

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: P530408

Luminaire Tested: **GALN-SA5C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23312 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

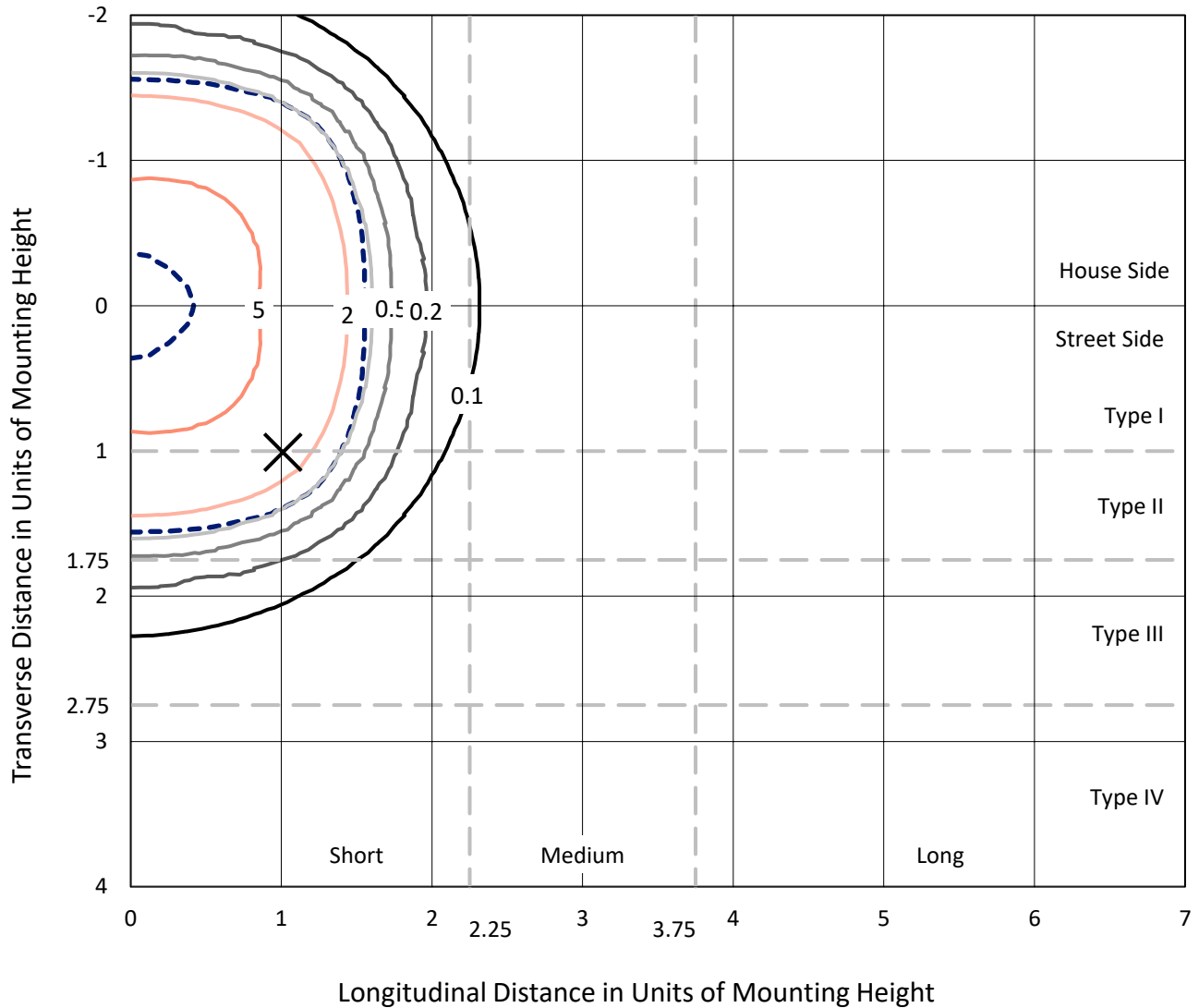
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530408
 CATALOG NUMBER: GALN-SA5C-827-U-5NQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

