

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: P457862

Luminaire Tested: **GALN-SA9B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457862
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-SA9B-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 43065 lumens
Efficiency: N/A
Efficacy: 118.3 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

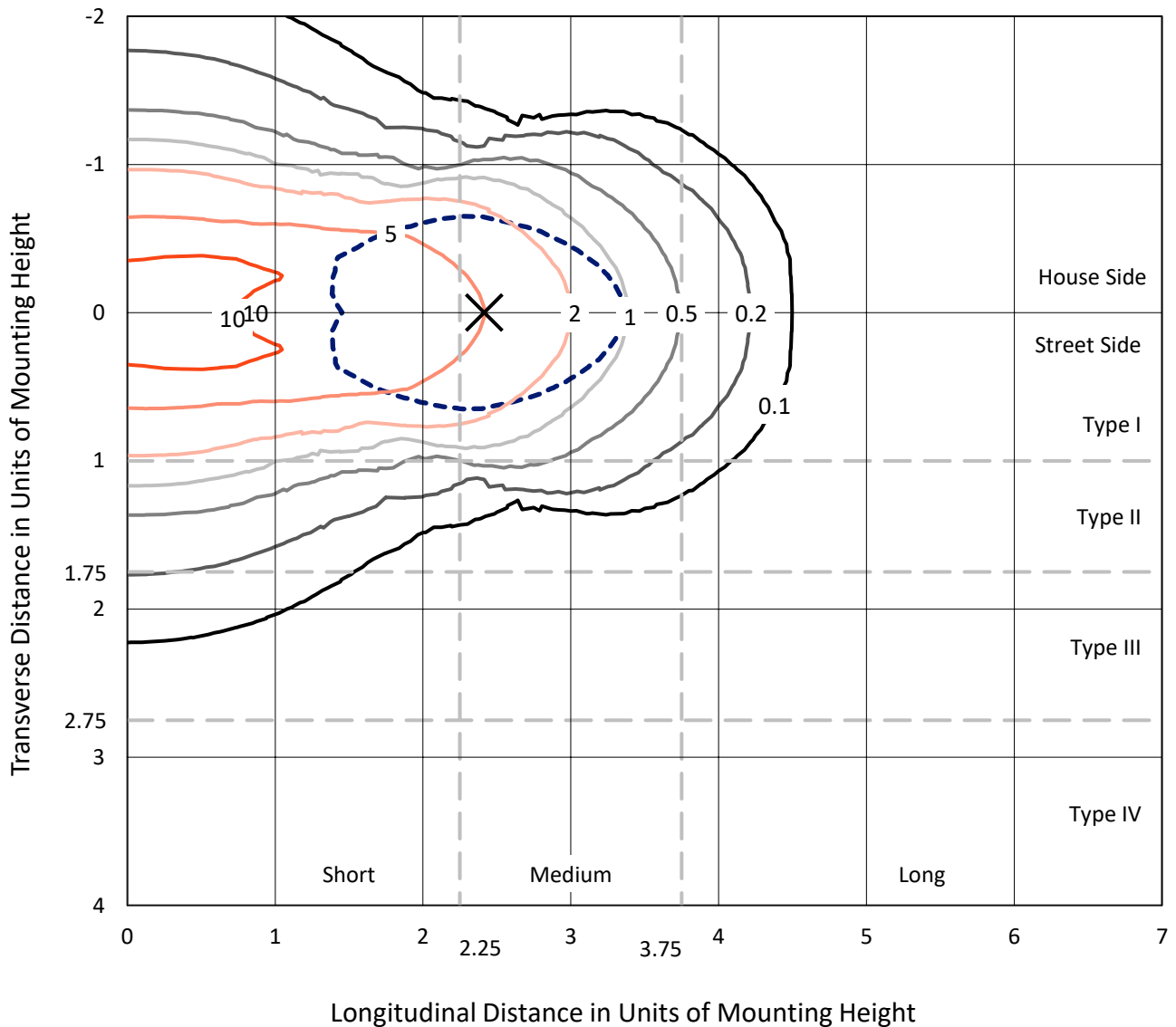
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457862
 CATALOG NUMBER: GALN-SA9B-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

