

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: P529394

Luminaire Tested: **GALN-SA4C-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529394
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-SA4C-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 25051 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

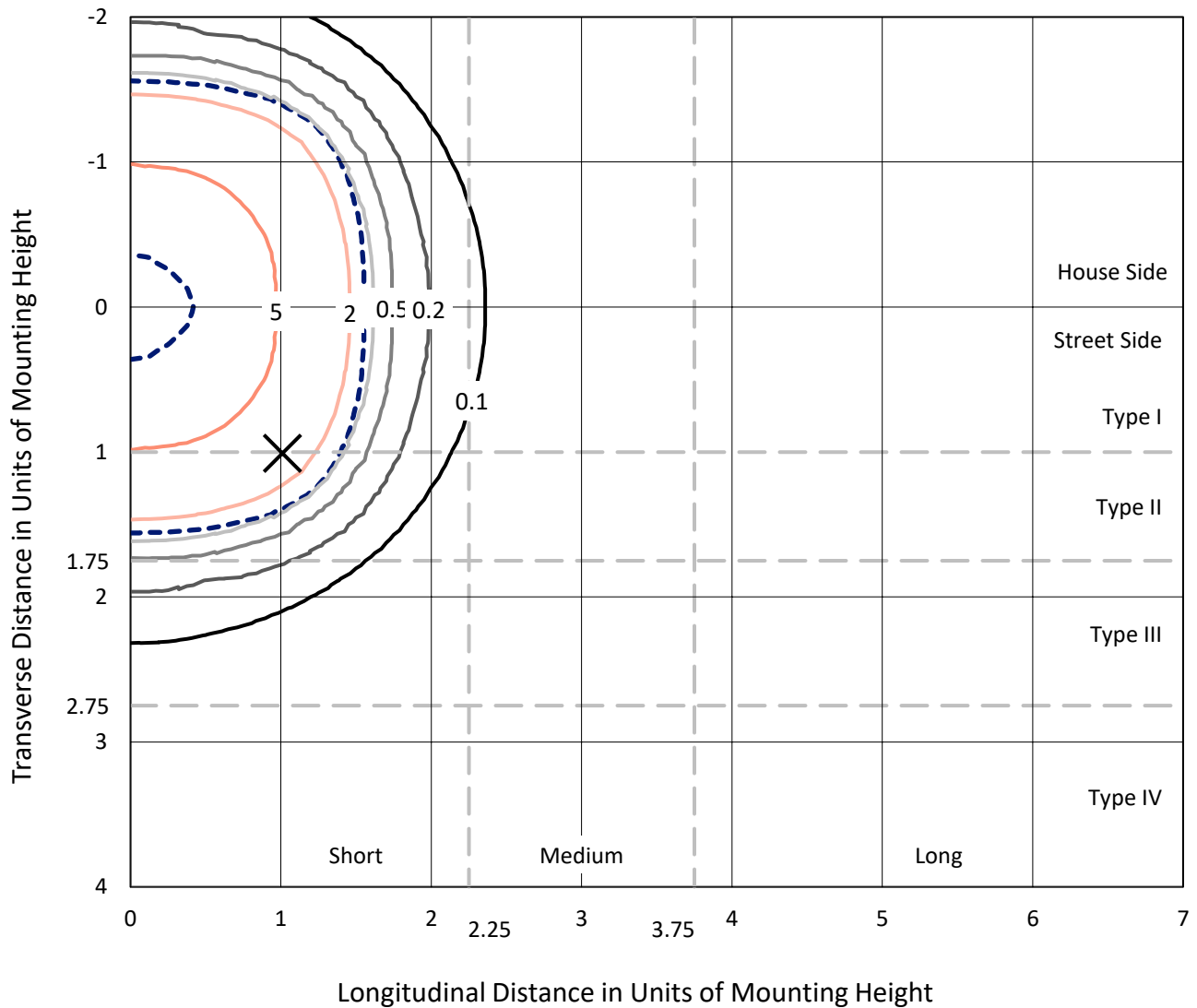
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

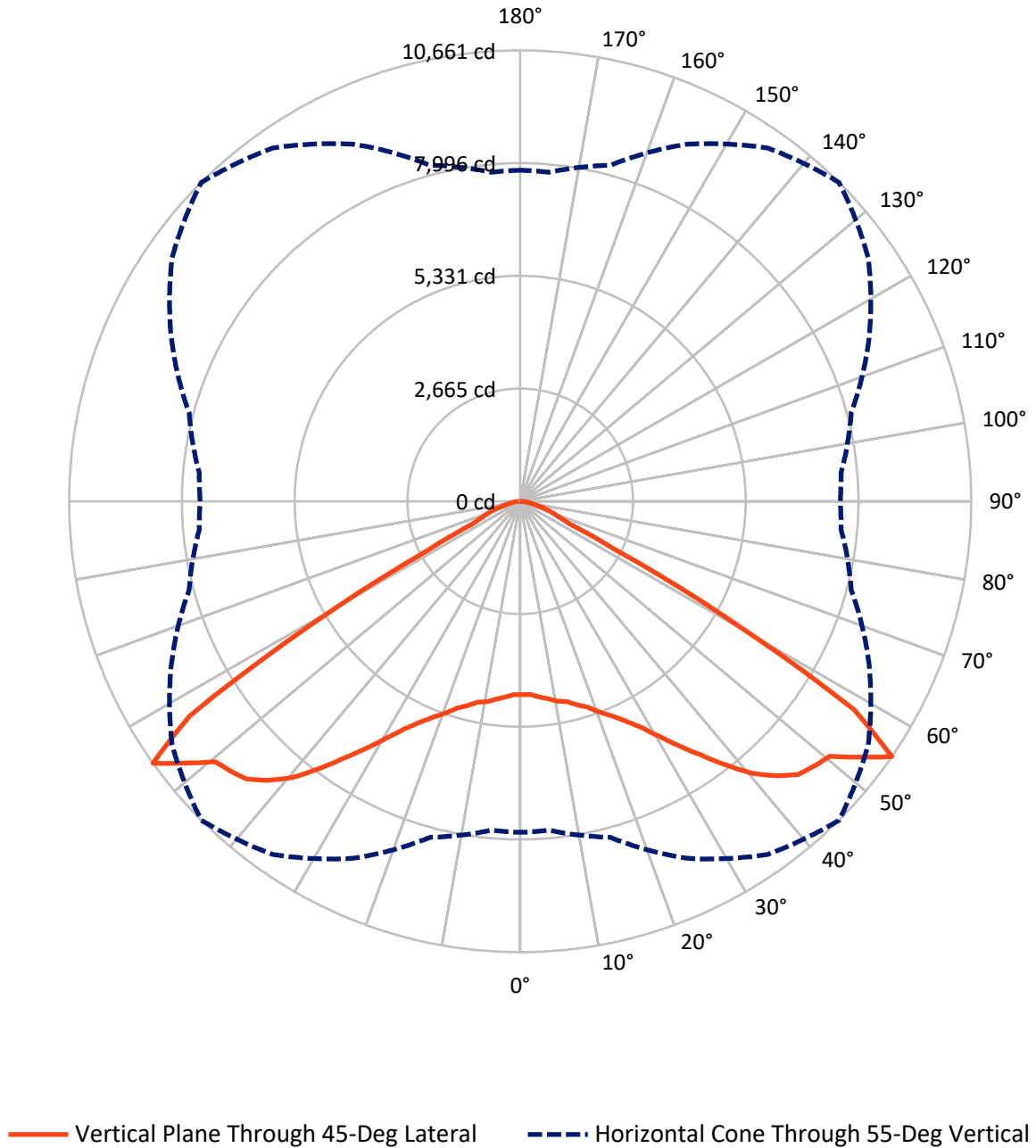
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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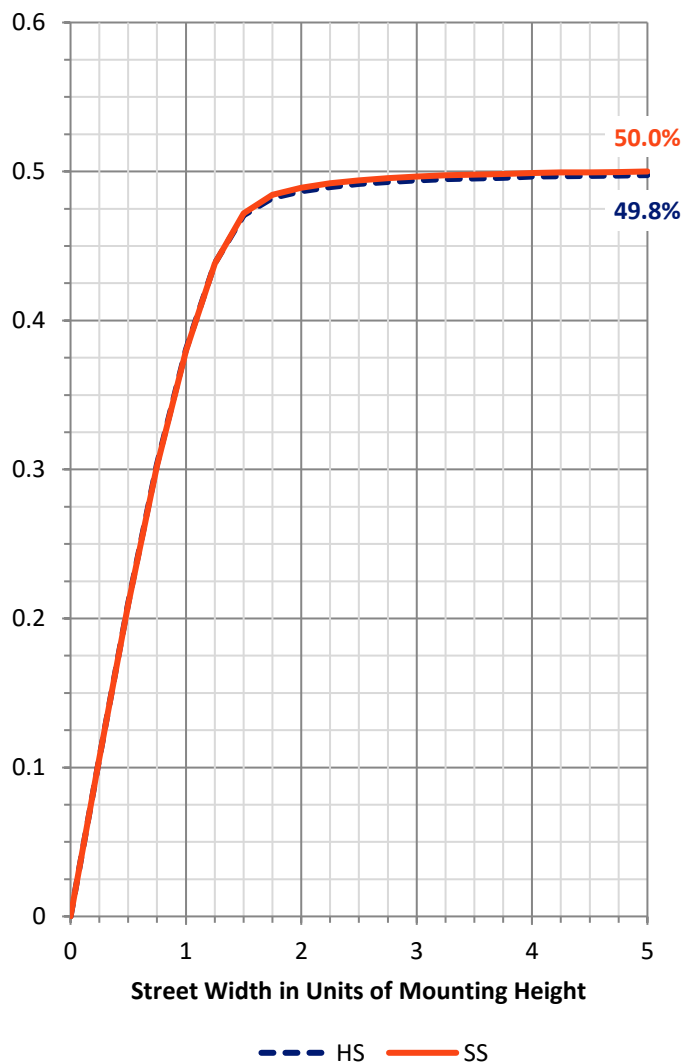
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12525.5	0.0	12525.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12525.5	0.0	12525.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25051.0	0.0	25051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	1.8