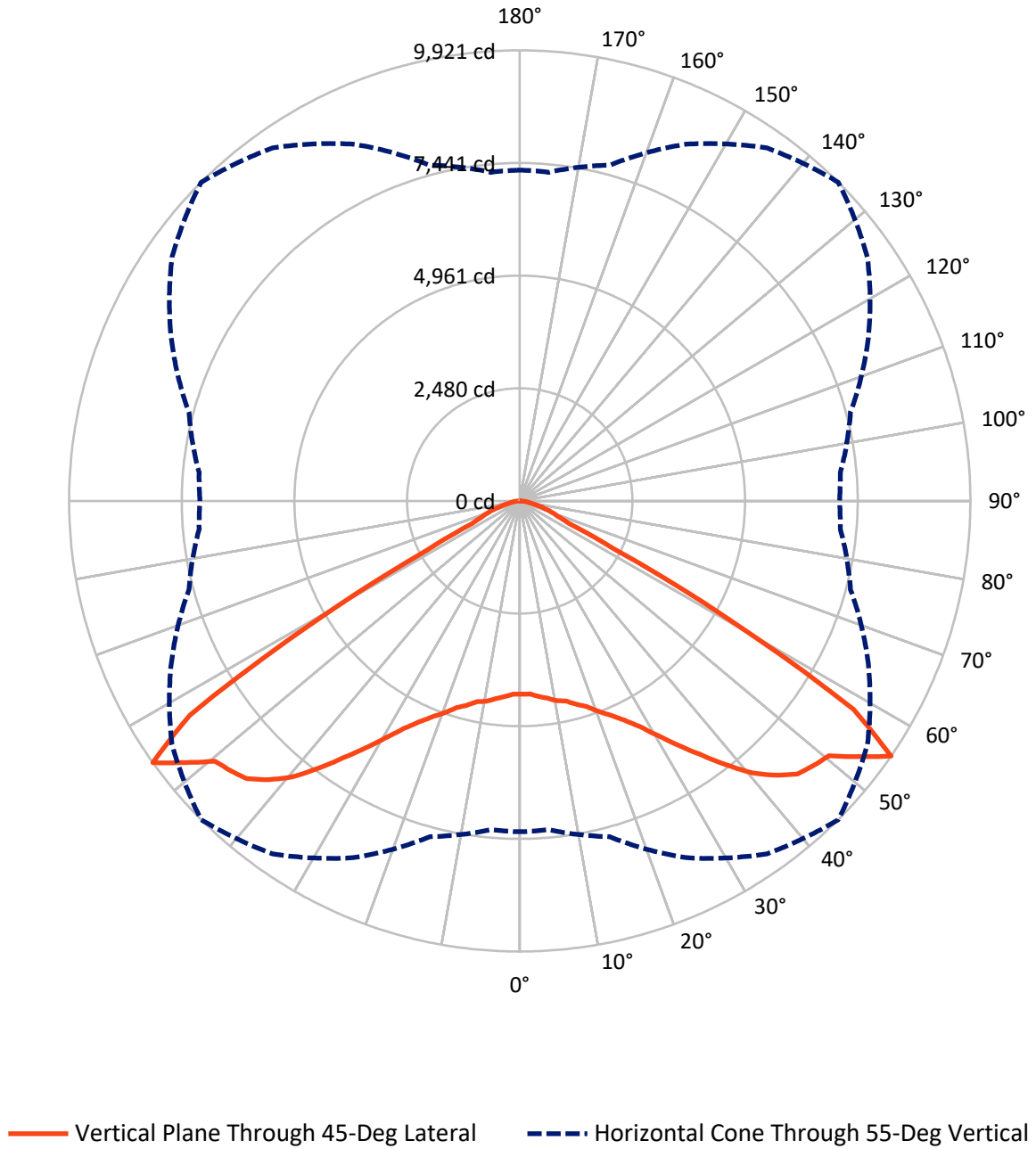
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

