

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: P529552

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21713 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

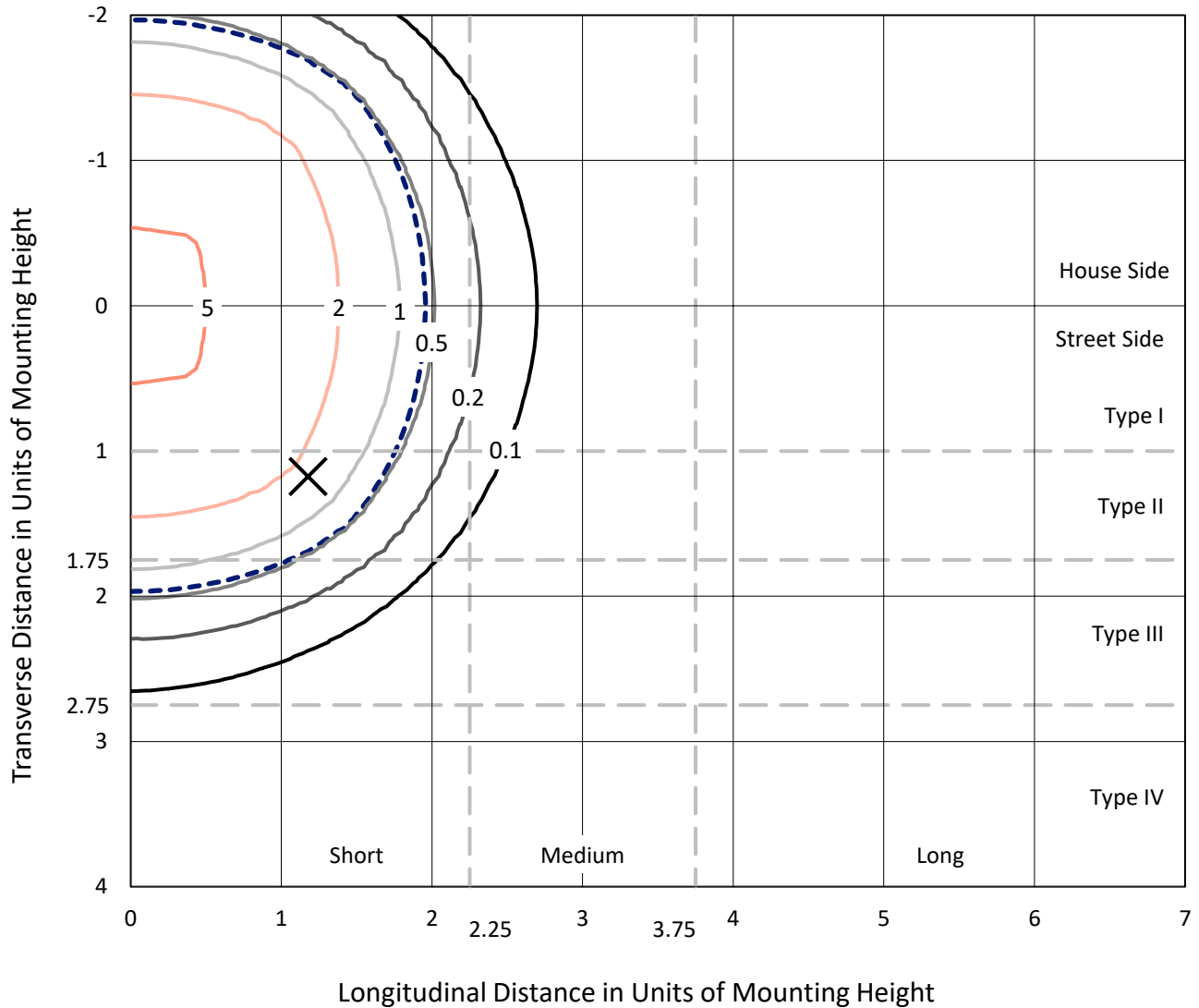
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

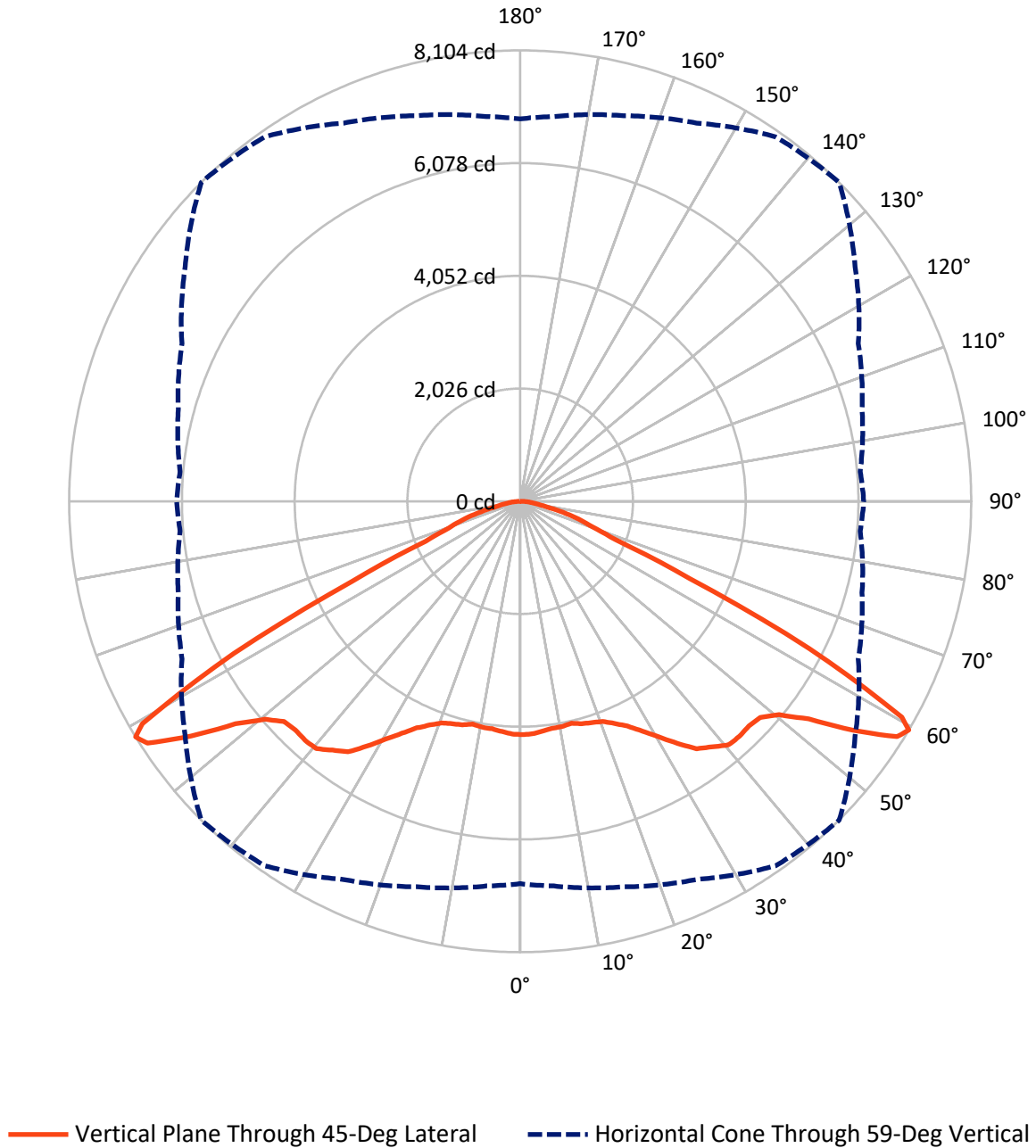
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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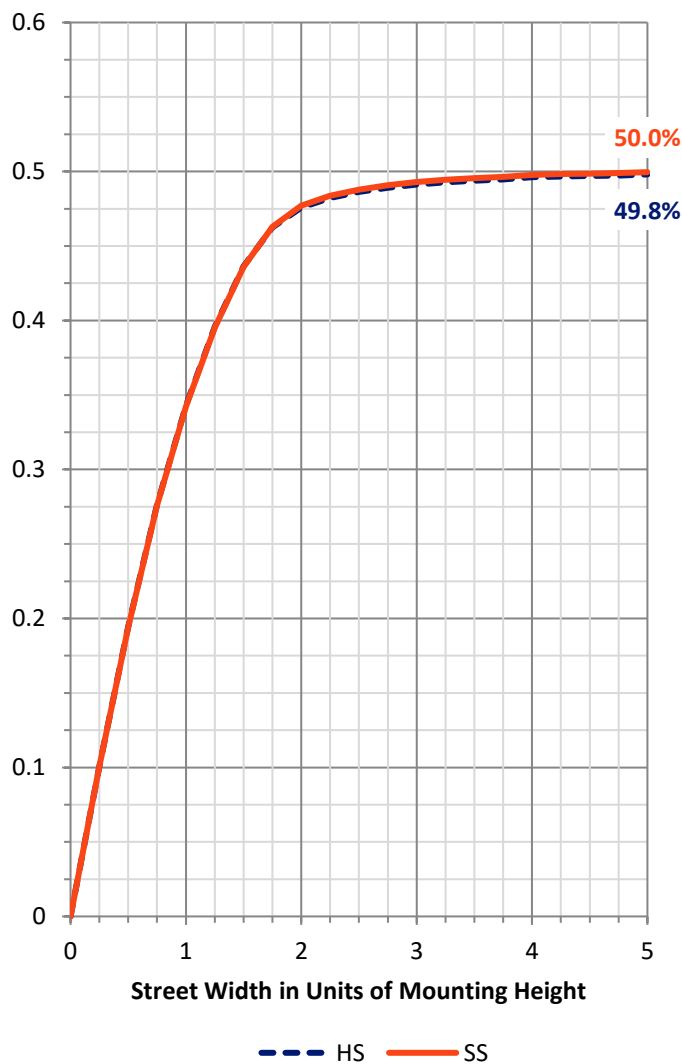
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10856.5	0.0	10856.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10856.5	0.0	10856.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21713.0	0.0	21713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.4	1.8
10°-20°	1175.7	5.4
20°-30°	2052.9	9.5
30°-40°	3278.8	15.1
40°-50°	4466.4	20.6
50°-60°	6039.7	27.8
60°-70°	3312.2	15.3
70°-80°	847.4	3.9
