

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: P531424

Luminaire Tested: **GALN-SA6D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32547 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

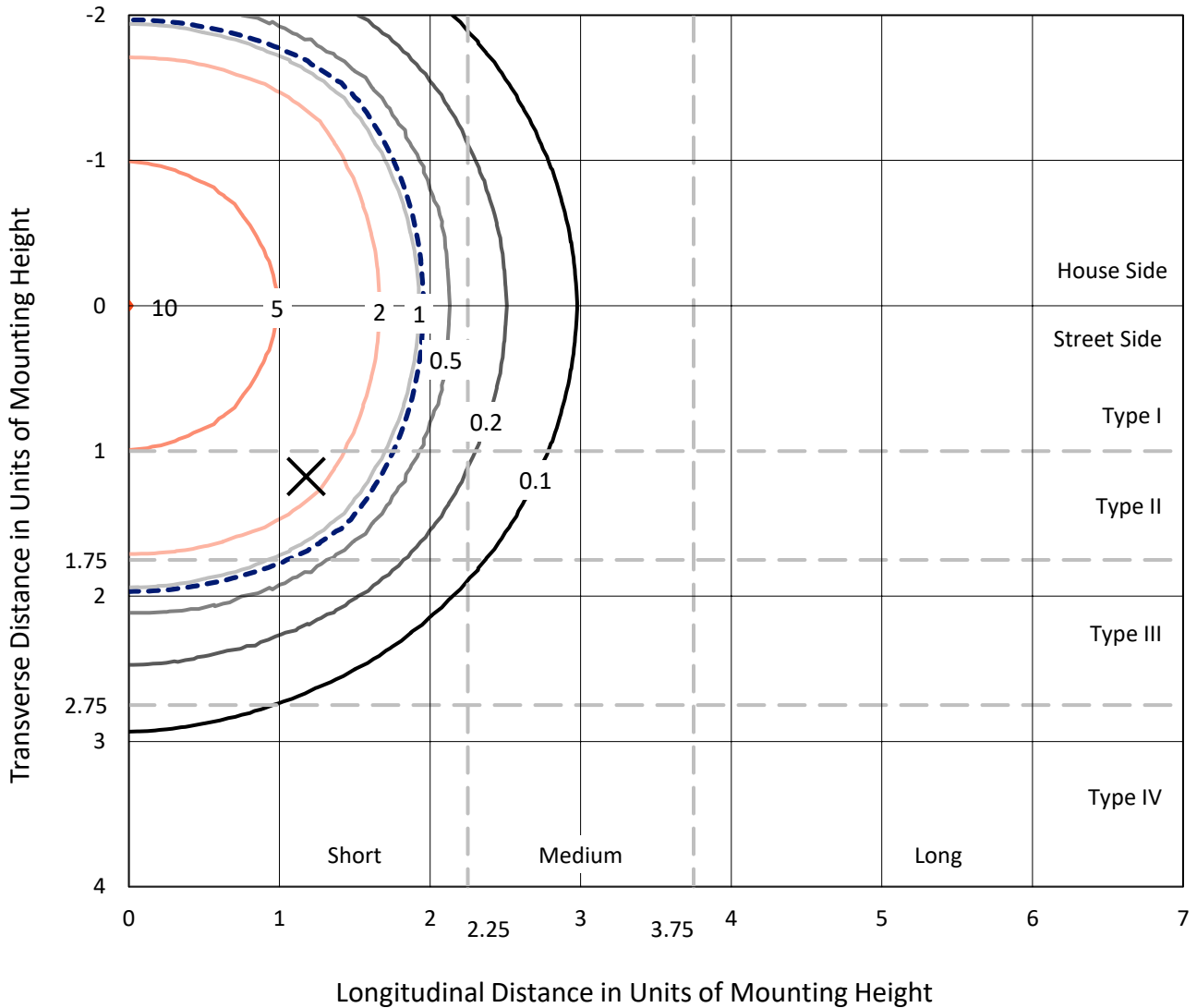
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

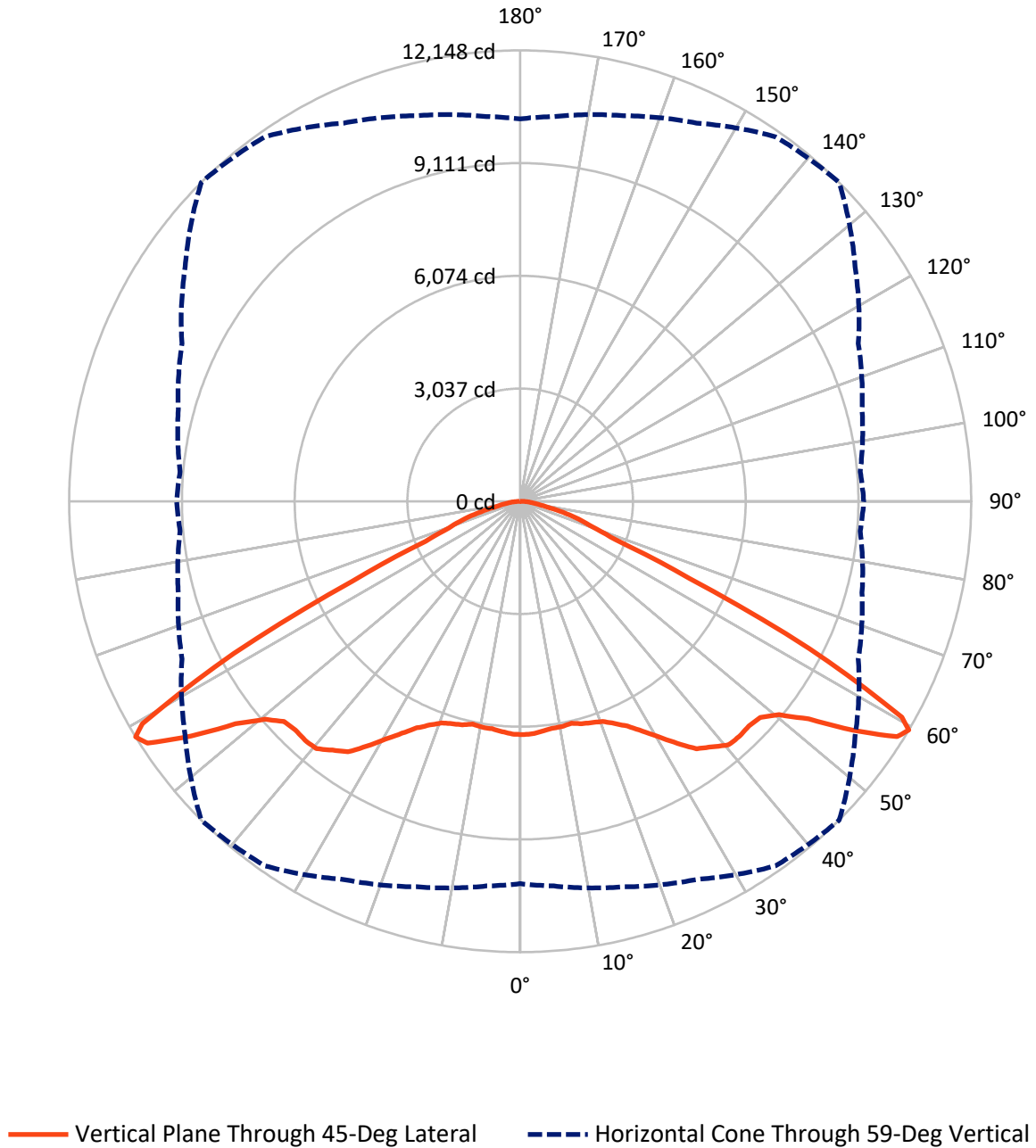
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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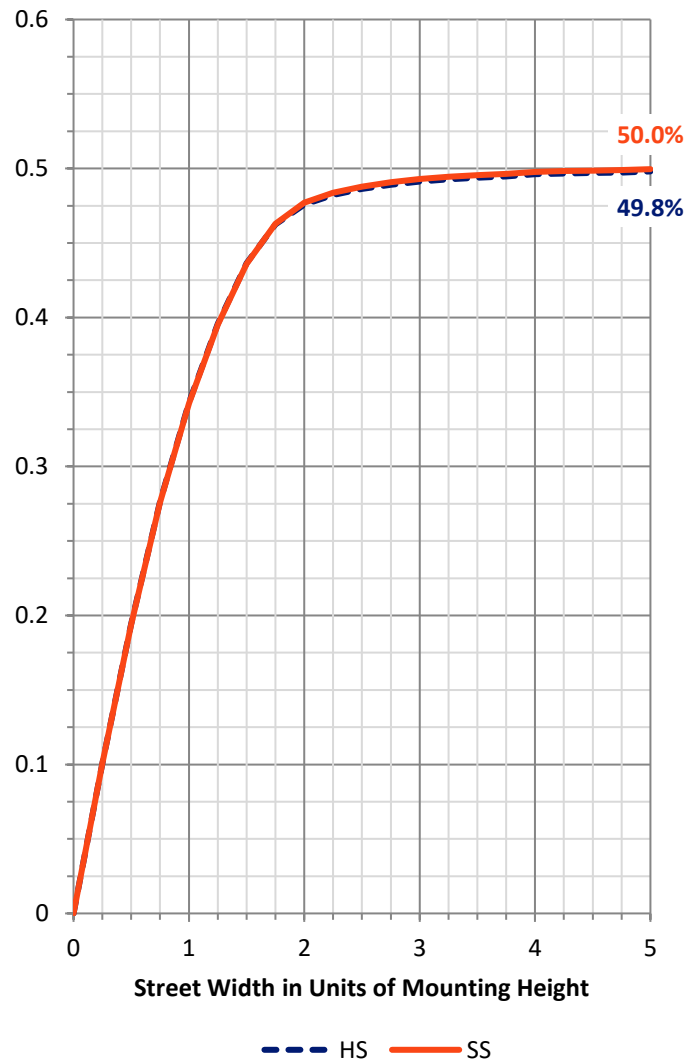
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16273.5	0.0	16273.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16273.5	0.0	16273.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32547.0	0.0	32547.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.6	1.8
10°-20°	1762.3	5.4
20°-30°	3077.3	9.5
30°-40°	4914.8	15.1
40°-50°	6695.0	20.6
50°-60°	9053.4	27.8
60°-70°	4964.9	15.3
70°-80°	1270.2	3.9
