

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: P532513

Luminaire Tested: **GALN-SA7D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27211 lumens
Efficiency: N/A
Efficacy: 62.8 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

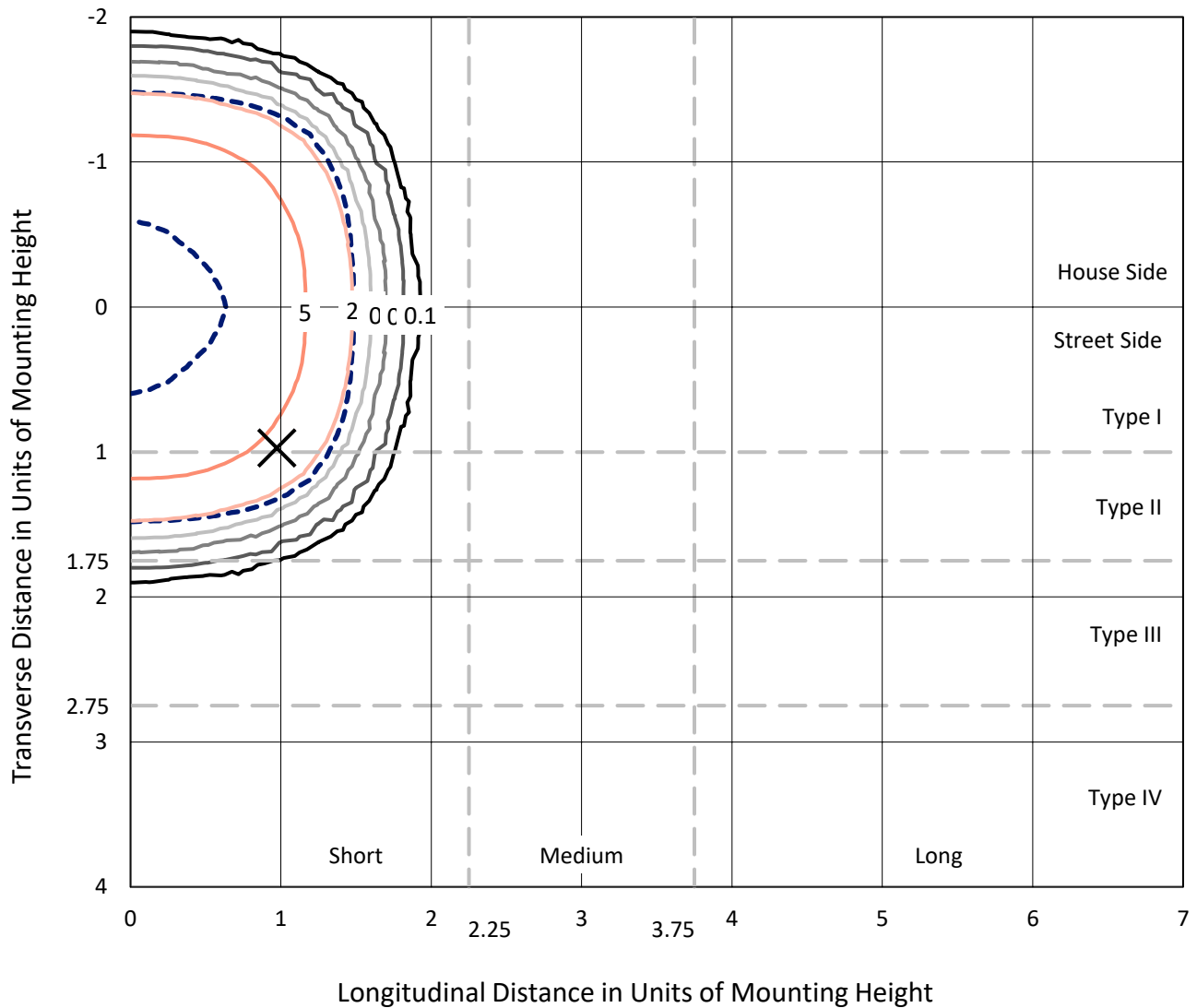
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532513
 CATALOG NUMBER: GALN-SA7D-827-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

