

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: P531814

Luminaire Tested: **GALN-SA7A-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531814
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-SA7A-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 19865 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

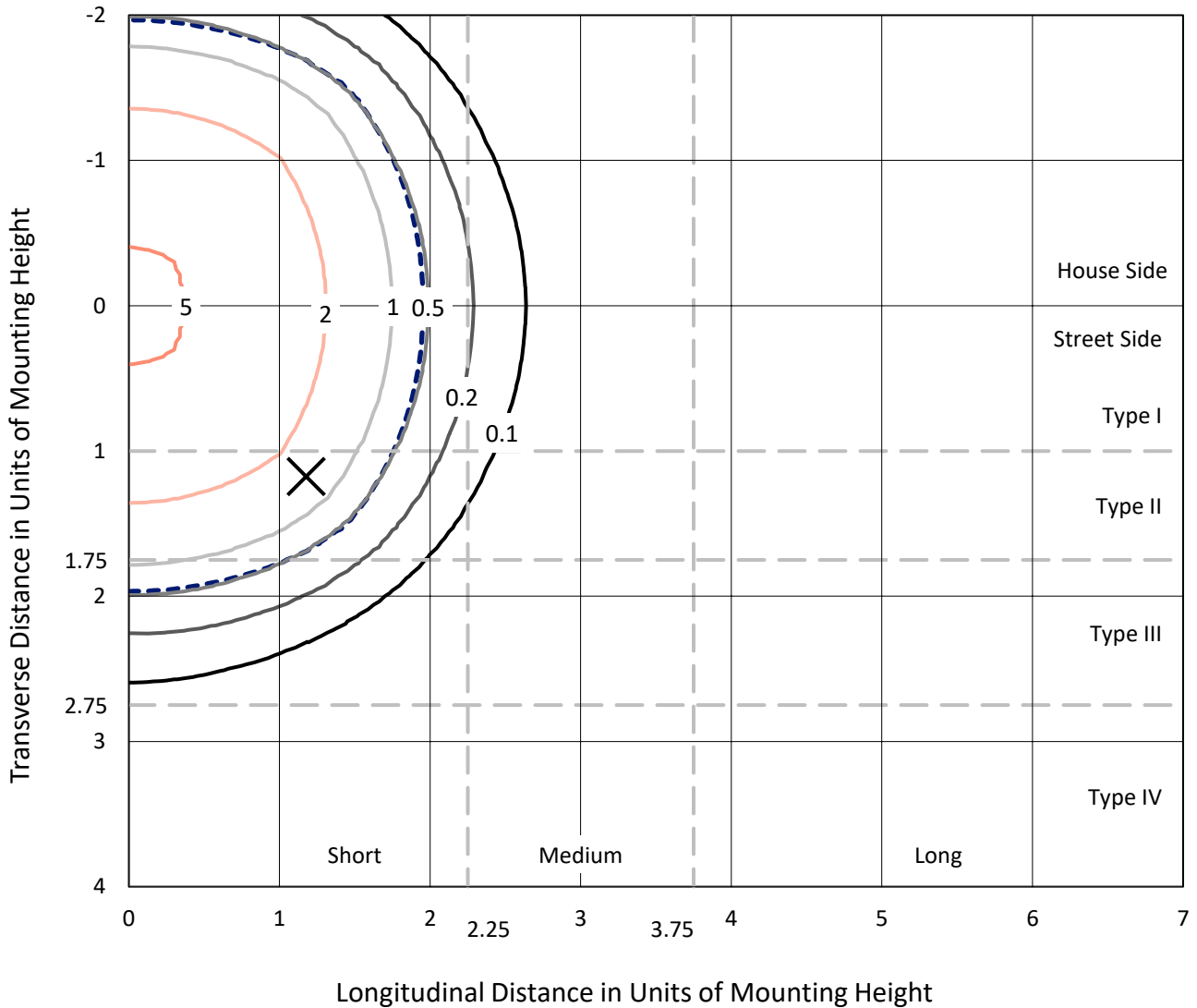
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

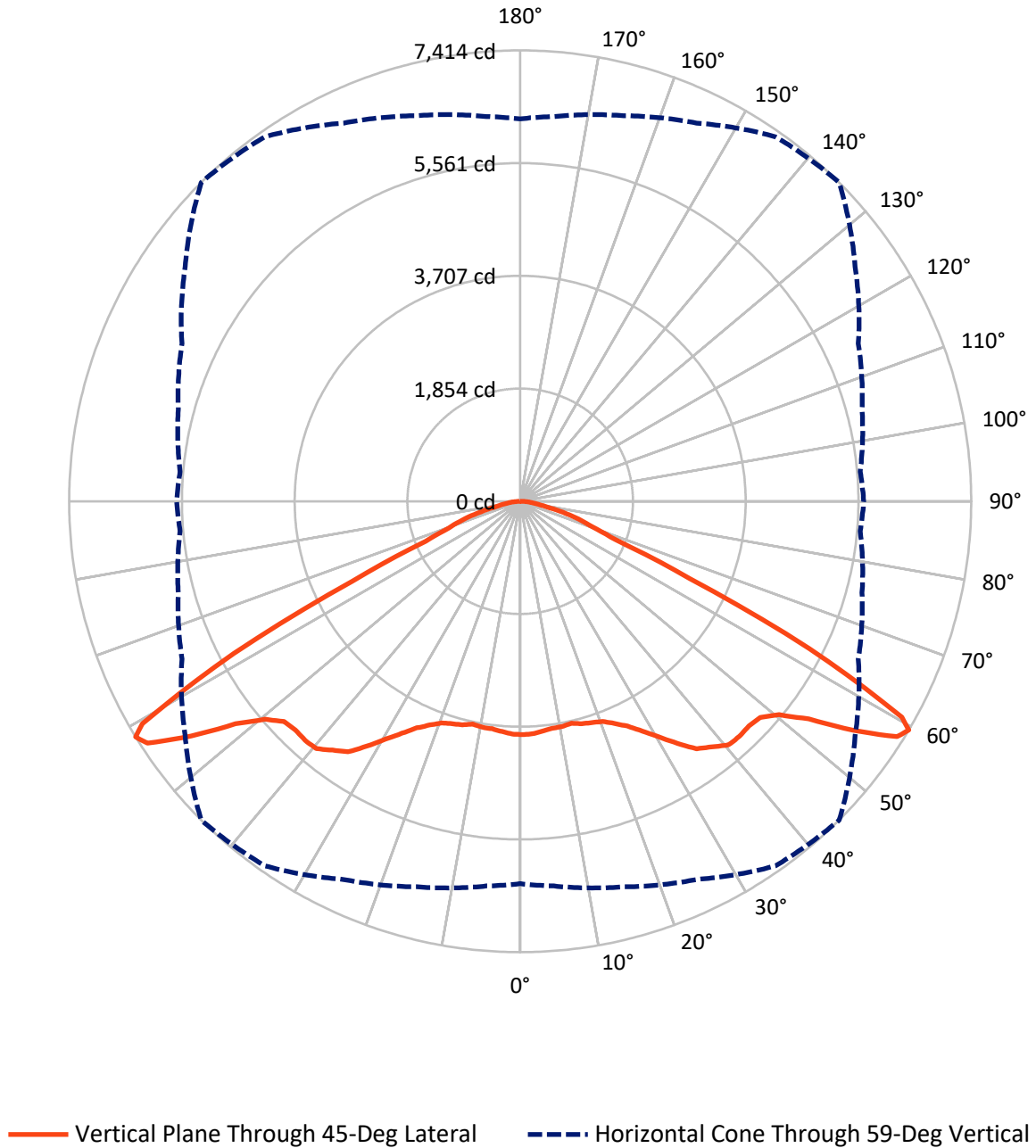
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	9932.5	0.0	9932.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9932.5	0.0	9932.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19865.0	0.0	19865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.7	1.8
10°-20°	1075.6	5.4
20°-30°	1878.2	9.5
30°-40°	2999.7	15.1
40°-50°	4086.3	20.6
50°-60°	5525.7	27.8
60°-70°	3030.3	15.3
70°-80°	775.2	3.9
80°-90°	132.2	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°	19865.0	100.0
0°-180°	19865.0	100.0

Coefficient of Utilization



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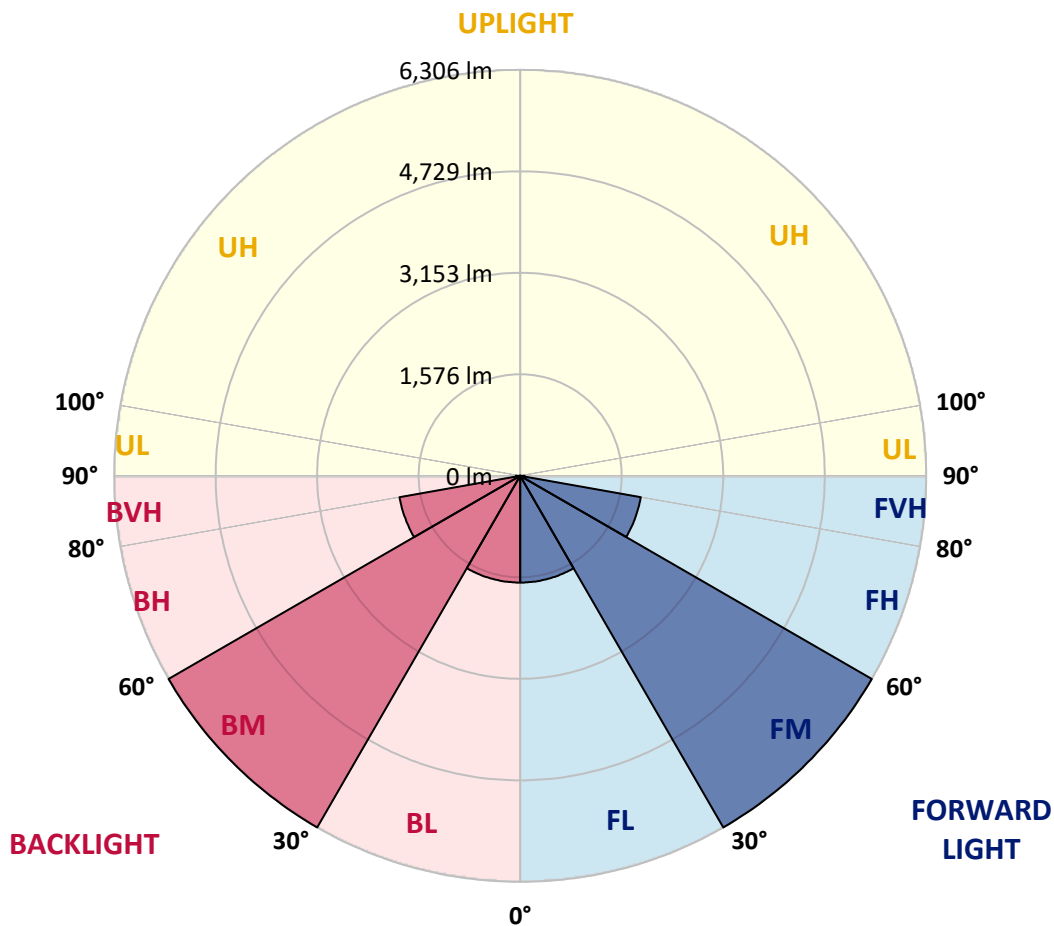
