

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: P534157

Luminaire Tested: **GALN-SA9C-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30279 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

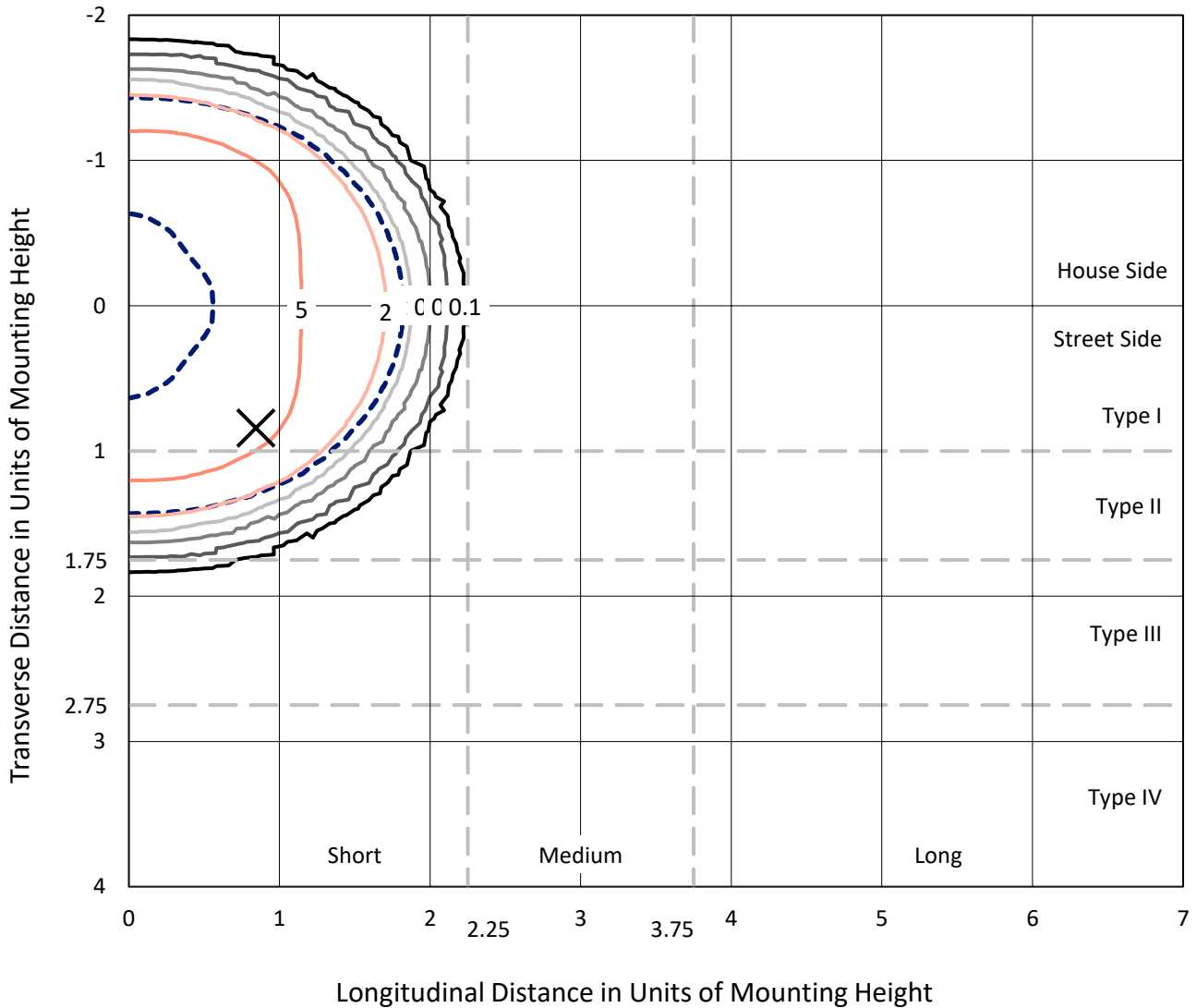
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534157
 CATALOG NUMBER: GALN-SA9C-827-U-RW-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

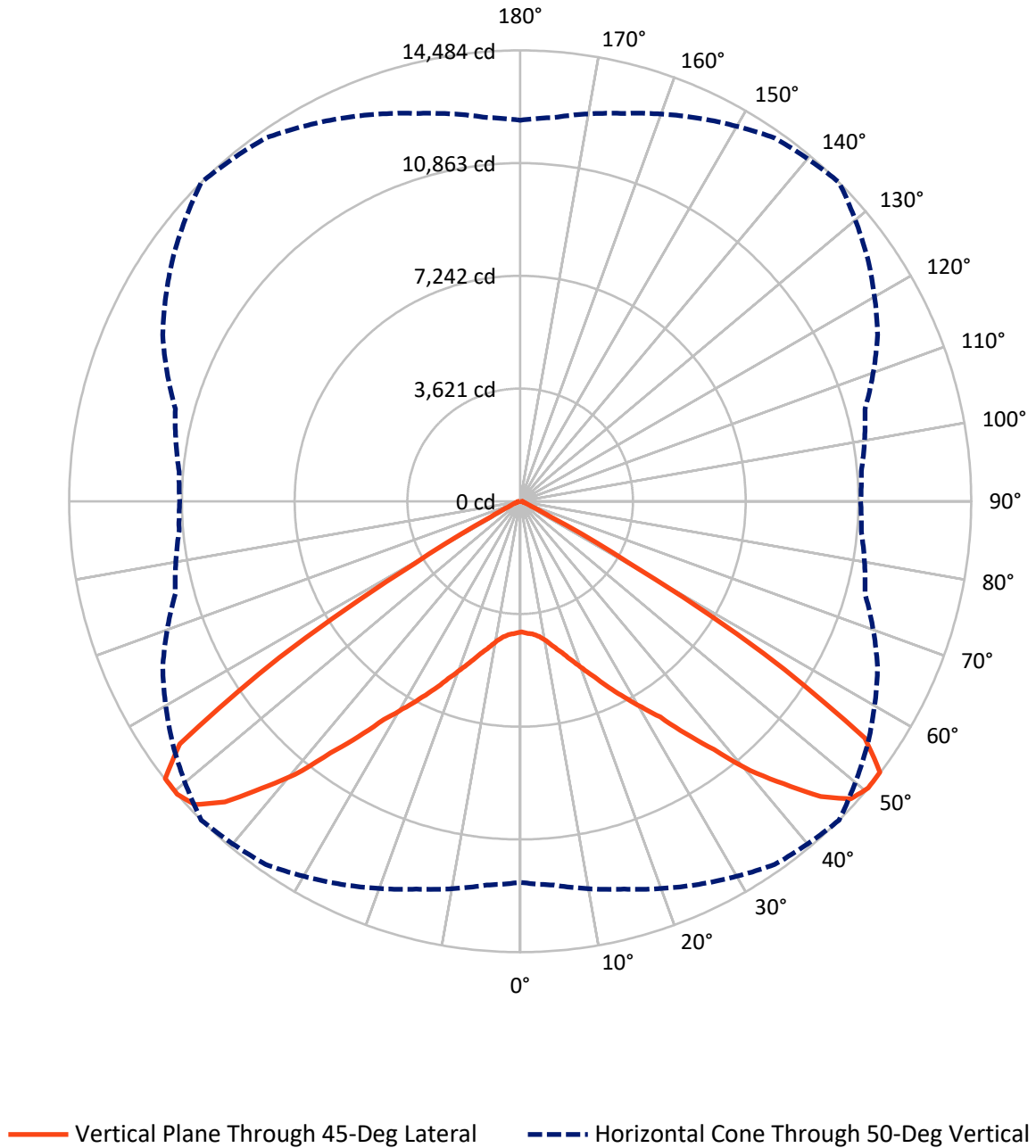
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

REPORT NUMBER: P534157
CATALOG NUMBER: GALN-SA9C-827-U-RW-GRSBK

Luminous Intensity Polar Plot



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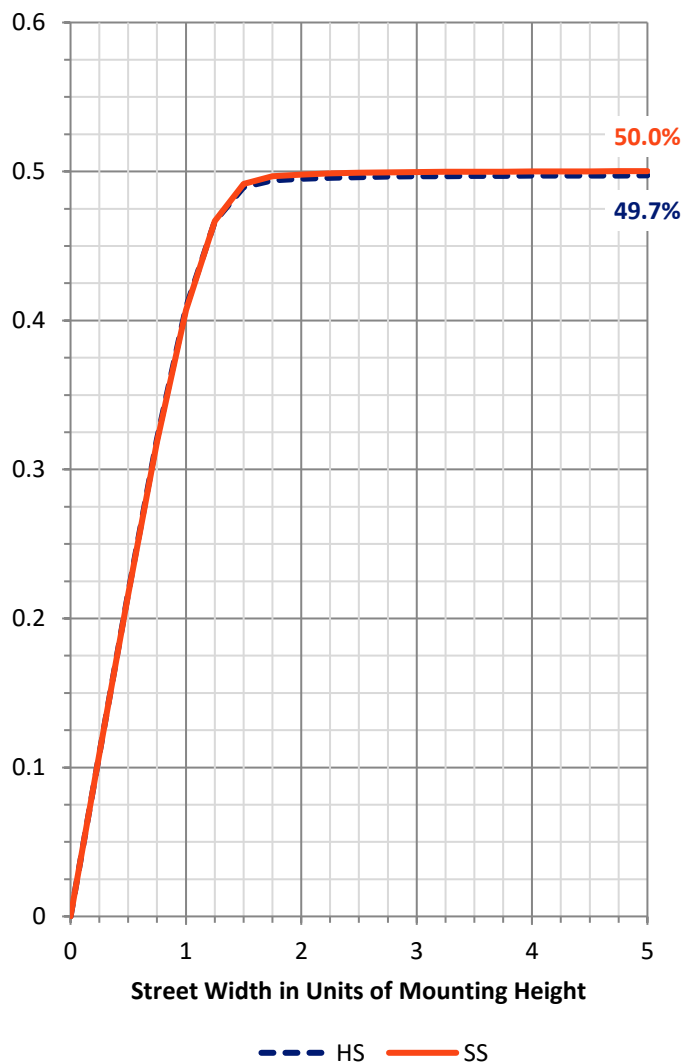
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15139.5	0.0	15139.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15139.5	0.0	15139.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30279.0	0.0	30279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.6	1.4
