

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: P455687

Luminaire Tested: **GALN-SA6D-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455687
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-SA6D-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33663 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

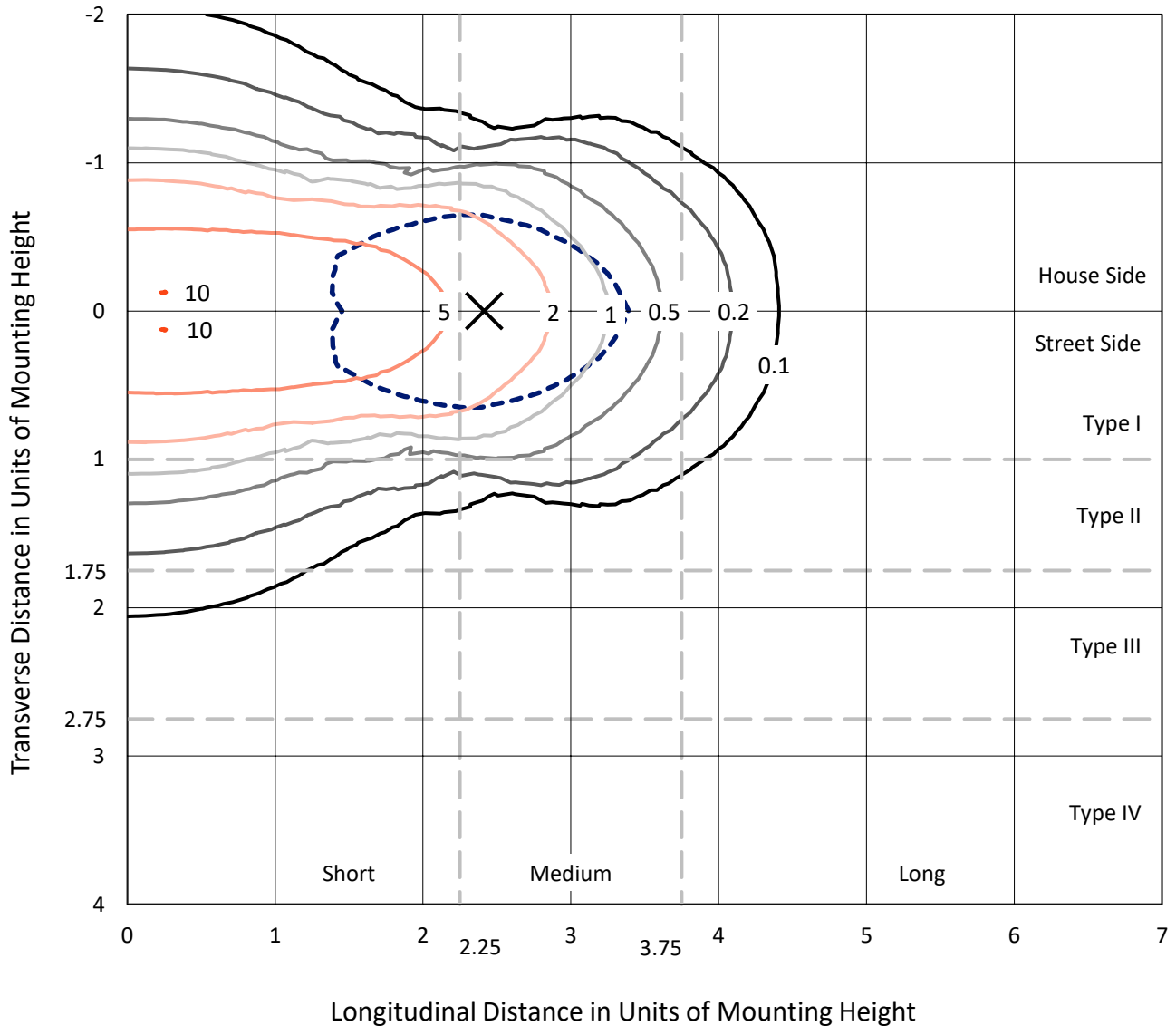
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455687
 CATALOG NUMBER: GALN-SA6D-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

