

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: P531654

Luminaire Tested: **GALN-SA7A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23513 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

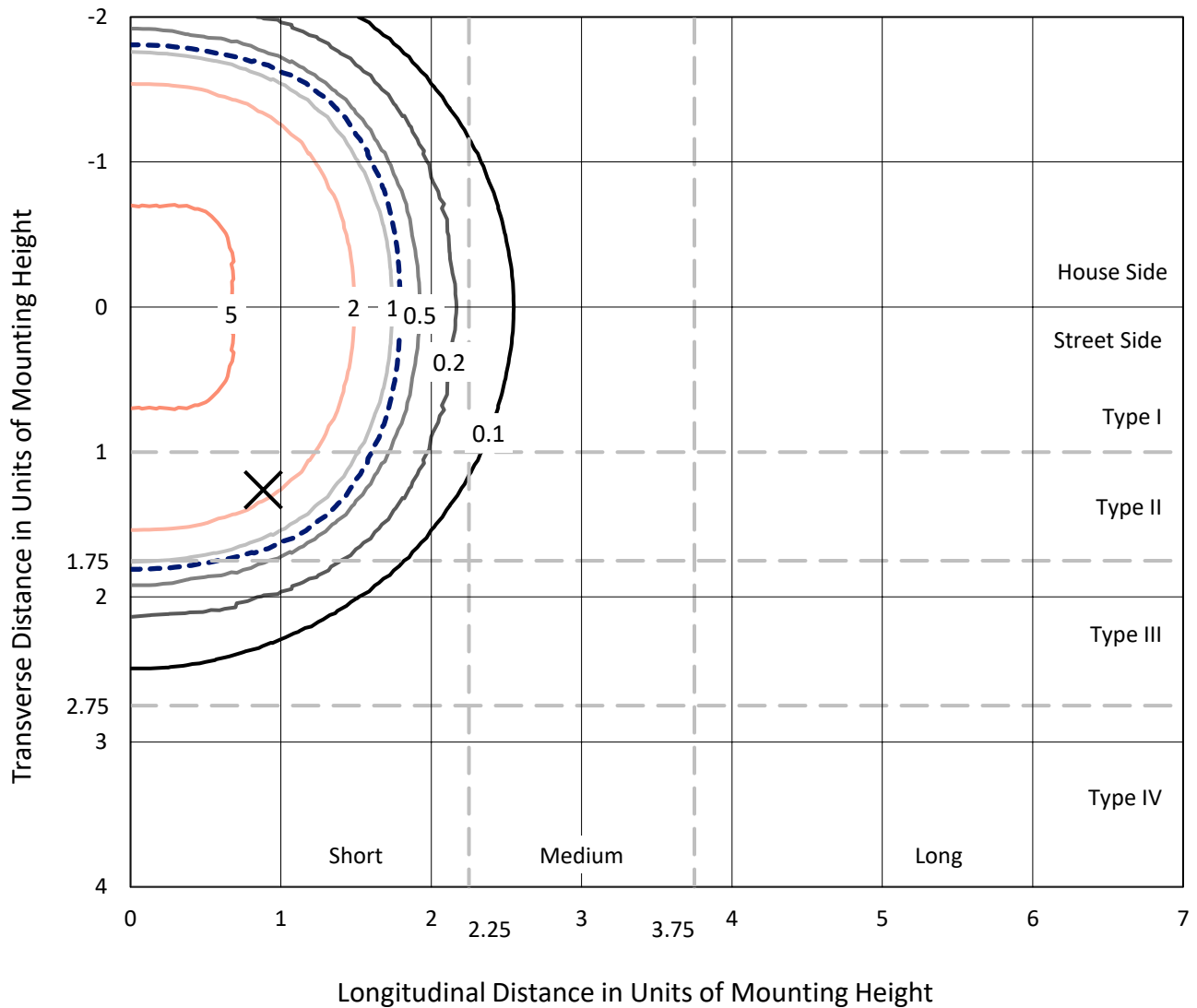
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

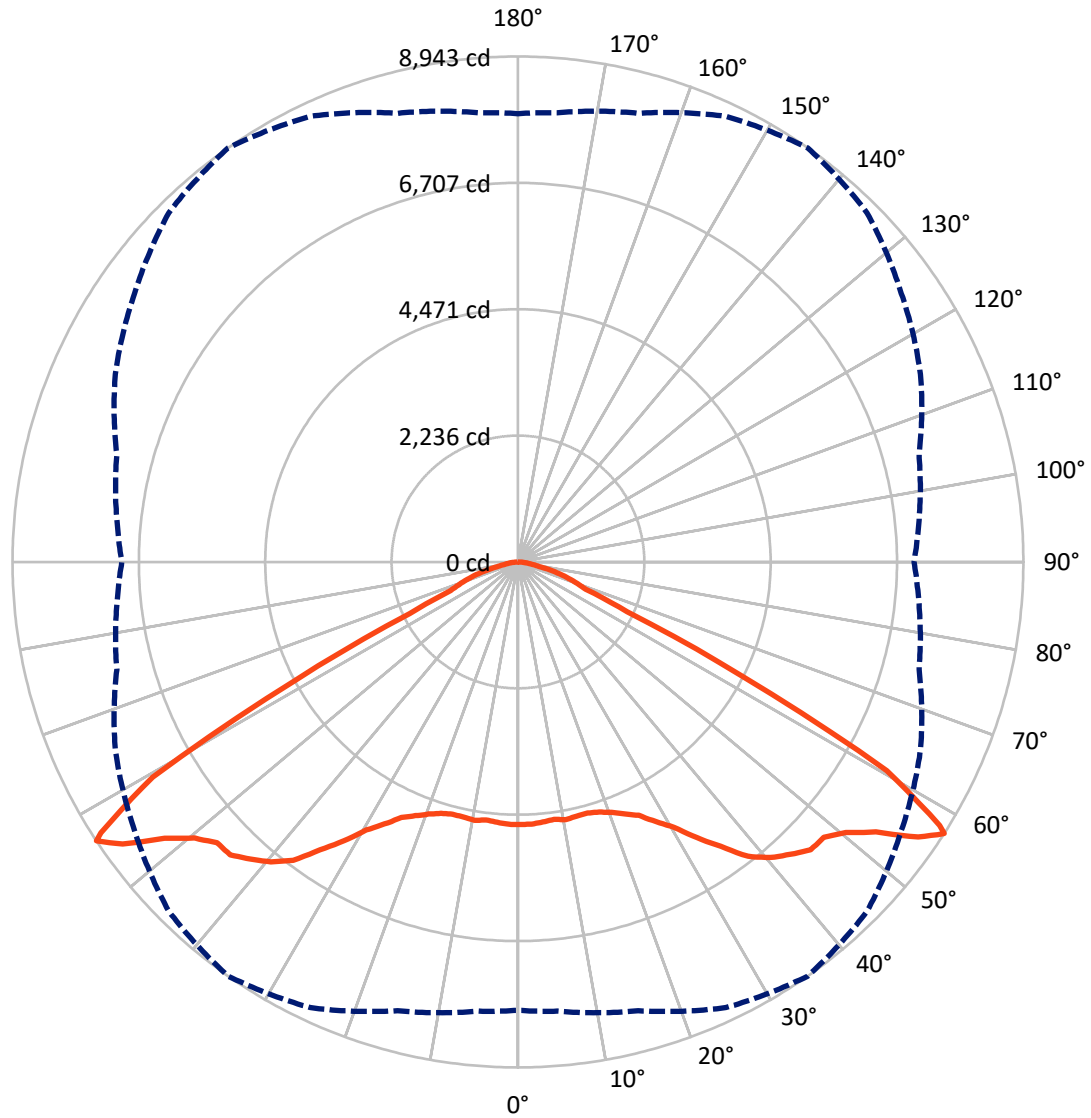
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11756.5	0.0	11756.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11756.5	0.0	11756.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23513.0	0.0	23513.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.2	1.9
10°-20°	1303.9	5.5
20°-30°	2277.2	9.7
30°-40°	3731.2	15.9
40°-50°	5470.8	23.3
50°-60°	6890.9	29.3
60°-70°	2591.6	11.0
70°-80°	689.1	2.9
80°-90°	118.2	0.5
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°	23513.0	100.0
0°-180°	23513.0	100.0



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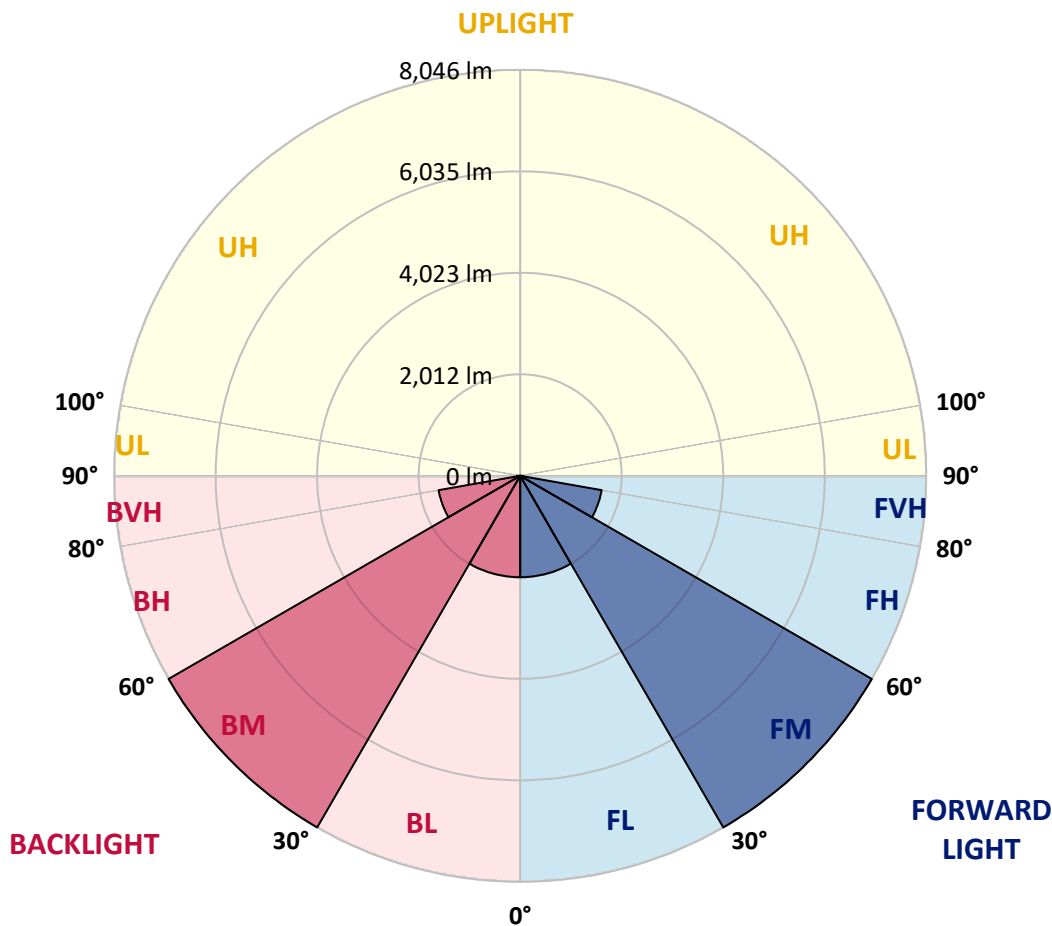
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.6	8.6			
FM (30°-60°)	8046.5	34.2			