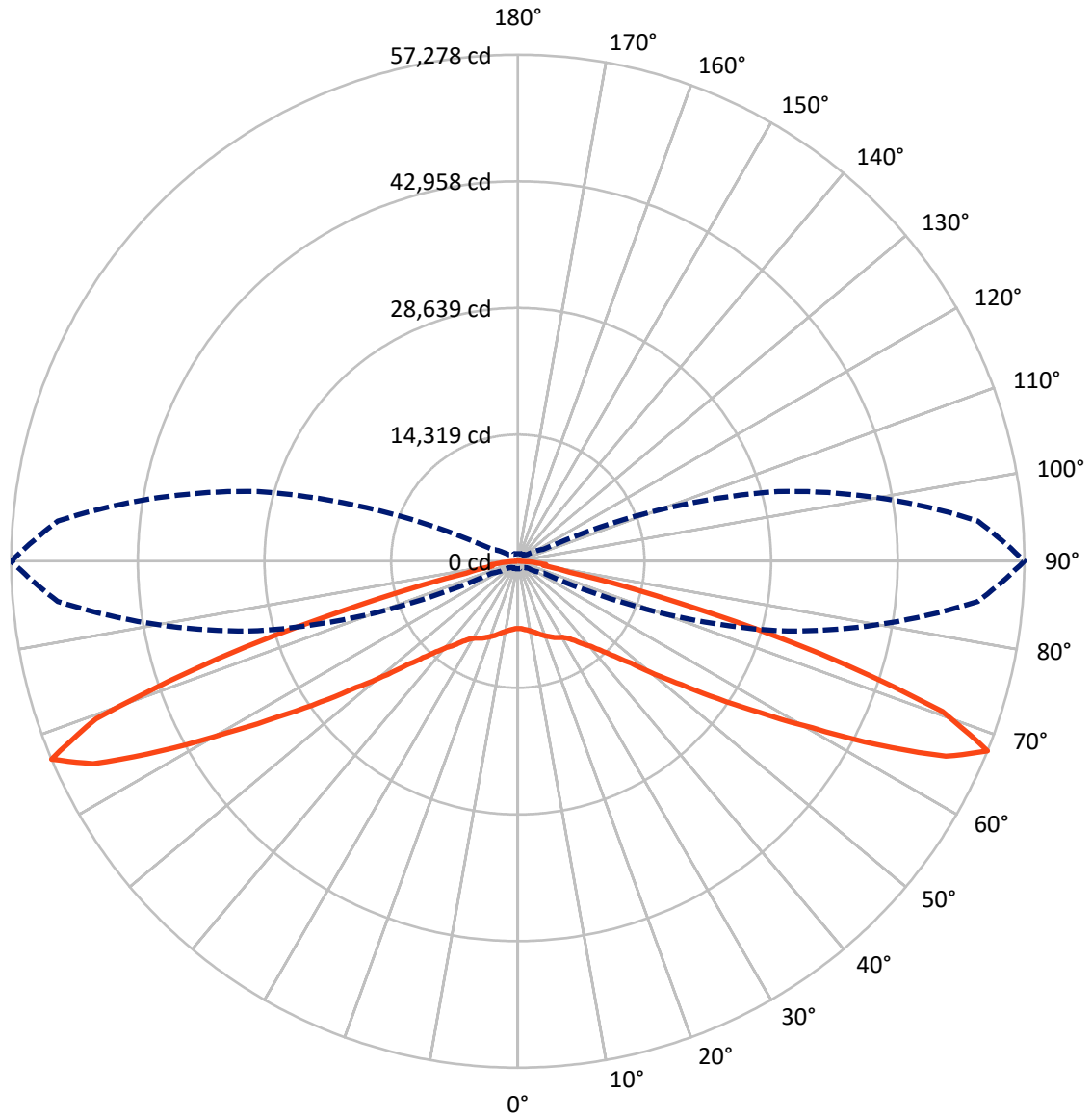
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type I - Short - N/A

