

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: P529550

Luminaire Tested: **GALN-SA4D-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529550
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-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 23053 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

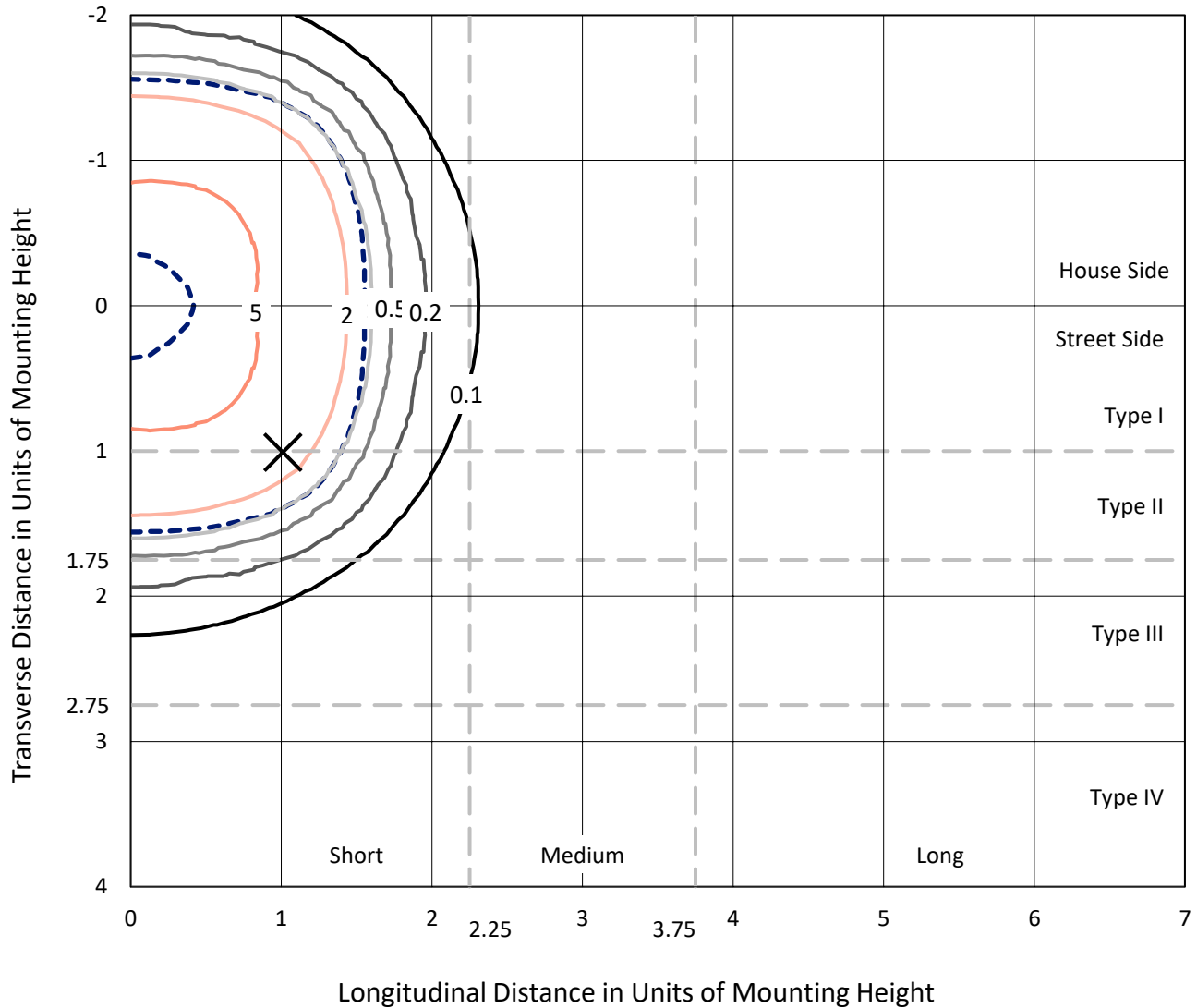
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

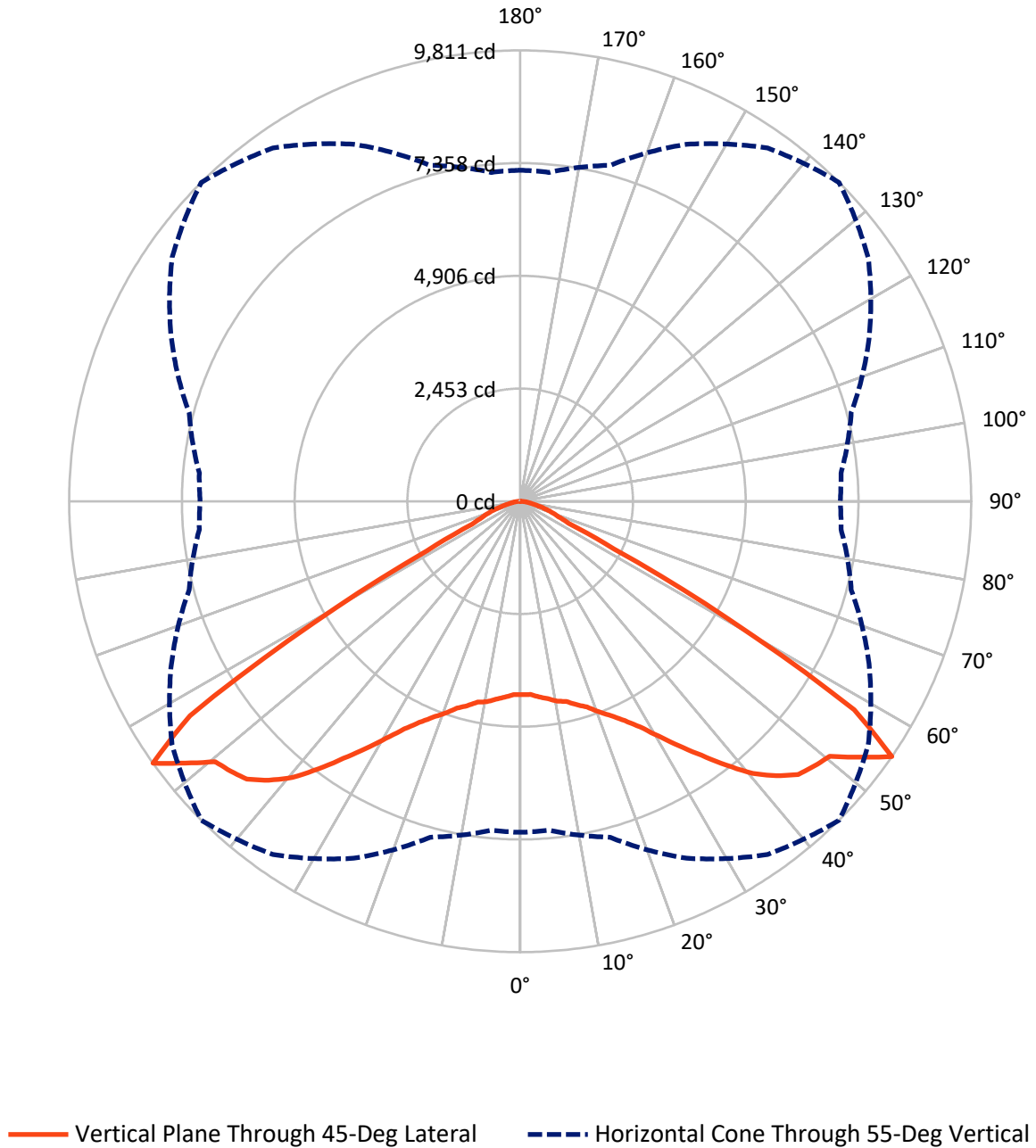
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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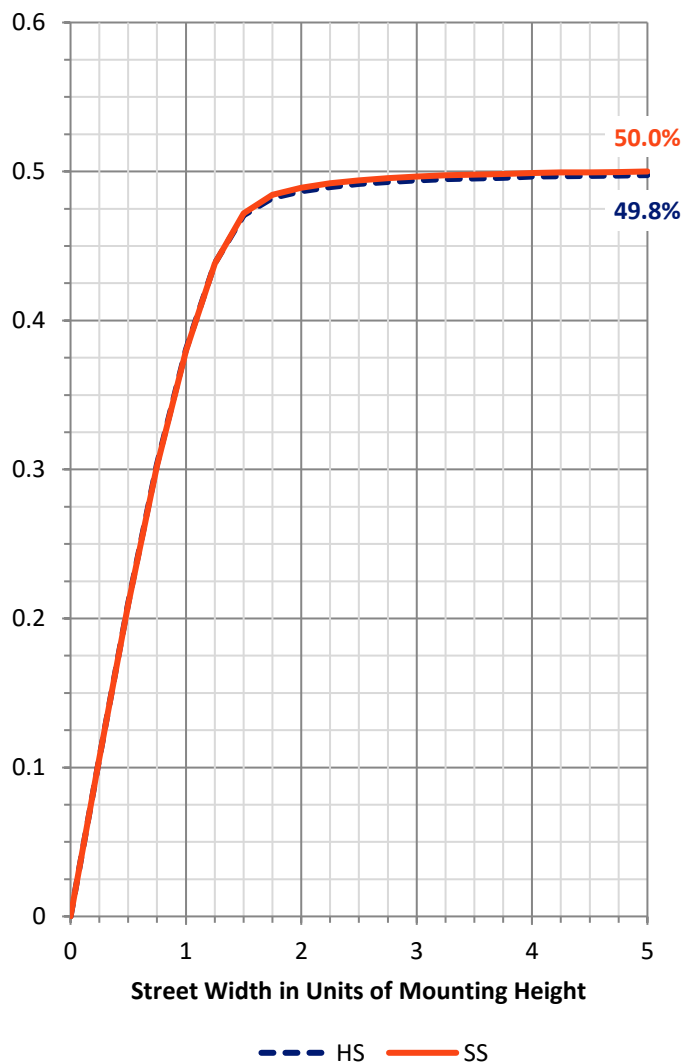
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11526.5	0.0	11526.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11526.5	0.0	11526.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23053.0	0.0	23053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	1.8