80°-90°	216.6	0.7
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°	32547.0	100.0
0°-180°	32547.0	100.0



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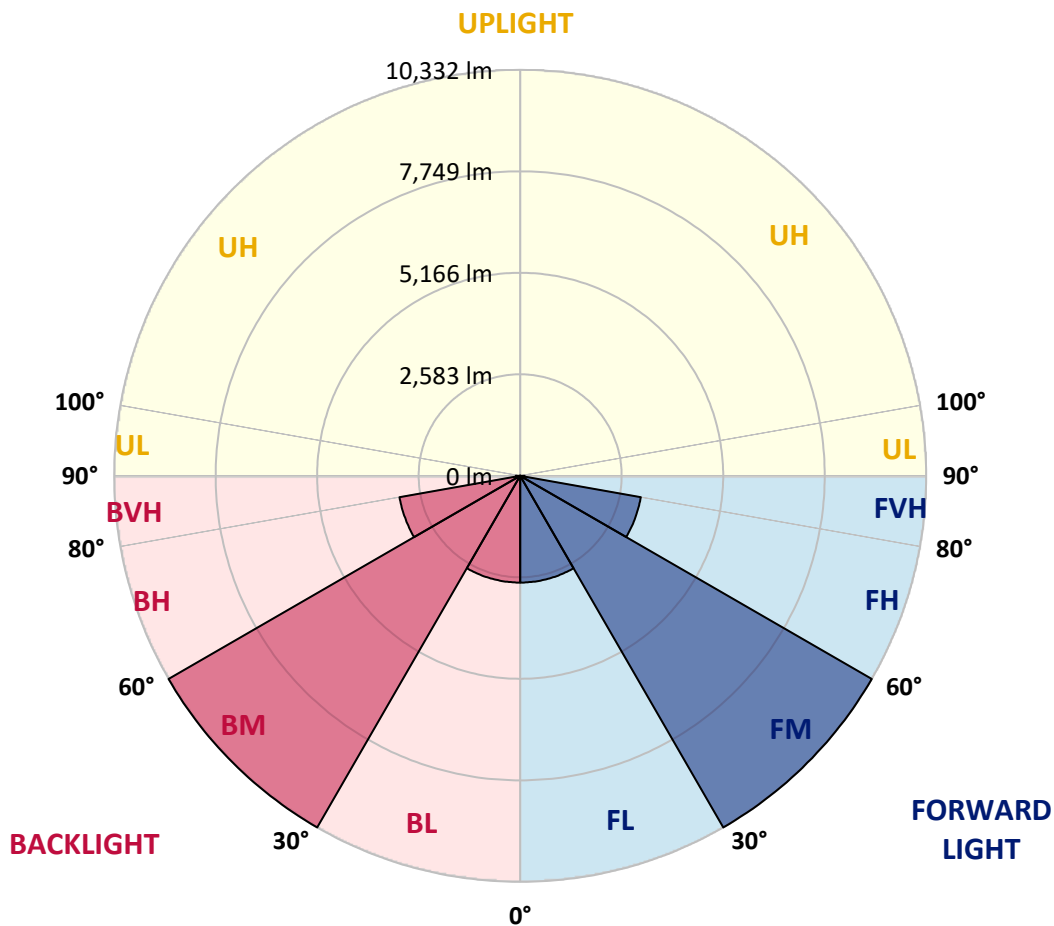
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2716.1	8.3			
FM (30°-60°)	10331.6	31.7			
FH (60°-80°)	3117.5	9.6			G2/5000
FVH (80°-90°)	108.3	0.3			G2/225
BL (0°-30°)	2716.1	8.3	B4/5000		
BM (30°-60°)	10331.6	31.7	B5		
BH (60°-80°)	3117.5	9.6	B4/5000		G2/5000
BVH (80°-90°)	108.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6286.5	6286.5	6286.5	6286.5	6286.5	6286.5	6286.5	6286.5	6286.5	6286.5	6286.5
2.5°	6249.0	6294.9	6261.5	6290.7	6286.5	6274.0	6253.2	6240.6	6224.0	6249.0	6207.3
5°	6224.0	6261.5	6299.0	6249.0	6249.0	6224.0	6211.4	6186.4	6186.4	6182.2	6178.1
7.5°	6265.7	6228.1	6211.4	6219.8	6228.1	6173.9	6211.4	6161.4	6119.7	6148.9	6182.2