REPORT NUMBER: P457862
CATALOG NUMBER: GALN-SA9B-727-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457862

CATALOG NUMBER: GALN-SA9B-727-U-T1

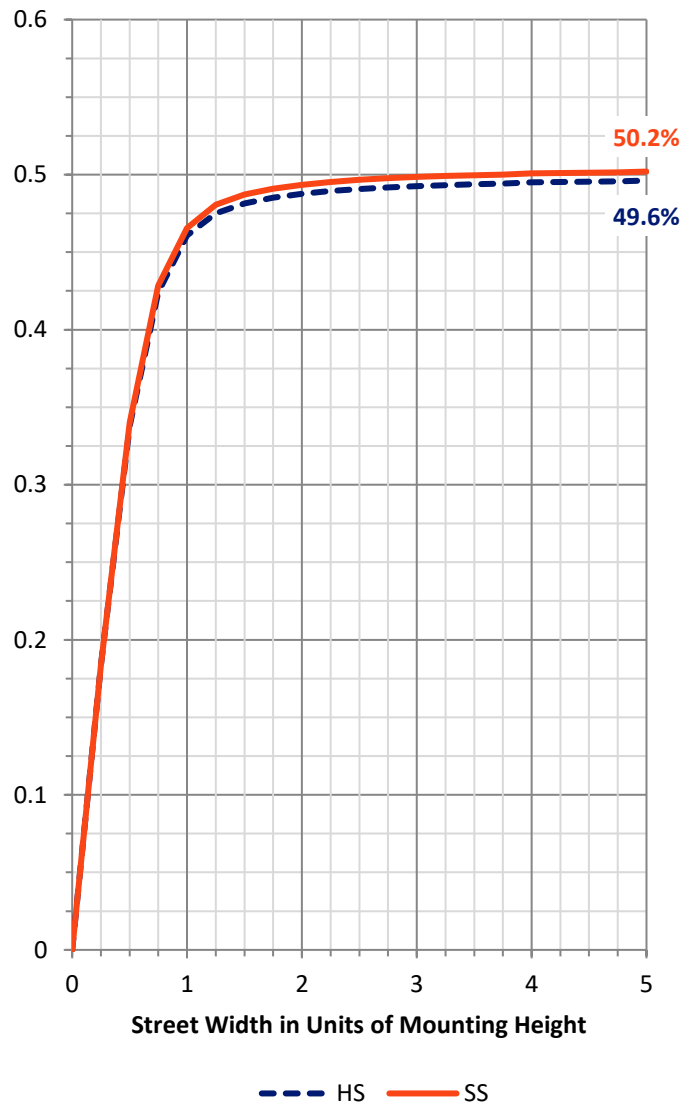
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21532.5	0.0	21532.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21532.5	0.0	21532.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43065.0	0.0	43065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.1	1.8
10°-20°	2431.9	5.6
20°-30°	4070.4	9.5
30°-40°	5514.3	12.8
40°-50°	6984.8	16.2
50°-60°	8725.7	20.3
60°-70°	10256.7	23.8
70°-80°	3923.7	9.1
80°-90°	397.5	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°	43065.0	100.0
0°-180°	43065.0	100.0



