

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: P534229

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40291 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

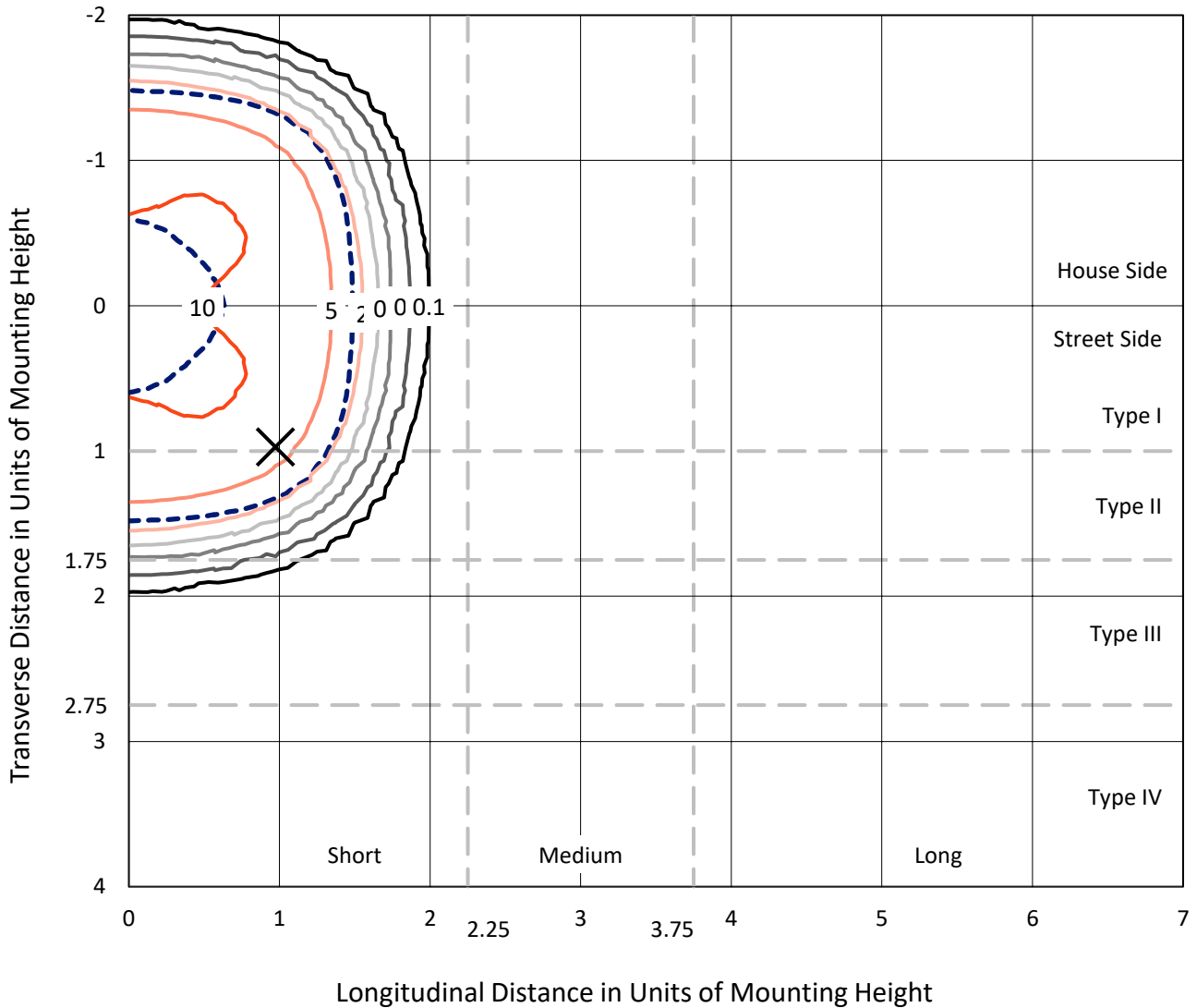
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

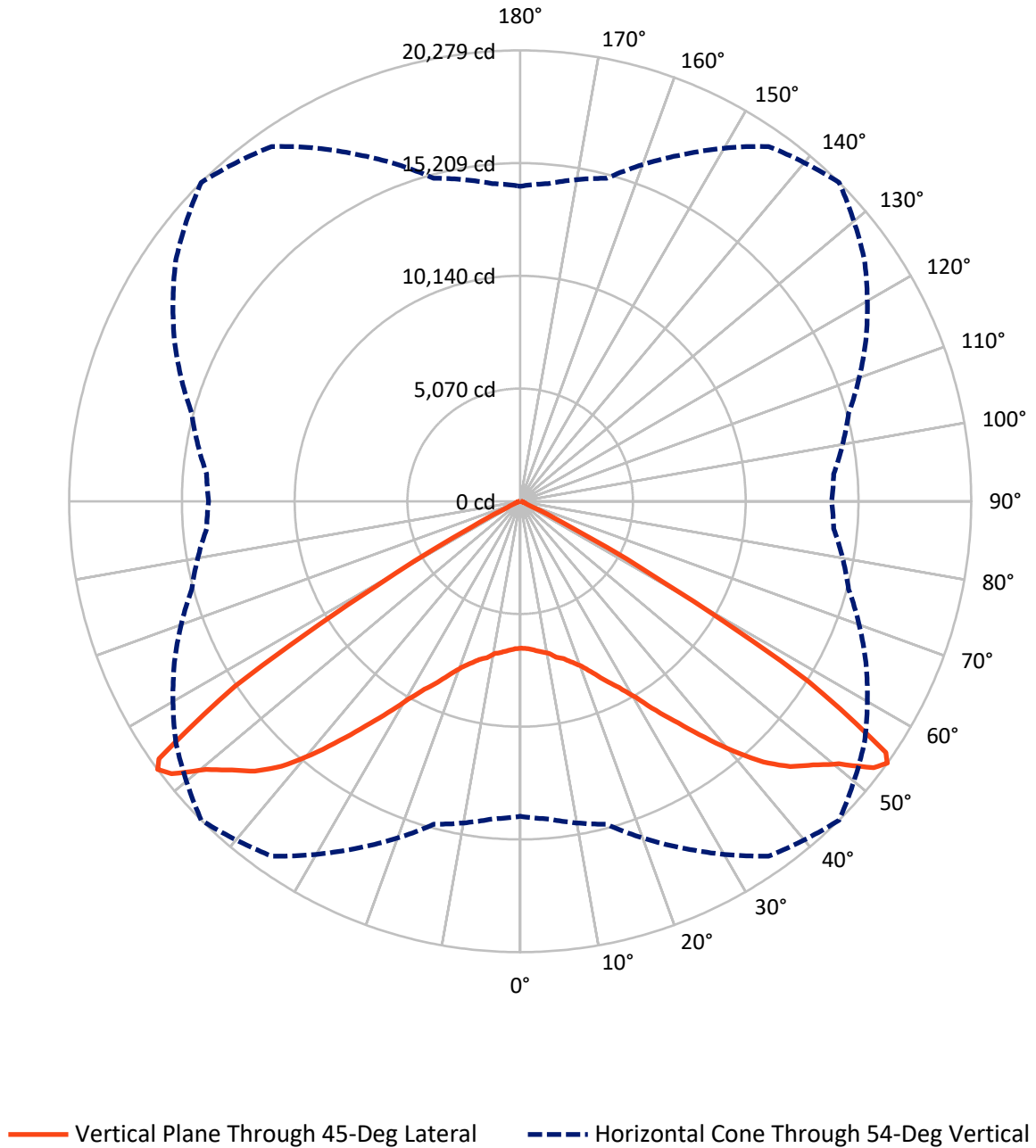
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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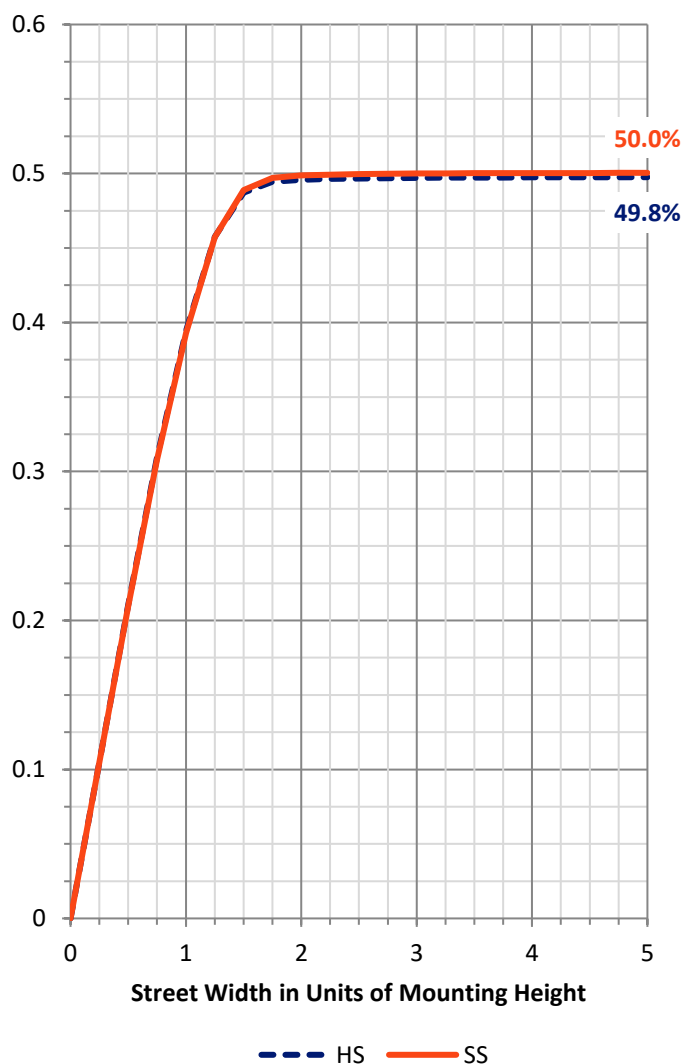
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20145.5	0.0	20145.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20145.5	0.0	20145.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40291.0	0.0	40291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.6	1.6
10°-20°	2094.0	5.2
20°-30°	4104.1	10.2
30°-40°	7380.0	18.3
40°-50°	12633.2	31.4
50°-60°	12223.8	30.3
60°-70°	1046.4	2.6
70°-80°	124.0	0.3
80°-90°	38.9	0.1
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°	40291.0	100.0
0°-180°	40291.0	100.0

Coefficient of Utilization



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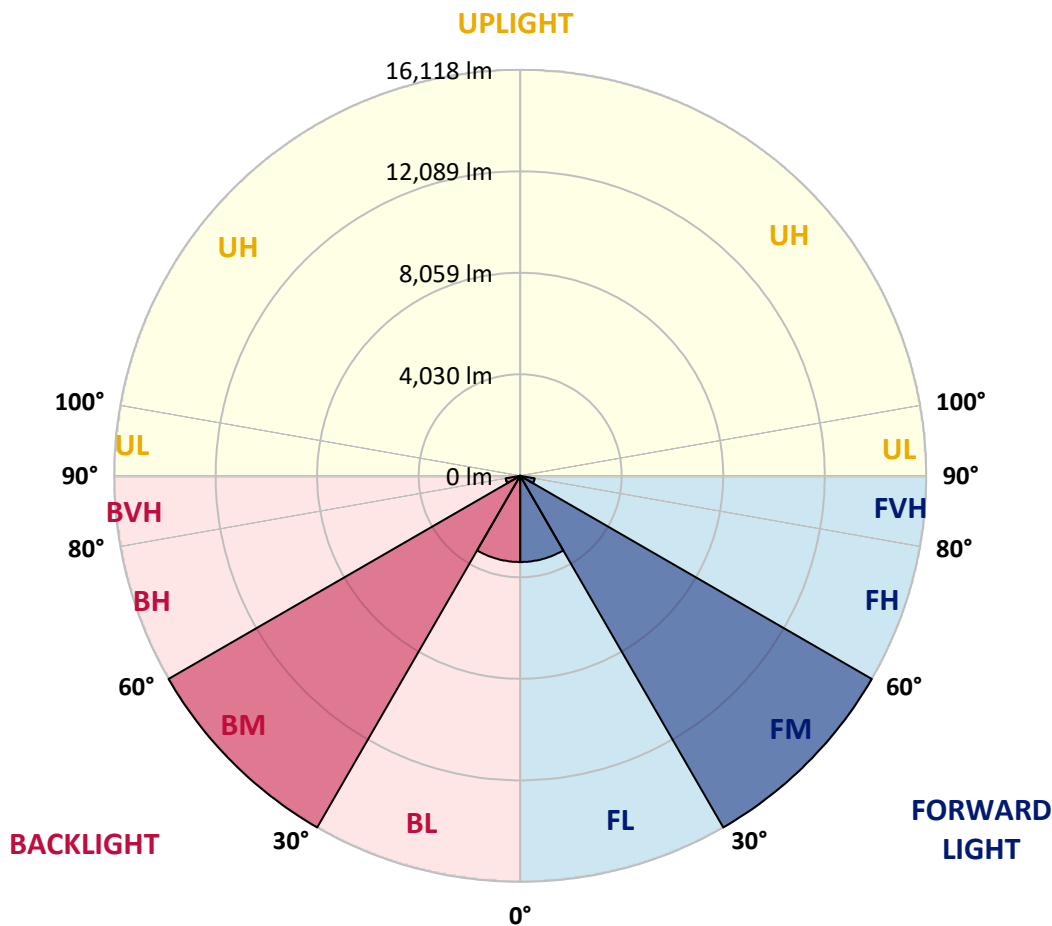
