

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: P529602

Luminaire Tested: **GALN-SA4D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529602
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-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 25677 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

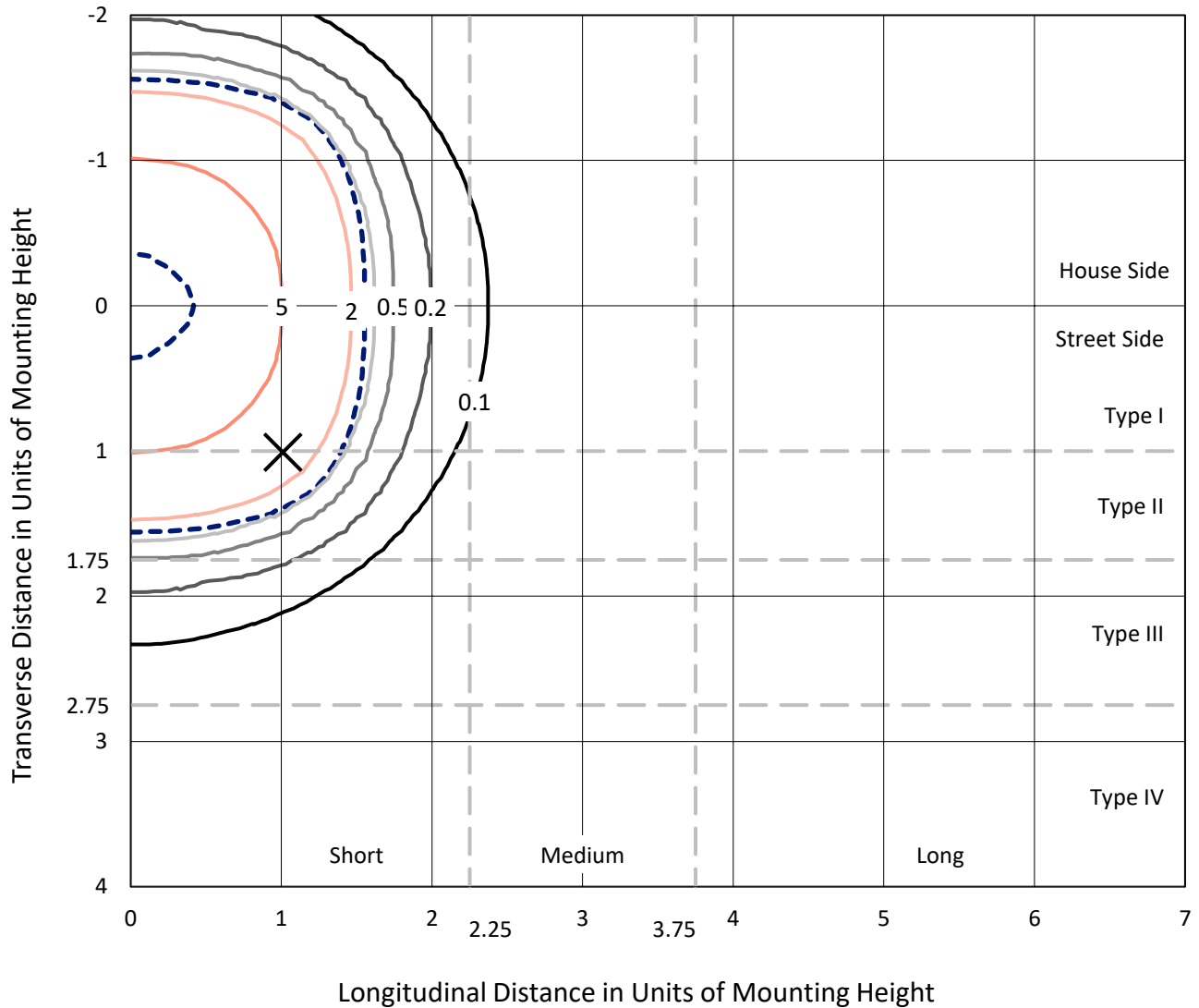
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

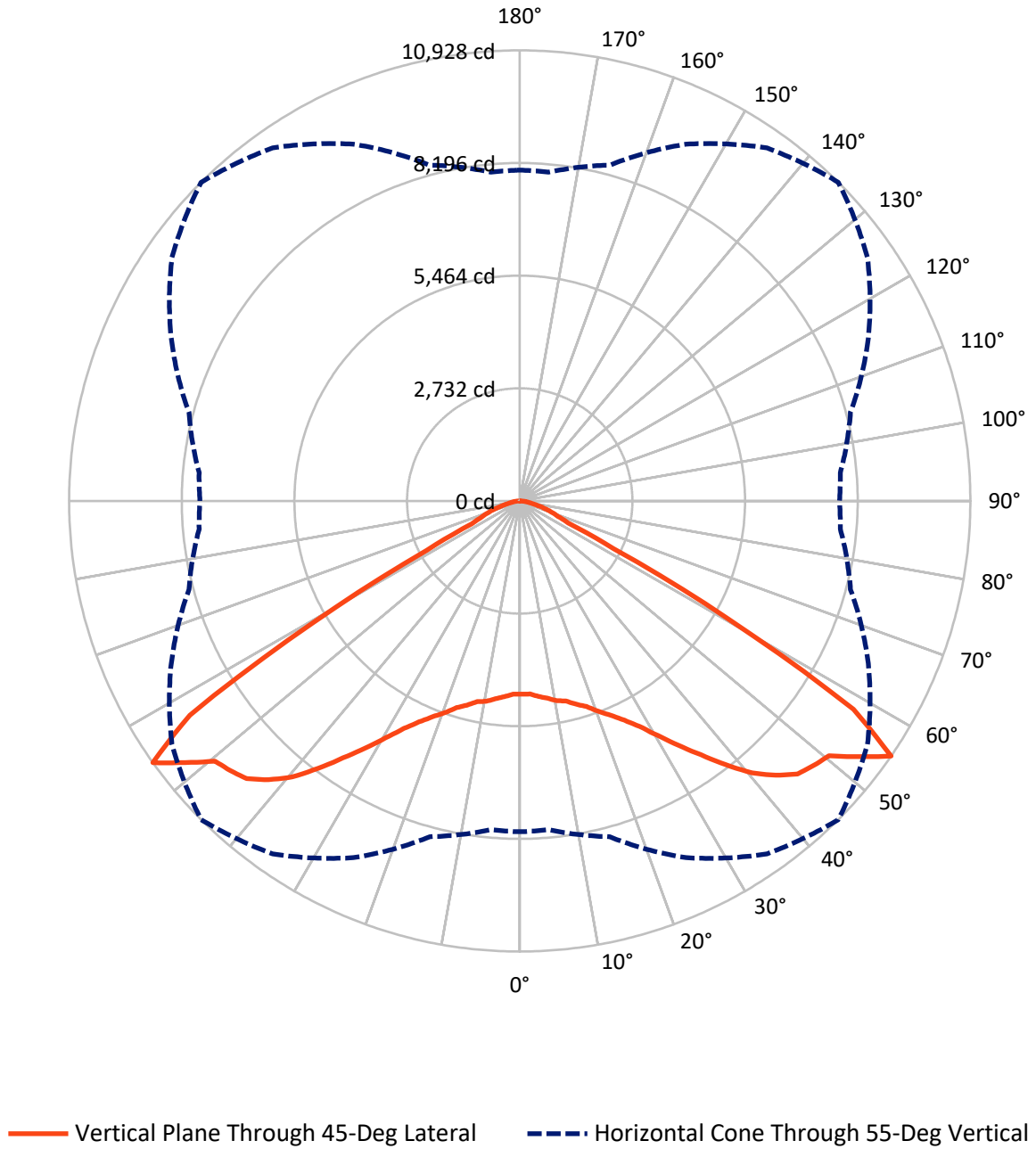
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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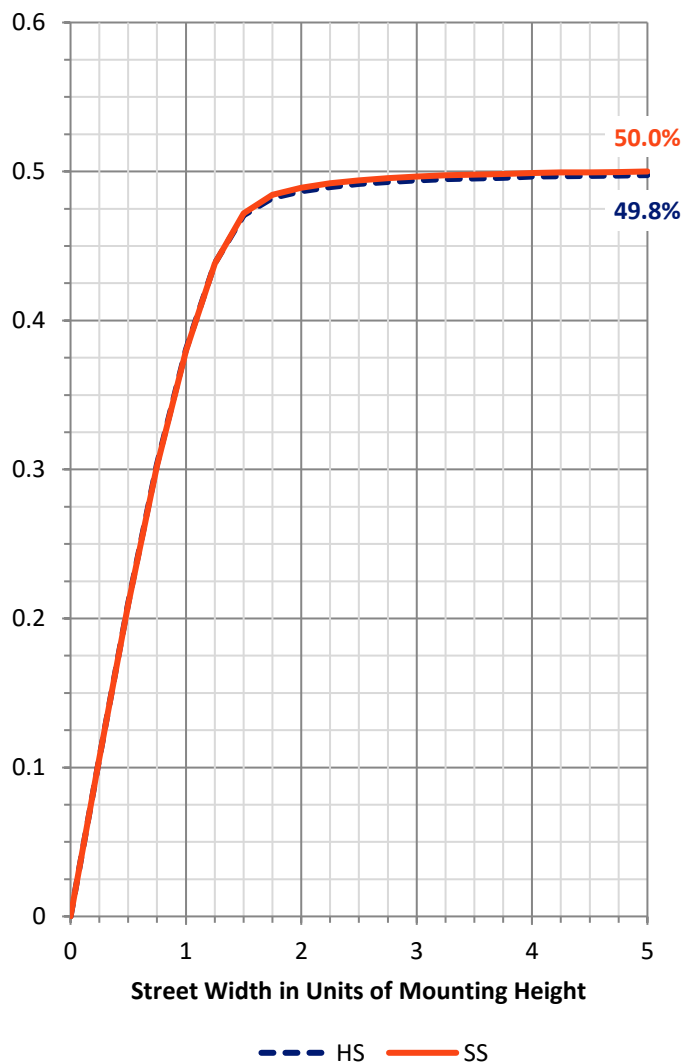
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12838.5	0.0	12838.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12838.5	0.0	12838.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25677.0	0.0	25677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.0	1.8
