

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: P530540

Luminaire Tested: **GALN-SA5D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530540
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-SA5D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 30617 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

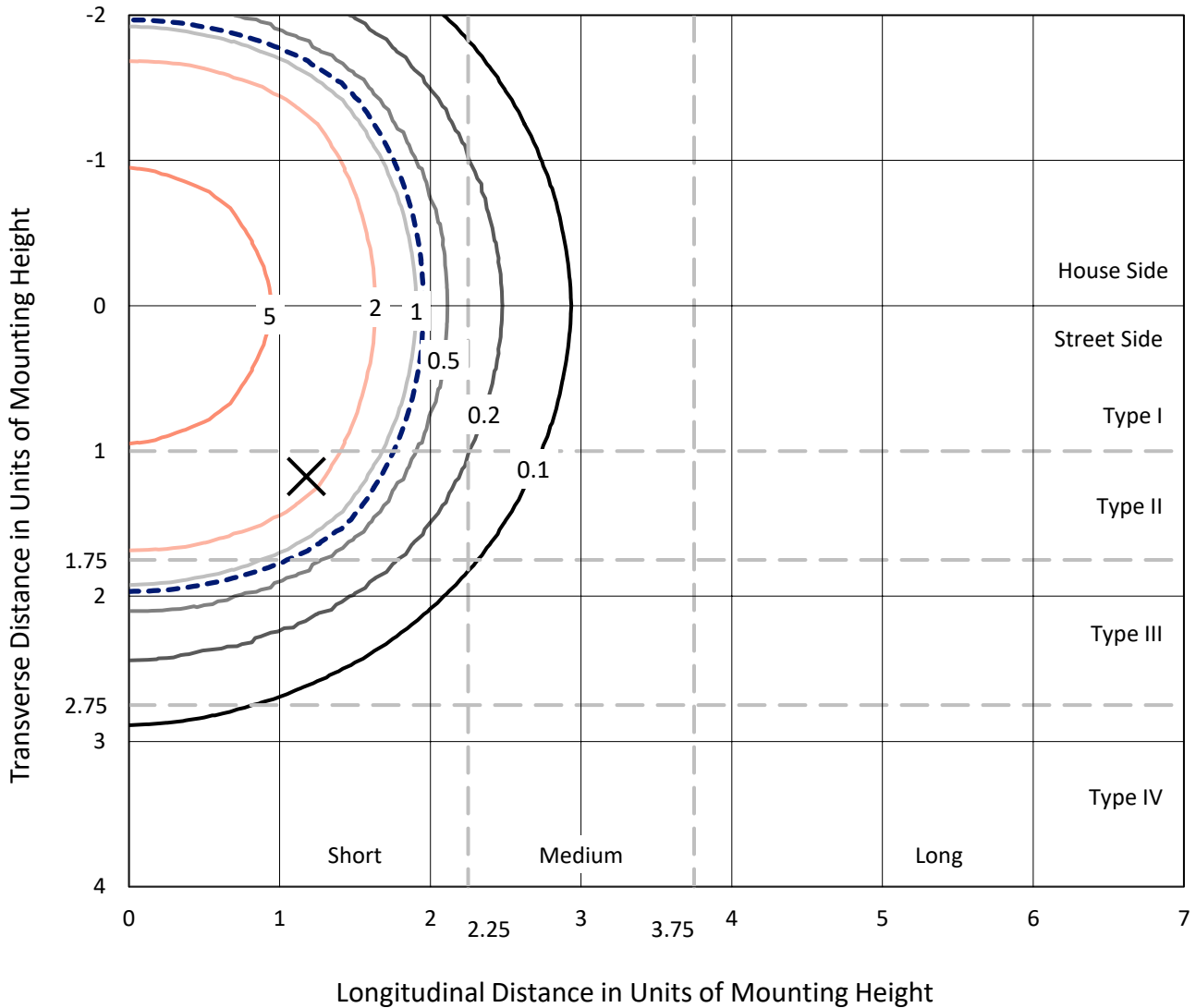
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

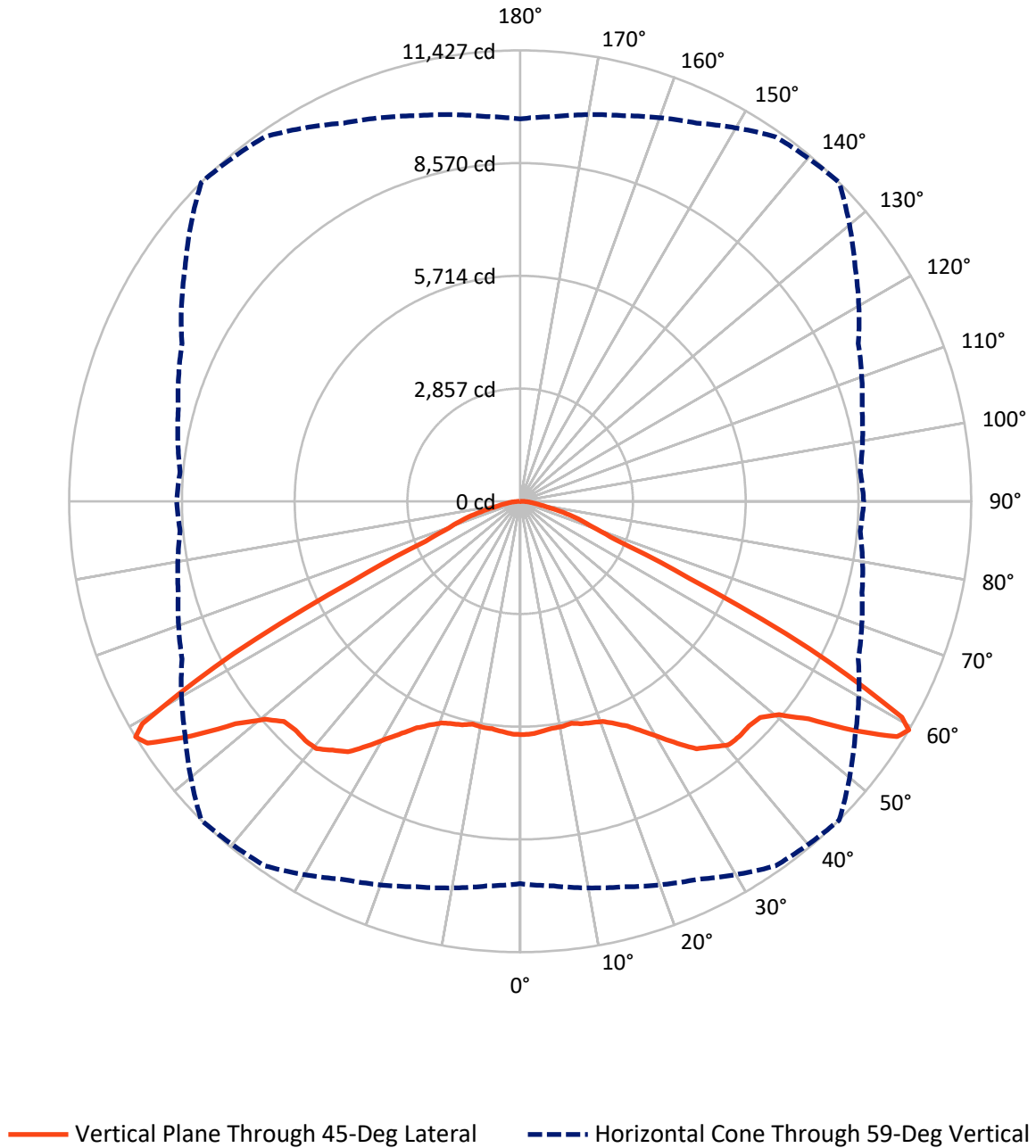
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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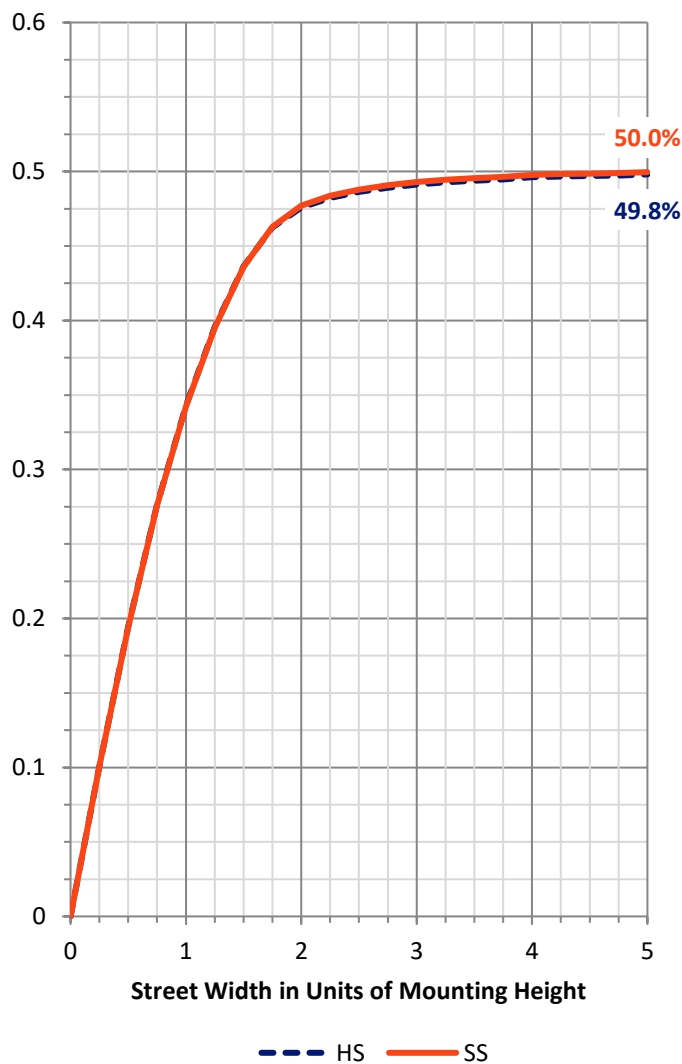
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15308.5	0.0	15308.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15308.5	0.0	15308.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30617.0	0.0	30617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.5	1.8
10°-20°	1657.8	5.4
20°-30°	2894.8	9.5
