

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: P454846

Luminaire Tested: **GALN-SA6A-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22639 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

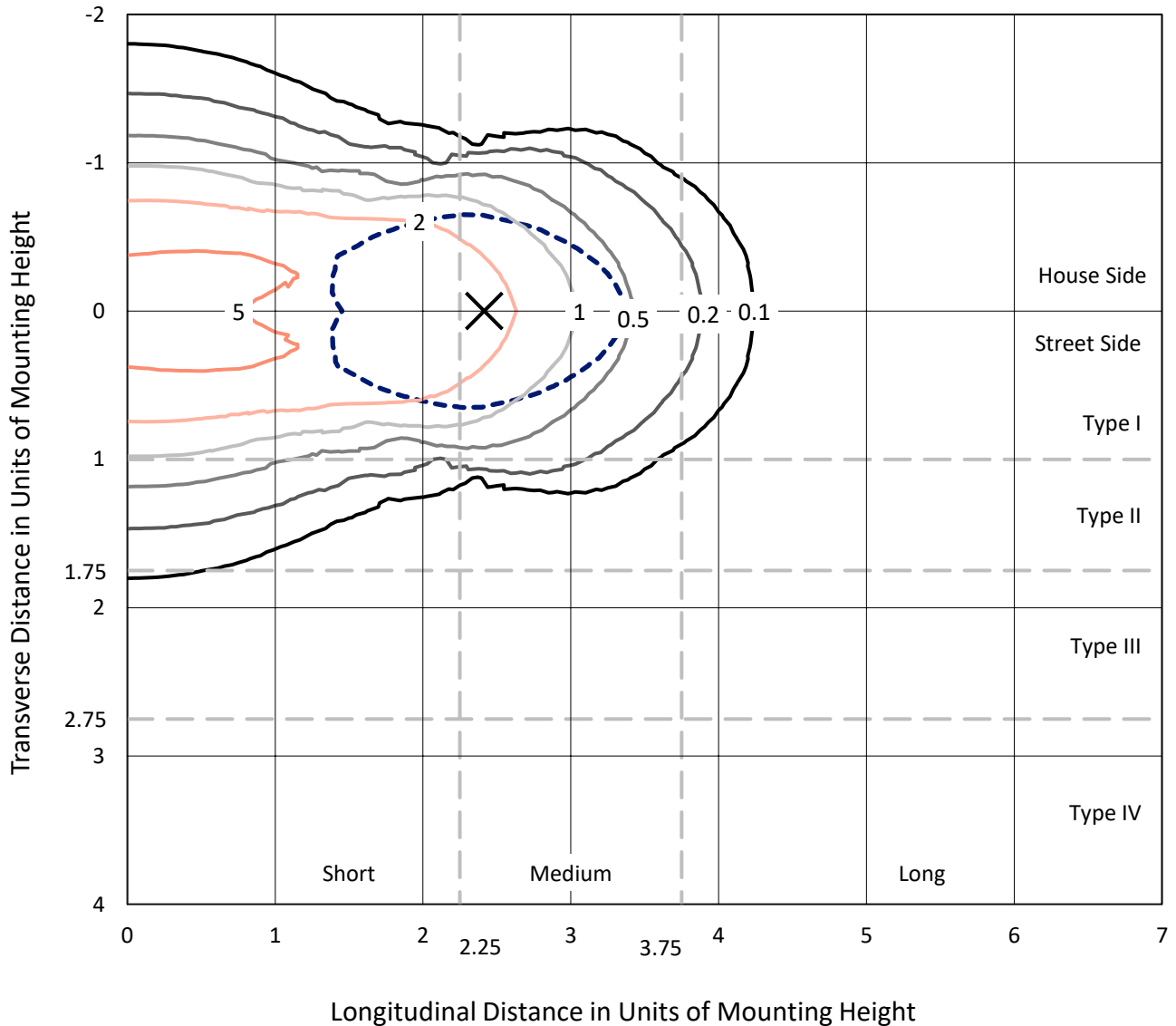
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

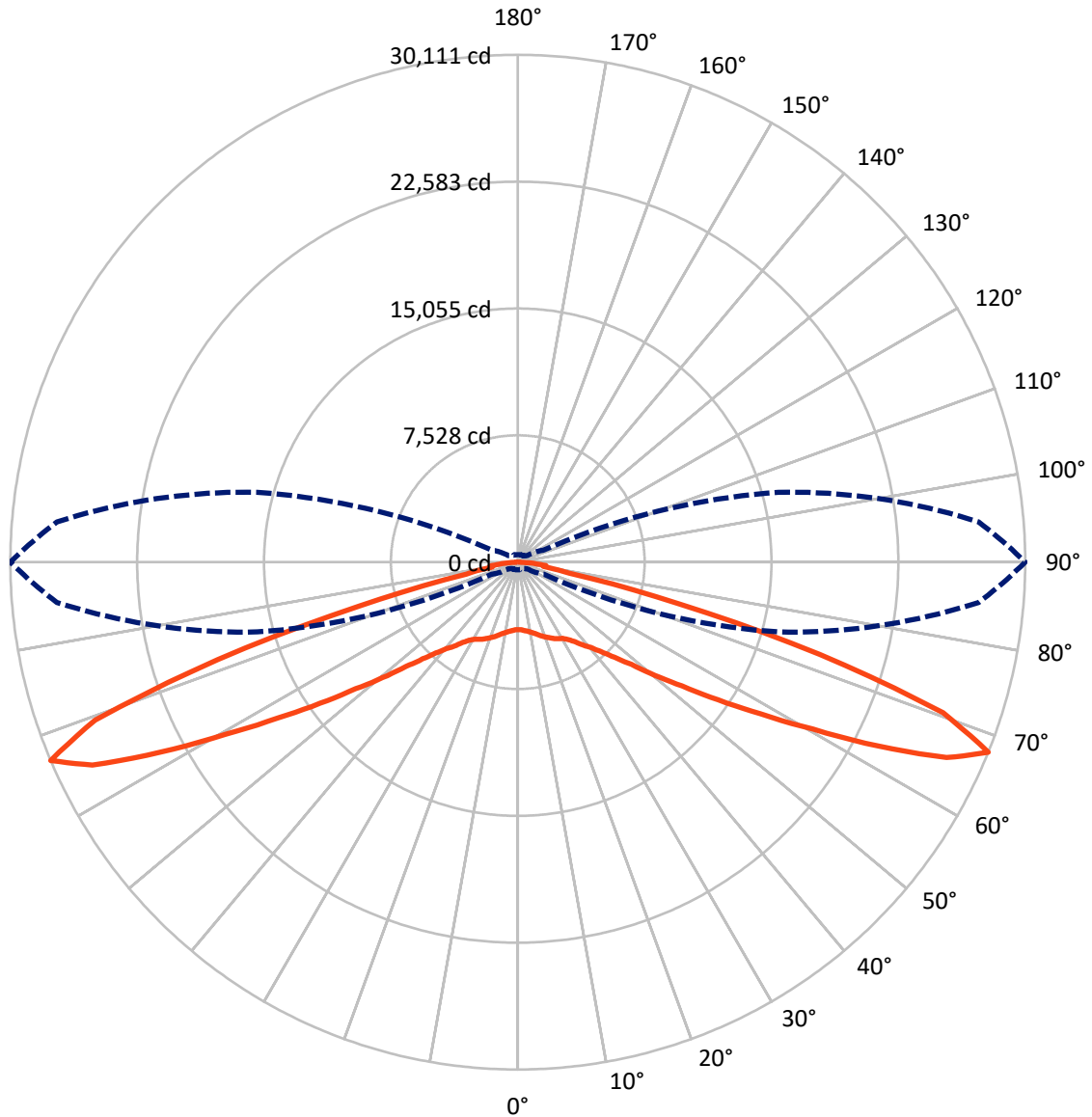
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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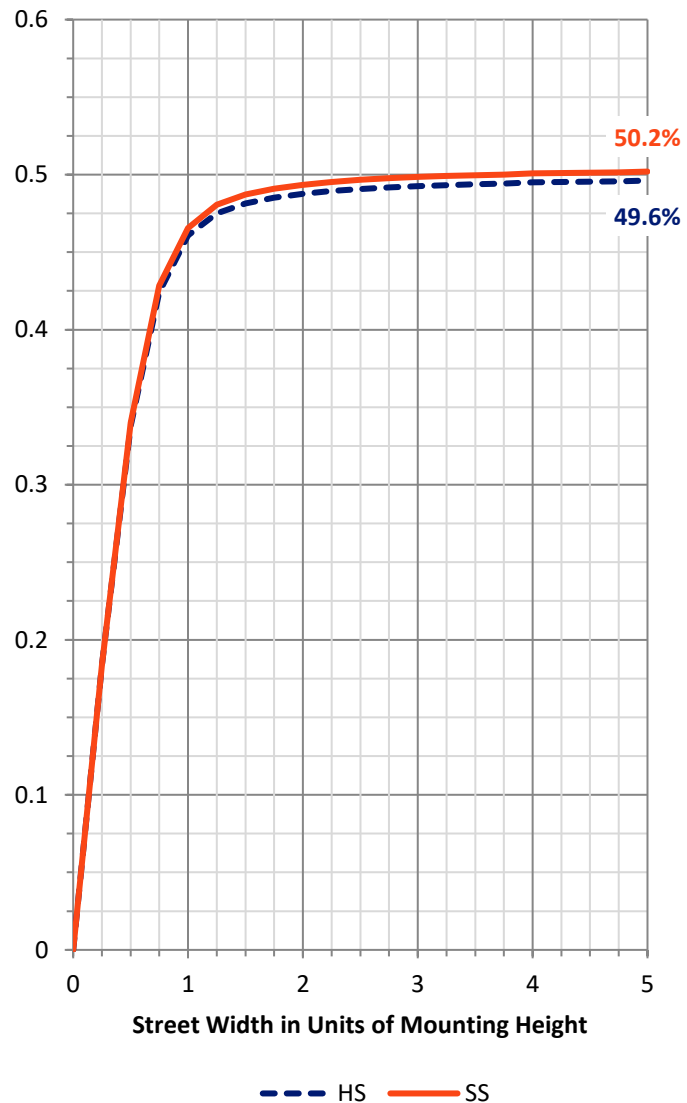
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11319.5	0.0	11319.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11319.5	0.0	11319.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22639.0	0.0	22639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	1.8
10°-20°	1278.4	5.6
20°-30°	2139.8	9.5
30°-40°	2898.8	12.8
40°-50°	3671.8	16.2
50°-60°	4587.0	20.3