10°-20°	1451.2	5.7
20°-30°	2706.0	10.5
30°-40°	4530.7	17.6
40°-50°	7050.1	27.5
50°-60°	7320.2	28.5
60°-70°	1552.4	6.0
70°-80°	511.2	2.0
80°-90°	97.4	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°	25677.0	100.0
0°-180°	25677.0	100.0

Coefficient of Utilization



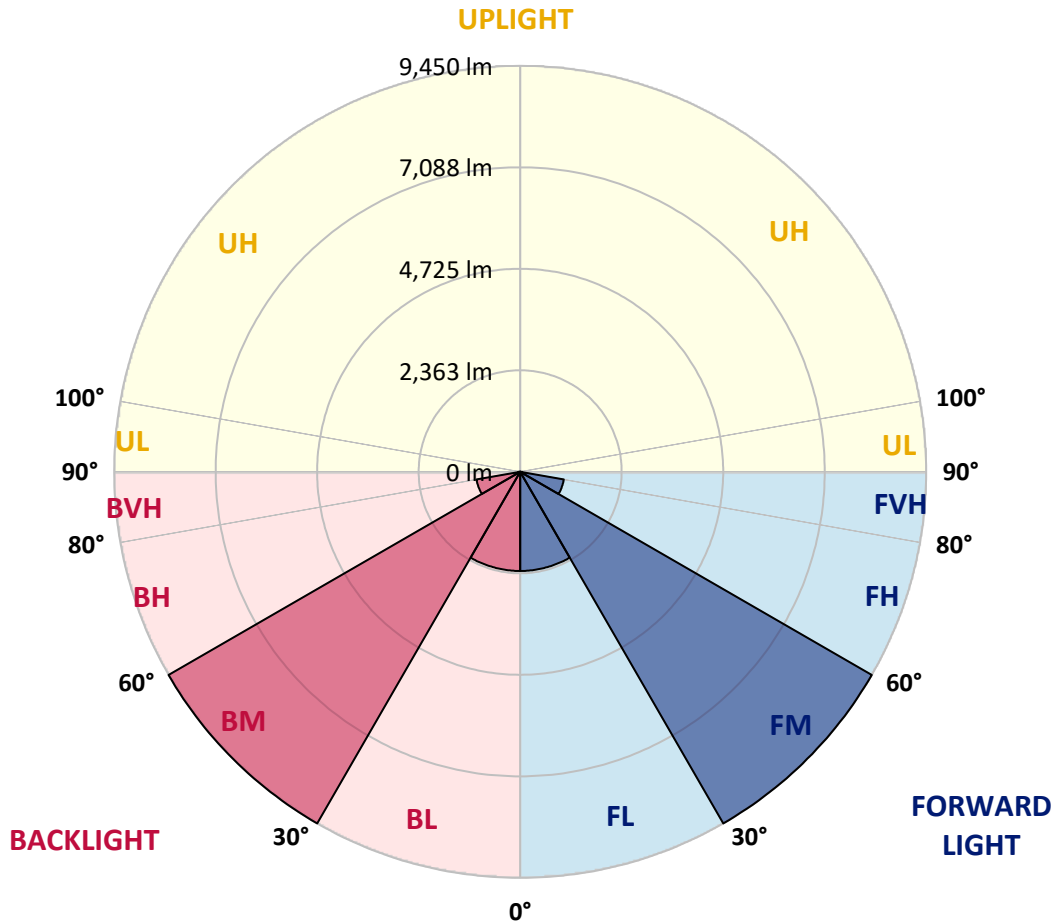
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.6	9.0			
FM (30°-60°)	9450.4	36.8			
FH (60°-80°)	1031.8	4.0			G1/1800
FVH (80°-90°)	48.7	0.2			G1/100
BL (0°-30°)	2307.6	9.0	B3/2500		
BM (30°-60°)	9450.4	36.8	B5		
BH (60°-80°)	1031.8	4.0	B3/2500		G1/1800
BVH (80°-90°)	48.7	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°	4688.2	4688.2	4688.2	4688.2	4688.2	4688.2	4688.2	4688.2	4688.2	4688.2	4688.2
2.5°	4744.1	4722.4	4685.1	4713.1	4734.8	4688.2	4706.9	4716.2	4710.0	4685.1	4694.4
5°	4812.3	4799.9	4768.9	4790.6	4762.7	4762.7	4744.1	4719.3	4756.5	4750.3	4765.8