10°	6228.1	6244.8	6182.2	6211.4	6165.5	6173.9	6148.9	6182.2	6136.3	6136.3	6136.3
12.5°	6265.7	6219.8	6240.6	6219.8	6207.3	6136.3	6169.7	6132.2	6128.0	6169.7	6132.2
15°	6340.8	6265.7	6249.0	6207.3	6219.8	6219.8	6186.4	6190.6	6144.7	6169.7	6178.1
17.5°	6315.7	6274.0	6261.5	6211.4	6253.2	6265.7	6203.1	6161.4	6190.6	6186.4	6182.2
20°	6336.6	6353.3	6340.8	6349.1	6365.8	6332.4	6274.0	6215.6	6178.1	6232.3	6228.1
22.5°	6470.1	6453.4	6445.0	6436.7	6465.9	6499.3	6420.0	6328.2	6328.2	6365.8	6382.5
25°	6578.5	6574.4	6570.2	6607.7	6707.9	6707.9	6607.7	6490.9	6461.7	6486.8	6465.9
27.5°	6737.1	6782.9	6766.3	6833.0	6979.0	7012.4	6878.9	6741.2	6662.0	6632.8	6670.3
30°	7100.0	7045.7	7058.3	7129.2	7258.5	7367.0	7162.5	7016.5	6908.1	6903.9	6920.6
32.5°	7341.9	7383.6	7421.2	7487.9	7692.3	7775.8	7529.6	7291.9	7225.1	7187.6	7200.1
35°	7825.8	7788.3	7779.9	7846.7	8051.1	8188.8	7880.1	7671.5	7583.9	7667.3	7667.3