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.8	8.3			
FM (30°-60°)	6305.8	31.7			
FH (60°-80°)	1902.8	9.6			G2/5000
FVH (80°-90°)	66.1	0.3			G1/100
BL (0°-30°)	1657.8	8.3	B3/2500		
BM (30°-60°)	6305.8	31.7	B4/8500		
BH (60°-80°)	1902.8	9.6	B3/2500		G2/5000
BVH (80°-90°)	66.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0
2.5°	3814.1	3842.1	3821.7	3839.5	3837.0	3829.3	3816.6	3809.0	3798.8	3814.1	3788.6
5°	3798.8	3821.7	3844.6	3814.1	3814.1	3798.8	3791.1	3775.9	3775.9	3773.3	3770.8
7.5°	3824.2	3801.3	3791.1	3796.2	3801.3	3768.2	3791.1	3760.6	3735.1	3752.9	3773.3
10°	3801.3	3811.5	3773.3	3791.1	3763.1	3768.2	3752.9	3773.3	3745.3	3745.3	3745.3
12.5°	3824.2	3796.2	3809.0	3796.2	3788.6	3745.3	3765.7	3742.8	3740.2	3765.7	3742.8
15°	3870.1	3824.2	3814.1	3788.6	3796.2	3796.2	3775.9	3778.4	3750.4	3765.7	3770.8
17.5°	3854.8	3829.3	3821.7	3791.1	3816.6	3824.2	3786.0	3760.6	3778.4	3775.9	3773.3
20°	3867.5	3877.7	3870.1	3875.2	3885.3	3865.0	3829.3	3793.7	3770.8	3803.9	3801.3
22.5°	3949.0	3938.8	3933.7	3928.6	3946.5	3966.8	3918.4	3862.4	3862.4	3885.3	3895.5
