

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: P458225

Luminaire Tested: **GALN-SA9C-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49036 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

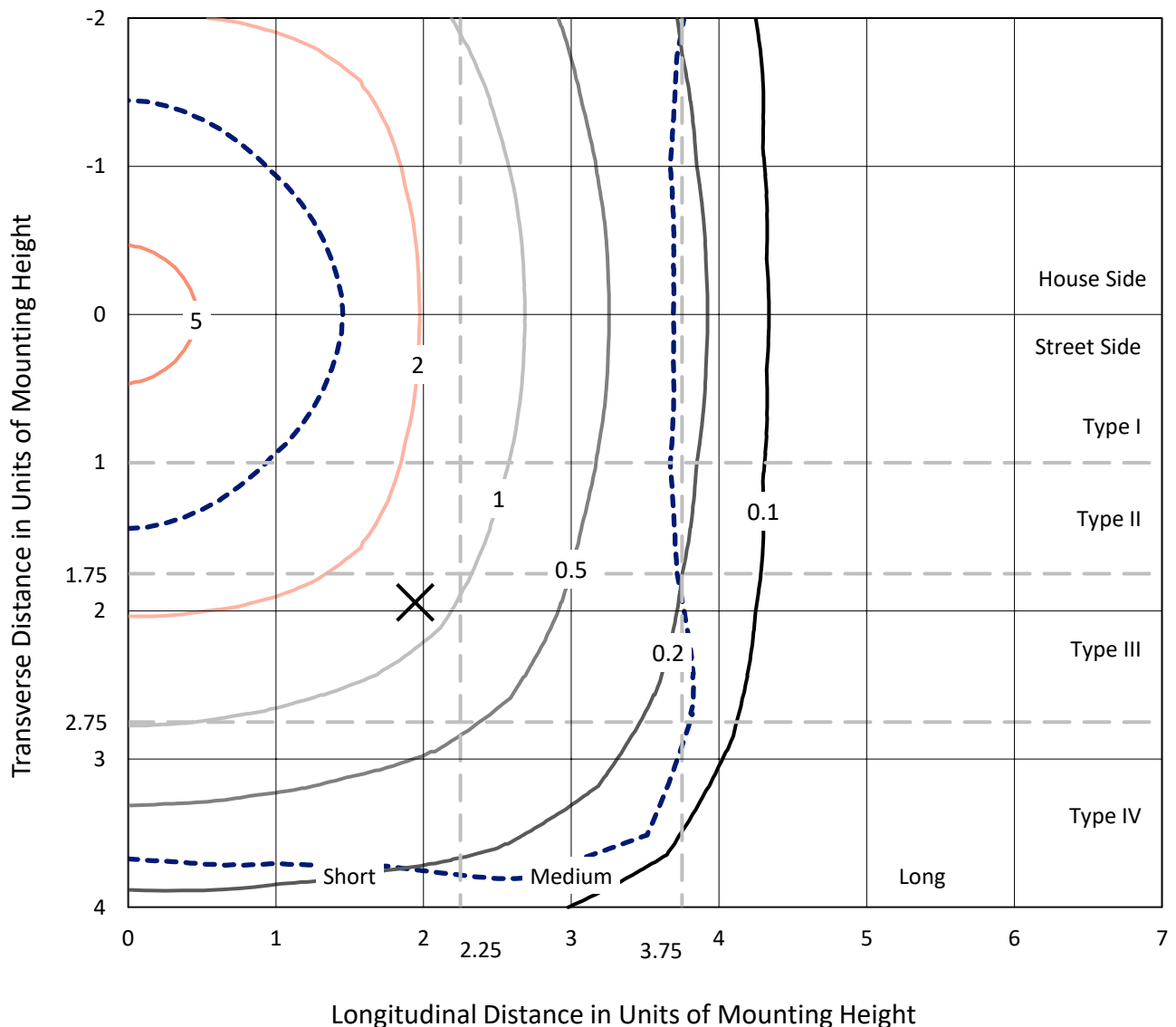
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458225
 CATALOG NUMBER: GALN-SA9C-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

