

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: P457775

Luminaire Tested: **GALN-SA9A-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457775
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-SA9A-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 30423 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

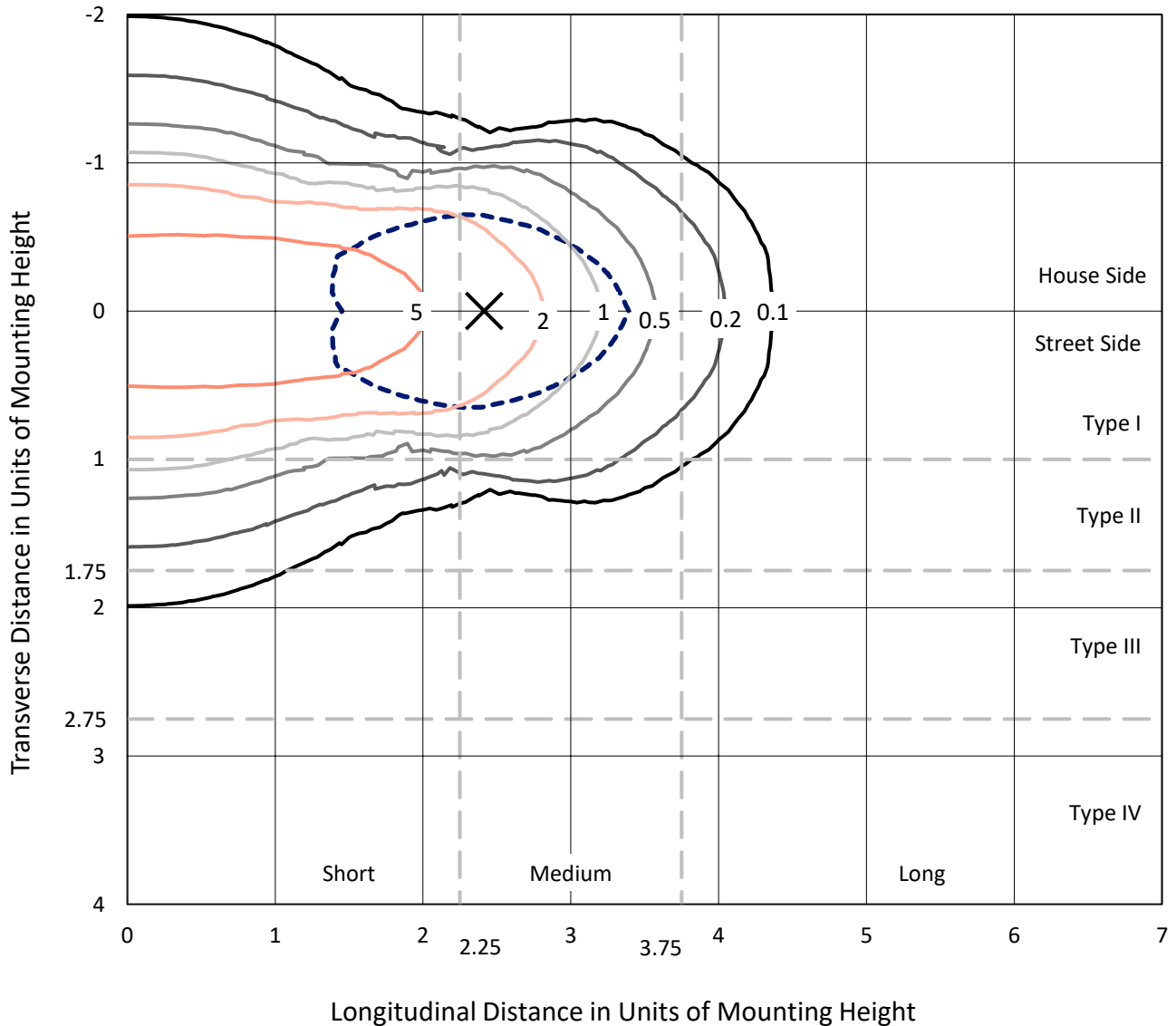
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

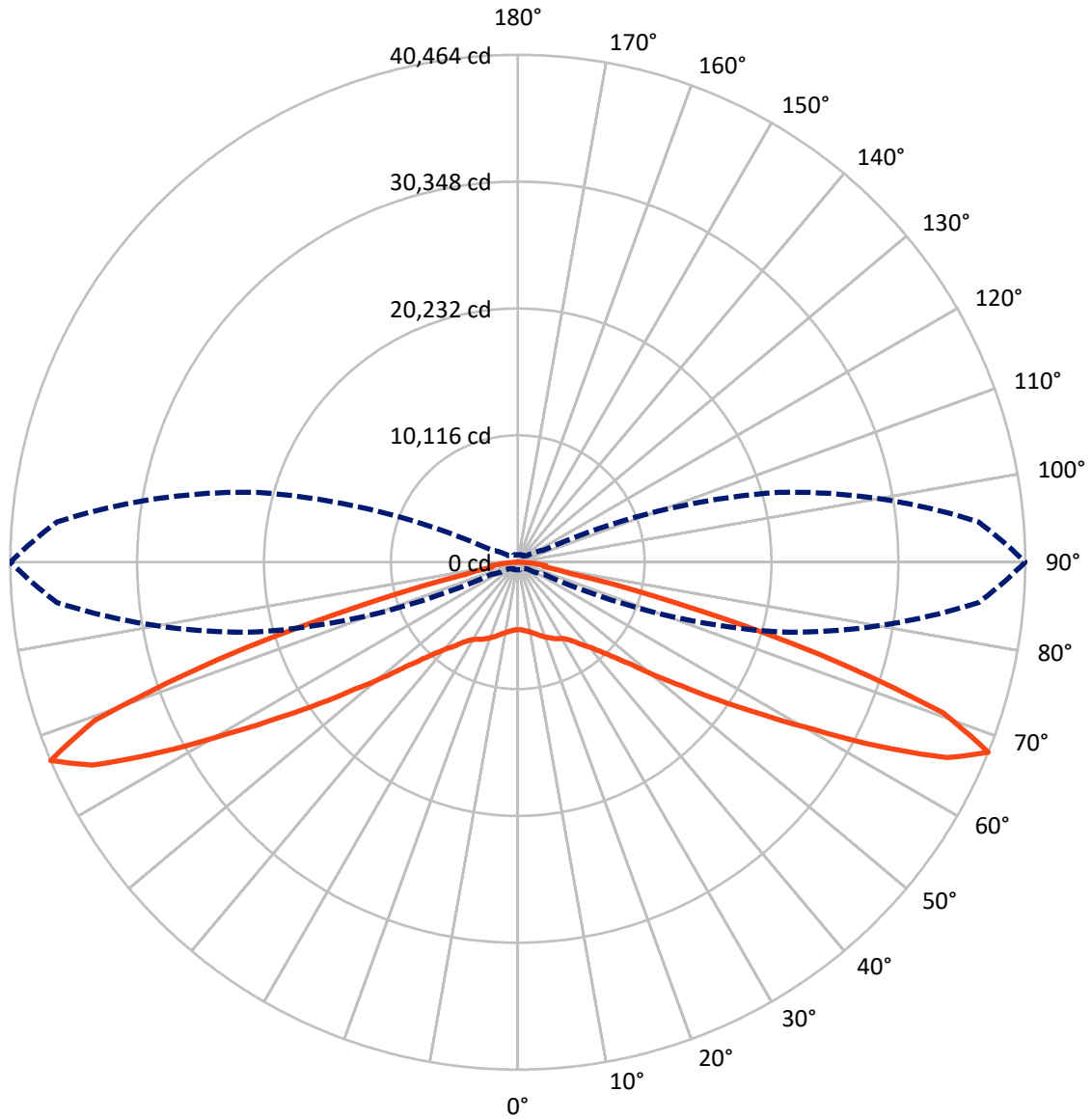
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	15211.5	0.0	15211.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15211.5	0.0	15211.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30423.0	0.0	30423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.0	1.8
10°-20°	1718.0	5.6
20°-30°	2875.5	9.5
30°-40°	3895.5	12.8
40°-50°	4934.3	16.2
50°-60°	6164.2	20.3
60°-70°	7245.8	23.8
70°-80°	2771.8	9.1
80°-90°	280.8	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°	30423.0	100.0
0°-180°	30423.0	100.0

Coefficient of Utilization



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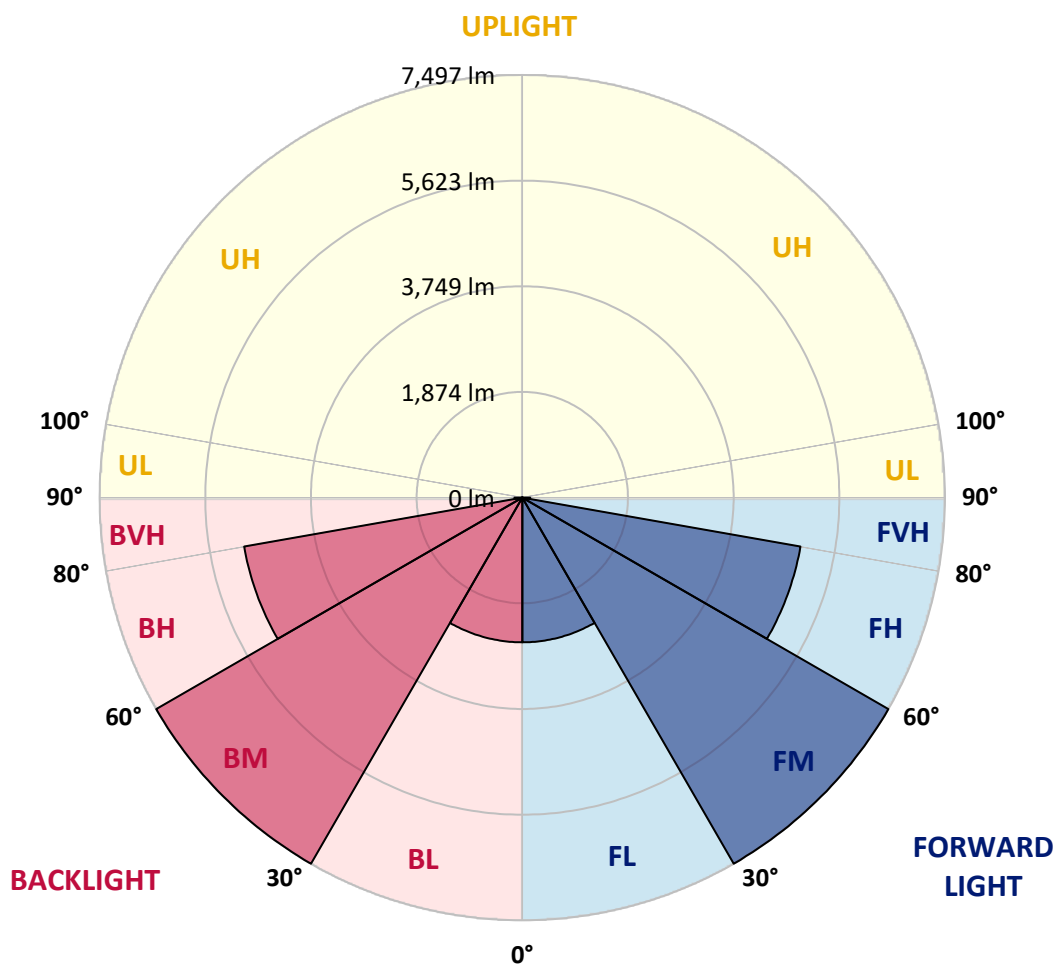