10°-20°	1302.9	5.7
20°-30°	2429.4	10.5
30°-40°	4067.7	17.6
40°-50°	6329.6	27.5
50°-60°	6572.1	28.5
60°-70°	1393.7	6.0
70°-80°	459.0	2.0
80°-90°	87.4	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°	23053.0	100.0
0°-180°	23053.0	100.0

Coefficient of Utilization

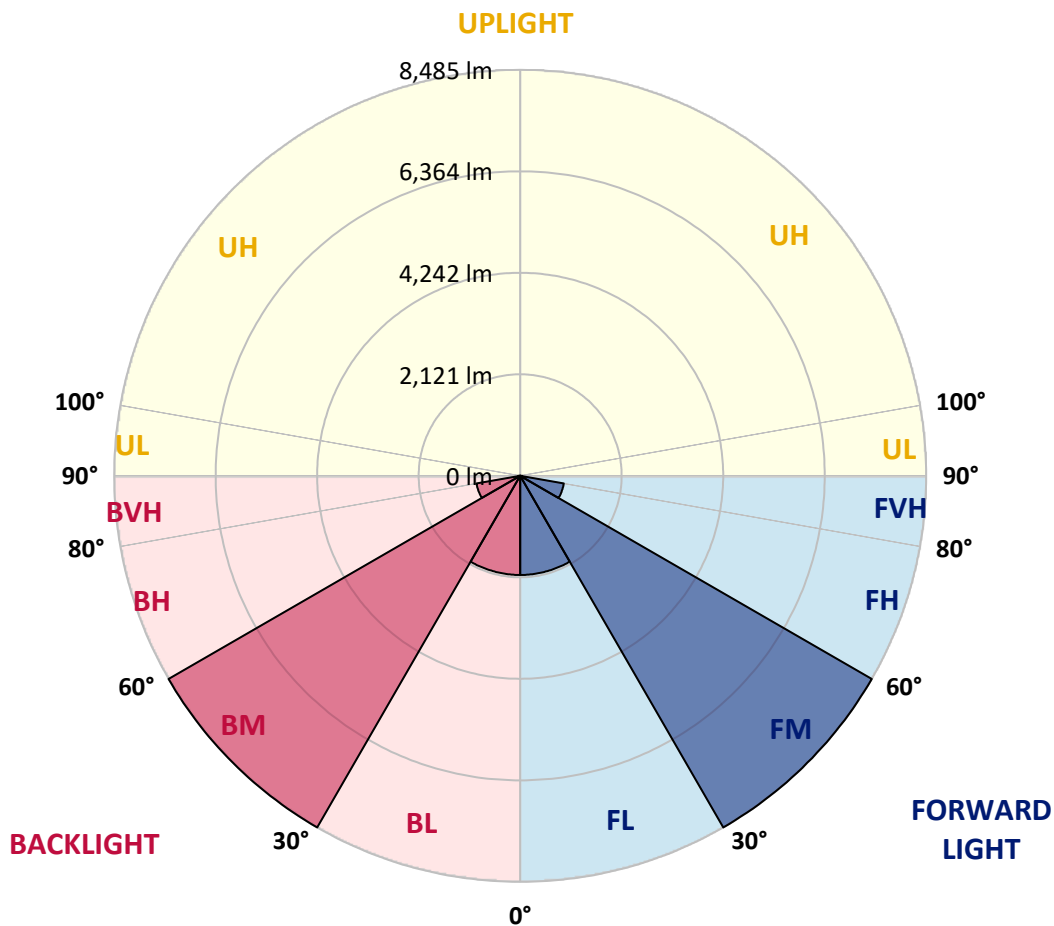


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2071.7	9.0			
FM (30°-60°)	8484.7	36.8			
FH (60°-80°)	926.4	4.0			G1/1800
FVH (80°-90°)	43.7	0.2			G1/100
BL (0°-30°)	2071.7	9.0	B3/2500		
BM (30°-60°)	8484.7	36.8	B4/8500		
BH (60°-80°)	926.4	4.0	B2/1000		G1/1800
BVH (80°-90°)	43.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1
2.5°	4259.3	4239.8	4206.3	4231.4	4250.9	4209.1	4225.8	4234.2	4228.6	4206.3	4214.7
5°	4320.6	4309.4	4281.6	4301.1	4276.0	4276.0	4259.3	4237.0	4270.4	4264.8	4278.8
