

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: P533347

Luminaire Tested: **GALN-SA8D-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30354 lumens
Efficiency: N/A
Efficacy: 61.6 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

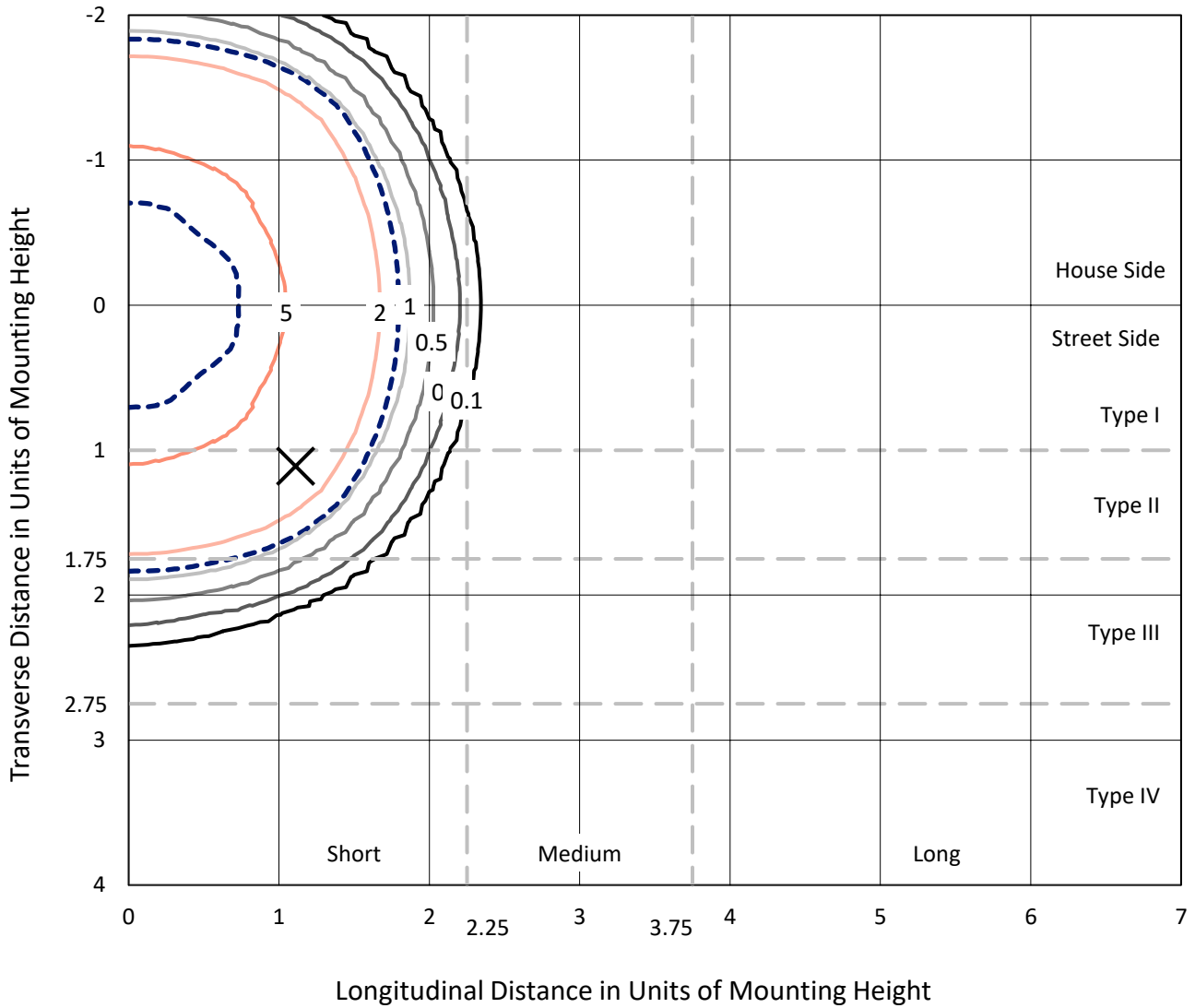
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

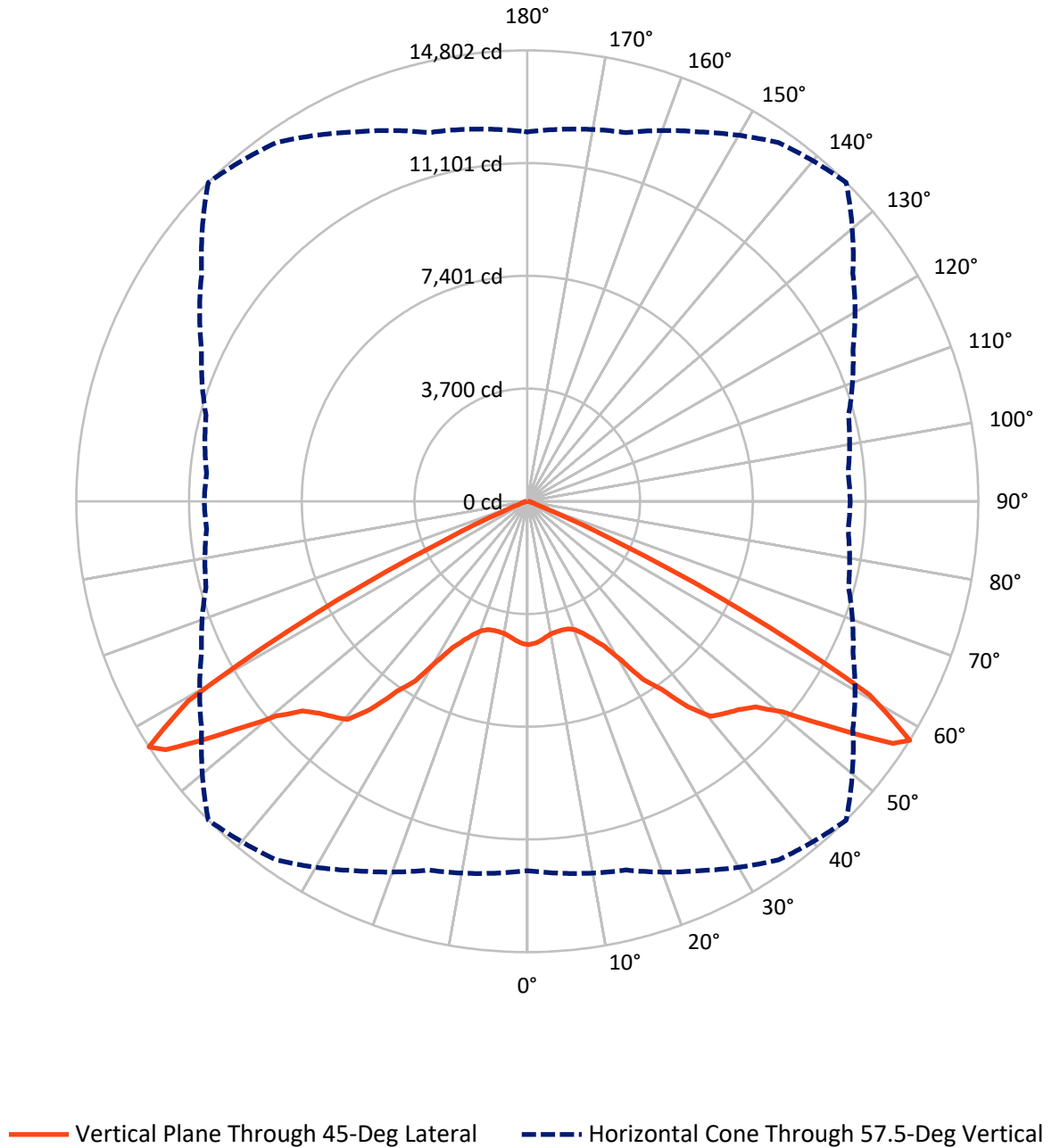
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	15177.0	0.0	15177.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15177.0	0.0	15177.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30354.0	0.0	30354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.7	1.4
10°-20°	1250.6	4.1
20°-30°	2308.4	7.6
30°-40°	4539.8	15.0
40°-50°	7394.1	24.4
50°-60°	10544.9	34.7
60°-70°	3650.9	12.0
70°-80°	195.9	0.6
80°-90°	36.8	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°	30354.0	100.0
0°-180°	30354.0	100.0

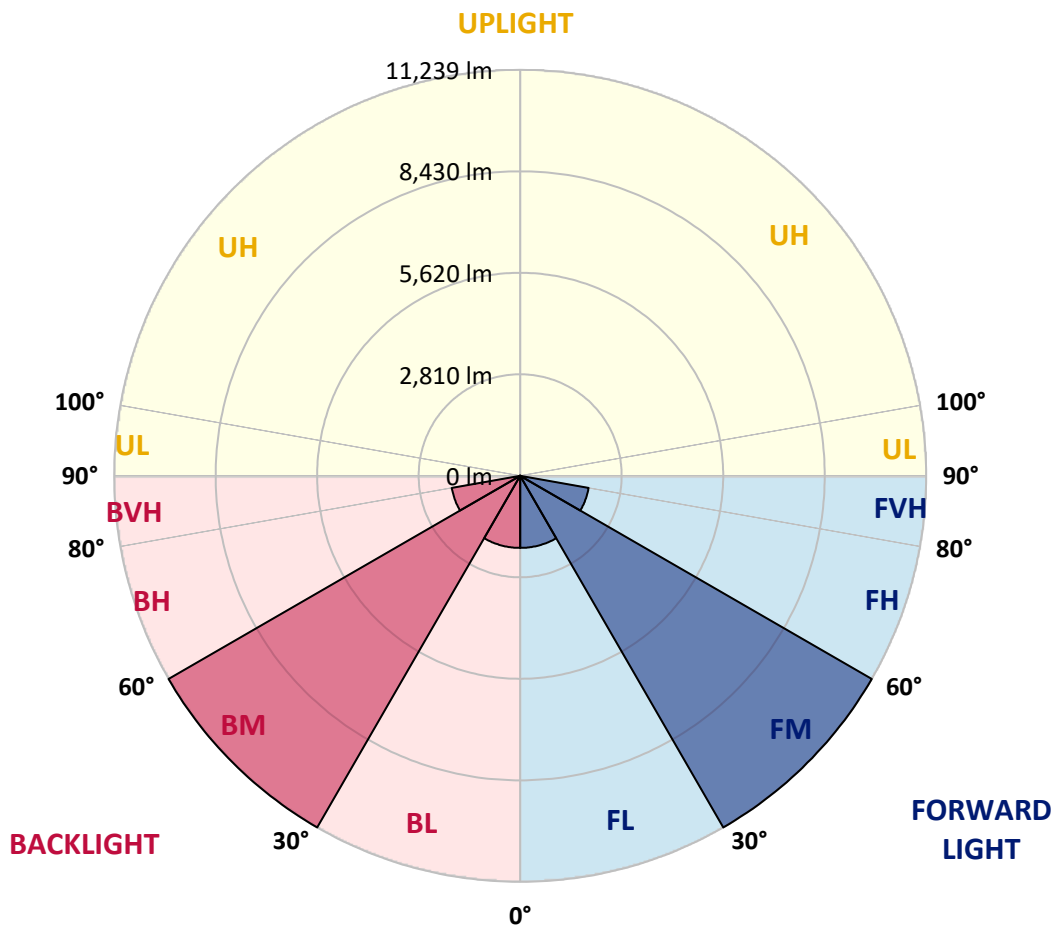


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.8	6.6			
FM (30°-60°)	11239.4	37.0			
FH (60°-80°)	1923.4	6.3			G2/5000
