

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: P531473

Luminaire Tested: **GALN-SA6D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531473
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-SA6D-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 29356 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

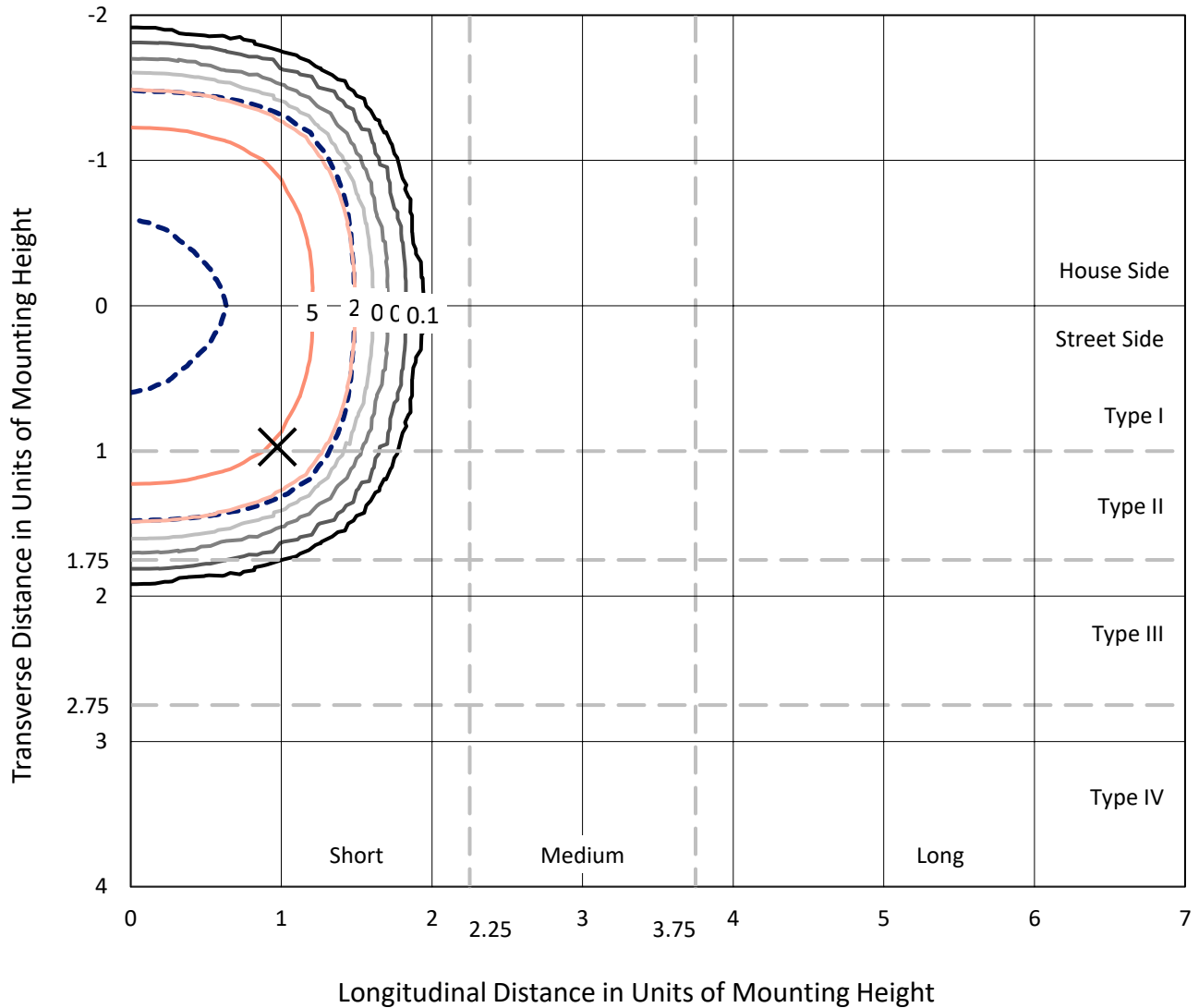
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

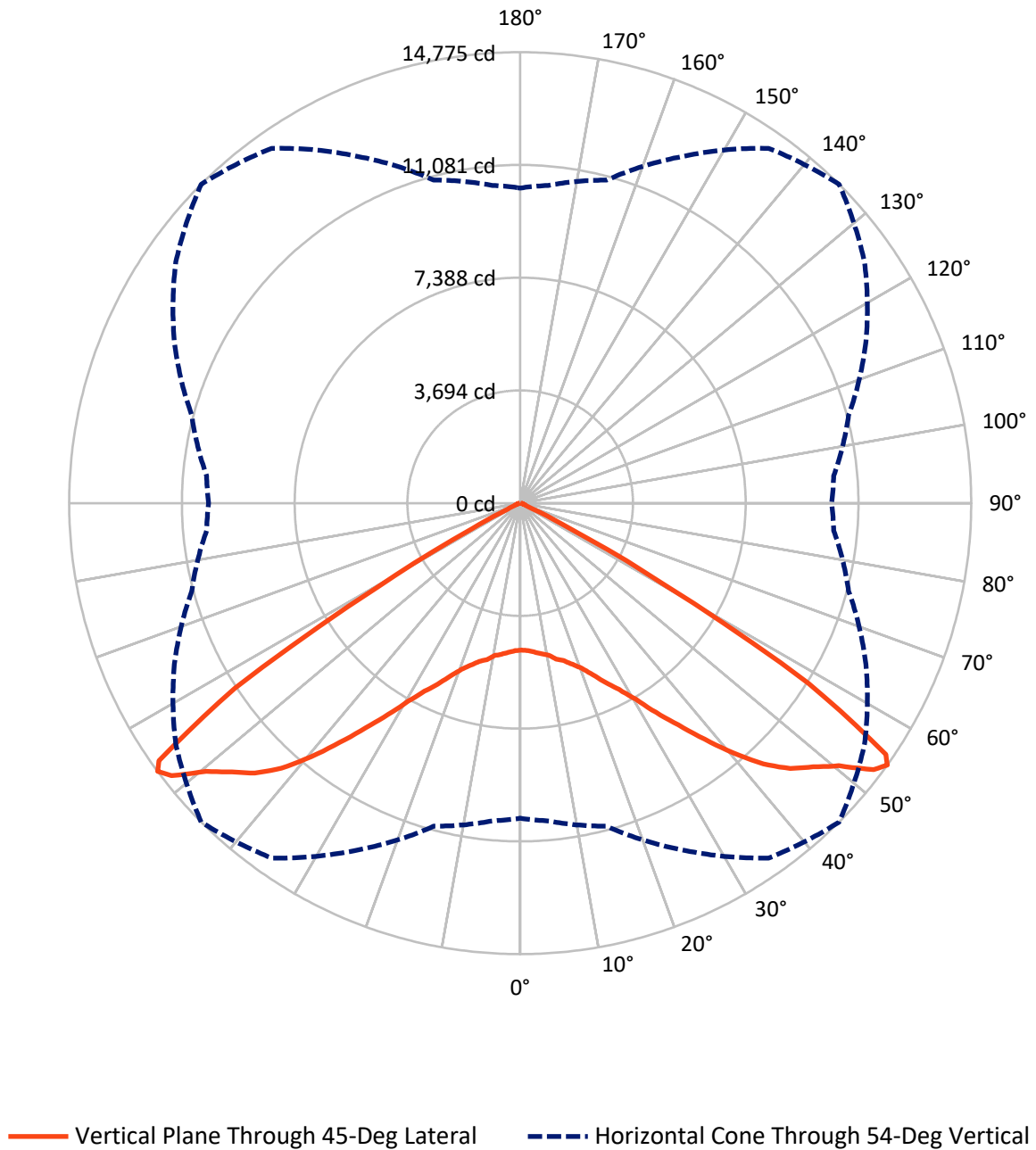
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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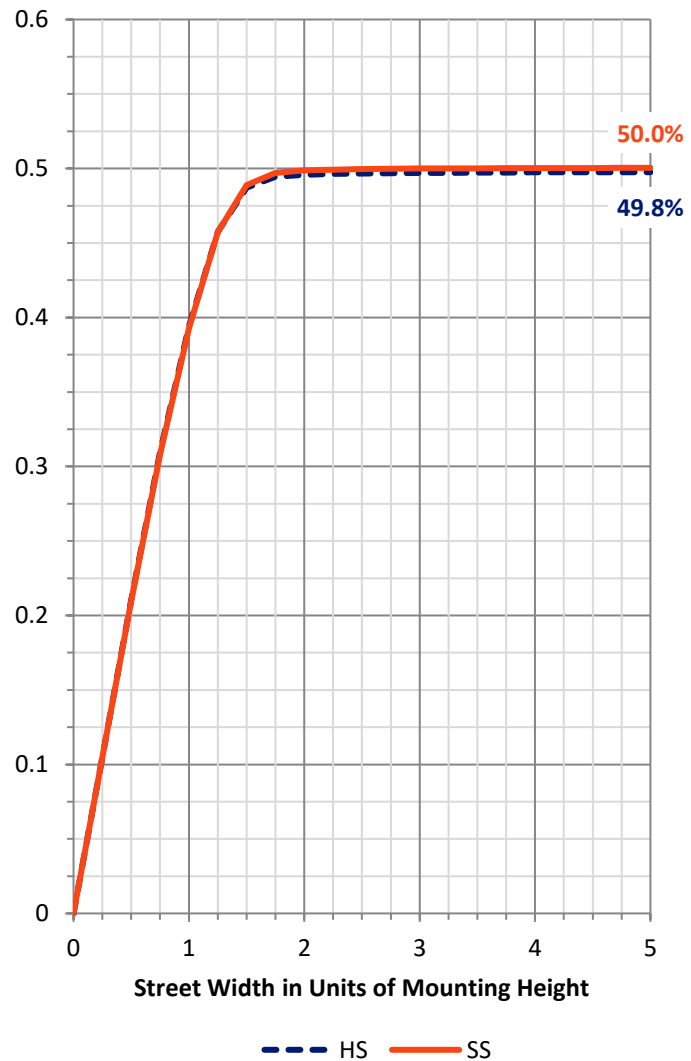
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14678.0	0.0	14678.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14678.0	0.0	14678.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29356.0	0.0	29356.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.6
