

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: P534232

Luminaire Tested: **GALN-SA9D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534232
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-SA9D-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 49758 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

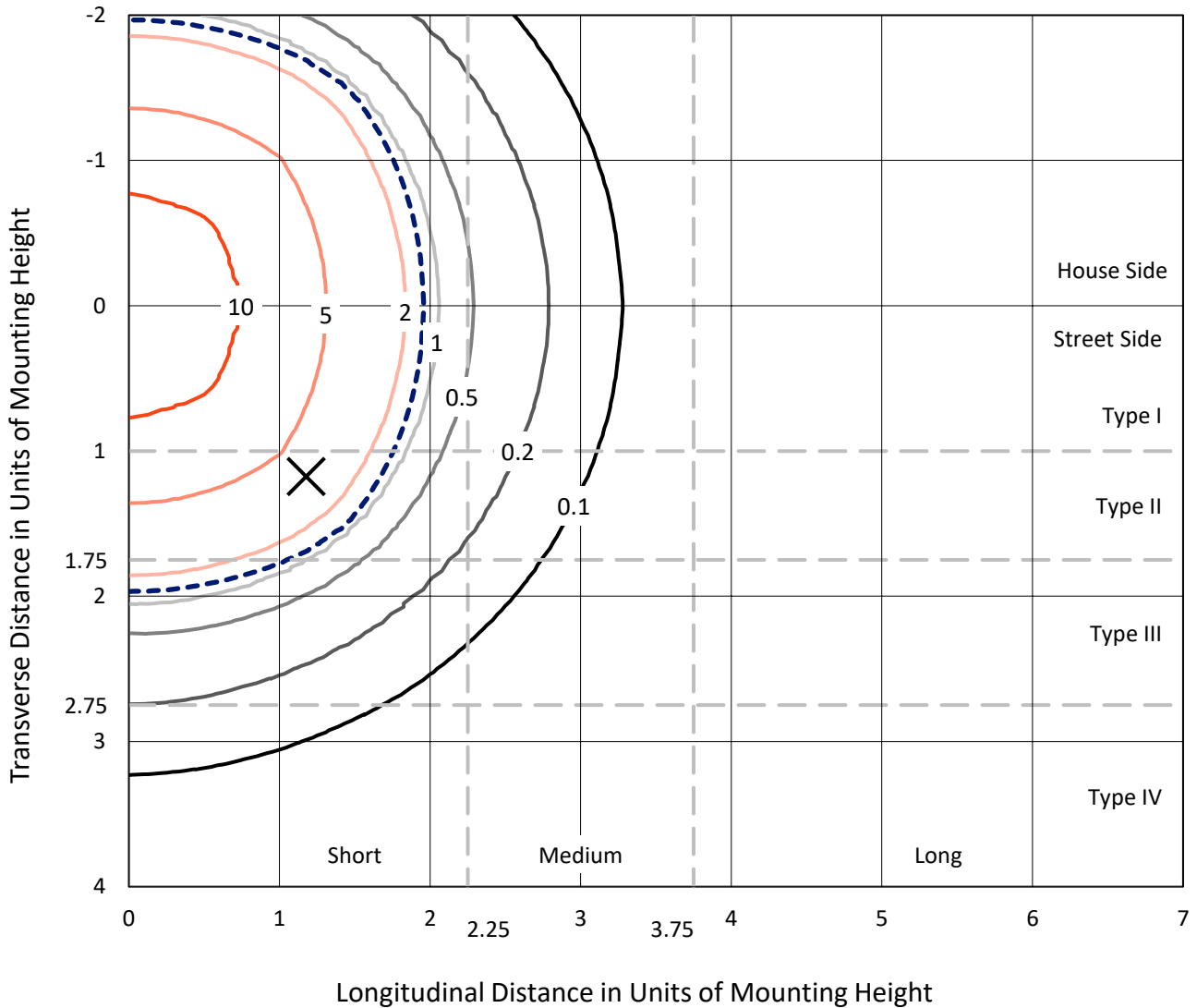
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

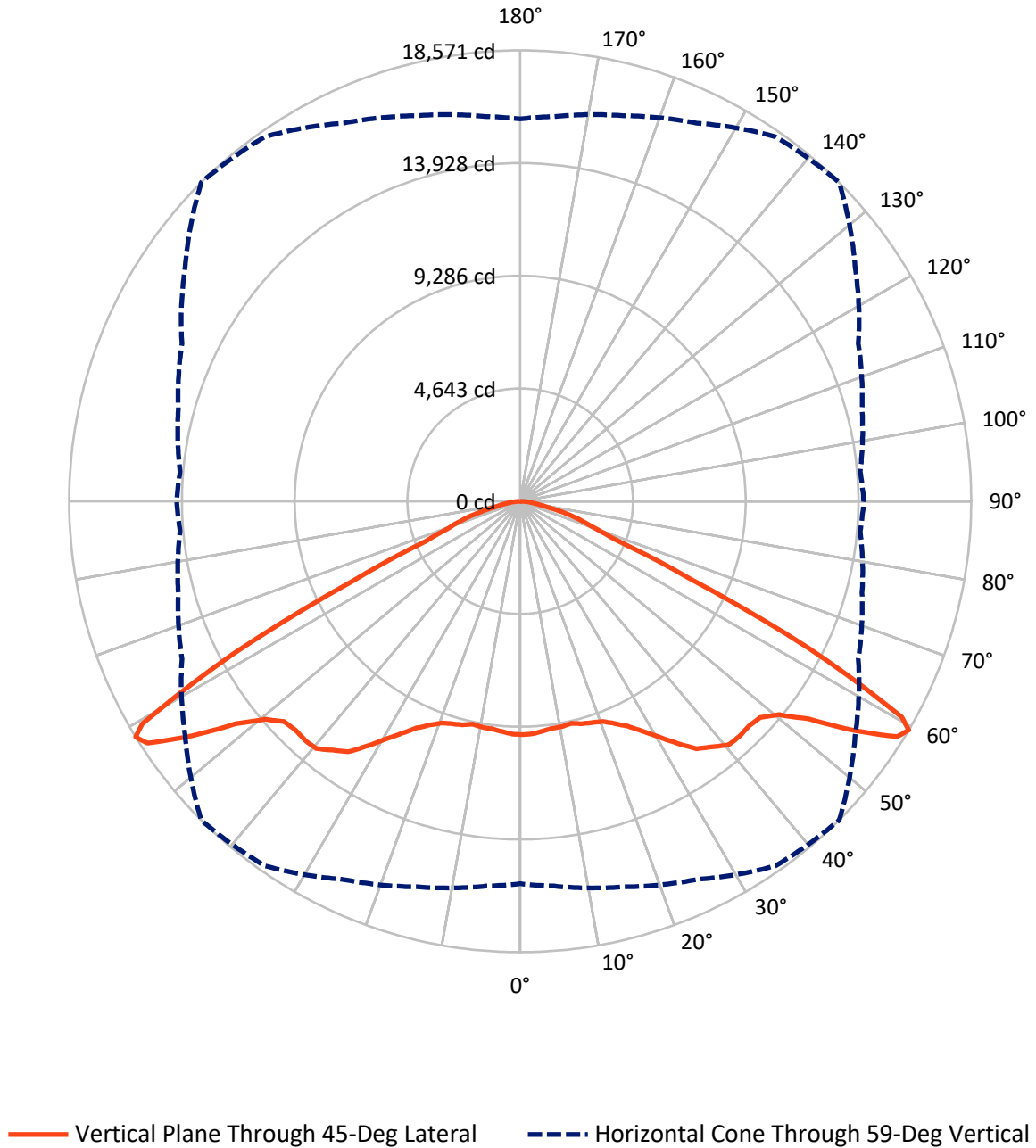
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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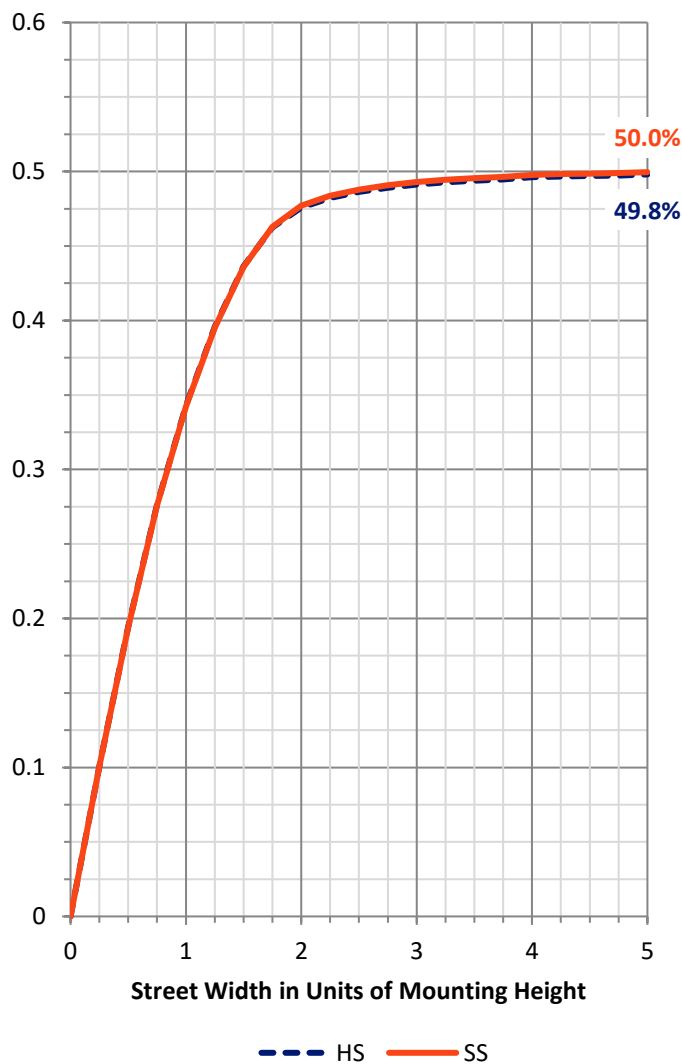
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24879.0	0.0	24879.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24879.0	0.0	24879.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49758.0	0.0	49758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.0	1.8
10°-20°	2694.3	5.4
20°-30°	4704.5	9.5
30°-40°	7513.8	15.1
40°-50°	10235.3	20.6