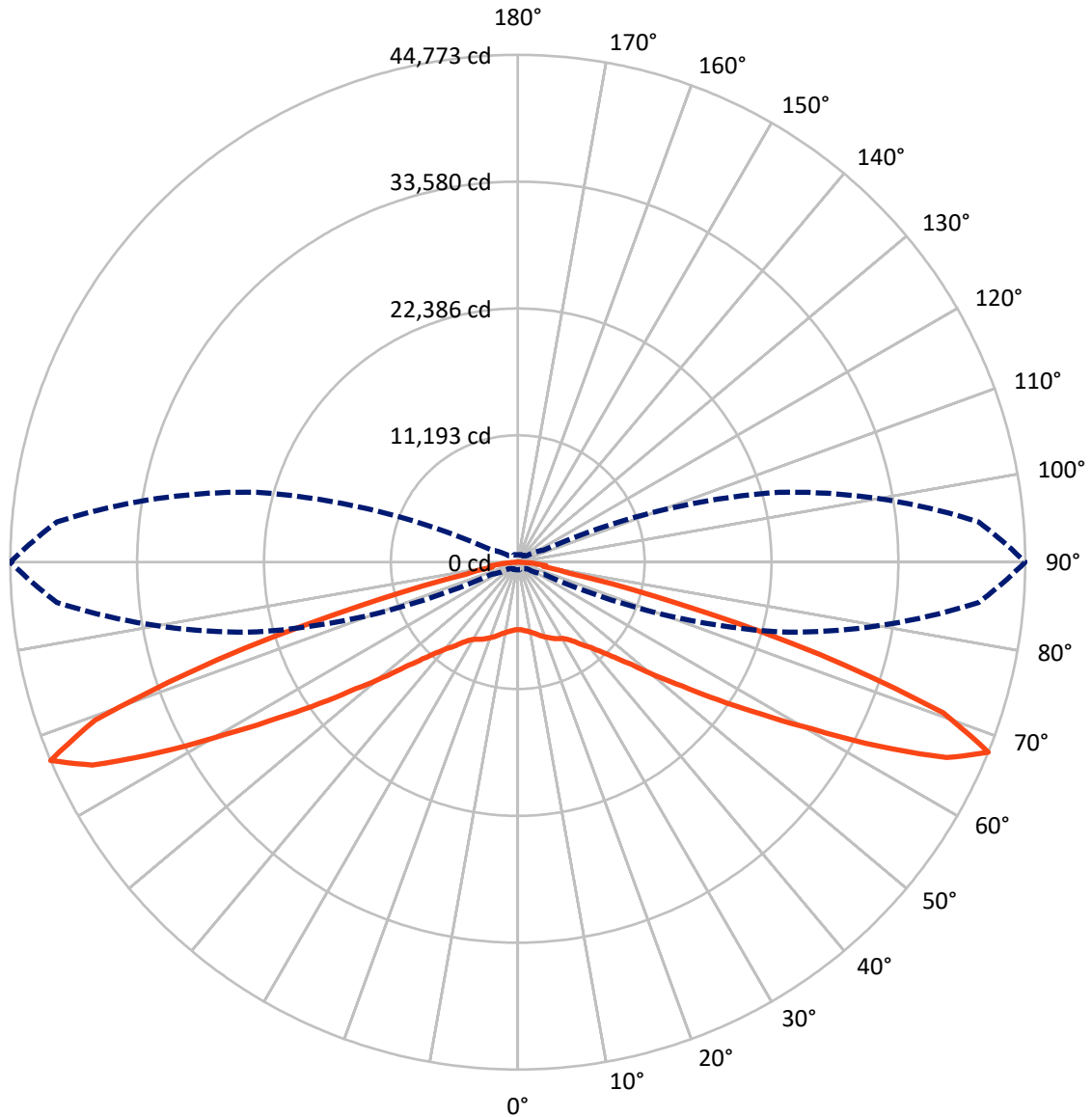
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type I - Short - N/A