30°-40°	4623.4	15.1
40°-50°	6298.0	20.6
50°-60°	8516.5	27.8
60°-70°	4670.5	15.3
70°-80°	1194.8	3.9
80°-90°	203.8	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°	30617.0	100.0
0°-180°	30617.0	100.0

Coefficient of Utilization



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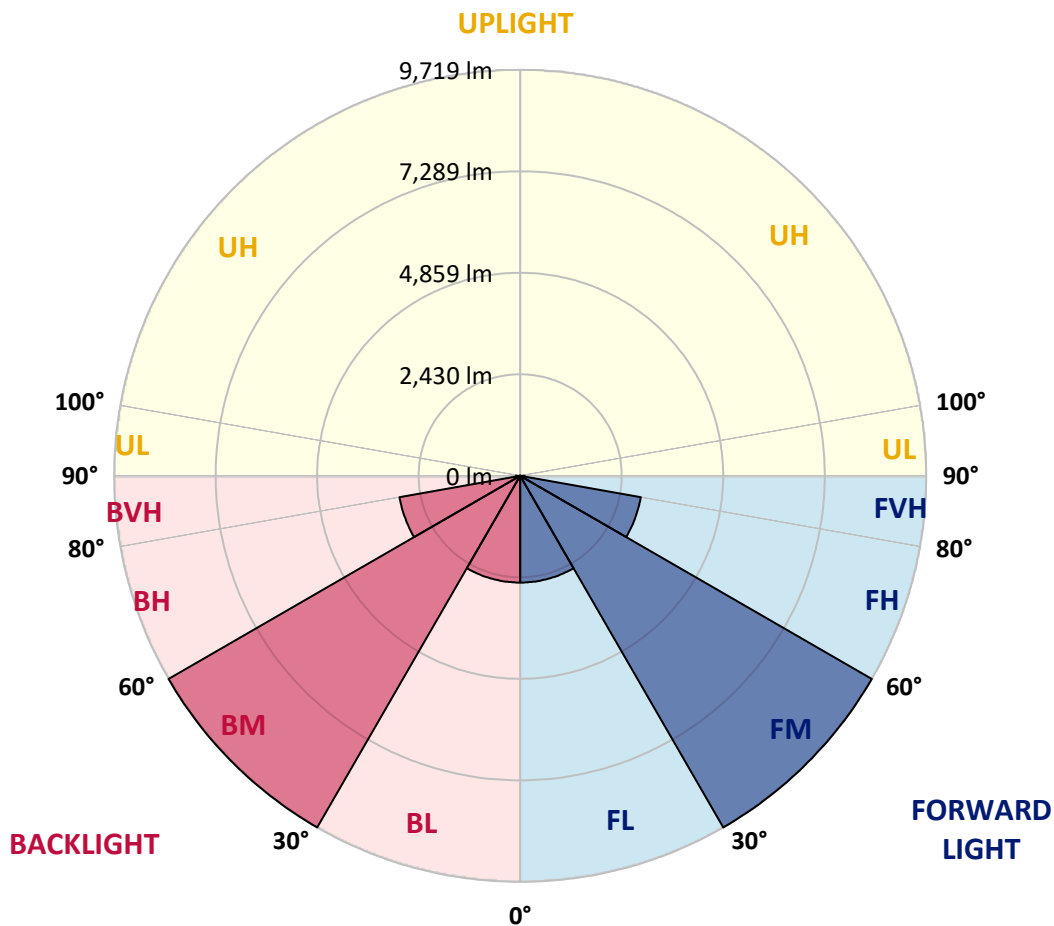
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.0	8.3			
FM (30°-60°)	9718.9	31.7			
FH (60°-80°)	2932.7	9.6			G2/5000
FVH (80°-90°)	101.9	0.3			G2/225
BL (0°-30°)	2555.0	8.3	B4/5000		
BM (30°-60°)	9718.9	31.7	B5		
BH (60°-80°)	2932.7	9.6	B4/5000		G2/5000
BVH (80°-90°)	101.9	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°	5913.7	5913.7	5913.7	5913.7	5913.7	5913.7	5913.7	5913.7	5913.7	5913.7	5913.7
2.5°	5878.4	5921.6	5890.2	5917.7	5913.7	5902.0	5882.3	5870.6	5854.9	5878.4	5839.2
5°	5854.9	5890.2	5925.5	5878.4	5878.4	5854.9	5843.1	5819.6	5819.6	5815.6	5811.7