60°-70°	5391.9	23.8
70°-80°	2062.6	9.1
80°-90°	209.0	0.9
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°	22639.0	100.0
0°-180°	22639.0	100.0



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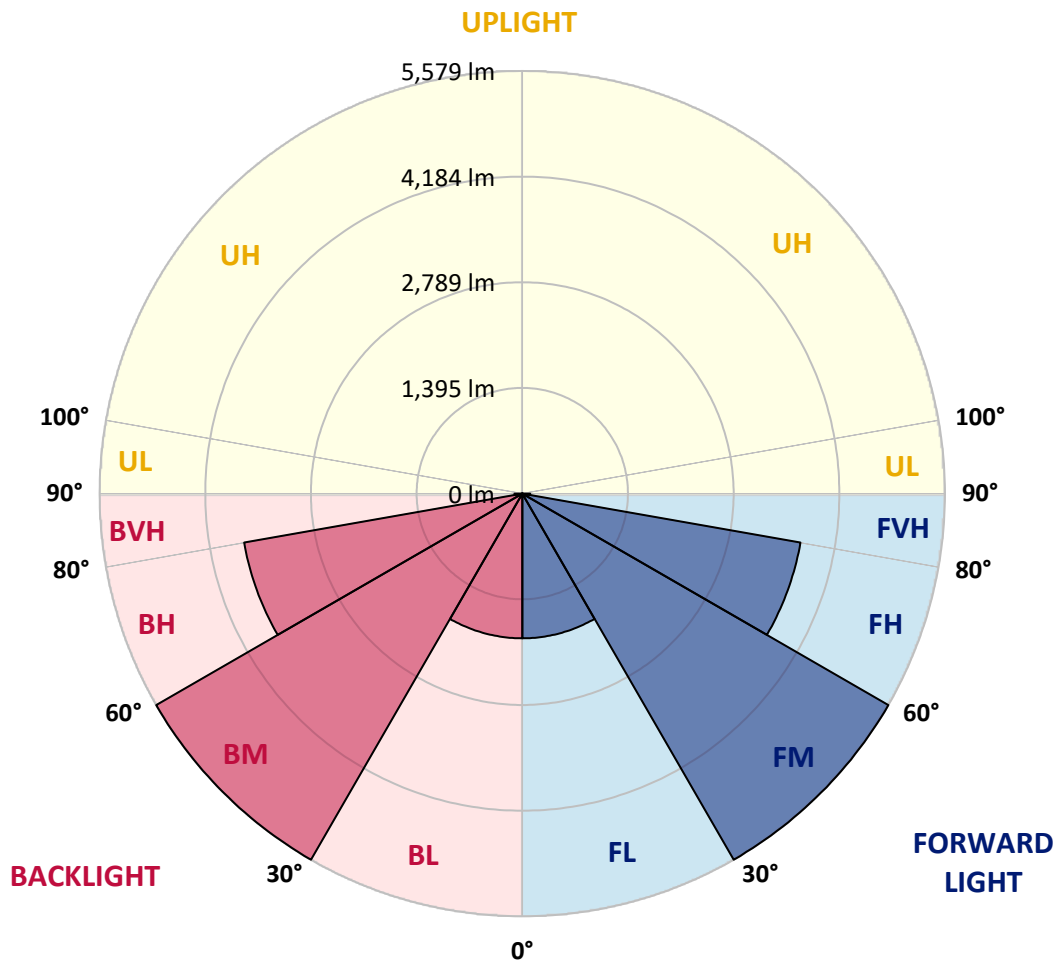
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.9	8.4			
FM (30°-60°)	5578.9	24.6			
FH (60°-80°)	3727.3	16.5			G2/5000
FVH (80°-90°)	104.5	0.5			G2/225
BL (0°-30°)	1908.9	8.4	B3/2500		
BM (30°-60°)	5578.9	24.6	B4/8500		
BH (60°-80°)	3727.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	104.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8
2.5°	4059.2	4056.7	4058.0	4056.7	4060.5	4058.0	4042.9	4030.4	4020.3	4021.6	4017.8
5°	4145.7	4147.0	4148.2	4141.9	4150.7	4145.7	4121.9	4101.8	4081.8	4074.2	4071.7
7.5°	4217.2	4223.4	4227.2	4233.5	4248.5	4248.5	4236.0	4207.1	4163.3	4138.2	4136.9