10°-20°	1439.4	4.8
20°-30°	2939.8	9.7
30°-40°	5606.1	18.5
40°-50°	9447.1	31.2
50°-60°	9009.5	29.8
60°-70°	1257.7	4.2
70°-80°	120.3	0.4
80°-90°	41.6	0.1
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°	30279.0	100.0
0°-180°	30279.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534157

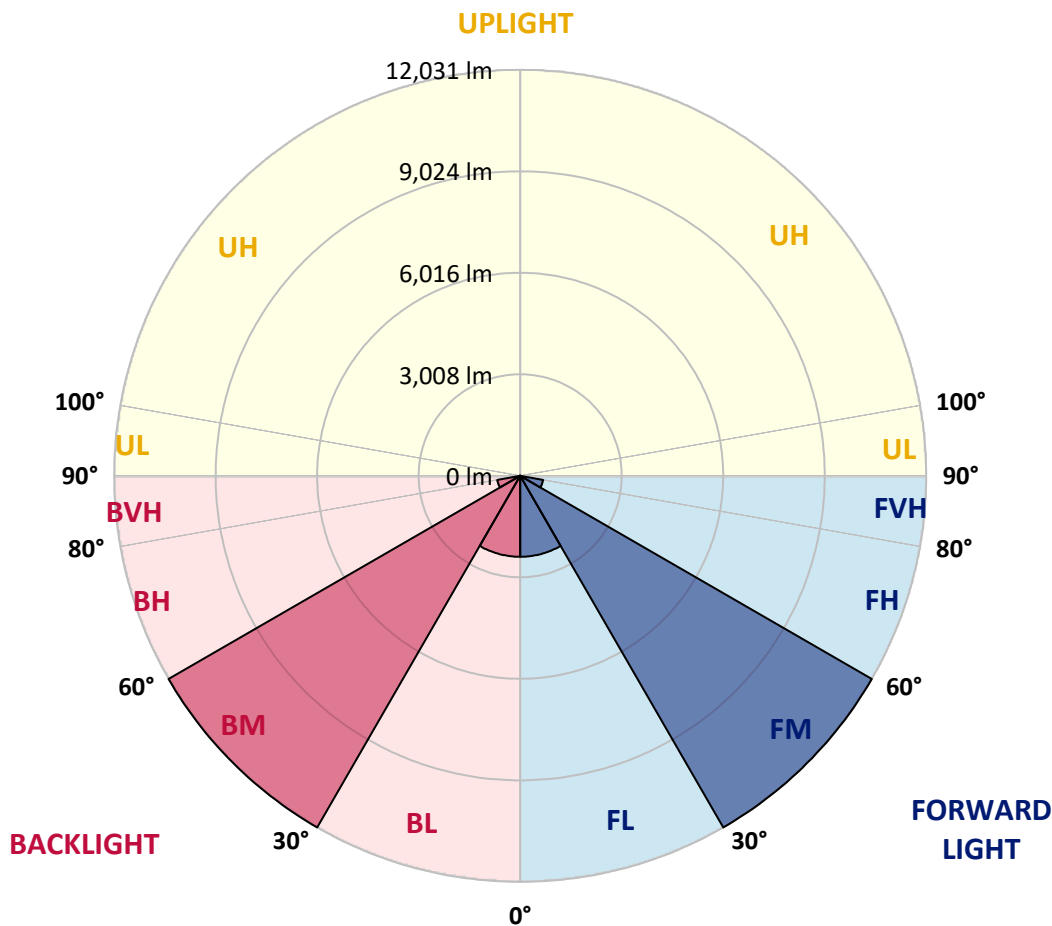
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.4	7.9			
FM (30°-60°)	12031.4	39.7			
FH (60°-80°)	689.0	2.3			G1/1800
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	2398.4	7.9	B3/2500		
BM (30°-60°)	12031.4	39.7	B5		
BH (60°-80°)	689.0	2.3	B2/1000		G1/1800
BVH (80°-90°)	20.8	0.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4197.9	4197.9	4197.9	4197.9	4197.9	4197.9	4197.9	4197.9	4197.9	4197.9	4197.9
2.5°	4182.6	4182.6	4177.5	4218.2	4197.9	4243.7	4238.6	4253.9	4269.2	4264.1	4304.8