REPORT NUMBER: P530408
CATALOG NUMBER: GALN-SA5C-827-U-5NQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P530408
 CATALOG NUMBER: GALN-SA5C-827-U-5NQ-GRSWH

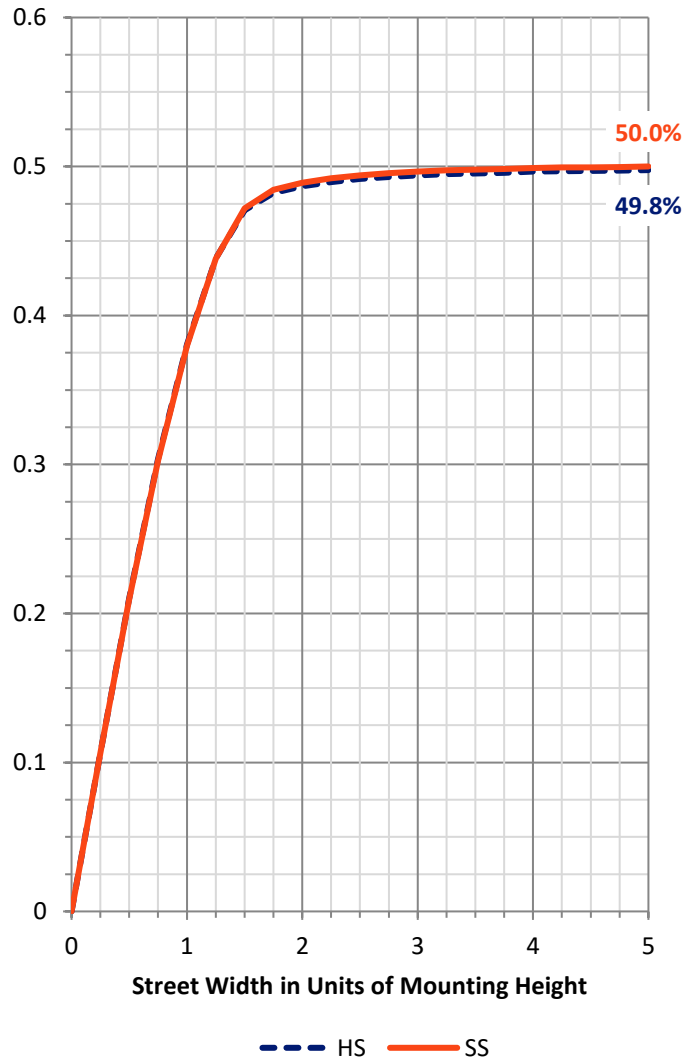
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11656.0	0.0	11656.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11656.0	0.0	11656.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23312.0	0.0	23312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	1.8
10°-20°	1317.5	5.7
20°-30°	2456.7	10.5
30°-40°	4113.4	17.6
40°-50°	6400.7	27.5
50°-60°	6645.9	28.5
60°-70°	1409.4	6.0
70°-80°	464.2	2.0
80°-90°	88.4	0.4
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°	23312.0	100.0
0°-180°	23312.0	100.0