REPORT NUMBER: P455687
CATALOG NUMBER: GALN-SA6D-827-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P455687

CATALOG NUMBER: GALN-SA6D-827-U-T1

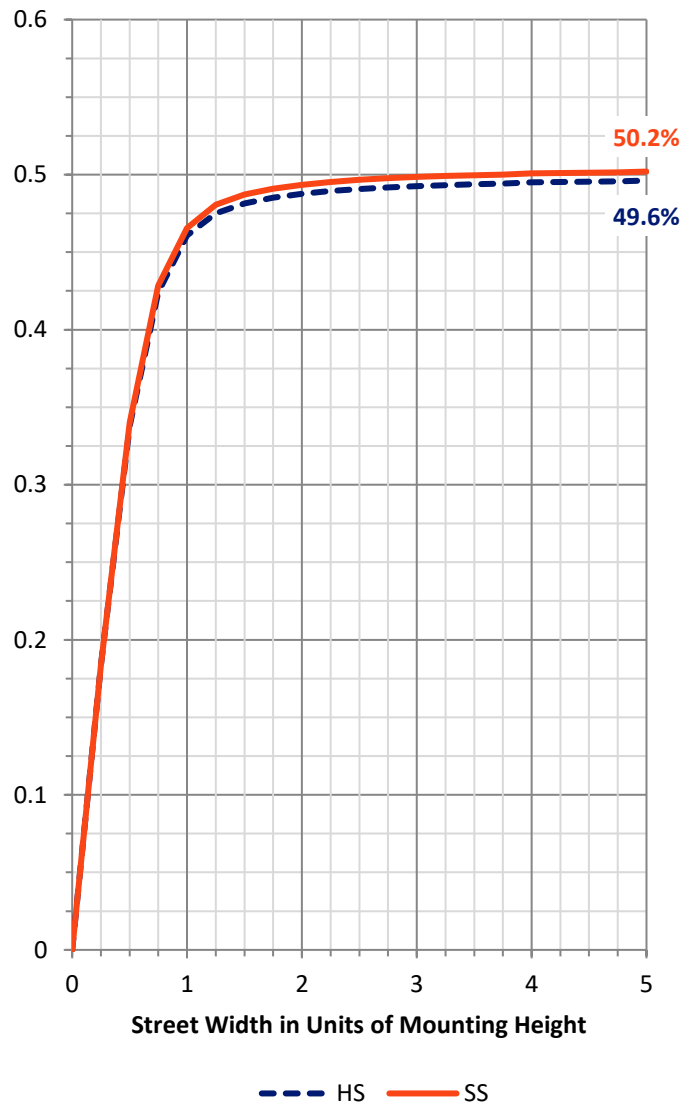
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16831.5	0.0	16831.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16831.5	0.0	16831.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33663.0	0.0	33663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.2	1.8
10°-20°	1901.0	5.6
20°-30°	3181.7	9.5
30°-40°	4310.4	12.8
40°-50°	5459.8	16.2
50°-60°	6820.7	20.3
60°-70°	8017.4	23.8
70°-80°	3067.0	9.1
80°-90°	310.7	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°	33663.0	100.0
0°-180°	33663.0	100.0