7.5°	4812.3	4796.8	4858.9	4818.6	4831.0	4831.0	4799.9	4775.1	4793.7	4765.8	4750.3
10°	4908.5	4930.3	4902.3	4911.6	4905.4	4927.1	4880.6	4865.1	4849.6	4840.3	4821.7
12.5°	5023.3	5007.8	5017.1	5010.9	5032.6	4976.8	4948.9	4914.7	4942.7	4902.3	4930.3
15°	5116.4	5107.1	5116.4	5141.2	5119.5	5116.4	5066.8	5032.6	4989.2	4998.5	4955.1
17.5°	5243.6	5234.3	5237.4	5259.1	5256.0	5240.5	5203.3	5138.1	5122.6	5097.8	5069.9
20°	5432.9	5417.4	5411.2	5420.5	5436.0	5448.4	5373.9	5349.1	5296.4	5256.0	5209.5
22.5°	5594.2	5588.0	5612.9	5572.5	5606.6	5643.9	5572.5	5560.1	5429.8	5408.1	5358.4
25°	5817.6	5808.3	5792.8	5851.8	5892.1	5889.0	5820.7	5752.5	5653.2	5628.4	5628.4
27.5°	6053.4	6000.7	6081.4	6096.9	6168.2	6190.0	6131.0	6031.7	5938.6	5885.9	5898.3
30°	6348.2	6298.6	6317.2	6428.9	6522.0	6602.6	6453.7	6307.9	6177.6	6084.5	6069.0
32.5°	6643.0	6593.3	6649.2	6757.8	6943.9	7064.9	6919.1	6664.7	6512.6	6376.1	6404.1