7.5°	5894.1	5858.8	5843.1	5851.0	5858.8	5807.8	5843.1	5796.0	5756.8	5784.2	5815.6
10°	5858.8	5874.5	5815.6	5843.1	5799.9	5807.8	5784.2	5815.6	5772.5	5772.5	5772.5
12.5°	5894.1	5851.0	5870.6	5851.0	5839.2	5772.5	5803.9	5768.5	5764.6	5803.9	5768.5
15°	5964.8	5894.1	5878.4	5839.2	5851.0	5851.0	5819.6	5823.5	5780.3	5803.9	5811.7
17.5°	5941.2	5902.0	5890.2	5843.1	5882.3	5894.1	5835.3	5796.0	5823.5	5819.6	5815.6
20°	5960.8	5976.5	5964.8	5972.6	5988.3	5956.9	5902.0	5847.0	5811.7	5862.7	5858.8
22.5°	6086.4	6070.7	6062.9	6055.0	6082.5	6113.9	6039.3	5953.0	5953.0	5988.3	6004.0
25°	6188.4	6184.5	6180.6	6215.9	6310.1	6310.1	6215.9	6106.0	6078.6	6102.1	6082.5
27.5°	6337.6	6380.7	6365.0	6427.8	6565.2	6596.5	6471.0	6341.5	6266.9	6239.4	6274.8
30°	6679.0	6627.9	6639.7	6706.4	6828.1	6930.1	6737.8	6600.5	6498.4	6494.5	6510.2
32.5°	6906.6	6945.8	6981.1	7043.9	7236.2	7314.7	7083.1	6859.5	6796.7	6761.4	6773.1
35°	7361.8	7326.4	7318.6	7381.4	7573.7	7703.2	7412.8	7216.6	7134.2	7212.6	7212.6