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3422.3	8.5			
FM (30°-60°)	16118.5	40.0			
FH (60°-80°)	585.2	1.5			G0/660
FVH (80°-90°)	19.4	0.0			G1/100
BL (0°-30°)	3422.3	8.5	B4/5000		
BM (30°-60°)	16118.5	40.0	B5		
BH (60°-80°)	585.2	1.5	B2/1000		G0/660
BVH (80°-90°)	19.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5
2.5°	6638.4	6676.7	6651.2	6670.3	6670.3	6638.4	6657.5	6580.9	6632.0	6593.7	6600.1
5°	6740.5	6734.1	6734.1	6740.5	6715.0	6727.7	6702.2	6676.7	6657.5	6632.0	6708.6
7.5°	6868.2	6868.2	6823.5	6836.3	6823.5	6842.6	6791.6	6740.5	6721.4	6702.2	6689.4
10°	6989.5	6976.7	6957.5	7015.0	6970.3	6944.8	6919.2	6887.3	6817.1	6791.6	6766.0
12.5°	7168.2	7161.8	7136.3	7193.7	7168.2	7193.7	7098.0	7015.0	7002.2	6919.2	6963.9
15°	7378.8	7436.3	7391.6	7391.6	7378.8	7346.9	7308.6	7270.3	7155.4	7123.5	7129.9
17.5°	7653.3	7634.1	7640.5	7640.5	7704.4	7621.4	7544.8	7449.0	7391.6	7372.4	7308.6
20°	7915.0	7940.5	7934.1	7978.8	8017.1	7927.8	7844.8	7832.0	7672.4	7698.0	7608.6
22.5°	8374.6	8355.4	8387.3	8419.3	8393.7	8381.0	8304.4	8208.6	8068.2	8004.4	7991.6