7.5°	4320.6	4306.6	4362.3	4326.1	4337.3	4337.3	4309.4	4287.1	4303.8	4278.8	4264.8
10°	4406.9	4426.4	4401.3	4409.7	4404.1	4423.6	4381.8	4367.9	4354.0	4345.6	4328.9
12.5°	4510.0	4496.1	4504.4	4498.8	4518.3	4468.2	4443.1	4412.5	4437.6	4401.3	4426.4
15°	4593.6	4585.2	4593.6	4615.8	4596.3	4593.6	4549.0	4518.3	4479.3	4487.7	4448.7
17.5°	4707.8	4699.4	4702.2	4721.7	4718.9	4705.0	4671.6	4613.1	4599.1	4576.8	4551.8
20°	4877.7	4863.8	4858.2	4866.5	4880.5	4891.6	4824.8	4802.5	4755.1	4718.9	4677.1
22.5°	5022.5	5017.0	5039.3	5003.0	5033.7	5067.1	5003.0	4991.9	4874.9	4855.4	4810.8
25°	5223.1	5214.8	5200.8	5253.8	5290.0	5287.2	5225.9	5164.6	5075.5	5053.2	5053.2
27.5°	5434.8	5387.5	5459.9	5473.8	5537.9	5557.4	5504.5	5415.3	5331.8	5284.4	5295.5
30°	5699.5	5654.9	5671.6	5771.9	5855.5	5927.9	5794.2	5663.2	5546.3	5462.7	5448.8
32.5°	5964.1	5919.5	5969.7	6067.2	6234.3	6343.0	6212.0	5983.6	5847.1	5724.5	5749.6