37.5°	7793.4	7695.3	7620.8	7703.2	7879.8	7895.5	7648.2	7542.3	7499.1	7589.4	7585.4
40°	7997.5	7989.6	7817.0	7864.1	8099.5	8123.1	7891.5	7766.0	7758.1	7875.8	7993.6
42.5°	8209.4	8134.8	7962.2	7993.6	8138.8	8146.6	7926.8	7891.5	7977.9	8091.7	8099.5
45°	8244.7	8181.9	8072.0	7993.6	8099.5	8123.1	7993.6	8017.1	8024.9	8162.3	8162.3
47.5°	8315.3	8307.5	8244.7	8185.8	8205.5	8185.8	8103.4	8138.8	8256.5	8323.2	8291.8
50°	8511.5	8429.1	8491.9	8440.9	8444.8	8499.8	8425.2	8460.5	8437.0	8378.1	8338.9
52.5°	8943.2	8904.0	8958.9	8994.2	9033.5	9159.0	9072.7	8884.3	8707.8	8550.8	8546.9
55°	9575.0	9602.5	9708.4	9888.9	10042.0	10242.1	9826.1	9374.9	9092.3	8845.1	8860.8
57.5°	10171.5	10151.9	10297.0	10709.1	11156.4	11258.5	10442.2	9798.7	9339.5	9182.6	9115.9
59°	9692.7	9786.9	10116.5	10575.7	11278.1	11427.2	10359.8	9453.4	8966.8	8648.9	8703.8
60°	8939.3	8974.6	9268.9	9908.6	10858.2	11113.3	9806.5	8919.7	8272.2	8087.7	8170.1