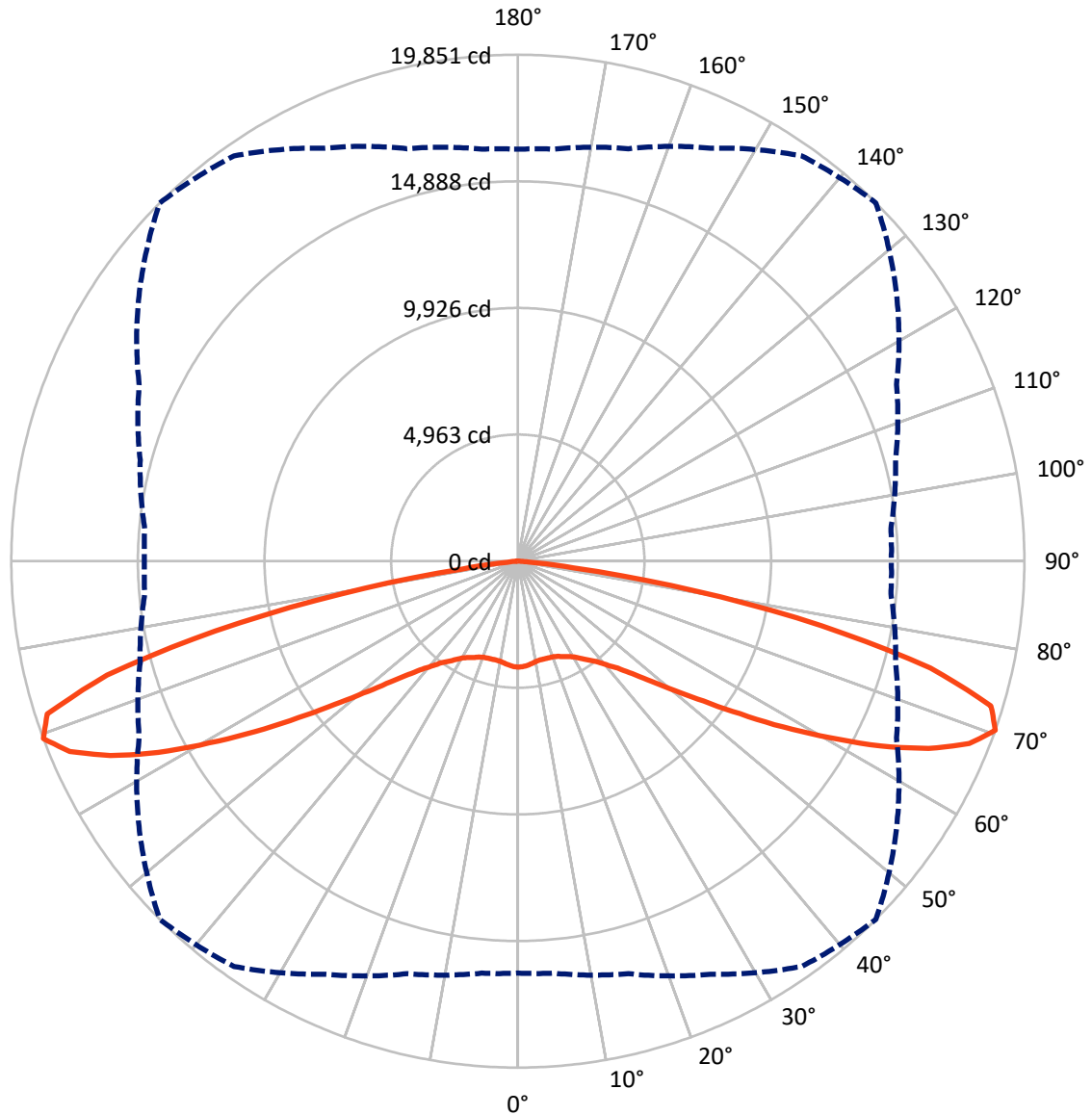
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

REPORT NUMBER: P458225
CATALOG NUMBER: GALN-SA9C-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P458225

CATALOG NUMBER: GALN-SA9C-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24518.0	0.0	24518.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24518.0	0.0	24518.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49036.0	0.0	49036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.2	0.8
10°-20°	1136.6	2.3
20°-30°	1936.5	3.9
30°-40°	3001.6	6.1
40°-50°	5052.1	10.3
50°-60°	9192.0	18.7
60°-70°	15561.8	31.7
70°-80°	12045.5	24.6
80°-90°	721.8	1.5
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°	49036.0	100.0
0°-180°	49036.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458225