5°	4146.9	4141.8	4141.8	4187.7	4233.5	4284.5	4330.3	4360.9	4411.8	4411.8	4462.8
7.5°	4182.6	4157.1	4192.8	4213.1	4299.7	4386.3	4462.8	4523.9	4641.1	4681.8	4666.5
10°	4192.8	4223.3	4248.8	4309.9	4416.9	4549.4	4615.6	4768.4	4900.9	4992.6	5013.0
12.5°	4259.0	4304.8	4376.2	4523.9	4620.7	4793.9	4885.6	5033.3	5216.7	5318.6	5390.0
15°	4386.3	4401.6	4493.3	4681.8	4890.7	5048.6	5191.3	5298.3	5476.6	5593.7	5598.8
17.5°	4549.4	4615.6	4743.0	4921.3	5140.3	5374.7	5486.8	5603.9	5670.2	5828.1	5863.7
20°	4875.4	4885.6	5007.9	5242.2	5517.3	5731.3	5812.8	5873.9	5848.5	6011.5	6042.1
22.5°	5181.1	5191.3	5344.1	5660.0	5955.4	6138.8	6174.5	6138.8	6062.4	6179.6	6189.8
25°	5491.8	5583.5	5695.6	6011.5	6378.3	6622.8	6627.9	6531.1	6373.2	6393.6	6444.5
27.5°	5975.8	6042.1	6159.2	6449.6	6852.1	7127.2	7081.3	6964.2	6760.4	6775.7	6760.4
30°	6541.3	6602.4	6699.2	7071.1	7366.6	7667.2	7733.4	7621.3	7315.7	7249.4	7325.9