FH (60°-80°)	1640.3	7.0			G1/1800
FVH (80°-90°)	59.1	0.3			G1/100
BL (0°-30°)	2010.6	8.6	B3/2500		
BM (30°-60°)	8046.5	34.2	B4/8500		
BH (60°-80°)	1640.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	59.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	4620.5	4666.8	4646.5	4635.0	4643.6	4629.2	4606.0	4632.1	4626.3	4603.1	4594.4
5°	4608.9	4643.6	4620.5	4643.6	4620.5	4661.0	4649.4	4606.0	4658.1	4608.9	4626.3
7.5°	4600.2	4611.8	4617.6	4606.0	4597.3	4646.5	4620.5	4600.2	4571.2	4562.5	4577.0
10°	4579.9	4608.9	4565.4	4623.4	4635.0	4600.2	4600.2	4562.5	4539.4	4524.9	4574.1
12.5°	4632.1	4582.8	4577.0	4606.0	4614.7	4629.2	4588.6	4568.3	4524.9	4530.7	4522.0
15°	4571.2	4591.5	4594.4	4600.2	4608.9	4643.6	4606.0	4562.5	4545.2	4484.3	4490.1
17.5°	4594.4	4574.1	4594.4	4661.0	4649.4	4675.5	4635.0	4568.3	4527.8	4493.0	4539.4
20°	4635.0	4626.3	4635.0	4716.1	4730.5	4753.7	4719.0	4658.1	4579.9	4539.4	4562.5
22.5°	4678.4	4672.6	4678.4	4756.6	4840.6	4869.6	4834.8	4692.9	4652.3	4577.0	4550.9
25°	4756.6	4762.4	4823.2	4910.2	4965.2	5020.2	4956.5	4855.1	4724.8	4678.4	4623.4