10°-20°	1525.7	5.2
20°-30°	2990.2	10.2
30°-40°	5377.1	18.3
40°-50°	9204.5	31.4
50°-60°	8906.2	30.3
60°-70°	762.4	2.6
70°-80°	90.4	0.3
80°-90°	28.4	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°	29356.0	100.0
0°-180°	29356.0	100.0

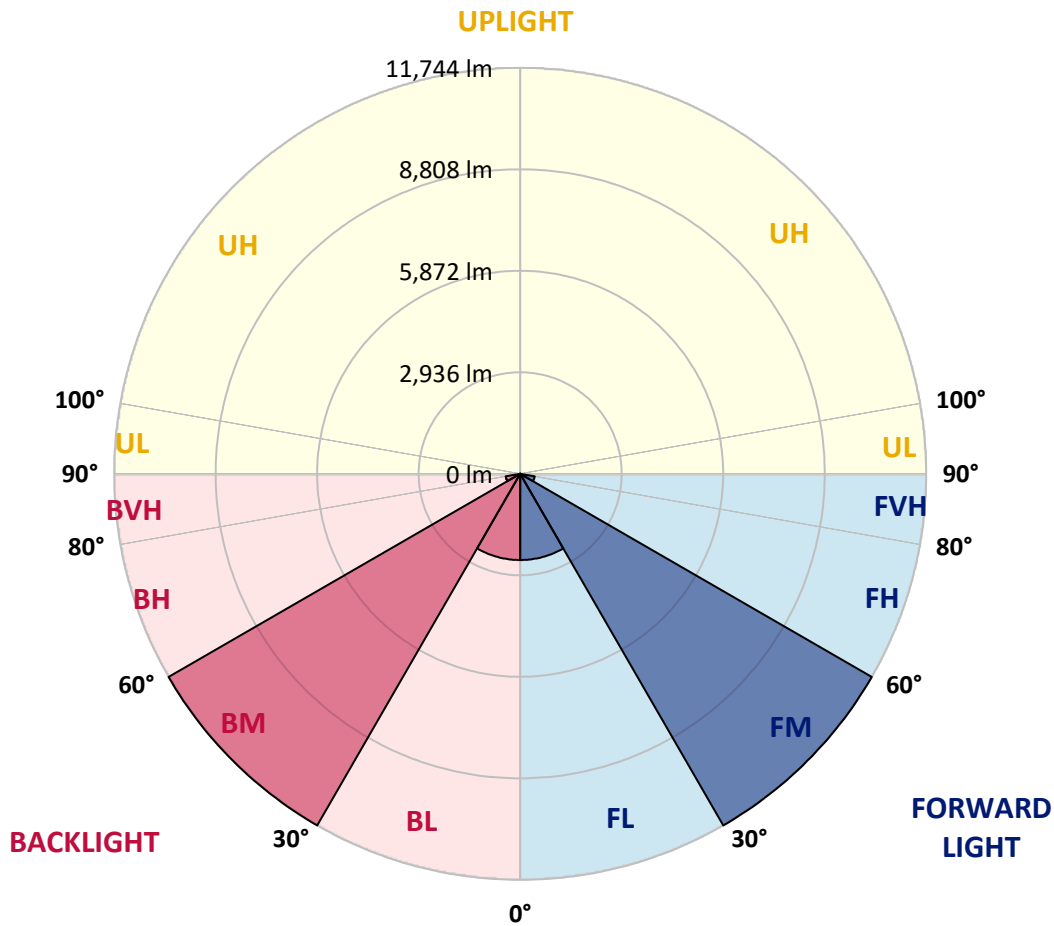


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.5	8.5			
FM (30°-60°)	11743.9	40.0			
FH (60°-80°)	426.4	1.5			G0/660
FVH (80°-90°)	14.2	0.0			G1/100
BL (0°-30°)	2493.5	8.5	B3/2500		
BM (30°-60°)	11743.9	40.0	B5		
BH (60°-80°)	426.4	1.5	B1/500		G0/660
BVH (80°-90°)	14.2	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°	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5
2.5°	4836.7	4864.6	4846.0	4860.0	4860.0	4836.7	4850.7	4794.9	4832.1	4804.2	4808.8
5°	4911.1	4906.5	4906.5	4911.1	4892.5	4901.8	4883.2	4864.6	4850.7	4832.1	4887.9
7.5°	5004.1	5004.1	4971.6	4980.9	4971.6	4985.5	4948.3	4911.1	4897.2	4883.2	4873.9