32.5°	7224.0	7310.6	7488.9	7830.2	8079.8	8263.2	8309.1	8268.3	7983.0	7957.6	8008.5
35°	8054.4	8171.5	8334.6	8635.1	8838.9	9170.1	9170.1	9032.5	8772.7	8803.3	8798.2
37.5°	8930.6	9103.8	9358.6	9664.2	9939.3	10117.6	10061.6	9944.4	9684.6	9618.4	9684.6
40°	10031.0	10117.6	10438.6	10836.0	11172.2	11376.0	11136.5	10881.8	10260.3	10357.1	10535.4
42.5°	11034.6	11172.2	11416.7	11854.9	12236.9	12405.1	12119.8	11615.4	10866.5	10790.1	10922.6
45°	11890.5	12038.3	12359.2	12985.8	13388.3	13536.0	12904.3	12089.2	11233.3	11039.7	11095.8
47.5°	12461.1	12537.5	12985.8	13581.9	13948.7	14284.9	13378.1	12415.2	11406.5	11039.7	11019.4
50°	12242.0	12374.5	12899.2	13576.8	14244.2	14483.6	13617.5	12664.9	11462.6	10993.9	10932.8
52.5°	10871.6	11100.9	11686.7	12598.6	13607.4	14463.2	13948.7	12583.4	11442.2	11039.7	11131.4
55°	7565.3	7570.4	8283.6	9628.6	11411.6	13429.0	13464.7	12675.1	11574.7	11325.0	11330.1