10°	4288.6	4293.6	4304.9	4325.0	4350.0	4373.9	4368.8	4330.0	4273.6	4231.0	4220.9
12.5°	4313.7	4320.0	4357.6	4415.2	4471.6	4518.0	4518.0	4486.7	4414.0	4348.8	4330.0
15°	4225.9	4237.2	4304.9	4427.8	4575.7	4677.2	4699.8	4655.9	4578.2	4477.9	4455.3
17.5°	4051.7	4079.3	4178.3	4360.1	4605.8	4816.4	4881.6	4860.3	4760.0	4632.1	4605.8
20°	3864.9	3895.0	4000.3	4241.0	4580.7	4897.9	5087.2	5092.2	4968.1	4782.5	4743.7
22.5°	3659.3	3681.9	3817.3	4099.3	4505.5	4916.7	5263.9	5350.4	5182.4	4933.0	4877.8
25°	3428.6	3453.7	3595.4	3900.0	4363.8	4895.4	5425.6	5616.2	5406.8	5093.4	5023.2
27.5°	3208.0	3218.0	3369.7	3679.4	4177.0	4840.2	5544.7	5860.7	5655.1	5226.3	5137.3
30°	2996.1	3020.0	3154.1	3460.0	3962.7	4732.4	5647.5	6139.0	5922.1	5365.5	5251.4
32.5°	2771.7	2800.6	2946.0	3255.6	3748.3	4570.7	5710.2	6443.6	6294.4	5591.1	5469.5
35°	2556.1	2574.9	2721.6	3022.5	3539.0	4382.6	5721.5	6787.1	6774.5	5933.4	5771.6