25°	4015.2	4012.6	4010.1	4033.0	4094.1	4094.1	4033.0	3961.7	3943.9	3959.2	3946.5
27.5°	4111.9	4140.0	4129.8	4170.5	4259.6	4280.0	4198.5	4114.5	4066.1	4048.3	4071.2
30°	4333.5	4300.4	4308.0	4351.3	4430.2	4496.4	4371.6	4282.5	4216.3	4213.8	4224.0
32.5°	4481.1	4506.6	4529.5	4570.2	4695.0	4745.9	4595.7	4450.6	4409.8	4386.9	4394.6
35°	4776.5	4753.6	4748.5	4789.2	4914.0	4998.0	4809.6	4682.3	4628.8	4679.7	4679.7
37.5°	5056.5	4992.9	4944.5	4998.0	5112.6	5122.7	4962.3	4893.6	4865.6	4924.2	4921.6
40°	5188.9	5183.9	5071.8	5102.4	5255.1	5270.4	5120.2	5038.7	5033.6	5110.0	5186.4
42.5°	5326.4	5278.1	5166.0	5186.4	5280.6	5285.7	5143.1	5120.2	5176.2	5250.1	5255.1
45°	5349.3	5308.6	5237.3	5186.4	5255.1	5270.4	5186.4	5201.7	5206.8	5295.9	5295.9
47.5°	5395.2	5390.1	5349.3	5311.2	5323.9	5311.2	5257.7	5280.6	5357.0	5400.3	5379.9
50°	5522.5	5469.0	5509.8	5476.7	5479.2	5514.8	5466.5	5489.4	5474.1	5435.9	5410.5
52.5°	5802.6	5777.1	5812.7	5835.7	5861.1	5942.6	5886.6	5764.4	5649.8	5547.9	5545.4
55°	6212.5	6230.3	6299.0	6416.2	6515.5	6645.3	6375.4	6082.6	5899.3	5738.9	5749.1