REPORT NUMBER: P457862

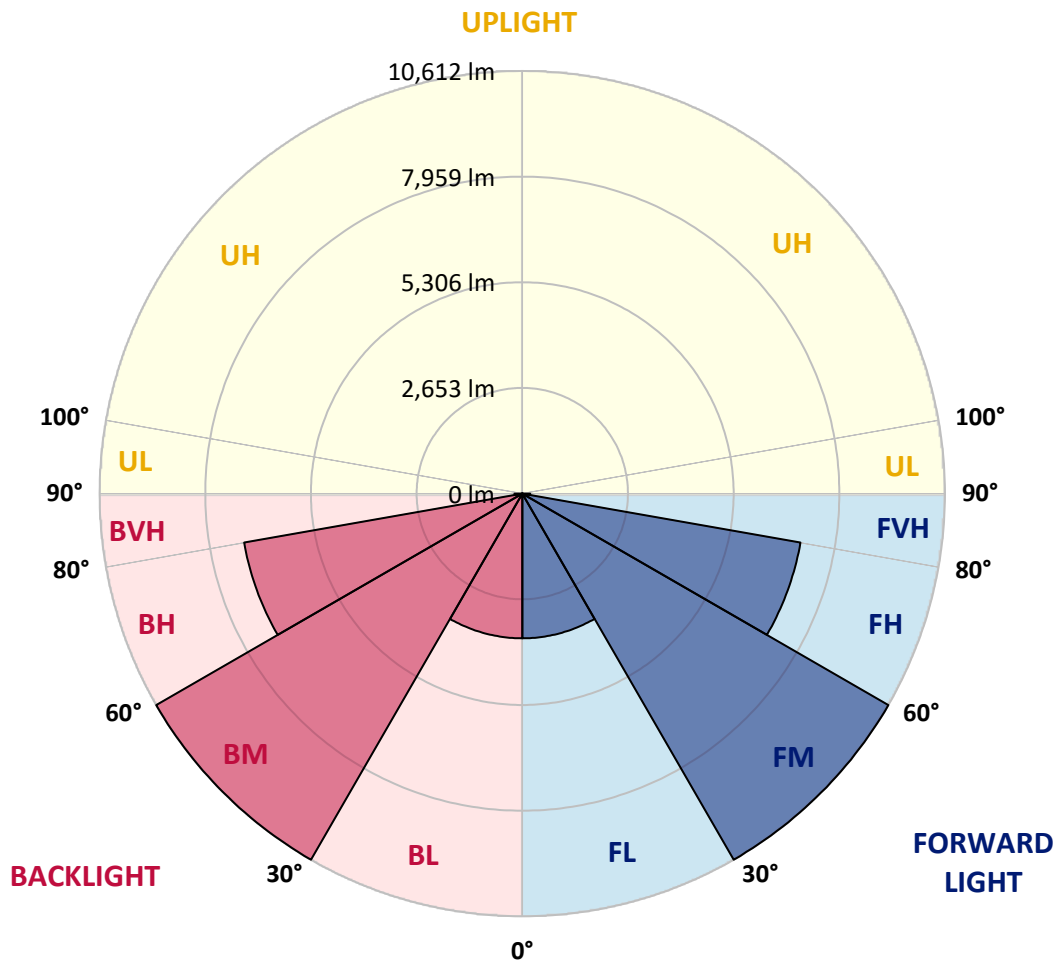
CATALOG NUMBER: GALN-SA9B-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3631.2	8.4			
FM	(30°-60°)	10612.4	24.6			
FH	(60°-80°)	7090.2	16.5			G3/7500
FVH	(80°-90°)	198.8	0.5			G2/225
BL	(0°-30°)	3631.2	8.4	B4/5000		
BM	(30°-60°)	10612.4	24.6	B5		
BH	(60°-80°)	7090.2	16.5	B5		G5
BVH	(80°-90°)	198.8	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





