

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: P453599

Luminaire Tested: **GALN-SA4C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453599
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-SA4C-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20409 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

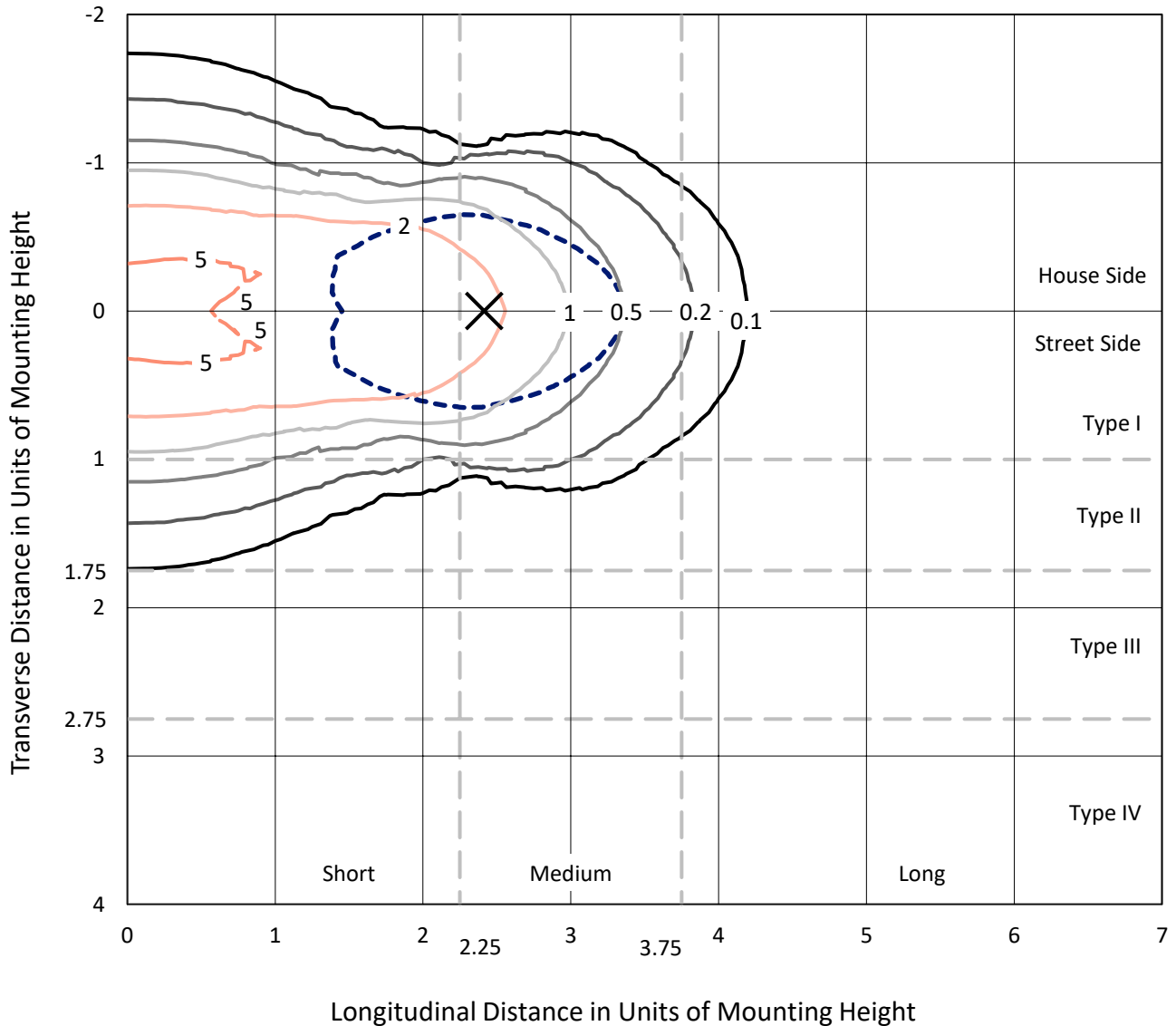
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453599
 CATALOG NUMBER: GALN-SA4C-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