57.5°	6599.5	6586.8	6681.0	6948.3	7238.6	7304.8	6775.2	6357.6	6059.7	5957.9	5914.6
59°	6288.9	6350.0	6563.8	6861.7	7317.5	7414.2	6721.7	6133.5	5817.8	5611.6	5647.2
60°	5800.0	5822.9	6013.9	6428.9	7045.1	7210.5	6362.7	5787.3	5367.2	5247.5	5301.0
62.5°	4099.2	4081.4	4218.9	4557.5	5110.0	5334.1	4730.6	4325.8	4061.0	3928.6	3959.2
65°	2179.5	2260.9	2316.9	2528.3	2821.1	3057.9	2808.3	2632.7	2485.0	2375.5	2373.0
67.5°	1471.6	1461.5	1474.2	1522.6	1621.9	1688.1	1683.0	1593.9	1581.1	1560.8	1583.7
70°	1239.9	1234.9	1211.9	1211.9	1232.3	1247.6	1265.4	1275.6	1296.0	1321.4	1318.9
72.5°	1005.7	993.0	977.7	970.1	995.5	1003.2	1026.1	1036.3	1054.1	1051.5	1074.5
75°	664.5	664.5	682.4	702.7	710.4	725.6	728.2	758.7	758.7	763.8	743.5
77.5°	371.7	361.5	374.3	394.6	412.5	440.5	468.5	491.4	504.1	499.0	499.0
80°	216.4	216.4	229.1	252.1	275.0	300.4	320.8	338.6	351.4	346.3	336.1
82.5°	134.9	134.9	147.7	170.6	188.4	203.7	231.7	254.6	269.9	264.8	252.1
85°	68.7	68.7	84.0	99.3	122.2	132.4	129.9	119.7	117.1	104.4	104.4
87.5°	17.8	17.8	25.5	28.0	22.9	25.5	25.5	25.5	25.5	25.5	28.0
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)