

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: P529628

Luminaire Tested: **GALN-SA4D-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27565 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

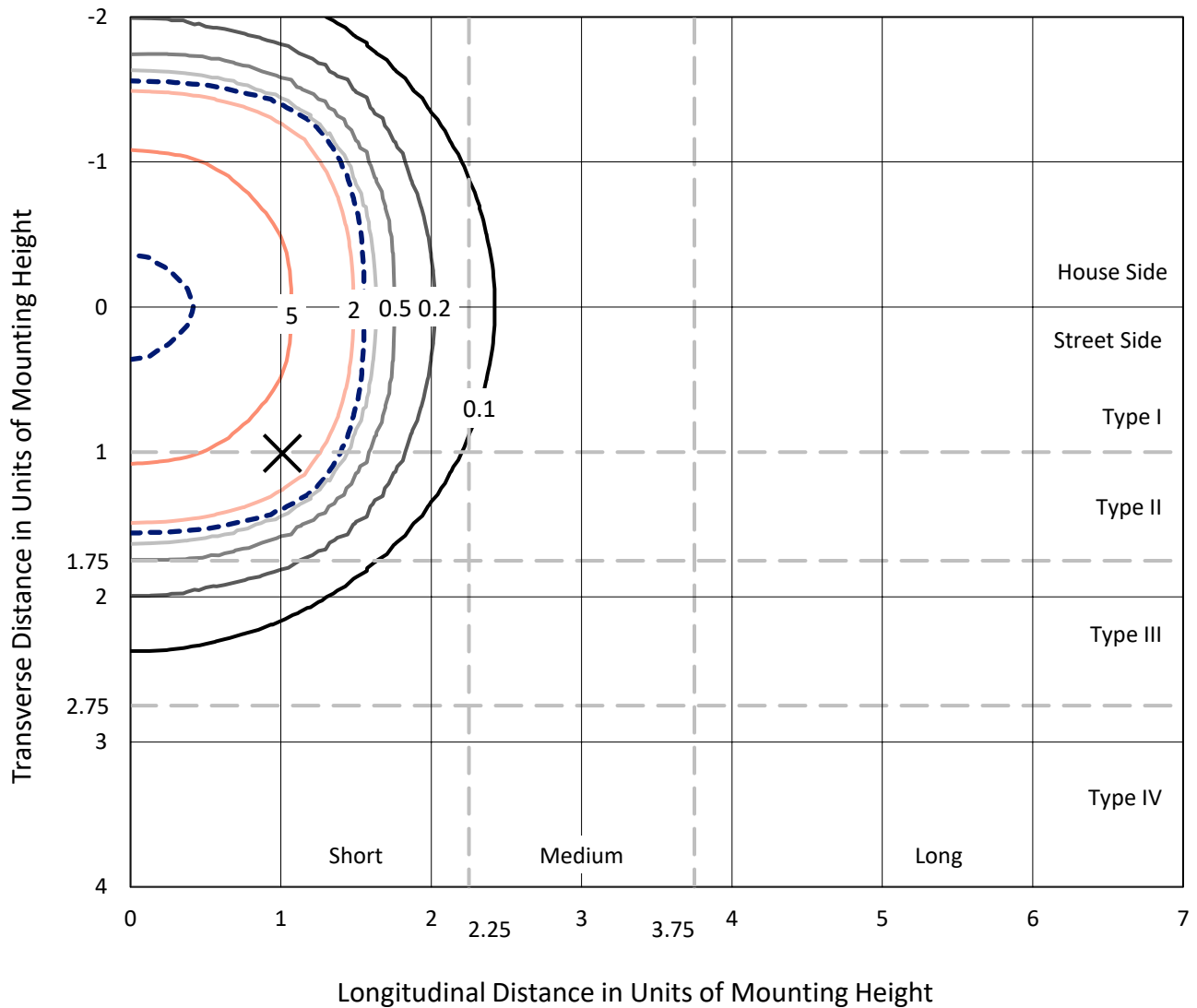
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

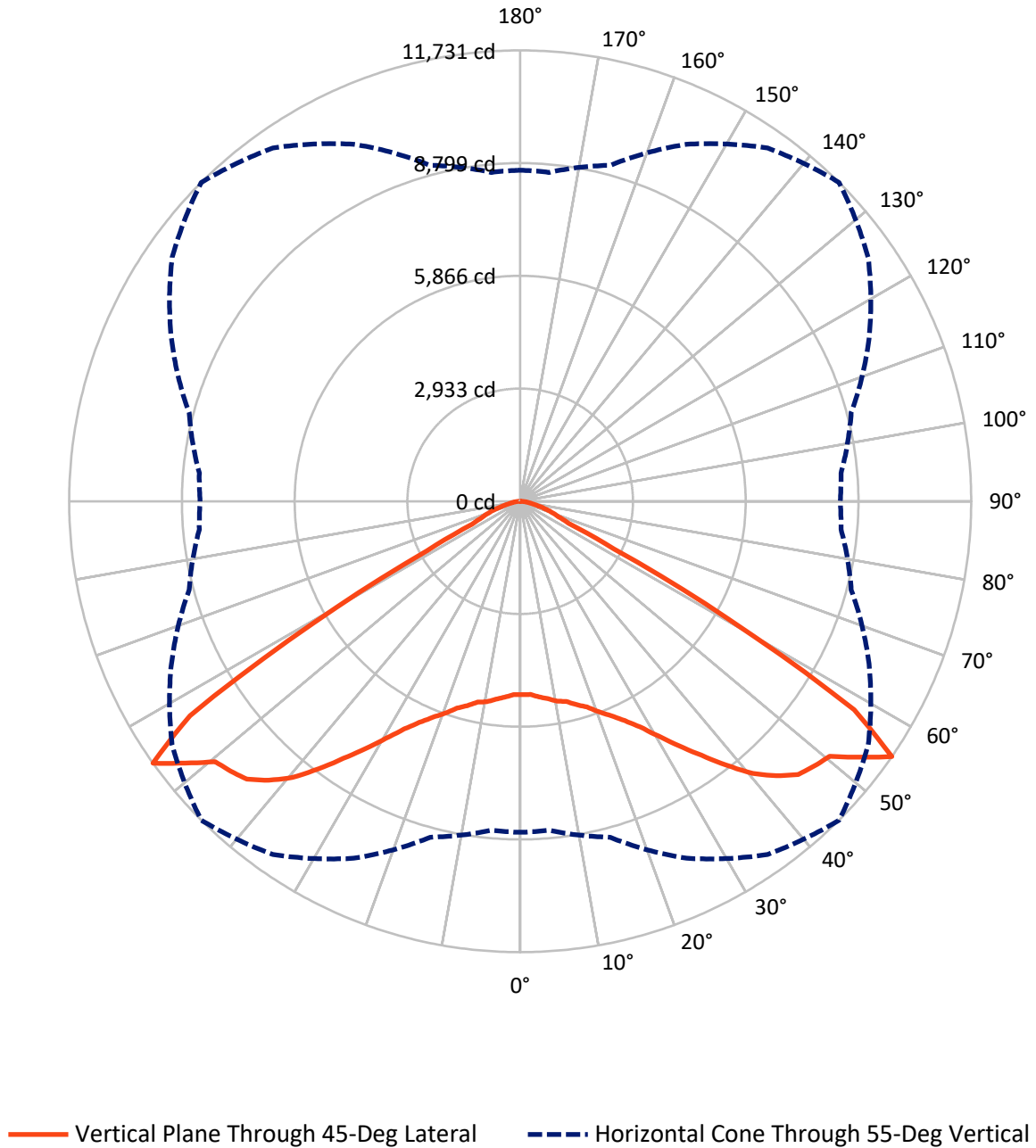
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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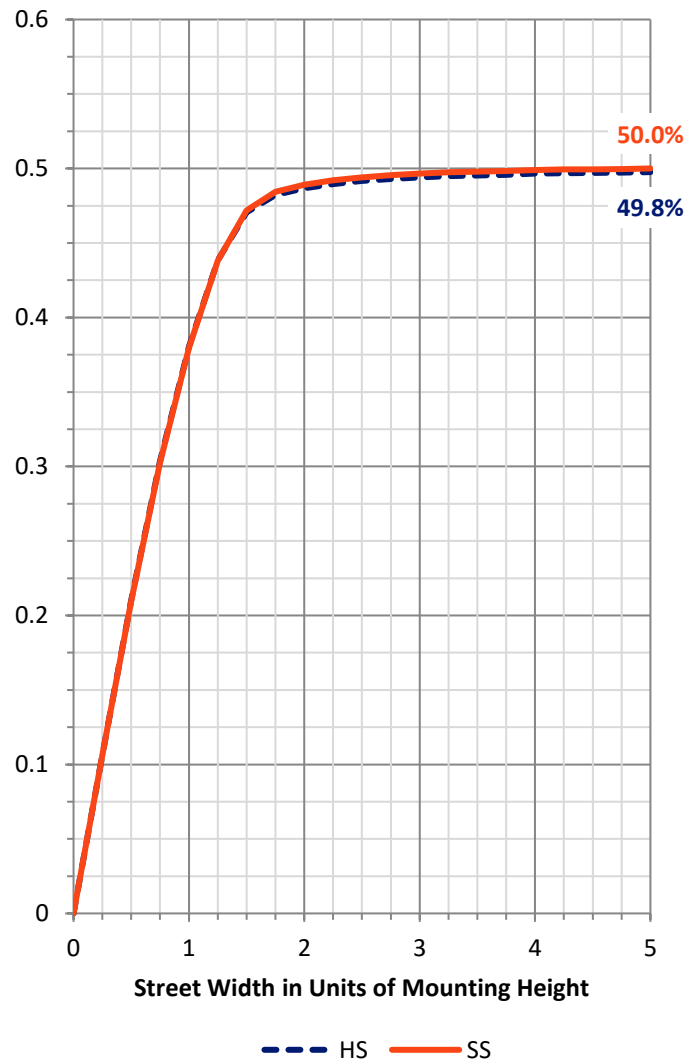
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13782.5	0.0	13782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13782.5	0.0	13782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27565.0	0.0	27565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	1.8
10°-20°	1557.9	5.7
20°-30°	2904.9	10.5
30°-40°	4863.8	17.6
40°-50°	7568.4	27.5
50°-60°	7858.4	28.5