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	1995.8	6.6	B3/2500		
BM (30°-60°)	11239.4	37.0	B5		
BH (60°-80°)	1923.4	6.3	B3/2500		G2/5000
BVH (80°-90°)	18.4	0.1			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°	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2
2.5°	4695.6	4720.9	4689.2	4676.6	4670.3	4670.3	4651.3	4651.3	4644.9	4651.3	4626.0
5°	4619.6	4644.9	4644.9	4638.6	4600.6	4594.3	4575.3	4562.7	4569.0	4543.7	4562.7
7.5°	4543.7	4562.7	4537.4	4531.0	4518.4	4493.1	4486.7	4429.8	4436.1	4436.1	4448.8
10°	4531.0	4524.7	4486.7	4455.1	4417.1	4410.8	4391.8	4379.2	4379.2	4372.8	4391.8
12.5°	4531.0	4499.4	4493.1	4423.5	4360.2	4385.5	4334.9	4303.2	4347.5	4360.2	4385.5
15°	4524.7	4556.3	4448.8	4417.1	4372.8	4379.2	4334.9	4303.2	4328.5	4341.2	4360.2
17.5°	4562.7	4543.7	4512.0	4448.8	4429.8	4404.5	4347.5	4322.2	4322.2	4353.8	4360.2
20°	4663.9	4613.3	4550.0	4518.4	4537.4	4505.7	4436.1	4341.2	4366.5	4391.8	4410.8
22.5°	4758.8	4720.9	4676.6	4657.6	4765.2	4714.6	4594.3	4486.7	4448.8	4493.1	4524.7