35°	6881.9	6919.1	7009.1	7173.5	7365.9	7561.4	7328.7	7133.2	6916.0	6764.0	6785.7
37.5°	7266.6	7381.4	7452.8	7642.0	7915.1	8116.8	7874.7	7620.3	7387.6	7189.0	7120.8
40°	7769.3	7846.8	7927.5	8150.9	8473.6	8675.3	8445.7	8113.7	7884.1	7679.3	7670.0
42.5°	8321.5	8396.0	8479.8	8752.8	8945.2	9097.2	8886.2	8709.4	8455.0	8293.6	8284.3
45°	8963.8	8911.1	9004.1	9184.1	9345.4	9444.7	9308.2	9221.3	9038.3	8889.3	8873.8
47.5°	9392.0	9345.4	9513.0	9674.3	9699.2	9590.6	9618.5	9699.2	9506.8	9261.7	9339.2
50°	9640.2	9640.2	9751.9	9900.8	9854.3	9714.7	9935.0	9941.2	9748.8	9531.6	9531.6
52.5°	9208.9	9305.1	9621.6	10108.7	10263.9	10304.2	10254.5	10043.6	9540.9	9097.2	9075.5
55°	8023.7	8002.0	8430.1	9547.1	10450.0	10927.8	10294.9	9323.7	8302.9	7803.4	7753.7
57.5°	5218.8	5243.6	5882.8	7021.5	8650.4	9540.9	8473.6	7108.4	5882.8	5194.0	5259.1