50°-60°	13840.8	27.8
60°-70°	7590.3	15.3
70°-80°	1941.8	3.9
80°-90°	331.2	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°	49758.0	100.0
0°-180°	49758.0	100.0

Coefficient of Utilization



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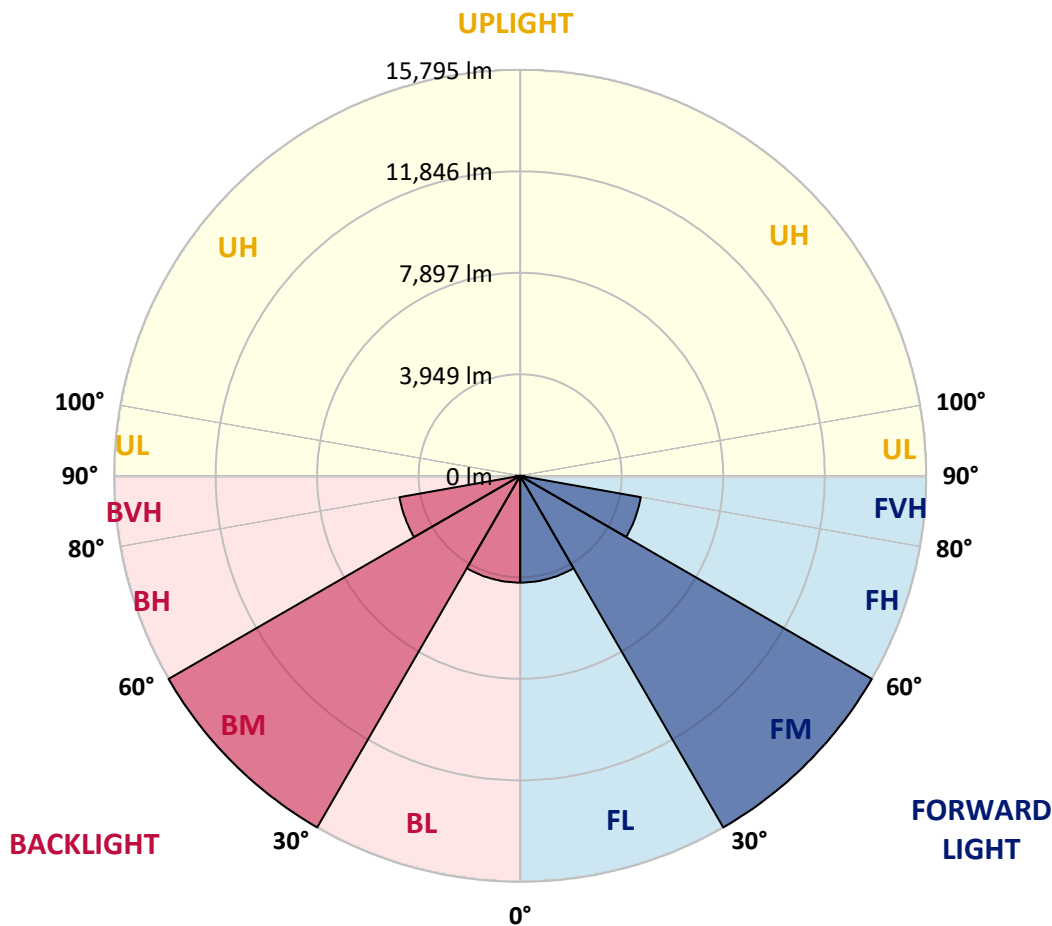
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4152.4	8.3			
FM (30°-60°)	15794.9	31.7			
FH (60°-80°)	4766.1	9.6			G2/5000
FVH (80°-90°)	165.6	0.3			G2/225
BL (0°-30°)	4152.4	8.3	B4/5000		
BM (30°-60°)	15794.9	31.7	B5		
BH (60°-80°)	4766.1	9.6	B4/5000		G2/5000
BVH (80°-90°)	165.6	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°	9610.9	9610.9	9610.9	9610.9	9610.9	9610.9	9610.9	9610.9	9610.9	9610.9	9610.9
2.5°	9553.5	9623.6	9572.6	9617.2	9610.9	9591.7	9559.8	9540.7	9515.2	9553.5	9489.7
5°	9515.2	9572.6	9630.0	9553.5	9553.5	9515.2	9496.1	9457.8	9457.8	9451.4	9445.1
7.5°	9579.0	9521.6	9496.1	9508.8	9521.6	9438.7	9496.1	9419.5	9355.8	9400.4	9451.4
