°	5785.3	5792.4	5866.3	5972.0	6039.0	6105.9	6028.4	5905.1	5746.5	5690.2	5623.2
27.5°	5996.7	6014.3	6056.6	6211.6	6327.9	6387.8	6278.6	6109.5	6010.8	5894.5	5876.9
30°	6257.4	6257.4	6331.4	6465.3	6623.9	6715.5	6581.6	6380.7	6261.0	6197.5	6158.8
32.5°	6602.7	6564.0	6592.1	6828.2	7074.8	7152.4	6972.7	6726.0	6535.8	6451.2	6423.0
35°	6898.7	6923.3	6986.8	7240.4	7515.3	7694.9	7413.1	7092.5	6898.7	6821.2	6807.1
37.5°	7282.7	7325.0	7356.7	7705.5	8036.7	8103.7	7832.4	7575.2	7339.1	7275.7	7240.4
40°	7825.3	7797.1	7807.7	8064.9	8364.4	8406.7	8138.9	7955.7	7761.9	7723.1	7723.1
42.5°	8272.8	8241.1	8276.3	8371.4	8600.4	8568.7	8420.8	8286.9	8205.8	8163.6	8205.8
45°	8544.1	8537.0	8600.4	8670.9	8833.0	8727.3	8611.0	8632.2	8554.6	8484.2	8480.6
47.5°	8840.0	8794.2	8871.7	8977.4	8854.1	8804.8	8797.7	8843.6	8818.9	8695.6	8656.8
50°	8984.5	8966.9	9090.2	9213.5	9146.6	9033.8	9058.5	9132.5	8815.4	8649.8	8554.6
52.5°	9372.1	9375.6	9611.6	9678.6	9650.4	9484.8	9537.6	9336.8	8963.3	8730.8	8741.4
55°	9981.6	9956.9	10221.2	10418.5	10450.2	10238.8	9985.1	9703.2	9234.6	8998.6	8928.1
57°	9646.9	9703.2	9995.7	10580.6	10876.5	10626.4	10073.2	9558.8	8935.2	8649.8	8522.9
57.5°	9199.4	9291.0	9798.4	10386.8	10696.8	10675.7	9964.0	9291.0	8734.3	8290.4	8301.0
60°	6740.1	6757.7	7215.8	8149.5	9118.4	9139.5	8272.8	7381.4	6761.3	6278.6	6345.5
62.5°	3555.0	3636.1	3819.3	4569.8	5408.3	5612.7	5087.7	4629.7	4094.1	3727.7	3762.9
65°	1881.5	1870.9	1959.0	2170.4	2582.6	2688.3	2617.8	2254.9	2068.2	2008.3	2011.8
67.5°	1529.1	1546.7	1536.2	1546.7	1574.9	1620.7	1610.2	1624.3	1634.8	1652.4	1648.9
70°	1296.6	1296.6	1303.6	1307.2	1307.2	1328.3	1353.0	1398.8	1402.3	1419.9	1426.9
72.5°	1021.8	1014.7	1025.3	1050.0	1053.5	1071.1	1106.3	1134.5	1145.1	1145.1	1123.9
75°	694.1	701.1	715.2	736.4	757.5	789.2	817.4	835.0	842.1	831.5	820.9
77.5°	391.1	398.1	408.7	440.4	465.1	493.3	525.0	542.6	560.2	563.7	542.6
80°	232.5	232.5	250.2	274.8	303.0	331.2	359.4	380.5	387.6	387.6	377.0
82.5°	140.9	144.5	158.5	183.2	207.9	225.5	250.2	267.8	281.9	278.3	271.3
85°	74.0	74.0	88.1	109.2	126.8	144.5	144.5	133.9	126.8	109.2	102.2
87.5°	24.7	21.1	28.2	28.2	24.7	28.2	28.2	31.7	31.7	31.7	31.7
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)