10°-20°	1415.8	5.7
20°-30°	2640.0	10.5
30°-40°	4420.2	17.6
40°-50°	6878.2	27.5
50°-60°	7141.7	28.5
60°-70°	1514.5	6.0
70°-80°	498.8	2.0
80°-90°	95.0	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°	25051.0	100.0
0°-180°	25051.0	100.0

Coefficient of Utilization

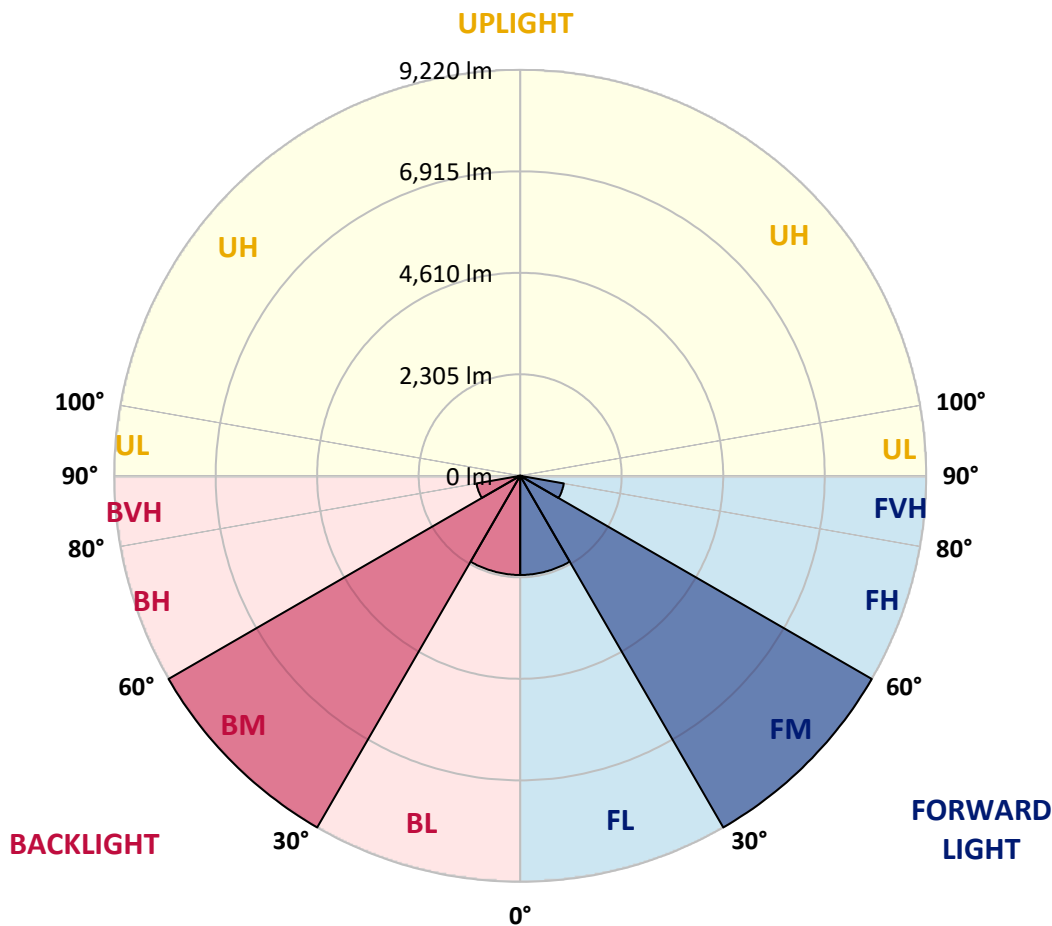


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.3	9.0			
FM (30°-60°)	9220.0	36.8			
FH (60°-80°)	1006.7	4.0			G1/1800
FVH (80°-90°)	47.5	0.2			G1/100
BL (0°-30°)	2251.3	9.0	B3/2500		
BM (30°-60°)	9220.0	36.8	B5		
BH (60°-80°)	1006.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	47.5	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°	4573.9	4573.9	4573.9	4573.9	4573.9	4573.9	4573.9	4573.9	4573.9	4573.9	4573.9
2.5°	4628.4	4607.2	4570.9	4598.2	4619.3	4573.9	4592.1	4601.2	4595.1	4570.9	4580.0
5°	4695.0	4682.9	4652.6	4673.8	4646.6	4646.6	4628.4	4604.2	4640.5	4634.5	4649.6