10°	9521.6	9547.1	9451.4	9496.1	9425.9	9438.7	9400.4	9451.4	9381.3	9381.3	9381.3
12.5°	9579.0	9508.8	9540.7	9508.8	9489.7	9381.3	9432.3	9374.9	9368.5	9432.3	9374.9
15°	9693.8	9579.0	9553.5	9489.7	9508.8	9508.8	9457.8	9464.2	9394.0	9432.3	9445.1
17.5°	9655.5	9591.7	9572.6	9496.1	9559.8	9579.0	9483.3	9419.5	9464.2	9457.8	9451.4
20°	9687.4	9712.9	9693.8	9706.5	9732.0	9681.0	9591.7	9502.4	9445.1	9528.0	9521.6
22.5°	9891.5	9866.0	9853.2	9840.5	9885.1	9936.1	9814.9	9674.6	9674.6	9732.0	9757.5
25°	10057.3	10050.9	10044.5	10101.9	10255.0	10255.0	10101.9	9923.4	9878.7	9917.0	9885.1
27.5°	10299.6	10369.8	10344.3	10446.3	10669.5	10720.5	10516.5	10306.0	10184.8	10140.2	10197.6
30°	10854.5	10771.6	10790.7	10899.1	11096.8	11262.6	10950.1	10726.9	10561.1	10554.7	10580.2
32.5°	11224.4	11288.1	11345.5	11447.6	11760.1	11887.6	11511.4	11147.8	11045.8	10988.4	11007.5
35°	11964.2	11906.8	11894.0	11996.0	12308.5	12519.0	12047.1	11728.2	11594.3	11721.8	11721.8