60°-70°	1666.5	6.0
70°-80°	548.8	2.0
80°-90°	104.5	0.4
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°	27565.0	100.0
0°-180°	27565.0	100.0

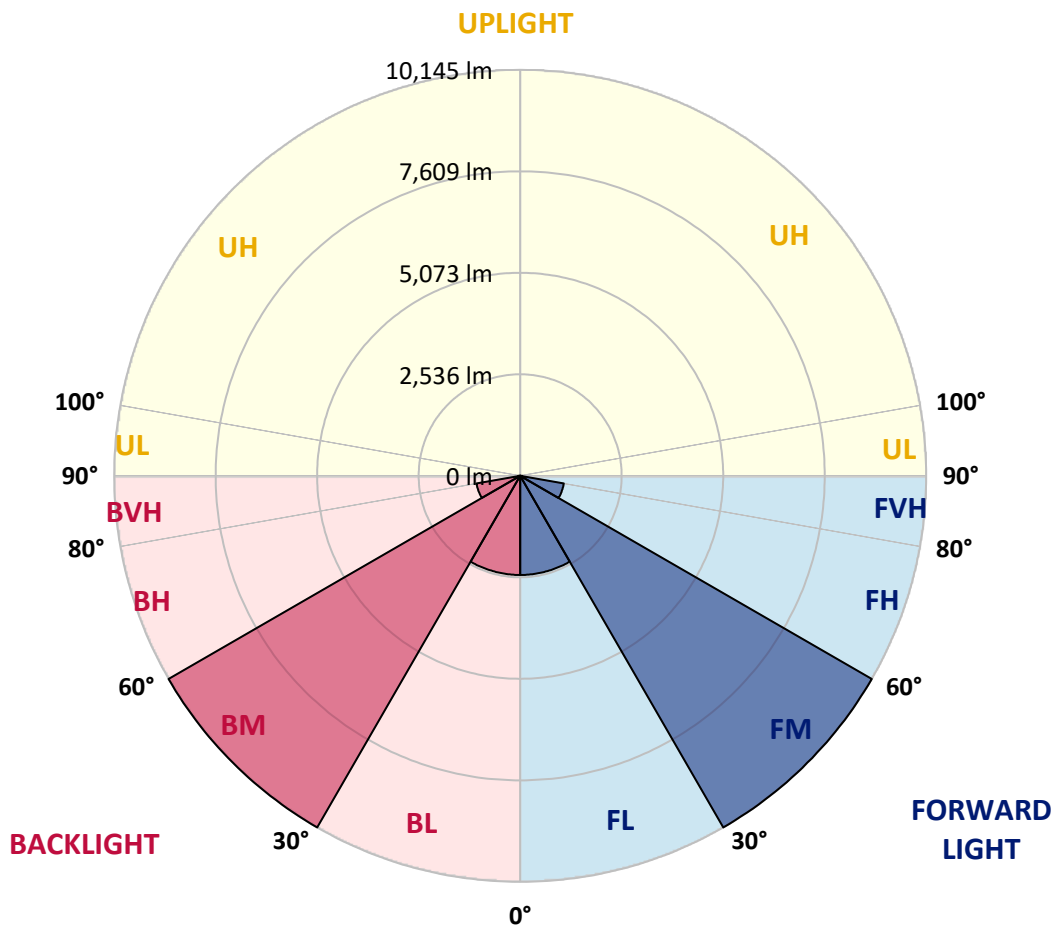


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2477.2	9.0			
FM (30°-60°)	10145.3	36.8			
FH (60°-80°)	1107.7	4.0			G1/1800
FVH (80°-90°)	52.3	0.2			G1/100
BL (0°-30°)	2477.2	9.0	B3/2500		
BM (30°-60°)	10145.3	36.8	B5		
BH (60°-80°)	1107.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	52.3	0.2			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°	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0
2.5°	5092.9	5069.6	5029.6	5059.6	5082.9	5033.0	5052.9	5062.9	5056.3	5029.6	5039.6
5°	5166.2	5152.9	5119.6	5142.9	5112.9	5112.9	5092.9	5066.3	5106.2	5099.6	5116.2
7.5°	5166.2	5149.5	5216.2	5172.9	5186.2	5186.2	5152.9	5126.2	5146.2	5116.2	5099.6