REPORT NUMBER: P455687

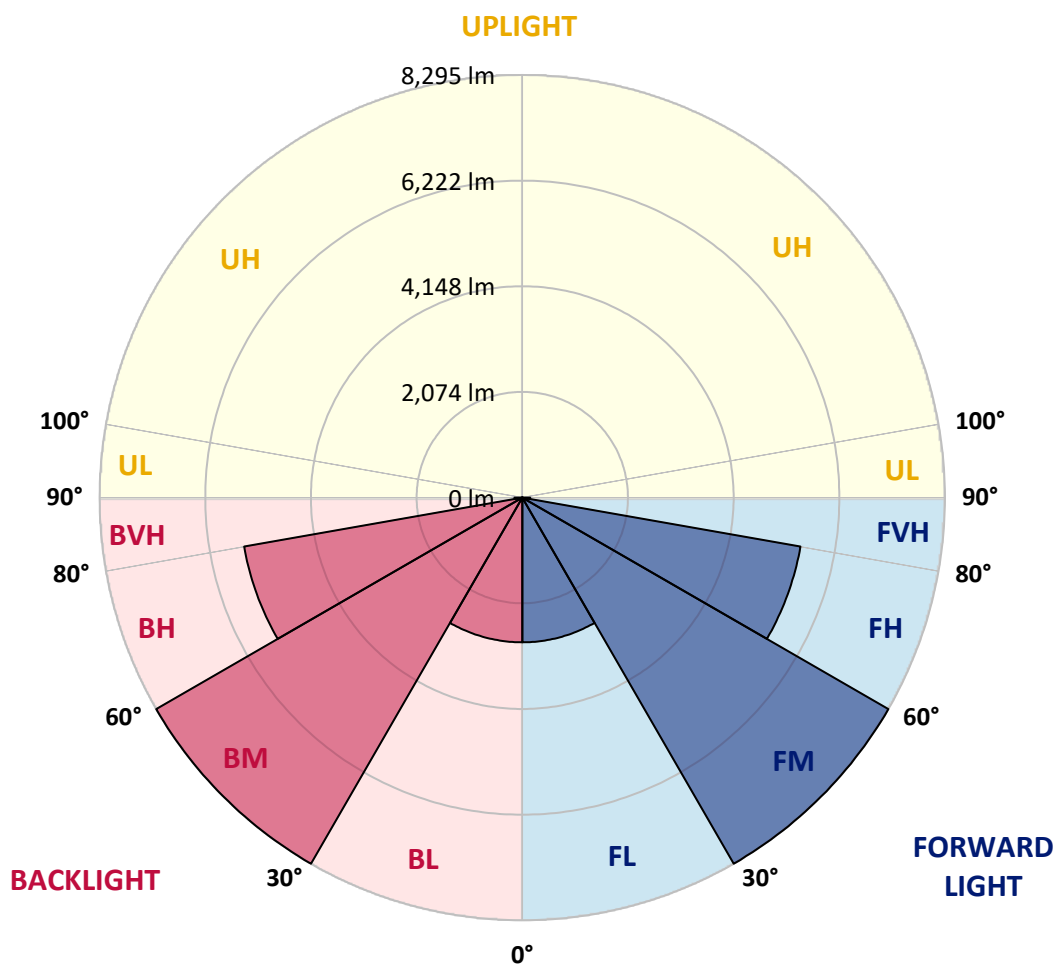
CATALOG NUMBER: GALN-SA6D-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2838.4	8.4			
FM	(30°-60°)	8295.5	24.6			
FH	(60°-80°)	5542.2	16.5			G3/7500
FVH	(80°-90°)	155.4	0.5			G2/225
BL	(0°-30°)	2838.4	8.4	B4/5000		
BM	(30°-60°)	8295.5	24.6	B4/8500		
BH	(60°-80°)	5542.2	16.5	B5		G5
BVH	(80°-90°)	155.4	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°	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4	5959.4
2.5°	6035.8	6032.1	6034.0	6032.1	6037.7	6034.0	6011.6	5993.0	5978.0	5979.9	5974.3
5°	6164.4	6166.3	6168.2	6158.9	6171.9	6164.4	6129.0	6099.2	6069.4	6058.2	6054.5
7.5°	6270.7	6280.0	6285.6	6294.9	6317.3	6317.3	6298.7	6255.8	6190.5	6153.3	6151.4
10°	6376.9	6384.4	6401.2	6431.0	6468.3	6503.7	6496.2	6438.5	6354.6	6291.2	6276.3
12.5°	6414.2	6423.5	6479.5	6565.2	6649.1	6718.1	6718.1	6671.5	6563.4	6466.4	6438.5
15°	6283.7	6300.5	6401.2	6583.9	6803.8	6954.8	6988.4	6923.1	6807.5	6658.4	6624.9
17.5°	6024.6	6065.7	6212.9	6483.2	6848.6	7161.7	7258.6	7227.0	7077.8	6887.7	6848.6
20°	5746.9	5791.6	5948.2	6306.1	6811.3	7282.9	7564.4	7571.8	7387.3	7111.4	7053.6
22.5°	5441.2	5474.7	5676.1	6095.5	6699.4	7310.8	7827.2	7955.8	7706.0	7335.1	7253.1
25°	5098.2	5135.5	5346.1	5799.1	6488.8	7279.2	8067.7	8351.0	8039.7	7573.7	7469.3
27.5°	4770.1	4785.0	5010.6	5471.0	6211.0	7197.1	8244.7	8714.5	8408.8	7771.3	7638.9
30°	4455.1	4490.5	4690.0	5144.8	5892.3	7036.8	8397.6	9128.3	8805.8	7978.2	7808.5
32.5°	4121.4	4164.3	4380.5	4841.0	5573.5	6796.4	8490.8	9581.3	9359.4	8313.7	8132.9
35°	3800.8	3828.8	4046.9	4494.2	5262.2	6516.8	8507.6	10092.0	10073.4	8822.6	8582.1
37.5°	3472.7	3513.8	3733.7	4162.4	4932.3	6220.4	8423.7	10634.5	10934.6	9529.1	9270.0