10°	5092.5	5083.2	5069.3	5111.1	5078.6	5060.0	5041.4	5018.1	4966.9	4948.3	4929.7
12.5°	5222.7	5218.1	5199.5	5241.3	5222.7	5241.3	5171.6	5111.1	5101.8	5041.4	5073.9
15°	5376.2	5418.1	5385.5	5385.5	5376.2	5353.0	5325.0	5297.1	5213.4	5190.2	5194.8
17.5°	5576.2	5562.2	5566.9	5566.9	5613.4	5552.9	5497.1	5427.4	5385.5	5371.6	5325.0
20°	5766.9	5785.5	5780.8	5813.4	5841.3	5776.2	5715.7	5706.4	5590.1	5608.7	5543.6
22.5°	6101.7	6087.8	6111.0	6134.3	6115.7	6106.4	6050.6	5980.8	5878.5	5832.0	5822.7
25°	6455.2	6431.9	6390.1	6445.9	6473.8	6515.6	6408.7	6371.5	6213.3	6143.6	6148.2
27.5°	6757.5	6790.0	6836.5	6859.8	6929.5	6915.6	6841.2	6720.3	6599.3	6520.3	6469.1
30°	7171.4	7190.0	7269.0	7301.6	7422.5	7455.1	7338.8	7199.3	6985.3	6883.0	6822.6
32.5°	7552.7	7682.9	7678.3	7841.1	8036.4	8171.3	7962.0	7748.1	7534.1	7413.2	7306.2