10°	5269.5	5292.8	5262.8	5272.8	5266.1	5289.4	5239.5	5222.8	5206.2	5196.2	5176.2
12.5°	5392.7	5376.0	5386.0	5379.4	5402.7	5342.7	5312.8	5276.1	5306.1	5262.8	5292.8
15°	5492.6	5482.6	5492.6	5519.3	5496.0	5492.6	5439.3	5402.7	5356.1	5366.0	5319.4
17.5°	5629.2	5619.2	5622.5	5645.8	5642.5	5625.9	5585.9	5515.9	5499.3	5472.6	5442.7
20°	5832.4	5815.7	5809.1	5819.0	5835.7	5849.0	5769.1	5742.4	5685.8	5642.5	5592.5
22.5°	6005.6	5998.9	6025.6	5982.3	6018.9	6058.9	5982.3	5968.9	5829.0	5805.7	5752.4
25°	6245.4	6235.4	6218.8	6282.0	6325.3	6322.0	6248.7	6175.4	6068.9	6042.2	6042.2
27.5°	6498.5	6441.9	6528.5	6545.2	6621.8	6645.1	6581.8	6475.2	6375.3	6318.7	6332.0
30°	6815.0	6761.7	6781.7	6901.6	7001.5	7088.1	6928.2	6771.7	6631.8	6531.9	6515.2
32.5°	7131.4	7078.1	7138.1	7254.7	7454.5	7584.4	7427.9	7154.7	6991.5	6845.0	6874.9
35°	7387.9	7427.9	7524.5	7701.0	7907.5	8117.4	7867.5	7657.7	7424.5	7261.3	7284.6