25°	4942.4	4942.4	4860.1	4885.4	5005.7	5012.0	4872.8	4682.9	4657.6	4676.6	4689.2
27.5°	5315.7	5334.7	5265.1	5290.4	5341.0	5385.3	5265.1	5106.9	5049.9	5043.6	5062.6
30°	5720.7	5758.7	5752.4	5860.0	6005.5	6030.8	5853.6	5594.2	5423.3	5391.7	5417.0
32.5°	6252.3	6271.3	6258.6	6385.2	6777.6	6961.1	6499.1	6132.1	5904.3	5961.2	5904.3
35°	7252.2	7233.2	7094.0	7119.3	7442.0	7574.9	7131.9	6897.8	6790.2	6904.1	6878.8
37.5°	8112.8	8043.2	7929.3	8093.8	8429.2	8549.5	8087.5	7676.2	7480.0	7669.8	7752.1
40°	8840.6	8663.4	8505.2	8669.7	9119.0	9283.6	8606.4	8271.0	8195.1	8334.3	8511.5
42.5°	9454.4	9340.5	9131.7	9144.3	9441.8	9517.7	8973.5	8777.3	8701.4	8922.8	9011.4
45°	9891.1	9783.5	9587.3	9574.7	9802.5	9751.8	9264.6	9131.7	9176.0	9321.5	9365.8
47.5°	10112.6	10169.5	10055.6	10087.2	10207.5	10087.2	9701.2	9701.2	9600.0	9688.6	9644.3
50°	10751.7	10574.5	10720.1	10720.1	10846.6	10859.3	10473.3	10334.0	10061.9	9910.1	9910.1
52.5°	11498.4	11511.1	11568.1	11776.9	11992.0	12175.6	11625.0	11030.2	10574.5	10378.3	10353.0
55°	12112.3	12238.8	12466.7	12859.0	13479.2	13732.3	12783.1	11719.9	11163.0	10859.3	10796.0