35°	8171.3	8148.0	8282.9	8455.0	8771.2	8924.7	8696.8	8450.3	8124.8	7929.4	7845.7
37.5°	8748.0	8757.3	8938.6	9213.0	9575.8	9813.0	9613.0	9208.4	8873.5	8622.4	8506.1
40°	9585.1	9603.7	9789.7	10101.3	10510.6	10766.4	10533.8	10124.6	9678.1	9482.8	9482.8
42.5°	10566.4	10645.4	10766.4	11036.1	11403.5	11687.2	11477.9	11157.0	10705.9	10454.8	10492.0
45°	11575.6	11612.8	11691.8	12091.8	12263.9	12403.4	12208.1	12059.3	11757.0	11450.0	11398.9
47.5°	12519.7	12533.6	12766.2	12891.7	13026.6	12910.3	13035.9	12840.6	12501.1	12203.4	12143.0
50°	12938.2	12915.0	13245.2	13626.5	13728.9	13524.2	13417.3	13287.0	12770.8	12412.7	12254.6
52.5°	11719.8	11854.6	12468.5	13528.9	14328.8	14500.9	13877.7	13277.7	12315.0	11617.4	11510.5
54°	10324.5	10450.1	10957.0	12529.0	14193.9	14775.3	13770.7	12496.4	11138.4	10310.6	10203.6
55°	8943.3	8803.8	9724.6	11329.1	13561.4	14533.4	13347.5	11487.2	9933.9	9175.8	9027.0