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2565.2	8.4			
FM (30°-60°)	7497.1	24.6			
FH (60°-80°)	5008.8	16.5			G3/7500
FVH (80°-90°)	140.4	0.5			G2/225
BL (0°-30°)	2565.2	8.4	B4/5000		
BM (30°-60°)	7497.1	24.6	B4/8500		
BH (60°-80°)	5008.8	16.5	B5		G5
BVH (80°-90°)	140.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5385.8	5385.8	5385.8	5385.8	5385.8	5385.8	5385.8	5385.8	5385.8	5385.8	5385.8
2.5°	5454.9	5451.5	5453.2	5451.5	5456.6	5453.2	5433.0	5416.1	5402.7	5404.3	5399.3
5°	5571.1	5572.8	5574.5	5566.1	5577.9	5571.1	5539.1	5512.2	5485.2	5475.1	5471.7
7.5°	5667.2	5675.6	5680.6	5689.1	5709.3	5709.3	5692.4	5653.7	5594.7	5561.0	5559.3
10°	5763.2	5769.9	5785.1	5812.0	5845.7	5877.7	5871.0	5818.8	5743.0	5685.7	5672.2
12.5°	5796.9	5805.3	5855.8	5933.3	6009.1	6071.5	6071.5	6029.4	5931.6	5844.0	5818.8
15°	5678.9	5694.1	5785.1	5950.2	6149.0	6285.4	6315.7	6256.8	6152.3	6017.6	5987.2
17.5°	5444.8	5481.8	5614.9	5859.2	6189.4	6472.4	6560.0	6531.4	6396.6	6224.8	6189.4
20°	5193.8	5234.2	5375.7	5699.2	6155.7	6581.9	6836.3	6843.0	6676.3	6426.9	6374.7