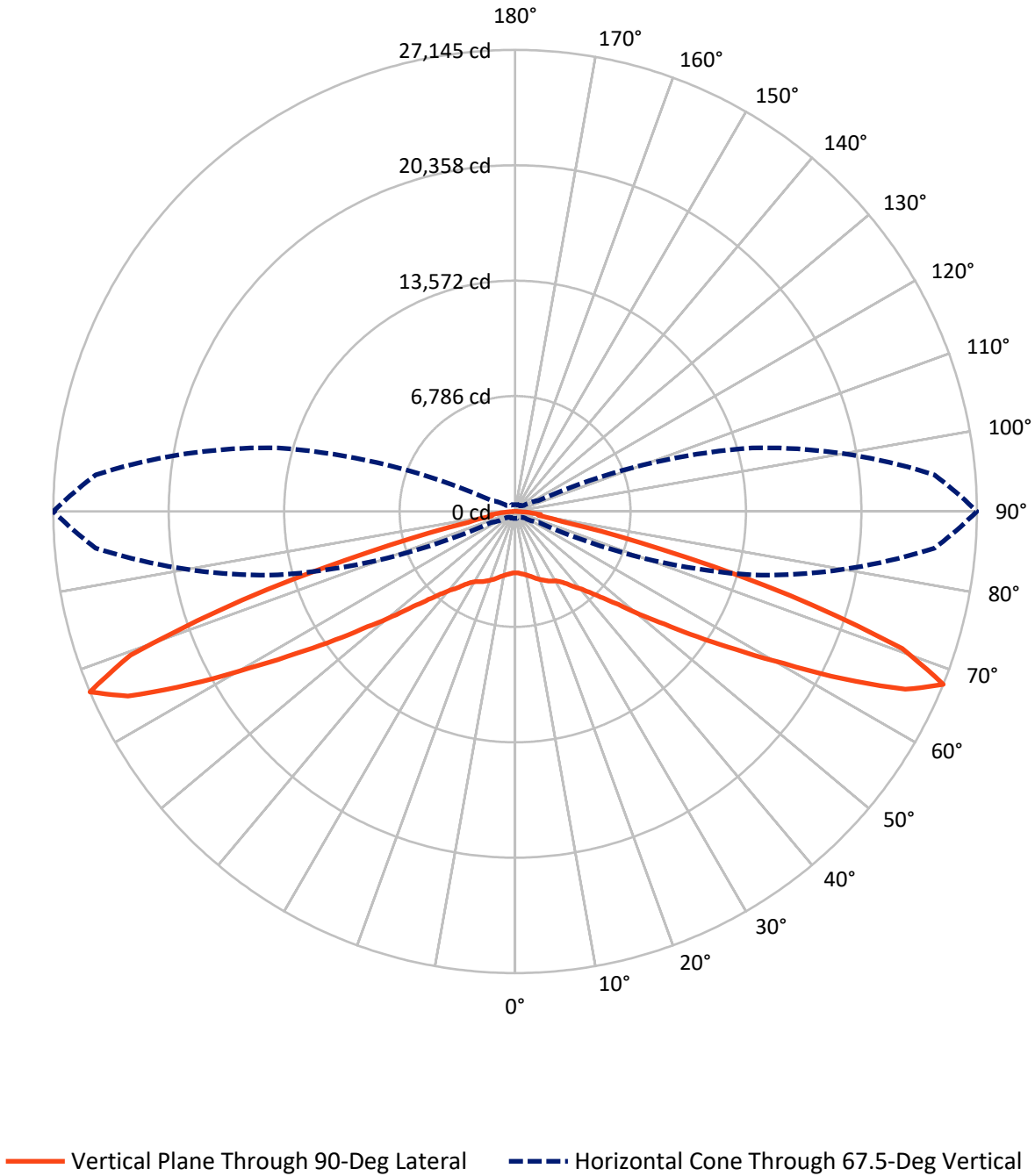
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type I - Short - N/A

REPORT NUMBER: P453599
CATALOG NUMBER: GALN-SA4C-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P453599

CATALOG NUMBER: GALN-SA4C-827-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10204.5	0.0	10204.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10204.5	0.0	10204.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20409.0	0.0	20409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.2	1.8
10°-20°	1152.5	5.6
20°-30°	1929.0	9.5
30°-40°	2613.3	12.8
40°-50°	3310.2	16.2
50°-60°	4135.2	20.3
60°-70°	4860.8	23.8
70°-80°	1859.5	9.1
80°-90°	188.4	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°	20409.0	100.0
0°-180°	20409.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453599