35°	6178.6	6212.0	6292.8	6440.4	6613.2	6788.7	6579.7	6404.2	6209.2	6072.7	6092.2
37.5°	6524.0	6627.1	6691.2	6861.1	7106.2	7287.3	7070.0	6841.6	6632.7	6454.4	6393.1
40°	6975.3	7044.9	7117.4	7317.9	7607.6	7788.7	7582.6	7284.5	7078.4	6894.5	6886.2
42.5°	7471.1	7538.0	7613.2	7858.4	8031.1	8167.6	7978.1	7819.4	7590.9	7446.1	7437.7
45°	8047.8	8000.4	8084.0	8245.6	8390.4	8479.6	8357.0	8279.0	8114.6	7980.9	7967.0
47.5°	8432.2	8390.4	8540.8	8685.7	8708.0	8610.5	8635.5	8708.0	8535.3	8315.2	8384.8
50°	8655.0	8655.0	8755.3	8889.0	8847.3	8721.9	8919.7	8925.3	8752.5	8557.6	8557.6
52.5°	8267.8	8354.2	8638.3	9075.7	9215.0	9251.2	9206.6	9017.2	8565.9	8167.6	8148.1
55°	7203.7	7184.2	7568.6	8571.5	9382.1	9811.1	9242.8	8370.9	7454.4	7005.9	6961.4
57.5°	4685.5	4707.8	5281.6	6304.0	7766.4	8565.9	7607.6	6381.9	5281.6	4663.2	4721.7
60°	2108.7	2184.0	2532.2	3295.4	4551.8	5203.6	4562.9	3462.6	2657.5	2306.5	2337.2