56°	12447.7	12327.4	12719.8	13257.7	14067.7	14396.8	12972.9	11859.2	11245.3	10903.6	10897.3
57.5°	12124.9	12257.8	12529.9	13377.9	14371.5	14801.8	13042.5	11795.9	10916.2	10568.2	10599.8
60°	9574.7	9701.2	10068.3	11017.5	12574.2	12909.6	11036.5	9726.5	8941.8	8441.9	8448.2
62.5°	5417.0	5511.9	5796.7	6676.3	7644.5	7967.3	6878.8	6005.5	5461.3	5182.8	5094.2
65°	1993.4	1955.4	1999.7	2449.0	3043.9	3316.0	2860.4	2417.4	2132.6	2031.4	1993.4
67.5°	746.7	689.8	645.5	689.8	867.0	917.6	841.7	702.4	658.1	677.1	689.8
70°	462.0	436.6	348.1	329.1	322.7	316.4	335.4	354.4	405.0	474.6	487.3
72.5°	322.7	303.8	246.8	234.1	221.5	215.2	246.8	272.1	316.4	367.0	373.4
75°	126.6	132.9	126.6	139.2	145.5	151.9	177.2	196.2	215.2	215.2	208.8
77.5°	25.3	25.3	38.0	50.6	63.3	82.3	120.2	139.2	145.5	139.2	120.2
80°	0.0	0.0	12.7	25.3	50.6	69.6	107.6	120.2	132.9	120.2	94.9
82.5°	0.0	0.0	12.7	31.6	50.6	63.3	101.3	126.6	145.5	132.9	101.3
85°	0.0	0.0	12.7	25.3	38.0	44.3	44.3	31.6	31.6	19.0	12.7
87.5°	0.0	0.0	0.0	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)