80°-90°	144.5	0.7
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°	21713.0	100.0
0°-180°	21713.0	100.0

Coefficient of Utilization



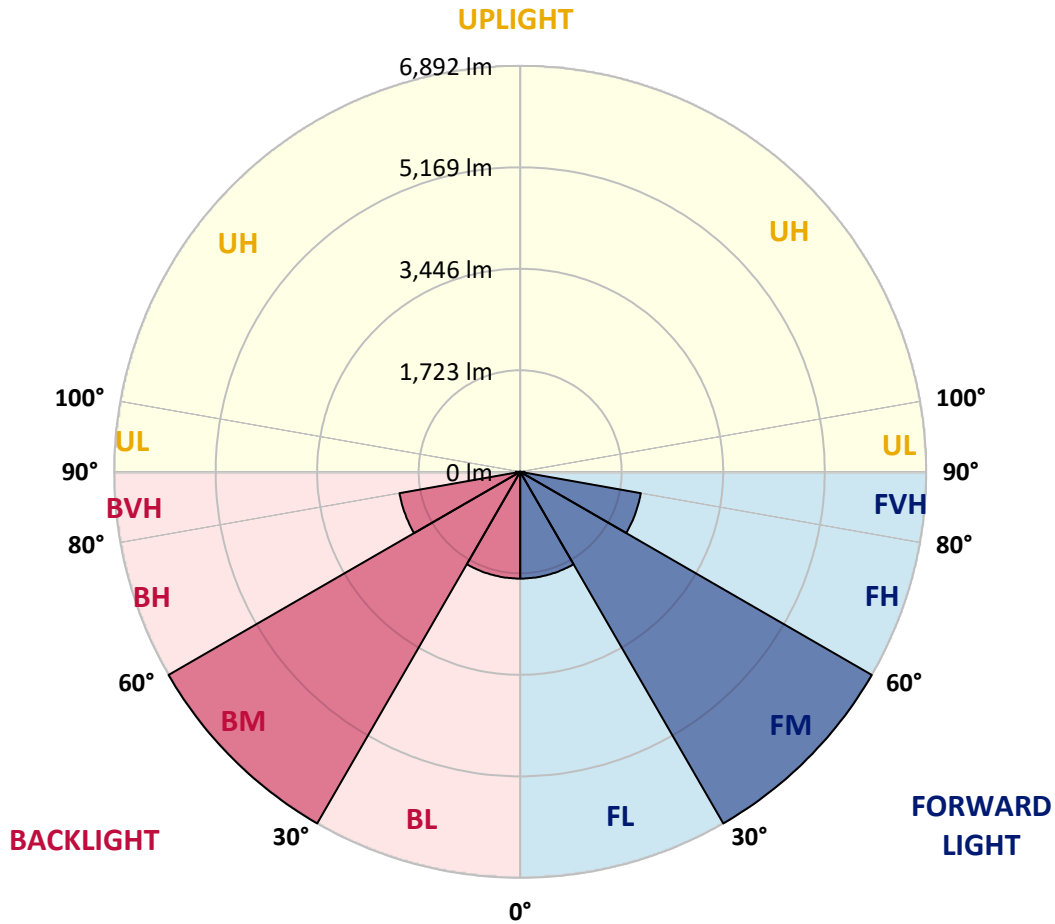
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.0	8.3			
FM (30°-60°)	6892.5	31.7			
FH (60°-80°)	2079.8	9.6			G2/5000
FVH (80°-90°)	72.3	0.3			G1/100
BL (0°-30°)	1812.0	8.3	B3/2500		
BM (30°-60°)	6892.5	31.7	B4/8500		
BH (60°-80°)	2079.8	9.6	B3/2500		G2/5000
BVH (80°-90°)	72.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4193.9	4193.9	4193.9	4193.9	4193.9	4193.9	4193.9	4193.9	4193.9	4193.9	4193.9
2.5°	4168.9	4199.5	4177.2	4196.7	4193.9	4185.6	4171.6	4163.3	4152.2	4168.9	4141.0
5°	4152.2	4177.2	4202.3	4168.9	4168.9	4152.2	4143.8	4127.1	4127.1	4124.3	4121.6
7.5°	4180.0	4155.0	4143.8	4149.4	4155.0	4118.8	4143.8	4110.4	4082.6	4102.1	4124.3
10°	4155.0	4166.1	4124.3	4143.8	4113.2	4118.8	4102.1	4124.3	4093.7	4093.7	4093.7