37.5°	8284.7	8180.4	8101.1	8188.8	8376.5	8393.2	8130.3	8017.7	7971.8	8067.8	8063.6
40°	8501.6	8493.3	8309.7	8359.8	8610.1	8635.1	8389.0	8255.5	8247.2	8372.3	8497.4
42.5°	8726.9	8647.6	8464.1	8497.4	8651.8	8660.1	8426.5	8389.0	8480.8	8601.7	8610.1
45°	8764.4	8697.7	8580.9	8497.4	8610.1	8635.1	8497.4	8522.5	8530.8	8676.8	8676.8
47.5°	8839.5	8831.2	8764.4	8701.9	8722.7	8701.9	8614.2	8651.8	8776.9	8847.9	8814.5
50°	9048.1	8960.5	9027.2	8973.0	8977.2	9035.6	8956.3	8993.9	8968.8	8906.3	8864.5
52.5°	9507.0	9465.2	9523.6	9561.2	9602.9	9736.4	9644.6	9444.4	9256.7	9089.8	9085.6
55°	10178.6	10207.8	10320.4	10512.3	10675.0	10887.7	10445.6	9965.8	9665.5	9402.7	9419.4
57.5°	10812.7	10791.8	10946.1	11384.2	11859.7	11968.2	11100.5	10416.4	9928.3	9761.4	9690.5
59°	10303.7	10403.8	10754.3	11242.3	11989.0	12147.5	11012.9	10049.3	9532.0	9194.1	9252.5
60°	9502.8	9540.3	9853.2	10533.2	11542.7	11813.8	10424.7	9481.9	8793.6	8597.6	8685.2