7.5°	4695.0	4679.9	4740.4	4701.1	4713.2	4713.2	4682.9	4658.7	4676.9	4649.6	4634.5
10°	4788.9	4810.1	4782.8	4791.9	4785.8	4807.0	4761.6	4746.5	4731.3	4722.3	4704.1
12.5°	4900.9	4885.7	4894.8	4888.8	4909.9	4855.5	4828.2	4794.9	4822.2	4782.8	4810.1
15°	4991.7	4982.6	4991.7	5015.9	4994.7	4991.7	4943.2	4909.9	4867.6	4876.6	4834.3
17.5°	5115.8	5106.7	5109.7	5130.9	5127.9	5112.8	5076.4	5012.9	4997.7	4973.5	4946.3
20°	5300.4	5285.3	5279.3	5288.3	5303.5	5315.6	5242.9	5218.7	5167.2	5127.9	5082.5
22.5°	5457.9	5451.8	5476.0	5436.7	5470.0	5506.3	5436.7	5424.6	5297.4	5276.2	5227.8
25°	5675.8	5666.7	5651.6	5709.1	5748.5	5745.4	5678.8	5612.2	5515.4	5491.1	5491.1
27.5°	5905.9	5854.4	5933.1	5948.2	6017.9	6039.1	5981.5	5884.7	5793.9	5742.4	5754.5
30°	6193.4	6145.0	6163.2	6272.1	6363.0	6441.7	6296.4	6154.1	6026.9	5936.1	5921.0
32.5°	6481.0	6432.6	6487.1	6593.0	6774.6	6892.7	6750.4	6502.2	6353.9	6220.7	6247.9