12.5°	4180.0	4149.4	4163.3	4149.4	4141.0	4093.7	4116.0	4090.9	4088.2	4116.0	4090.9
15°	4230.1	4180.0	4168.9	4141.0	4149.4	4149.4	4127.1	4129.9	4099.3	4116.0	4121.6
17.5°	4213.4	4185.6	4177.2	4143.8	4171.6	4180.0	4138.3	4110.4	4129.9	4127.1	4124.3
20°	4227.3	4238.4	4230.1	4235.7	4246.8	4224.5	4185.6	4146.6	4121.6	4157.7	4155.0
22.5°	4316.4	4305.2	4299.7	4294.1	4313.6	4335.8	4283.0	4221.7	4221.7	4246.8	4257.9
25°	4388.7	4385.9	4383.2	4408.2	4475.0	4475.0	4408.2	4330.3	4310.8	4327.5	4313.6
27.5°	4494.5	4525.1	4514.0	4558.5	4655.9	4678.1	4589.1	4497.3	4444.4	4424.9	4449.9
30°	4736.6	4700.4	4708.8	4756.1	4842.3	4914.7	4778.3	4680.9	4608.6	4605.8	4616.9
32.5°	4898.0	4925.8	4950.9	4995.4	5131.8	5187.4	5023.2	4864.6	4820.1	4795.0	4803.4
35°	5220.8	5195.8	5190.2	5234.7	5371.1	5462.9	5257.0	5117.9	5059.4	5115.1	5115.1