25°	8859.7	8827.8	8770.3	8846.9	8885.2	8942.7	8795.9	8744.8	8527.8	8432.0	8438.4
27.5°	9274.6	9319.3	9383.1	9415.0	9510.8	9491.6	9389.5	9223.5	9057.6	8949.1	8878.8
30°	9842.7	9868.2	9976.7	10021.4	10187.4	10232.0	10072.5	9881.0	9587.4	9446.9	9364.0
32.5°	10366.1	10544.8	10538.4	10761.8	11029.9	11215.0	10927.8	10634.2	10340.6	10174.6	10027.8
35°	11215.0	11183.1	11368.2	11604.4	12038.5	12249.1	11936.3	11598.0	11151.2	10883.1	10768.2
37.5°	12006.5	12019.3	12268.2	12644.8	13142.7	13468.3	13193.8	12638.5	12178.9	11834.2	11674.6
40°	13155.5	13181.0	13436.3	13864.0	14425.7	14776.8	14457.6	13895.9	13283.2	13015.1	13015.1
42.5°	14502.3	14610.8	14776.8	15147.0	15651.3	16040.6	15753.4	15313.0	14693.8	14349.1	14400.2
45°	15887.4	15938.5	16047.0	16596.0	16832.1	17023.6	16755.5	16551.3	16136.4	15715.1	15644.9
47.5°	17183.2	17202.4	17521.5	17693.8	17879.0	17719.4	17891.7	17623.6	17157.7	16749.2	16666.2
50°	17757.7	17725.8	18179.0	18702.4	18842.8	18561.9	18415.1	18236.4	17527.9	17036.4	16819.4
52.5°	16085.3	16270.4	17113.0	18568.3	19666.2	19902.4	19047.1	18223.6	16902.3	15944.9	15798.1