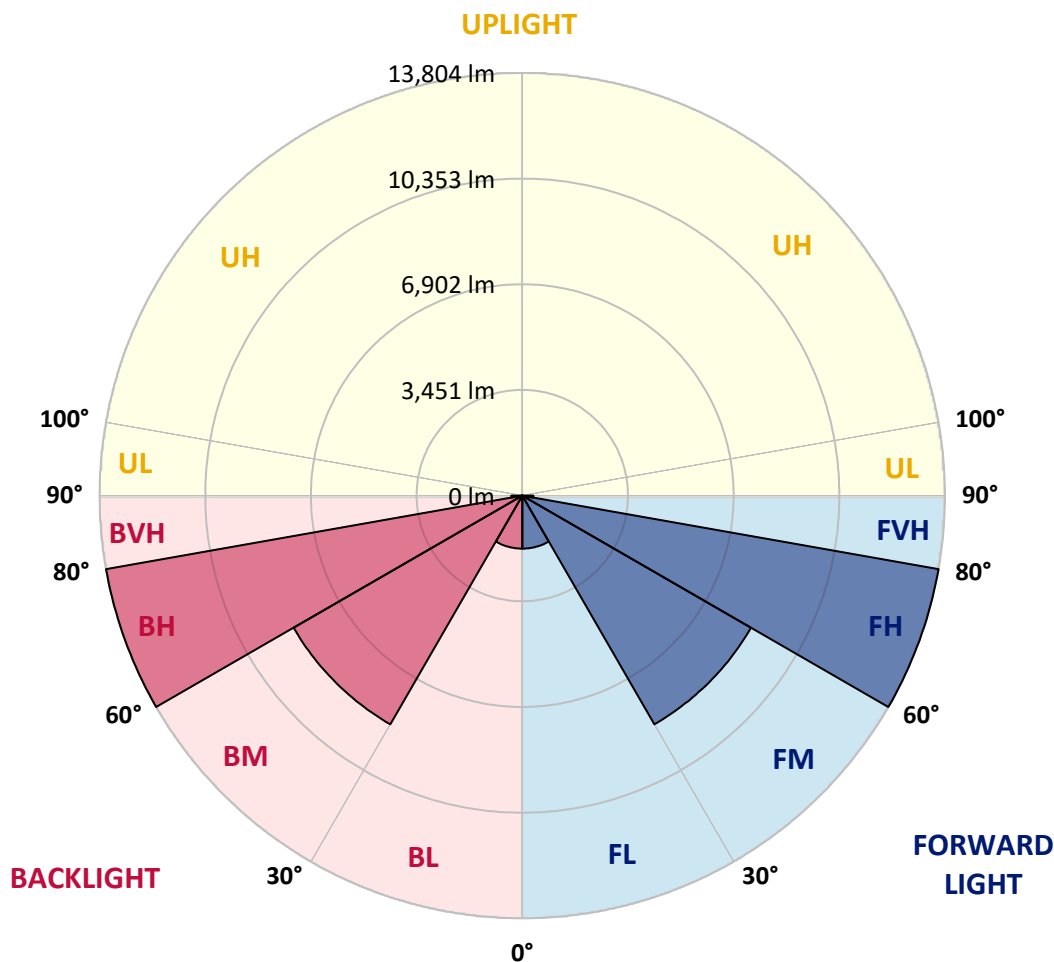
CATALOG NUMBER: GALN-SA9C-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.7	3.5			
FM (30°-60°)	8622.8	17.6			
FH (60°-80°)	13803.6	28.1			G5
FVH (80°-90°)	360.9	0.7			G3/500
BL (0°-30°)	1730.7	3.5	B3/2500		
BM (30°-60°)	8622.8	17.6	B5		
BH (60°-80°)	13803.6	28.1	B5		G5
BVH (80°-90°)	360.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P458225