37.5°	5526.9	5457.4	5404.5	5462.9	5588.2	5599.3	5424.0	5348.8	5318.2	5382.2	5379.5
40°	5671.7	5666.1	5543.6	5577.0	5744.0	5760.7	5596.5	5507.5	5501.9	5585.4	5668.9
42.5°	5821.9	5769.1	5646.6	5668.9	5771.8	5777.4	5621.6	5596.5	5657.7	5738.5	5744.0
45°	5847.0	5802.5	5724.5	5668.9	5744.0	5760.7	5668.9	5685.6	5691.1	5788.5	5788.5
47.5°	5897.1	5891.5	5847.0	5805.2	5819.2	5805.2	5746.8	5771.8	5855.3	5902.6	5880.4
50°	6036.2	5977.8	6022.3	5986.1	5988.9	6027.9	5975.0	6000.1	5983.4	5941.6	5913.8
52.5°	6342.4	6314.5	6353.5	6378.5	6406.4	6495.4	6434.2	6300.6	6175.4	6064.1	6061.3
55°	6790.4	6809.9	6885.0	7013.0	7121.6	7263.5	6968.5	6648.5	6448.1	6272.8	6283.9
57.5°	7213.4	7199.5	7302.5	7594.7	7911.9	7984.3	7405.4	6949.0	6623.4	6512.1	6464.8
59°	6873.9	6940.7	7174.5	7500.1	7998.2	8104.0	7347.0	6704.1	6359.1	6133.6	6172.6
60°	6339.6	6364.6	6573.3	7027.0	7700.4	7881.3	6954.6	6325.7	5866.5	5735.7	5794.1