62.5°	6716.2	6687.0	6912.3	7467.1	8372.3	8739.4	7750.7	7087.5	6653.6	6436.7	6486.8
65°	3570.8	3704.3	3796.1	4142.3	4622.1	5010.0	4601.2	4313.4	4071.4	3892.1	3887.9
67.5°	2411.2	2394.5	2415.3	2494.6	2657.3	2765.7	2757.4	2611.4	2590.5	2557.2	2594.7
70°	2031.5	2023.2	1985.7	1985.7	2019.0	2044.1	2073.3	2089.9	2123.3	2165.0	2160.9
72.5°	1647.8	1626.9	1601.9	1589.4	1631.1	1643.6	1681.1	1697.8	1727.0	1722.8	1760.4
75°	1088.8	1088.8	1118.0	1151.3	1163.9	1188.9	1193.1	1243.1	1243.1	1251.5	1218.1
77.5°	609.0	592.4	613.2	646.6	675.8	721.7	767.6	805.1	826.0	817.6	817.6
80°	354.6	354.6	375.4	413.0	450.5	492.2	525.6	554.8	575.7	567.3	550.6
82.5°	221.1	221.1	241.9	279.5	308.7	333.7	379.6	417.2	442.2	433.8	413.0
85°	112.6	112.6	137.7	162.7	200.2	216.9	212.7	196.1	191.9	171.0	171.0
87.5°	29.2	29.2	41.7	45.9	37.5	41.7	41.7	41.7	41.7	41.7	45.9
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)