62.5°	1211.8	1225.7	1239.6	1470.8	1938.8	2292.6	2014.0	1554.4	1370.5	1309.3	1309.3
65°	1022.3	1014.0	1016.8	1036.3	1086.4	1158.8	1128.2	1086.4	1092.0	1086.4	1078.1
67.5°	869.1	880.3	871.9	885.8	888.6	899.8	919.3	936.0	938.8	944.3	938.8
70°	713.1	715.9	721.5	732.6	735.4	743.8	771.6	785.6	793.9	793.9	805.1
72.5°	546.0	543.2	548.8	559.9	573.8	576.6	601.7	621.2	632.3	618.4	621.2
75°	359.4	362.1	370.5	378.8	398.3	417.8	426.2	445.7	448.5	454.1	440.1
77.5°	214.5	220.1	228.4	245.1	261.9	278.6	298.1	312.0	317.6	312.0	295.3
80°	139.3	139.3	150.4	164.4	183.9	197.8	208.9	220.1	228.4	220.1	214.5
82.5°	86.4	86.4	100.3	117.0	130.9	139.3	156.0	169.9	178.3	172.7	164.4
85°	44.6	47.4	58.5	72.4	83.6	89.1	86.4	78.0	69.6	66.9	61.3
87.5°	13.9	13.9	16.7	16.7	13.9	13.9	16.7	13.9	16.7	16.7	16.7
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)