35°	6714.1	6750.4	6838.2	6998.6	7186.3	7377.0	7150.0	6959.3	6747.4	6599.1	6620.3
37.5°	7089.5	7201.5	7271.1	7455.7	7722.1	7918.9	7682.8	7434.5	7207.5	7013.8	6947.2
40°	7579.8	7655.5	7734.2	7952.2	8267.0	8463.8	8239.7	7915.9	7691.8	7492.1	7483.0
42.5°	8118.7	8191.3	8273.0	8539.4	8727.1	8875.4	8669.6	8497.1	8248.8	8091.4	8082.3
45°	8745.3	8693.8	8784.6	8960.2	9117.6	9214.5	9081.3	8996.5	8817.9	8672.6	8657.5
47.5°	9163.0	9117.6	9281.1	9438.5	9462.7	9356.7	9384.0	9462.7	9275.0	9035.9	9111.6
50°	9405.2	9405.2	9514.2	9659.5	9614.1	9477.8	9692.8	9698.8	9511.1	9299.2	9299.2
52.5°	8984.4	9078.3	9387.0	9862.3	10013.6	10053.0	10004.5	9798.7	9308.3	8875.4	8854.2
55°	7828.1	7806.9	8224.6	9314.4	10195.3	10661.4	10043.9	9096.4	8100.5	7613.1	7564.7
57.5°	5091.6	5115.8	5739.4	6850.3	8439.5	9308.3	8267.0	6935.1	5739.4	5067.4	5130.9