54°	14170.4	14342.7	15038.5	17196.0	19481.1	20279.0	18900.2	17151.3	15287.4	14151.2	14004.4
55°	12274.6	12083.1	13347.0	15549.1	18613.0	19947.1	18319.4	15766.2	13634.2	12593.8	12389.5
57.5°	6644.8	6676.7	7742.7	9823.5	13078.9	15293.8	13506.6	10666.1	8055.4	6887.3	6785.2
60°	2106.4	2157.5	2623.4	3970.3	6249.0	7461.8	6395.8	4283.0	2961.7	2374.5	2278.8
62.5°	657.5	683.0	746.8	1110.7	1710.7	2444.7	1914.9	1149.0	855.3	785.1	797.9
65°	402.1	402.1	408.5	434.0	510.6	593.6	574.5	504.3	485.1	472.3	466.0
67.5°	261.7	255.3	268.1	287.2	300.0	306.4	325.5	344.7	338.3	325.5	325.5
70°	159.6	153.2	166.0	191.5	197.9	210.6	229.8	255.3	248.9	236.2	242.6
72.5°	89.4	89.4	95.7	114.9	134.0	146.8	166.0	185.1	191.5	185.1	185.1
75°	31.9	38.3	51.1	70.2	83.0	102.1	121.3	140.4	159.6	146.8	140.4
77.5°	12.8	12.8	25.5	44.7	63.8	83.0	114.9	134.0	146.8	134.0	121.3
80°	6.4	6.4	19.1	38.3	57.4	76.6	95.7	114.9	121.3	108.5	95.7
82.5°	6.4	6.4	19.1	38.3	57.4	70.2	102.1	114.9	127.7	114.9	95.7
85°	0.0	6.4	19.1	38.3	51.1	57.4	57.4	38.3	31.9	19.1	19.1
87.5°	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)