40°	3157.7	3193.1	3409.4	3841.8	4557.6	5858.7	8224.2	11130.3	11939.3	10256.1	9888.8
42.5°	2814.7	2824.1	3060.8	3500.7	4190.4	5439.3	7937.2	11572.1	13059.6	11231.0	10774.3
45°	2425.1	2449.4	2669.3	3101.8	3769.1	4969.6	7547.6	11937.4	14480.0	12582.4	11959.8
47.5°	2035.6	2056.1	2257.4	2684.2	3308.7	4430.9	6947.4	12258.1	15937.7	14299.2	13482.7
50°	1655.3	1666.5	1830.5	2208.9	2790.5	3864.2	6203.6	12360.6	17585.5	16729.9	15687.9
52.5°	1308.6	1325.3	1450.2	1746.6	2236.9	3195.0	5400.2	12107.1	19509.2	19611.8	18142.9
55°	1060.7	1066.2	1159.4	1377.5	1748.5	2494.1	4430.9	11400.6	21578.4	23304.5	21431.1
57.5°	913.4	917.1	969.3	1090.5	1345.9	1880.8	3437.3	10064.1	23436.8	27631.0	25222.6
60°	829.5	831.4	861.2	932.0	1066.2	1442.8	2462.4	8177.6	25271.1	32445.8	29934.9
62.5°	777.3	777.3	797.8	837.0	902.2	1107.3	1783.9	5899.7	26527.4	37331.5	35743.3
65°	727.0	727.0	741.9	769.9	805.3	905.9	1317.9	3847.4	26495.7	40890.0	41585.3
67.5°	669.2	669.2	680.4	708.3	728.8	779.2	1017.8	2520.2	23800.3	40811.7	44772.9
70°	600.2	600.2	615.1	639.4	656.1	687.8	803.4	1724.3	17484.9	34846.7	39818.2
72.5°	531.3	533.1	542.4	566.7	579.7	598.4	667.3	1207.9	10725.8	23727.6	27841.6
75°	454.8	458.6	467.9	492.1	503.3	510.8	562.9	861.2	5426.3	12793.0	14565.8
77.5°	367.2	374.7	380.3	406.4	413.8	425.0	464.2	622.6	2382.3	4596.8	4637.8
80°	268.4	277.7	294.5	318.8	324.3	331.8	354.2	441.8	1079.3	2098.9	2279.7
82.5°	197.6	210.6	190.1	221.8	221.8	212.5	249.8	296.4	495.8	2078.4	2486.7
85°	108.1	110.0	98.8	113.7	121.2	119.3	132.3	145.4	240.5	1386.9	1429.7
87.5°	26.1	28.0	29.8	35.4	42.9	42.9	46.6	41.0	78.3	449.2	257.2
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)