22.5°	4917.5	4947.8	5129.8	5508.8	6054.6	6607.2	7073.8	7190.1	6964.3	6629.1	6555.0
25°	4607.5	4641.2	4831.6	5240.9	5864.3	6578.5	7291.2	7547.2	7265.9	6844.7	6750.4
27.5°	4311.0	4324.5	4528.3	4944.4	5613.2	6504.4	7451.2	7875.7	7599.4	7023.3	6903.7
30°	4026.3	4058.3	4238.6	4649.6	5325.2	6359.5	7589.3	8249.7	7958.3	7210.3	7057.0
32.5°	3724.8	3763.5	3958.9	4375.0	5037.1	6142.2	7673.6	8659.1	8458.6	7513.5	7350.1
35°	3435.0	3460.3	3657.4	4061.7	4755.8	5889.5	7688.7	9120.7	9103.8	7973.4	7756.1
37.5°	3138.5	3175.6	3374.3	3761.8	4457.6	5621.7	7612.9	9610.9	9882.1	8611.9	8377.8
40°	2853.8	2885.8	3081.2	3472.1	4119.0	5294.8	7432.7	10059.0	10790.2	9268.9	8937.1
42.5°	2543.8	2552.2	2766.2	3163.8	3787.1	4915.8	7173.2	10458.3	11802.6	10150.0	9737.3
45°	2191.7	2213.6	2412.4	2803.3	3406.4	4491.3	6821.1	10788.5	13086.3	11371.4	10808.7
47.5°	1839.6	1858.2	2040.1	2425.9	2990.2	4004.4	6278.7	11078.2	14403.7	12922.9	12185.1
50°	1496.0	1506.1	1654.3	1996.3	2521.9	3492.3	5606.5	11170.9	15893.0	15119.7	14178.0
52.5°	1182.6	1197.8	1310.7	1578.5	2021.6	2887.5	4880.4	10941.8	17631.5	17724.2	16396.7
