

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: P454295

Luminaire Tested: **GALN-SA5B-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454295
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-SA5B-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20911 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

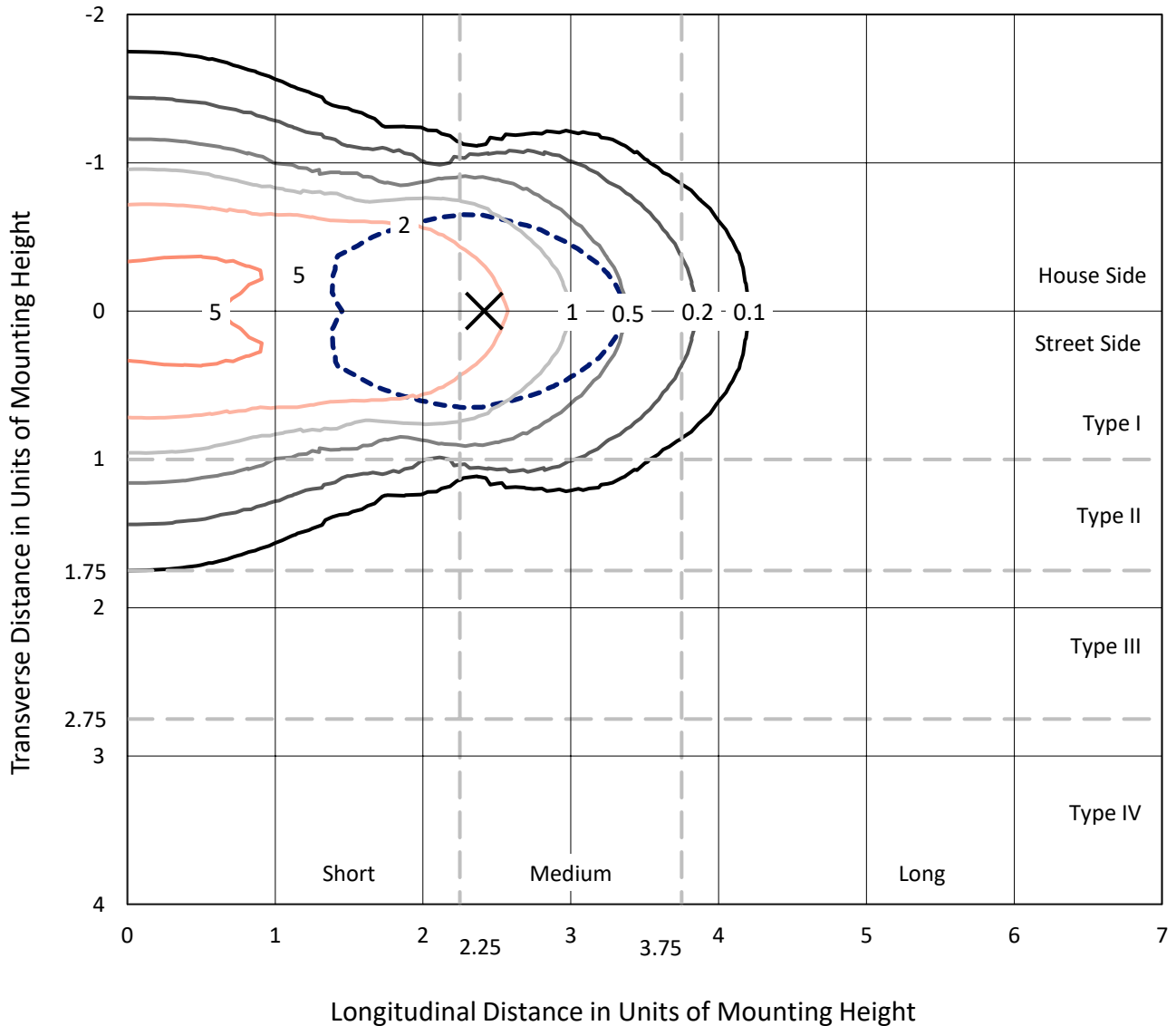
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454295
 CATALOG NUMBER: GALN-SA5B-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