60°	2291.5	2373.2	2751.6	3581.1	4946.3	5654.6	4958.4	3762.7	2887.8	2506.4	2539.7
62.5°	1316.8	1331.9	1347.1	1598.3	2106.9	2491.3	2188.6	1689.1	1489.3	1422.7	1422.7
65°	1110.9	1101.9	1104.9	1126.1	1180.6	1259.3	1226.0	1180.6	1186.6	1180.6	1171.5
67.5°	944.5	956.6	947.5	962.6	965.6	977.8	998.9	1017.1	1020.1	1026.2	1020.1
70°	774.9	778.0	784.0	796.1	799.2	808.2	838.5	853.6	862.7	862.7	874.8
72.5°	593.3	590.3	596.3	608.4	623.6	626.6	653.9	675.0	687.2	672.0	675.0
75°	390.5	393.5	402.6	411.7	432.9	454.1	463.1	484.3	487.4	493.4	478.3
77.5°	233.1	239.1	248.2	266.4	284.5	302.7	323.9	339.0	345.1	339.0	320.9
80°	151.4	151.4	163.5	178.6	199.8	214.9	227.0	239.1	248.2	239.1	233.1
82.5°	93.8	93.8	109.0	127.1	142.3	151.4	169.5	184.7	193.7	187.7	178.6
85°	48.4	51.5	63.6	78.7	90.8	96.9	93.8	84.8	75.7	72.7	66.6
87.5°	15.1	15.1	18.2	18.2	15.1	15.1	18.2	15.1	18.2	18.2	18.2
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)