REPORT NUMBER: P457862

CATALOG NUMBER: GALN-SA9B-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7623.8	7623.8	7623.8	7623.8	7623.8	7623.8	7623.8	7623.8	7623.8	7623.8	7623.8
2.5°	7721.6	7716.8	7719.2	7716.8	7724.0	7719.2	7690.6	7666.8	7647.7	7650.1	7642.9
5°	7886.2	7888.5	7890.9	7879.0	7895.7	7886.2	7840.9	7802.7	7764.5	7750.2	7745.5
7.5°	8022.1	8034.0	8041.2	8053.1	8081.7	8081.7	8057.9	8003.0	7919.5	7871.9	7869.5
10°	8158.0	8167.6	8189.0	8227.2	8274.9	8320.2	8310.6	8236.7	8129.4	8048.3	8029.2
12.5°	8205.7	8217.6	8289.2	8398.9	8506.2	8594.4	8594.4	8534.8	8396.5	8272.5	8236.7
15°	8038.8	8060.2	8189.0	8422.7	8704.1	8897.3	8940.2	8856.7	8708.9	8518.1	8475.2
17.5°	7707.3	7759.8	7948.2	8293.9	8761.3	9162.0	9286.0	9245.4	9054.7	8811.4	8761.3
20°	7352.0	7409.2	7609.5	8067.4	8713.6	9317.0	9677.1	9686.6	9450.5	9097.6	9023.7
22.5°	6960.9	7003.8	7261.4	7797.9	8570.6	9352.7	10013.3	10177.8	9858.3	9383.7	9278.8
25°	6522.1	6569.8	6839.3	7418.8	8301.1	9312.2	10320.9	10683.4	10285.2	9689.0	9555.4
27.5°	6102.4	6121.5	6410.0	6999.1	7945.8	9207.3	10547.5	11148.4	10757.3	9941.8	9772.4
30°	5699.4	5744.7	5999.9	6581.7	7538.0	9002.2	10743.0	11677.8	11265.3	10206.5	9989.5
32.5°	5272.5	5327.4	5604.0	6193.0	7130.2	8694.6	10862.3	12257.3	11973.5	10635.7	10404.4
35°	4862.4	4898.1	5177.2	5749.5	6732.0	8336.9	10883.7	12910.7	12886.9	11286.7	10979.1
37.5°	4442.7	4495.1	4776.5	5325.0	6309.9	7957.7	10776.4	13604.6	13988.6	12190.5	11859.1
40°	4039.7	4085.0	4361.6	4914.8	5830.6	7495.1	10521.2	14239.0	15273.9	13120.6	12650.8
42.5°	3600.9	3612.8	3915.7	4478.4	5360.8	6958.5	10154.0	14804.1	16707.1	14367.7	13783.5
45°	3102.5	3133.5	3414.9	3968.1	4821.8	6357.6	9655.6	15271.5	18524.3	16096.6	15300.2
47.5°	2604.1	2630.3	2887.9	3433.9	4232.8	5668.4	8887.7	15681.7	20389.1	18292.9	17248.4
50°	2117.6	2131.9	2341.8	2825.9	3569.9	4943.5	7936.2	15812.9	22497.1	21402.6	20069.5
52.5°	1674.1	1695.5	1855.3	2234.5	2861.6	4087.4	6908.4	15488.5	24958.1	25089.3	23210.2
55°	1356.9	1364.0	1483.3	1762.3	2236.8	3190.7	5668.4	14584.7	27605.1	29813.4	27416.8
57.5°	1168.5	1173.3	1240.0	1395.0	1721.7	2406.1	4397.4	12874.9	29982.7	35348.2	32267.2
60°	1061.2	1063.6	1101.7	1192.3	1364.0	1845.7	3150.2	10461.6	32329.2	41507.9	38295.7
62.5°	994.4	994.4	1020.6	1070.7	1154.2	1416.5	2282.1	7547.5	33936.5	47758.1	45726.4
65°	930.0	930.0	949.1	984.9	1030.2	1159.0	1686.0	4922.0	33895.9	52310.5	53200.0
67.5°	856.1	856.1	870.4	906.2	932.4	996.8	1302.0	3224.1	30447.7	52210.3	57277.8
70°	767.9	767.9	786.9	817.9	839.4	879.9	1027.8	2205.8	22368.4	44579.3	50939.3
72.5°	679.6	682.0	693.9	724.9	741.6	765.5	853.7	1545.3	13721.5	30354.7	35617.7
75°	581.9	586.6	598.6	629.6	643.9	653.4	720.2	1101.7	6941.8	16366.1	18633.9
77.5°	469.8	479.3	486.5	519.9	529.4	543.7	593.8	796.5	3047.6	5880.6	5933.1
80°	343.4	355.3	376.8	407.8	414.9	424.5	453.1	565.2	1380.7	2685.2	2916.5
82.5°	252.8	269.5	243.2	283.8	283.8	271.9	319.5	379.2	634.3	2658.9	3181.2
85°	138.3	140.7	126.4	145.5	155.0	152.6	169.3	186.0	307.6	1774.2	1829.1
87.5°	33.4	35.8	38.2	45.3	54.8	54.8	59.6	52.5	100.2	574.7	329.1
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)