37.5°	2335.5	2363.1	2511.0	2799.3	3317.1	4183.3	5665.1	7151.9	7353.7	6408.5	6234.2
40°	2123.6	2147.4	2292.9	2583.7	3065.1	3940.1	5531.0	7485.3	8029.4	6897.4	6650.4
42.5°	1893.0	1899.2	2058.4	2354.3	2818.1	3658.0	5337.9	7782.4	8782.8	7553.0	7245.9
45°	1631.0	1647.3	1795.2	2086.0	2534.8	3342.1	5075.9	8028.2	9738.1	8461.9	8043.2
47.5°	1368.9	1382.7	1518.1	1805.2	2225.2	2979.8	4672.2	8243.8	10718.4	9616.5	9067.4
50°	1113.2	1120.7	1231.1	1485.5	1876.7	2598.7	4172.0	8312.7	11826.6	11251.2	10550.4
52.5°	880.0	891.3	975.3	1174.6	1504.3	2148.7	3631.7	8142.2	13120.3	13189.3	12201.4
55°	713.3	717.1	779.7	926.4	1175.9	1677.3	2979.8	7667.1	14511.8	15672.7	14412.8
57.5°	614.3	616.8	651.9	733.4	905.1	1264.9	2311.7	6768.3	15761.7	18582.3	16962.7
60°	557.9	559.1	579.2	626.8	717.1	970.3	1656.0	5499.6	16995.3	21820.4	20131.8