37.5°	12665.7	12506.2	12385.1	12519.0	12806.0	12831.5	12429.7	12257.5	12187.4	12334.1	12327.7
40°	12997.3	12984.6	12703.9	12780.5	13163.1	13201.4	12825.1	12621.0	12608.3	12799.6	12990.9
42.5°	13341.7	13220.5	12939.9	12990.9	13226.9	13239.7	12882.5	12825.1	12965.4	13150.4	13163.1
45°	13399.1	13297.1	13118.5	12990.9	13163.1	13201.4	12990.9	13029.2	13042.0	13265.2	13265.2
47.5°	13513.9	13501.1	13399.1	13303.4	13335.3	13303.4	13169.5	13226.9	13418.2	13526.6	13475.6
50°	13832.8	13698.8	13800.9	13718.0	13724.3	13813.6	13692.5	13749.9	13711.6	13615.9	13552.2
52.5°	14534.3	14470.5	14559.8	14617.2	14681.0	14885.0	14744.7	14438.6	14151.6	13896.5	13890.2
55°	15561.1	15605.7	15777.9	16071.3	16320.0	16645.2	15969.2	15235.8	14776.6	14374.8	14400.4
57.5°	16530.4	16498.5	16734.5	17404.1	18131.2	18297.0	16970.5	15924.6	15178.4	14923.3	14814.9
59°	15752.4	15905.4	16441.1	17187.3	18328.9	18571.2	16836.6	15363.4	14572.5	14056.0	14145.3