37.5°	7800.9	7924.2	8000.8	8204.0	8497.1	8713.6	8453.8	8180.6	7930.8	7717.6	7644.4
40°	8340.5	8423.8	8510.4	8750.2	9096.6	9313.1	9066.7	8710.2	8463.8	8243.9	8233.9
42.5°	8933.4	9013.4	9103.3	9396.4	9602.9	9766.1	9539.6	9349.8	9076.6	8903.4	8893.4
45°	9622.9	9566.3	9666.2	9859.4	10032.6	10139.2	9992.6	9899.4	9702.8	9543.0	9526.3
47.5°	10082.6	10032.6	10212.5	10385.7	10412.3	10295.7	10325.7	10412.3	10205.8	9942.7	10025.9
50°	10349.0	10349.0	10469.0	10628.8	10578.9	10429.0	10665.5	10672.1	10465.6	10232.5	10232.5
52.5°	9886.0	9989.3	10329.1	10852.0	11018.5	11061.8	11008.6	10782.1	10242.5	9766.1	9742.8
55°	8613.7	8590.3	9050.0	10249.1	11218.4	11731.4	11051.9	10009.3	8913.4	8377.2	8323.9
57.5°	5602.5	5629.2	6315.3	7537.8	9286.5	10242.5	9096.6	7631.0	6315.3	5575.9	5645.8
60°	2521.5	2611.4	3027.8	3940.4	5442.7	6222.1	5456.0	4140.3	3177.7	2758.0	2794.6