27.5°	4930.4	4944.9	4979.7	5107.1	5202.7	5252.0	5162.2	5023.1	4942.0	4846.4	4831.9
30°	5144.8	5144.8	5205.6	5315.7	5446.1	5521.4	5411.3	5246.2	5147.7	5095.6	5063.7
32.5°	5428.7	5396.8	5420.0	5614.1	5816.9	5880.6	5732.9	5530.1	5373.6	5304.1	5281.0
35°	5672.0	5692.3	5744.4	5953.0	6179.0	6326.7	6095.0	5831.4	5672.0	5608.3	5596.7
37.5°	5987.8	6022.5	6048.6	6335.4	6607.7	6662.7	6439.7	6228.2	6034.1	5982.0	5953.0
40°	6433.9	6410.7	6419.4	6630.9	6877.1	6911.9	6691.7	6541.1	6381.8	6349.9	6349.9
42.5°	6801.8	6775.7	6804.7	6882.9	7071.2	7045.1	6923.5	6813.4	6746.8	6712.0	6746.8
45°	7024.9	7019.1	7071.2	7129.1	7262.4	7175.5	7079.9	7097.3	7033.5	6975.6	6972.7
47.5°	7268.2	7230.5	7294.3	7381.2	7279.8	7239.2	7233.4	7271.1	7250.8	7149.4	7117.6
50°	7387.0	7372.5	7473.9	7575.3	7520.2	7427.5	7447.8	7508.6	7247.9	7111.8	7033.5
52.5°	7705.6	7708.5	7902.6	7957.6	7934.5	7798.3	7841.8	7676.6	7369.6	7178.4	7187.1
55°	8206.8	8186.5	8403.8	8566.0	8592.0	8418.2	8209.7	7977.9	7592.6	7398.5	7340.6
57°	7931.6	7977.9	8218.4	8699.2	8942.6	8736.9	8282.1	7859.1	7346.4	7111.8	7007.5