62.5°	6317.9	6290.5	6502.4	7024.3	7875.8	8221.2	7291.1	6667.2	6259.1	6055.0	6102.1
65°	3359.1	3484.7	3571.0	3896.7	4348.0	4712.9	4328.4	4057.6	3830.0	3661.3	3657.3
67.5°	2268.2	2252.5	2272.1	2346.7	2499.7	2601.7	2593.9	2456.5	2436.9	2405.5	2440.8
70°	1911.1	1903.2	1867.9	1867.9	1899.3	1922.8	1950.3	1966.0	1997.4	2036.6	2032.7
72.5°	1550.1	1530.4	1506.9	1495.1	1534.4	1546.1	1581.4	1597.1	1624.6	1620.7	1656.0
75°	1024.2	1024.2	1051.7	1083.1	1094.8	1118.4	1122.3	1169.4	1169.4	1177.3	1145.9
77.5°	572.9	557.2	576.9	608.2	635.7	678.9	722.0	757.4	777.0	769.1	769.1
80°	333.6	333.6	353.2	388.5	423.8	463.1	494.4	521.9	541.5	533.7	518.0
82.5°	208.0	208.0	227.6	262.9	290.4	313.9	357.1	392.4	416.0	408.1	388.5
85°	106.0	106.0	129.5	153.0	188.4	204.1	200.1	184.4	180.5	160.9	160.9
87.5°	27.5	27.5	39.2	43.2	35.3	39.2	39.2	39.2	39.2	39.2	43.2
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)