CATALOG NUMBER: GALN-SA9C-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5
2.5°	4141.1	4143.7	4143.7	4138.5	4136.0	4136.0	4133.4	4133.4	4141.1	4143.7	4146.3
5°	4104.9	4104.9	4104.9	4102.3	4097.1	4097.1	4091.9	4091.9	4094.5	4102.3	4097.1
7.5°	4055.7	4060.9	4060.9	4050.5	4042.7	4042.7	4040.1	4042.7	4045.3	4053.1	4050.5
10°	4040.1	4042.7	4029.8	4011.6	3998.7	3998.7	3993.5	3998.7	4011.6	4016.8	4019.4
12.5°	4050.5	4050.5	4027.2	4001.3	3978.0	3967.6	3965.0	3983.2	4006.5	4022.0	4027.2
15°	4063.4	4058.3	4029.8	3996.1	3972.8	3970.2	3967.6	3980.6	4014.2	4045.3	4047.9
17.5°	4071.2	4068.6	4032.4	3990.9	3978.0	3978.0	3975.4	3985.7	4022.0	4060.9	4063.4
20°	4097.1	4089.3	4047.9	4003.9	3993.5	3998.7	3990.9	4003.9	4042.7	4089.3	4099.7
22.5°	4148.9	4141.1	4099.7	4055.7	4050.5	4050.5	4047.9	4060.9	4102.3	4151.5	4159.3
25°	4211.1	4203.3	4164.4	4133.4	4138.5	4148.9	4143.7	4146.3	4180.0	4221.4	4234.4
27.5°	4293.9	4281.0	4247.3	4221.4	4237.0	4237.0	4237.0	4234.4	4255.1	4293.9	4306.9
30°	4394.9	4389.8	4353.5	4350.9	4363.9	4350.9	4350.9	4353.5	4356.1	4392.4	4405.3
32.5°	4527.0	4516.7	4498.5	4493.4	4529.6	4540.0	4503.7	4470.0	4488.2	4524.4	4532.2
35°	4744.6	4729.0	4703.1	4674.6	4703.1	4752.3	4674.6	4648.7	4695.4	4744.6	4749.7
37.5°	5039.8	5032.0	4990.6	4938.8	4936.2	4988.0	4907.7	4905.1	4993.2	5052.8	5060.5
40°	5410.2	5417.9	5366.1	5316.9	5291.0	5332.5	5270.3	5293.6	5379.1	5446.4	5441.2
42.5°	5930.7	5902.2	5821.9	5775.3	5746.8	5731.3	5715.8	5752.0	5847.8	5920.4	5977.3
45°	6539.3	6529.0	6428.0	6371.0	6308.8	6285.5	6280.3	6345.1	6461.6	6549.7	6557.5
47.5°	7228.2	7204.9	7140.2	7080.6	7057.3	7028.8	7002.9	7052.1	7168.7	7230.8	7248.9
50°	7937.8	7943.0	7943.0	7932.7	7956.0	7961.1	7891.2	7909.3	7974.1	7968.9	7963.7
52.5°	8748.4	8776.9	8911.6	8924.6	9035.9	9111.0	8984.1	8909.0	8885.7	8745.9	8756.2
55°	9701.5	9727.4	9929.4	10131.4	10431.8	10558.7	10292.0	10058.9	9893.2	9680.8	9691.1
57.5°	10890.2	10903.2	11094.8	11483.3	11959.8	12257.7	11788.9	11327.9	10991.2	10789.2	10708.9
60°	12169.6	12182.6	12462.3	12936.2	13676.9	14039.5	13459.3	12705.7	12281.0	11972.8	11993.5
62.5°	13705.4	13757.2	14008.4	14661.0	15559.7	15966.3	15197.1	14189.7	13614.7	13231.4	13247.0
65°	15349.9	15438.0	15712.5	16429.9	17258.6	17696.3	16753.6	15590.8	14876.0	14407.2	14456.4
67.5°	16416.9	16494.6	16890.9	17683.4	18716.7	19079.3	17862.1	16507.6	15614.1	15054.7	14951.1
70°	16145.0	16209.7	16738.1	17862.1	19392.6	19851.0	18126.2	16372.9	15321.4	14676.6	14635.1
72.5°	14251.8	14117.2	14888.9	16502.4	18620.9	19390.1	17294.9	14953.7	13630.3	12967.3	12889.6
75°	9445.1	9737.8	10877.3	12778.2	15753.9	16707.0	14762.0	12006.5	10341.2	9789.6	9704.1
77.5°	3157.0	3382.3	4394.9	7243.8	10740.0	12172.2	10755.6	7852.4	5555.2	4475.2	4495.9
80°	836.5	826.2	1069.6	1991.6	4641.0	7049.5	5402.4	2659.8	1455.5	1054.1	999.7
82.5°	300.4	336.7	432.5	551.6	1230.2	2191.0	1546.1	745.9	546.5	404.0	391.1
85°	132.1	129.5	186.5	220.1	308.2	409.2	362.6	316.0	277.1	183.9	170.9
87.5°	28.5	28.5	44.0	33.7	54.4	54.4	67.3	80.3	82.9	54.4	44.0
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)