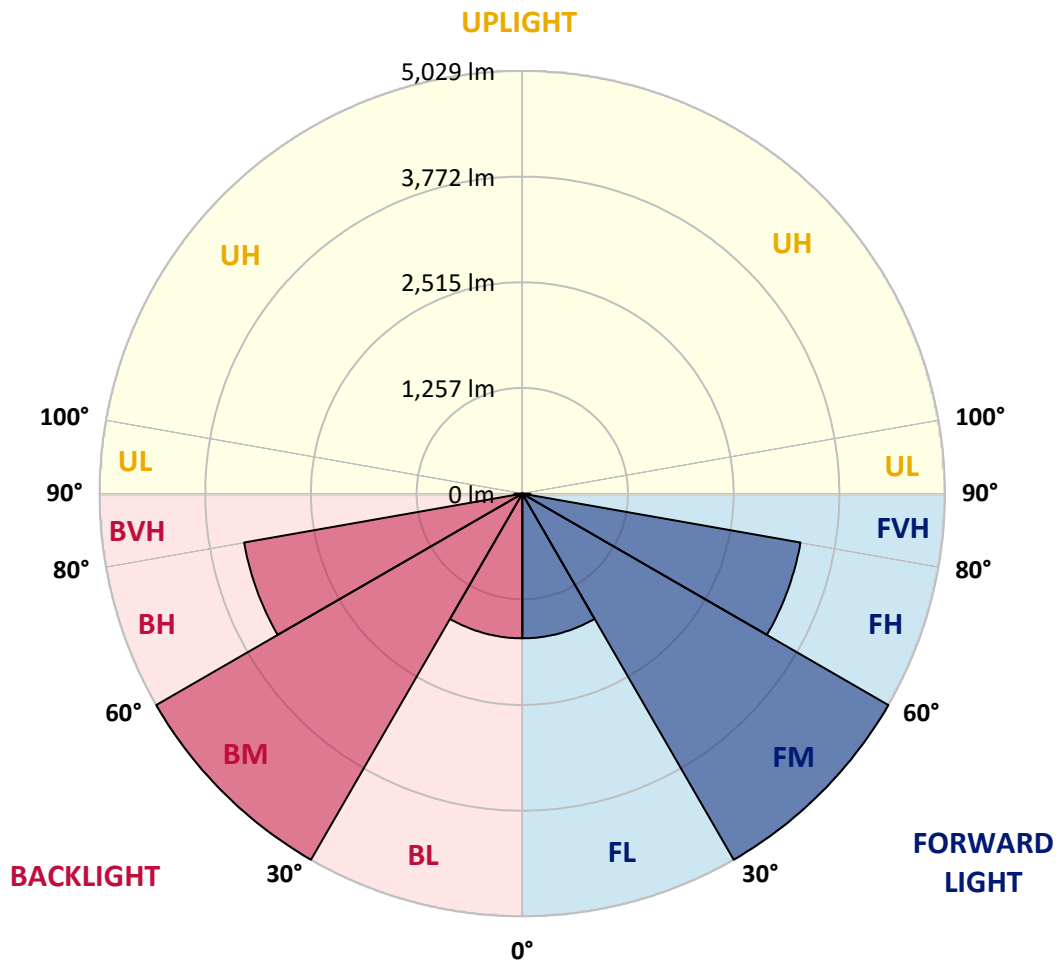
CATALOG NUMBER: GALN-SA4C-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.9	8.4			
FM (30°-60°)	5029.3	24.6			
FH (60°-80°)	3360.1	16.5			G2/5000
FVH (80°-90°)	94.2	0.5			G1/100
BL (0°-30°)	1720.9	8.4	B3/2500		
BM (30°-60°)	5029.3	24.6	B4/8500		
BH (60°-80°)	3360.1	16.5	B4/5000		G4/5000
BVH (80°-90°)	94.2	0.5			G1/100
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