62.5°	1448.9	1465.6	1482.2	1758.7	2318.3	2741.3	2408.2	1858.6	1638.8	1565.5	1565.5
65°	1222.4	1212.4	1215.8	1239.1	1299.0	1385.6	1349.0	1299.0	1305.7	1299.0	1289.1
67.5°	1039.2	1052.6	1042.6	1059.2	1062.6	1075.9	1099.2	1119.2	1122.5	1129.2	1122.5
70°	852.7	856.0	862.7	876.0	879.4	889.3	922.7	939.3	949.3	949.3	962.6
72.5°	652.9	649.5	656.2	669.5	686.2	689.5	719.5	742.8	756.1	739.5	742.8
75°	429.7	433.0	443.0	453.0	476.3	499.6	509.6	532.9	536.3	542.9	526.3
77.5°	256.5	263.1	273.1	293.1	313.1	333.1	356.4	373.1	379.7	373.1	353.1
80°	166.5	166.5	179.9	196.5	219.8	236.5	249.8	263.1	273.1	263.1	256.5
82.5°	103.3	103.3	119.9	139.9	156.6	166.5	186.5	203.2	213.2	206.5	196.5
85°	53.3	56.6	69.9	86.6	99.9	106.6	103.3	93.3	83.3	79.9	73.3
87.5°	16.7	16.7	20.0	20.0	16.7	16.7	20.0	16.7	20.0	20.0	20.0
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)