57.5°	3041.4	3194.2	3739.3	5089.4	6734.9	9221.0	10963.3	11758.1	11589.9	11528.8	11686.7
60°	769.3	774.4	942.5	1436.6	2368.9	3953.3	5741.5	7769.1	8945.9	9348.4	9404.4
62.5°	392.3	397.4	438.1	509.4	647.0	1059.7	1885.0	2990.5	4253.9	4895.8	5063.9
65°	321.0	321.0	346.4	382.1	387.2	407.6	489.1	697.9	1013.8	1151.4	1166.6
67.5°	244.5	244.5	264.9	285.3	295.5	290.4	280.2	290.4	351.5	336.2	326.0
70°	152.8	157.9	168.1	188.5	198.7	203.8	208.9	219.1	249.6	259.8	249.6
72.5°	91.7	91.7	96.8	112.1	127.4	137.6	152.8	163.0	178.3	203.8	198.7
75°	40.8	40.8	50.9	66.2	81.5	96.8	112.1	127.4	137.6	152.8	157.9
77.5°	10.2	15.3	25.5	45.9	61.1	81.5	101.9	117.2	127.4	127.4	122.3
80°	5.1	5.1	20.4	35.7	66.2	86.6	112.1	122.3	137.6	127.4	112.1
82.5°	5.1	5.1	20.4	35.7	61.1	86.6	117.2	132.5	142.6	127.4	107.0
85°	0.0	5.1	15.3	30.6	50.9	61.1	50.9	35.7	20.4	20.4	15.3
87.5°	0.0	0.0	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)