REPORT NUMBER: P453599

CATALOG NUMBER: GALN-SA4C-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0
2.5°	3659.4	3657.1	3658.2	3657.1	3660.5	3658.2	3644.7	3633.4	3624.3	3625.5	3622.1
5°	3737.3	3738.5	3739.6	3734.0	3741.9	3737.3	3715.9	3697.8	3679.7	3672.9	3670.7
7.5°	3801.8	3807.4	3810.8	3816.5	3830.0	3830.0	3818.7	3792.7	3753.2	3730.6	3729.4
10°	3866.2	3870.7	3880.9	3899.0	3921.6	3943.0	3938.5	3903.5	3852.6	3814.2	3805.2
12.5°	3888.8	3894.4	3928.3	3980.3	4031.2	4073.0	4073.0	4044.7	3979.2	3920.4	3903.5
15°	3809.7	3819.8	3880.9	3991.6	4125.0	4216.5	4236.9	4197.3	4127.2	4036.8	4016.5
17.5°	3652.6	3677.4	3766.7	3930.6	4152.1	4342.0	4400.7	4381.5	4291.1	4175.8	4152.1
20°	3484.2	3511.3	3606.2	3823.2	4129.5	4415.4	4586.1	4590.6	4478.7	4311.4	4276.4
22.5°	3298.9	3319.2	3441.2	3695.5	4061.7	4432.4	4745.4	4823.4	4672.0	4447.1	4397.3
25°	3090.9	3113.5	3241.2	3515.8	3934.0	4413.2	4891.2	5063.0	4874.3	4591.7	4528.4
27.5°	2892.0	2901.0	3037.8	3316.9	3765.6	4363.4	4998.6	5283.4	5098.0	4711.5	4631.3
30°	2701.0	2722.5	2843.4	3119.2	3572.3	4266.2	5091.2	5534.3	5338.7	4837.0	4734.1
32.5°	2498.7	2524.7	2655.8	2934.9	3379.1	4120.5	5147.7	5808.9	5674.4	5040.4	4930.8
35°	2304.3	2321.3	2453.5	2724.7	3190.4	3950.9	5157.9	6118.5	6107.2	5348.9	5203.1
37.5°	2105.4	2130.3	2263.7	2523.6	2990.3	3771.2	5107.1	6447.4	6629.3	5777.2	5620.1
40°	1914.4	1935.9	2067.0	2329.2	2763.2	3552.0	4986.1	6748.0	7238.5	6218.0	5995.3
42.5°	1706.5	1712.1	1855.7	2122.4	2540.5	3297.7	4812.1	7015.9	7917.7	6809.0	6532.2
45°	1470.3	1485.0	1618.3	1880.5	2285.1	3012.9	4575.9	7237.4	8778.9	7628.4	7250.9
47.5°	1234.1	1246.5	1368.6	1627.4	2006.0	2686.3	4212.0	7431.7	9662.6	8669.2	8174.2
50°	1003.6	1010.3	1109.8	1339.2	1691.8	2342.8	3761.1	7493.9	10661.7	10142.9	9511.2
52.5°	793.4	803.5	879.2	1058.9	1356.2	1937.0	3274.0	7340.2	11827.9	11890.1	10999.6
55°	643.0	646.4	702.9	835.2	1060.1	1512.1	2686.3	6911.9	13082.4	14128.9	12993.1
57.5°	553.8	556.0	587.7	661.1	816.0	1140.3	2084.0	6101.6	14209.1	16751.9	15291.8
60°	502.9	504.0	522.1	565.1	646.4	874.7	1492.9	4957.9	15321.2	19671.1	18148.8
62.5°	471.3	471.3	483.7	507.4	547.0	671.3	1081.5	3576.9	16082.9	22633.1	21670.3
65°	440.8	440.8	449.8	466.7	488.2	549.2	799.0	2332.6	16063.7	24790.6	25212.1
67.5°	405.7	405.7	412.5	429.4	441.9	472.4	617.1	1527.9	14429.5	24743.1	27144.6
70°	363.9	363.9	372.9	387.6	397.8	417.0	487.1	1045.4	10600.6	21126.7	24140.7
72.5°	322.1	323.2	328.9	343.6	351.5	362.8	404.6	732.3	6502.8	14385.4	16879.6
75°	275.8	278.0	283.7	298.4	305.1	309.7	341.3	522.1	3289.8	7756.1	8830.8
77.5°	222.6	227.2	230.5	246.4	250.9	257.7	281.4	377.5	1444.3	2786.9	2811.8
80°	162.7	168.4	178.6	193.3	196.6	201.2	214.7	267.8	654.3	1272.5	1382.2
82.5°	119.8	127.7	115.3	134.5	134.5	128.8	151.4	179.7	300.6	1260.1	1507.6
85°	65.5	66.7	59.9	68.9	73.5	72.3	80.2	88.2	145.8	840.8	866.8
87.5°	15.8	17.0	18.1	21.5	26.0	26.0	28.3	24.9	47.5	272.4	156.0
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)