55°	958.6	963.6	1047.9	1245.0	1580.2	2254.1	4004.4	10303.3	19501.5	21061.5	19368.4
57.5°	825.5	828.8	876.0	985.5	1216.3	1699.8	3106.5	9095.4	21181.1	24971.5	22795.0
60°	749.7	751.4	778.3	842.3	963.6	1303.9	2225.4	7390.5	22838.8	29323.0	27053.8
62.5°	702.5	702.5	721.0	756.4	815.4	1000.7	1612.2	5331.9	23974.2	33738.4	32303.1
65°	657.0	657.0	670.5	695.8	727.8	818.7	1191.0	3477.1	23945.6	36954.4	37582.8
67.5°	604.8	604.8	614.9	640.2	658.7	704.2	919.8	2277.6	21509.6	36883.7	40463.5
70°	542.5	542.5	555.9	577.8	593.0	621.6	726.1	1558.3	15802.0	31492.8	35985.8
72.5°	480.1	481.8	490.2	512.1	523.9	540.8	603.1	1091.7	9693.5	21443.9	25161.9
75°	411.1	414.4	422.8	444.7	454.9	461.6	508.8	778.3	4904.0	11561.7	13163.8
77.5°	331.9	338.6	343.7	367.3	374.0	384.1	419.5	562.7	2153.0	4154.3	4191.4
80°	242.6	251.0	266.2	288.1	293.1	299.9	320.1	399.3	975.4	1896.9	2060.3
82.5°	178.6	190.4	171.8	200.5	200.5	192.0	225.7	267.9	448.1	1878.4	2247.3
85°	97.7	99.4	89.3	102.8	109.5	107.8	119.6	131.4	217.3	1253.4	1292.1
87.5°	23.6	25.3	27.0	32.0	38.7	38.7	42.1	37.1	70.8	406.0	232.5
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)