62.5°	522.8	522.8	536.5	562.9	606.7	744.6	1199.7	3967.7	17840.2	25106.2	24038.1
65°	488.9	488.9	498.9	517.7	541.6	609.3	886.3	2587.5	17818.9	27499.3	27966.9
67.5°	450.0	450.0	457.6	476.4	490.2	524.0	684.5	1694.9	16006.2	27446.7	30110.6
70°	403.7	403.7	413.7	430.0	441.3	462.6	540.3	1159.6	11758.9	23435.1	26778.5
72.5°	357.3	358.5	364.8	381.1	389.9	402.4	448.8	812.3	7213.3	15957.3	18724.0
75°	305.9	308.4	314.7	331.0	338.5	343.5	378.6	579.2	3649.3	8603.6	9795.7
77.5°	247.0	252.0	255.7	273.3	278.3	285.8	312.2	418.7	1602.1	3091.4	3119.0
80°	180.5	186.8	198.1	214.4	218.1	223.1	238.2	297.1	725.8	1411.6	1533.2
82.5°	132.9	141.7	127.9	149.2	149.2	142.9	168.0	199.3	333.5	1397.8	1672.3
85°	72.7	74.0	66.4	76.5	81.5	80.2	89.0	97.8	161.7	932.7	961.5
87.5°	17.6	18.8	20.1	23.8	28.8	28.8	31.3	27.6	52.7	302.1	173.0
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)