62.5°	4480.6	4461.1	4611.4	4981.5	5585.4	5830.3	5170.7	4728.2	4438.8	4294.1	4327.5
65°	2382.2	2471.3	2532.5	2763.5	3083.5	3342.3	3069.6	2877.6	2716.2	2596.5	2593.7
67.5°	1608.5	1597.4	1611.3	1664.2	1772.7	1845.1	1839.5	1742.1	1728.2	1706.0	1731.0
70°	1355.3	1349.7	1324.7	1324.7	1347.0	1363.6	1383.1	1394.3	1416.5	1444.4	1441.6
72.5°	1099.3	1085.4	1068.7	1060.3	1088.1	1096.5	1121.5	1132.7	1152.1	1149.4	1174.4
75°	726.4	726.4	745.8	768.1	776.4	793.1	795.9	829.3	829.3	834.9	812.6
77.5°	406.3	395.2	409.1	431.4	450.8	481.5	512.1	537.1	551.0	545.5	545.5
80°	236.6	236.6	250.5	275.5	300.6	328.4	350.7	370.1	384.0	378.5	367.4
82.5°	147.5	147.5	161.4	186.5	205.9	222.6	253.2	278.3	295.0	289.4	275.5
85°	75.1	75.1	91.8	108.5	133.6	144.7	141.9	130.8	128.0	114.1	114.1
87.5°	19.5	19.5	27.8	30.6	25.0	27.8	27.8	27.8	27.8	27.8	30.6
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)