57.5°	4841.4	4864.6	5641.3	7157.4	9529.3	11143.1	9840.9	7771.3	5869.2	5018.1	4943.7
60°	1534.7	1571.9	1911.4	2892.7	4553.0	5436.7	4660.0	3120.6	2157.9	1730.1	1660.3
62.5°	479.0	497.6	544.1	809.2	1246.4	1781.2	1395.2	837.1	623.2	572.0	581.3
65°	293.0	293.0	297.6	316.2	372.1	432.5	418.6	367.4	353.5	344.2	339.5
67.5°	190.7	186.0	195.3	209.3	218.6	223.2	237.2	251.1	246.5	237.2	237.2
70°	116.3	111.6	120.9	139.5	144.2	153.5	167.4	186.0	181.4	172.1	176.7
72.5°	65.1	65.1	69.8	83.7	97.7	107.0	120.9	134.9	139.5	134.9	134.9
75°	23.3	27.9	37.2	51.2	60.5	74.4	88.4	102.3	116.3	107.0	102.3
77.5°	9.3	9.3	18.6	32.6	46.5	60.5	83.7	97.7	107.0	97.7	88.4
80°	4.7	4.7	14.0	27.9	41.9	55.8	69.8	83.7	88.4	79.1	69.8
82.5°	4.7	4.7	14.0	27.9	41.9	51.2	74.4	83.7	93.0	83.7	69.8
85°	0.0	4.7	14.0	27.9	37.2	41.9	41.9	27.9	23.3	14.0	14.0
87.5°	0.0	0.0	4.7	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)