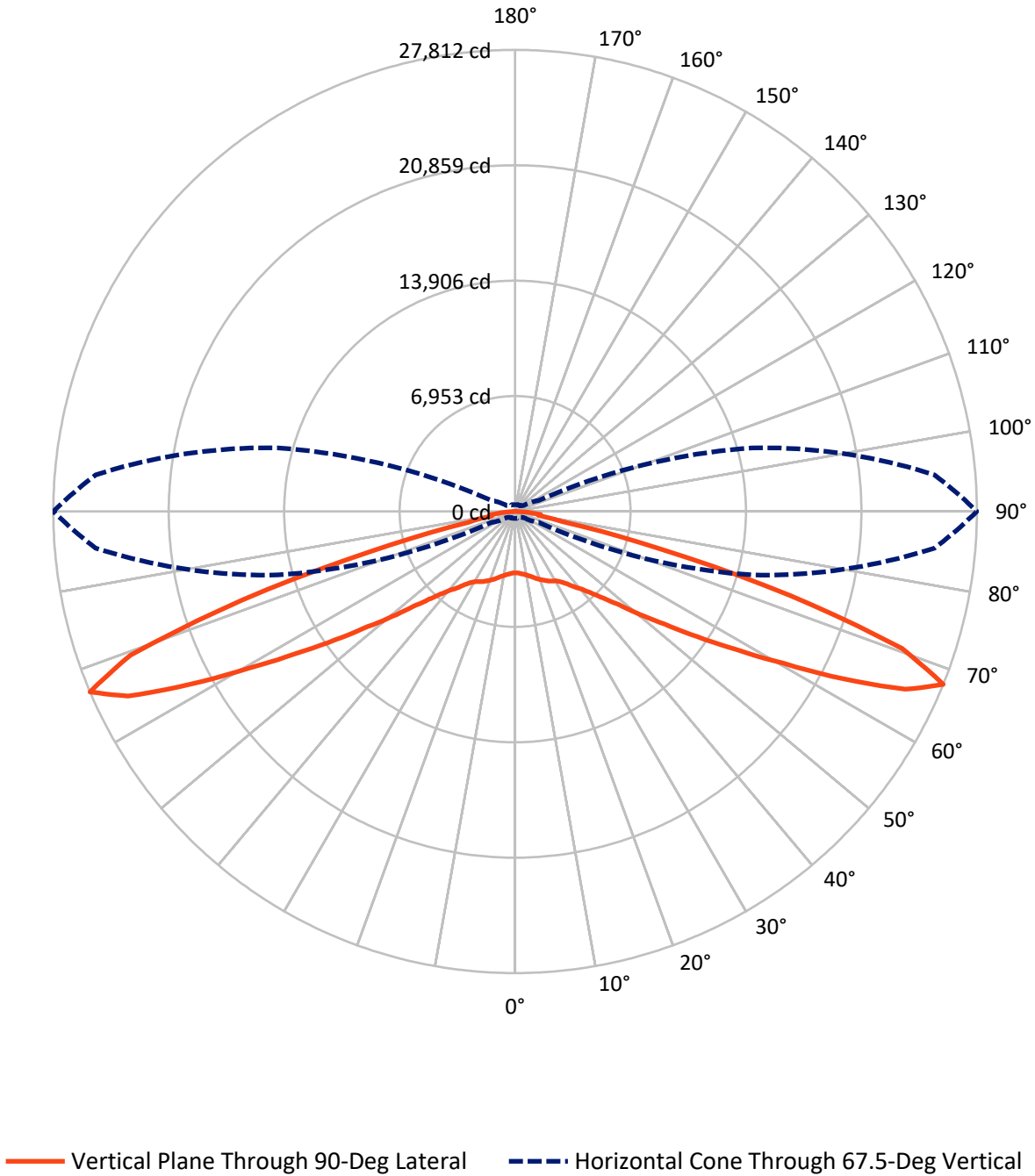
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

REPORT NUMBER: P454295
CATALOG NUMBER: GALN-SA5B-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P454295

CATALOG NUMBER: GALN-SA5B-827-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10455.5	0.0	10455.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10455.5	0.0	10455.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20911.0	0.0	20911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.1	1.8
10°-20°	1180.9	5.6
20°-30°	1976.4	9.5
30°-40°	2677.6	12.8
40°-50°	3391.6	16.2
50°-60°	4236.9	20.3
60°-70°	4980.3	23.8
70°-80°	1905.2	9.1
80°-90°	193.0	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°	20911.0	100.0
0°-180°	20911.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454295