60°	2348.8	2432.5	2820.4	3670.5	5069.9	5795.9	5082.3	3856.7	2960.0	2569.1	2603.2
62.5°	1349.7	1365.2	1380.7	1638.2	2159.5	2553.6	2243.3	1731.3	1526.5	1458.3	1458.3
65°	1138.7	1129.4	1132.5	1154.2	1210.1	1290.7	1256.6	1210.1	1216.3	1210.1	1200.8
67.5°	968.1	980.5	971.2	986.7	989.8	1002.2	1023.9	1042.5	1045.6	1051.8	1045.6
70°	794.3	797.4	803.6	816.0	819.1	828.4	859.5	875.0	884.3	884.3	896.7
72.5°	608.1	605.0	611.2	623.7	639.2	642.3	670.2	691.9	704.3	688.8	691.9
75°	400.3	403.4	412.7	422.0	443.7	465.4	474.7	496.4	499.5	505.7	490.2
77.5°	238.9	245.1	254.4	273.0	291.7	310.3	332.0	347.5	353.7	347.5	328.9
80°	155.1	155.1	167.5	183.1	204.8	220.3	232.7	245.1	254.4	245.1	238.9
82.5°	96.2	96.2	111.7	130.3	145.8	155.1	173.8	189.3	198.6	192.4	183.1
85°	49.6	52.7	65.2	80.7	93.1	99.3	96.2	86.9	77.6	74.5	68.3
87.5°	15.5	15.5	18.6	18.6	15.5	15.5	18.6	15.5	18.6	18.6	18.6
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)