Coefficient of Utilization



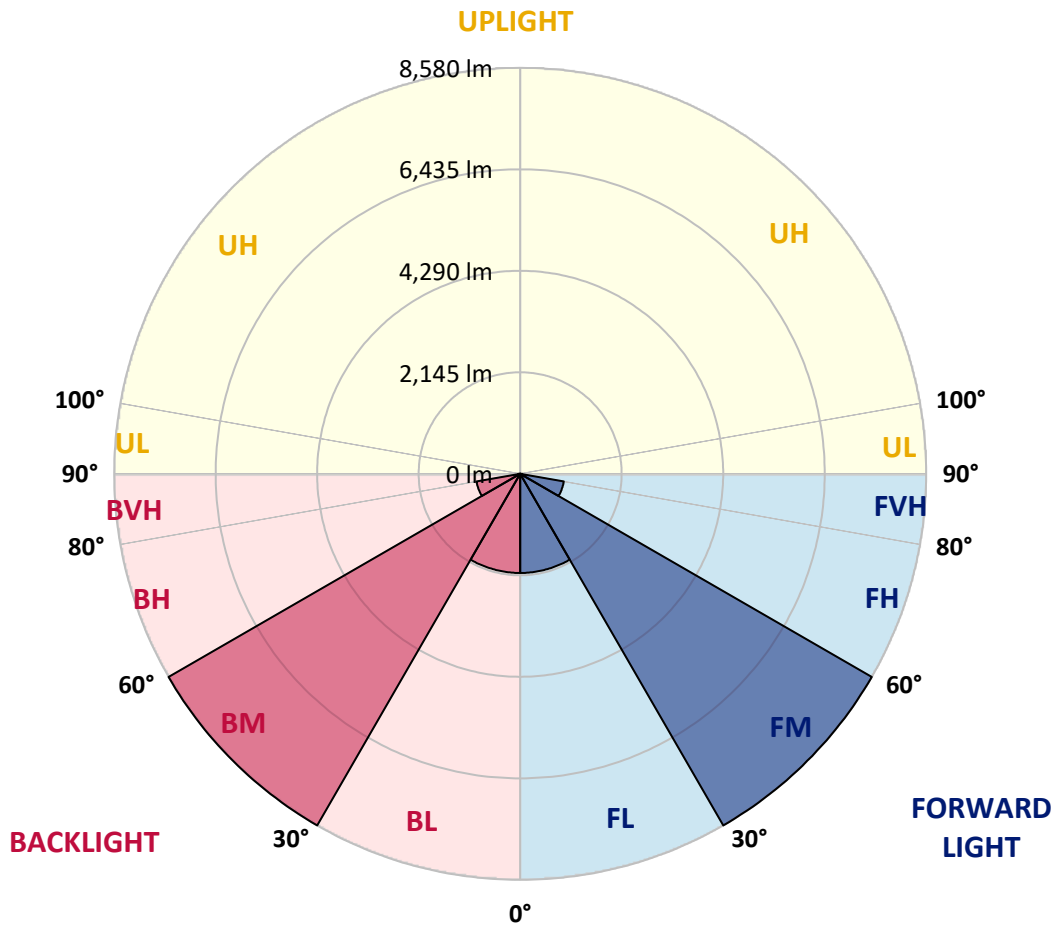
REPORT NUMBER: P530408
 CATALOG NUMBER: GALN-SA5C-827-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2095.0	9.0			
FM (30°-60°)	8580.0	36.8			
FH (60°-80°)	936.8	4.0			G1/1800
FVH (80°-90°)	44.2	0.2			G1/100
BL (0°-30°)	2095.0	9.0	B3/2500		
BM (30°-60°)	8580.0	36.8	B5		
BH (60°-80°)	936.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	44.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