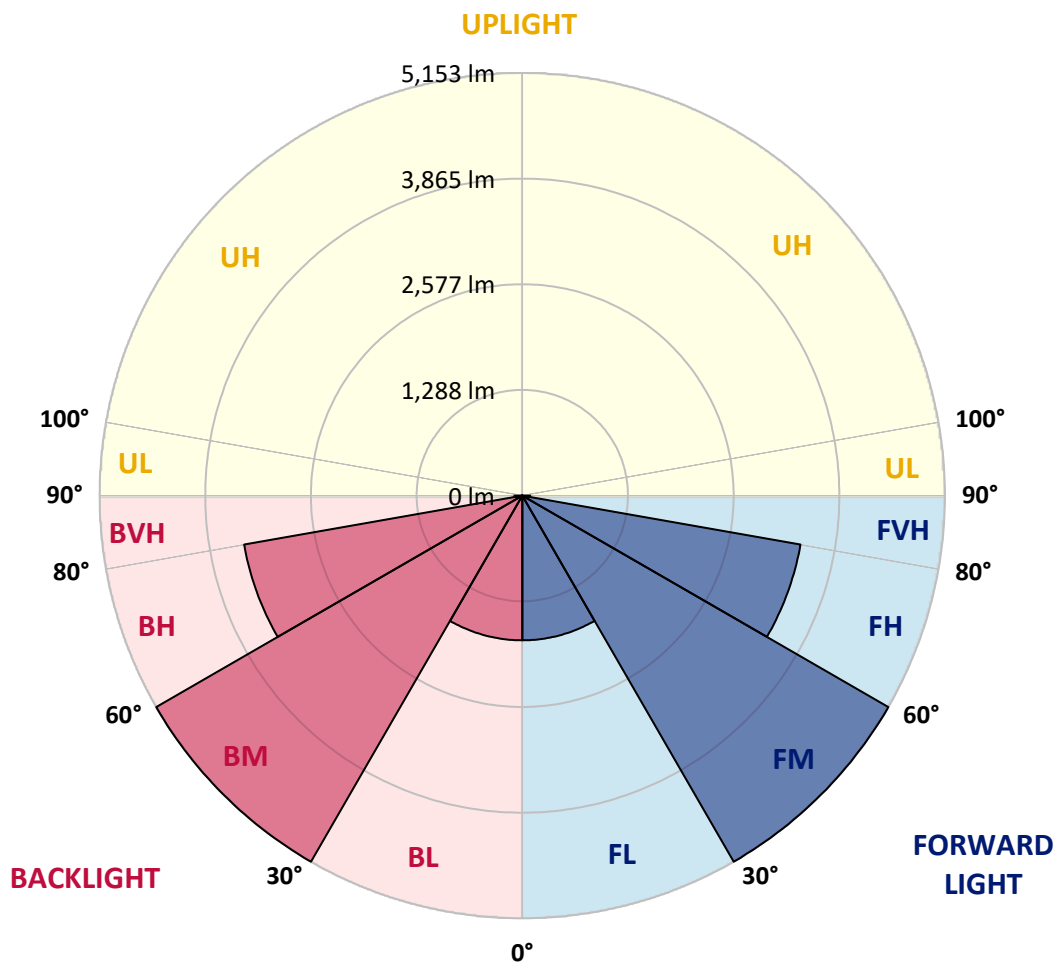
CATALOG NUMBER: GALN-SA5B-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.2	8.4			
FM (30°-60°)	5153.0	24.6			
FH (60°-80°)	3442.8	16.5			G2/5000
FVH (80°-90°)	96.5	0.5			G1/100
BL (0°-30°)	1763.2	8.4	B3/2500		
BM (30°-60°)	5153.0	24.6	B4/8500		
BH (60°-80°)	3442.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	96.5	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: P454295