60°	14527.9	14585.3	15063.6	16103.1	17646.5	18061.0	15937.3	14496.0	13443.7	13144.0	13277.9
62.5°	10267.7	10223.1	10567.5	11415.7	12799.6	13360.8	11849.4	10835.3	10172.1	9840.5	9917.0
65°	5459.1	5663.2	5803.5	6332.8	7066.3	7659.4	7034.4	6594.3	6224.4	5950.2	5943.8
67.5°	3686.2	3660.7	3692.6	3813.7	4062.5	4228.3	4215.5	3992.3	3960.4	3909.4	3966.8
70°	3105.8	3093.1	3035.7	3035.7	3086.7	3125.0	3169.6	3195.1	3246.1	3309.9	3303.5
72.5°	2519.1	2487.2	2449.0	2429.8	2493.6	2512.7	2570.1	2595.6	2640.3	2633.9	2691.3
75°	1664.5	1664.5	1709.2	1760.2	1779.3	1817.6	1824.0	1900.5	1900.5	1913.2	1862.2
77.5°	931.1	905.6	937.5	988.5	1033.2	1103.3	1173.5	1230.9	1262.7	1250.0	1250.0
80°	542.1	542.1	574.0	631.4	688.8	752.5	803.6	848.2	880.1	867.3	841.8
82.5°	338.0	338.0	369.9	427.3	471.9	510.2	580.4	637.7	676.0	663.3	631.4
85°	172.2	172.2	210.5	248.7	306.1	331.6	325.3	299.7	293.4	261.5	261.5
87.5°	44.6	44.6	63.8	70.2	57.4	63.8	63.8	63.8	63.8	63.8	70.2
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)