57.5°	7563.7	7639.0	8056.1	8539.9	8794.8	8777.4	8192.3	7639.0	7181.3	6816.3	6825.0
60°	5541.7	5556.2	5932.7	6700.4	7497.0	7514.4	6801.8	6068.9	5559.0	5162.2	5217.2
62.5°	2922.9	2989.5	3140.2	3757.2	4446.7	4614.7	4183.0	3806.5	3366.1	3064.9	3093.8
65°	1546.9	1538.2	1610.6	1784.5	2123.4	2210.3	2152.4	1854.0	1700.4	1651.2	1654.1
67.5°	1257.2	1271.7	1263.0	1271.7	1294.9	1332.5	1323.9	1335.4	1344.1	1358.6	1355.7
70°	1066.0	1066.0	1071.8	1074.7	1074.7	1092.1	1112.4	1150.0	1152.9	1167.4	1173.2
72.5°	840.1	834.3	843.0	863.3	866.2	880.6	909.6	932.8	941.5	941.5	924.1
75°	570.7	576.5	588.1	605.4	622.8	648.9	672.1	686.6	692.3	683.7	675.0
77.5°	321.5	327.3	336.0	362.1	382.4	405.6	431.6	446.1	460.6	463.5	446.1
80°	191.2	191.2	205.7	226.0	249.1	272.3	295.5	312.9	318.7	318.7	310.0
82.5°	115.9	118.8	130.4	150.6	170.9	185.4	205.7	220.2	231.7	228.9	223.1
85°	60.8	60.8	72.4	89.8	104.3	118.8	118.8	110.1	104.3	89.8	84.0
87.5°	20.3	17.4	23.2	23.2	20.3	23.2	23.2	26.1	26.1	26.1	26.1
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)