CATALOG NUMBER: GALN-SA5B-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9
2.5°	3749.4	3747.1	3748.2	3747.1	3750.5	3748.2	3734.3	3722.7	3713.5	3714.6	3711.2
5°	3829.3	3830.4	3831.6	3825.8	3833.9	3829.3	3807.3	3788.7	3770.2	3763.3	3761.0
7.5°	3895.3	3901.1	3904.5	3910.3	3924.2	3924.2	3912.6	3886.0	3845.5	3822.3	3821.2
10°	3961.3	3965.9	3976.3	3994.9	4018.0	4040.0	4035.4	3999.5	3947.4	3908.0	3898.7
12.5°	3984.4	3990.2	4025.0	4078.2	4130.3	4173.2	4173.2	4144.2	4077.1	4016.9	3999.5
15°	3903.4	3913.8	3976.3	4089.8	4226.4	4320.2	4341.1	4300.5	4228.8	4136.1	4115.3
17.5°	3742.4	3767.9	3859.4	4027.3	4254.2	4448.8	4509.0	4489.3	4396.7	4278.5	4254.2
20°	3569.9	3597.7	3695.0	3917.3	4231.1	4524.0	4698.9	4703.5	4588.9	4417.5	4381.6
22.5°	3380.0	3400.8	3525.9	3786.4	4161.6	4541.4	4862.1	4942.0	4786.9	4556.4	4505.5
25°	3166.9	3190.1	3320.9	3602.3	4030.7	4521.7	5011.5	5187.5	4994.1	4704.7	4639.8
27.5°	2963.1	2972.4	3112.5	3398.5	3858.2	4470.8	5121.5	5413.3	5223.4	4827.4	4745.2
30°	2767.4	2789.5	2913.3	3195.9	3660.2	4371.2	5216.5	5670.4	5470.1	4955.9	4850.6
32.5°	2560.2	2586.8	2721.1	3007.1	3462.2	4221.8	5274.4	5951.8	5814.0	5164.4	5052.0
35°	2361.0	2378.4	2513.9	2791.8	3268.8	4048.1	5284.8	6269.0	6257.4	5480.5	5331.1
37.5°	2157.2	2182.7	2319.3	2585.7	3063.9	3864.0	5232.7	6606.0	6792.4	5919.3	5758.4
40°	1961.5	1983.5	2117.9	2386.5	2831.1	3639.4	5108.8	6914.0	7416.5	6370.9	6142.8
42.5°	1748.5	1754.3	1901.3	2174.6	2603.0	3378.8	4930.5	7188.4	8112.4	6976.5	6692.8
45°	1506.5	1521.5	1658.2	1926.8	2341.3	3087.0	4688.5	7415.4	8994.8	7816.0	7429.3
47.5°	1264.5	1277.2	1402.3	1667.4	2055.3	2752.4	4315.6	7614.5	9900.3	8882.5	8375.3
50°	1028.2	1035.2	1137.1	1372.1	1733.4	2400.4	3853.6	7678.2	10923.9	10392.4	9745.1
52.5°	812.9	823.3	900.9	1085.0	1389.5	1984.7	3354.5	7520.7	12118.9	12182.6	11270.1
55°	658.9	662.3	720.2	855.7	1086.1	1549.3	2752.4	7081.9	13404.2	14476.4	13312.7
57.5°	567.4	569.7	602.1	677.4	836.0	1168.4	2135.2	6251.7	14558.6	17164.0	15667.9
60°	515.3	516.4	535.0	579.0	662.3	896.2	1529.6	5079.8	15698.0	20154.9	18595.2
62.5°	482.9	482.9	495.6	519.9	560.4	687.8	1108.1	3664.8	16478.5	23189.8	22203.3
65°	451.6	451.6	460.9	478.2	500.2	562.8	818.7	2390.0	16458.8	25400.3	25832.2
67.5°	415.7	415.7	422.6	440.0	452.8	484.0	632.2	1565.5	14784.4	25351.7	27812.3
70°	372.9	372.9	382.1	397.2	407.6	427.3	499.1	1071.1	10861.4	21646.3	24734.5
72.5°	330.0	331.2	337.0	352.0	360.1	371.7	414.5	750.3	6662.7	14739.3	17294.8
75°	282.5	284.9	290.6	305.7	312.6	317.3	349.7	535.0	3370.7	7946.9	9048.1
77.5°	228.1	232.7	236.2	252.4	257.1	264.0	288.3	386.7	1479.8	2855.5	2880.9
80°	166.7	172.5	183.0	198.0	201.5	206.1	220.0	274.4	670.4	1303.8	1416.1
82.5°	122.7	130.8	118.1	137.8	137.8	132.0	155.2	184.1	308.0	1291.1	1544.7
85°	67.2	68.3	61.4	70.6	75.3	74.1	82.2	90.3	149.4	861.5	888.1
87.5°	16.2	17.4	18.5	22.0	26.6	26.6	28.9	25.5	48.6	279.1	159.8
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)