REPORT NUMBER: P530408

CATALOG NUMBER: GALN-SA5C-827-U-5NQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4
2.5°	4307.1	4287.4	4253.6	4279.0	4298.7	4256.4	4273.3	4281.8	4276.1	4253.6	4262.1
5°	4369.1	4357.8	4329.7	4349.4	4324.0	4324.0	4307.1	4284.6	4318.4	4312.8	4326.8
7.5°	4369.1	4355.0	4411.4	4374.7	4386.0	4386.0	4357.8	4335.3	4352.2	4326.8	4312.8
10°	4456.4	4476.1	4450.8	4459.2	4453.6	4473.3	4431.1	4417.0	4402.9	4394.5	4377.6
12.5°	4560.7	4546.6	4555.0	4549.4	4569.1	4518.4	4493.0	4462.1	4487.4	4450.8	4476.1
15°	4645.2	4636.7	4645.2	4667.7	4648.0	4645.2	4600.1	4569.1	4529.7	4538.1	4498.7
17.5°	4760.7	4752.2	4755.0	4774.7	4771.9	4757.8	4724.0	4664.9	4650.8	4628.3	4602.9
20°	4932.5	4918.4	4912.8	4921.2	4935.3	4946.6	4879.0	4856.4	4808.5	4771.9	4729.7
22.5°	5079.0	5073.3	5095.9	5059.3	5090.2	5124.0	5059.3	5048.0	4929.7	4910.0	4864.9
25°	5281.8	5273.3	5259.3	5312.8	5349.4	5346.6	5284.6	5222.6	5132.5	5110.0	5110.0
27.5°	5495.9	5448.0	5521.2	5535.3	5600.1	5619.8	5566.3	5476.2	5391.7	5343.8	5355.0
30°	5763.5	5718.4	5735.3	5836.7	5921.2	5994.5	5859.3	5726.9	5608.6	5524.1	5510.0
32.5°	6031.1	5986.0	6036.7	6135.3	6304.4	6414.2	6281.8	6050.8	5912.8	5788.8	5814.2
35°	6248.0	6281.8	6363.5	6512.8	6687.5	6864.9	6653.7	6476.2	6279.0	6141.0	6160.7
37.5°	6597.3	6701.5	6766.3	6938.2	7186.1	7369.2	7149.4	6918.4	6707.2	6526.9	6464.9
40°	7053.7	7124.1	7197.3	7400.1	7693.1	7876.2	7667.8	7366.3	7157.9	6972.0	6963.5
42.5°	7555.1	7622.7	7698.7	7946.6	8121.3	8259.3	8067.8	7907.2	7676.2	7529.7	7521.3
45°	8138.2	8090.3	8174.8	8338.2	8484.7	8574.8	8450.9	8372.0	8205.8	8070.6	8056.5
47.5°	8526.9	8484.7	8636.8	8783.3	8805.8	8707.2	8732.6	8805.8	8631.2	8408.6	8479.0
50°	8752.3	8752.3	8853.7	8988.9	8946.7	8819.9	9019.9	9025.5	8850.9	8653.7	8653.7
52.5°	8360.7	8448.1	8735.4	9177.6	9318.5	9355.1	9310.0	9118.5	8662.1	8259.3	8239.6
55°	7284.7	7264.9	7653.7	8667.8	9487.5	9921.3	9346.7	8465.0	7538.2	7084.6	7039.6
57.5°	4738.1	4760.7	5341.0	6374.8	7853.7	8662.1	7693.1	6453.7	5341.0	4715.6	4774.7
60°	2132.4	2208.5	2560.6	3332.5	4602.9	5262.1	4614.2	3501.5	2687.4	2332.4	2363.4
62.5°	1225.4	1239.5	1253.5	1487.4	1960.6	2318.4	2036.7	1571.9	1385.9	1324.0	1324.0
65°	1033.8	1025.4	1028.2	1047.9	1098.6	1171.9	1140.9	1098.6	1104.2	1098.6	1090.2
67.5°	878.9	890.2	881.7	895.8	898.6	909.9	929.6	946.5	949.3	954.9	949.3
70°	721.1	724.0	729.6	740.9	743.7	752.1	780.3	794.4	802.8	802.8	814.1
72.5°	552.1	549.3	554.9	566.2	580.3	583.1	608.5	628.2	639.4	625.4	628.2
75°	363.4	366.2	374.7	383.1	402.8	422.5	431.0	450.7	453.5	459.2	445.1
77.5°	216.9	222.5	231.0	247.9	264.8	281.7	301.4	315.5	321.1	315.5	298.6
80°	140.8	140.8	152.1	166.2	185.9	200.0	211.3	222.5	231.0	222.5	216.9
82.5°	87.3	87.3	101.4	118.3	132.4	140.8	157.7	171.8	180.3	174.7	166.2
85°	45.1	47.9	59.2	73.2	84.5	90.1	87.3	78.9	70.4	67.6	62.0
87.5°	14.1	14.1	16.9	16.9	14.1	14.1	16.9	14.1	16.9	16.9	16.9
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)