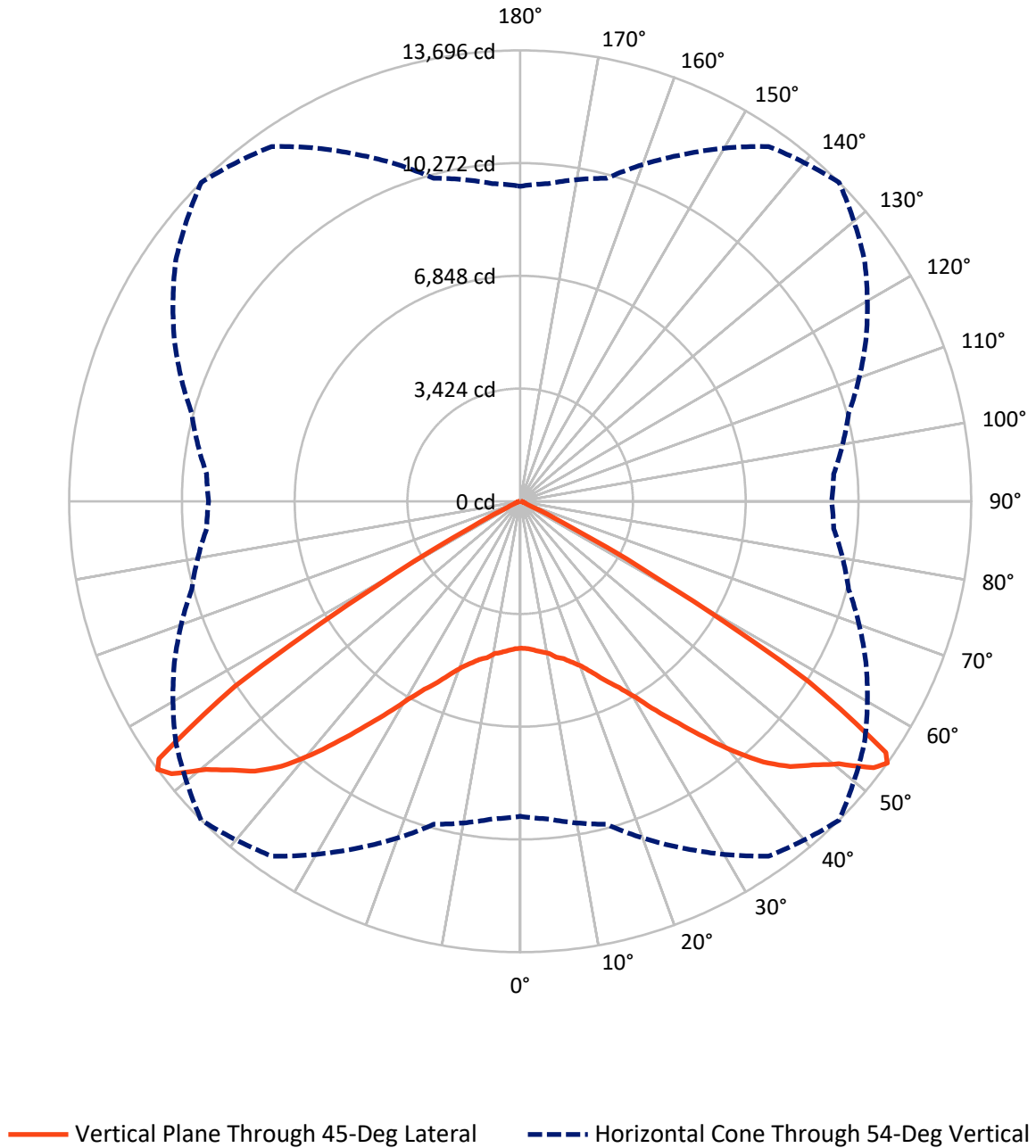
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

REPORT NUMBER: P532513
CATALOG NUMBER: GALN-SA7D-827-U-5NQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P532513
 CATALOG NUMBER: GALN-SA7D-827-U-5NQ-GRSBK

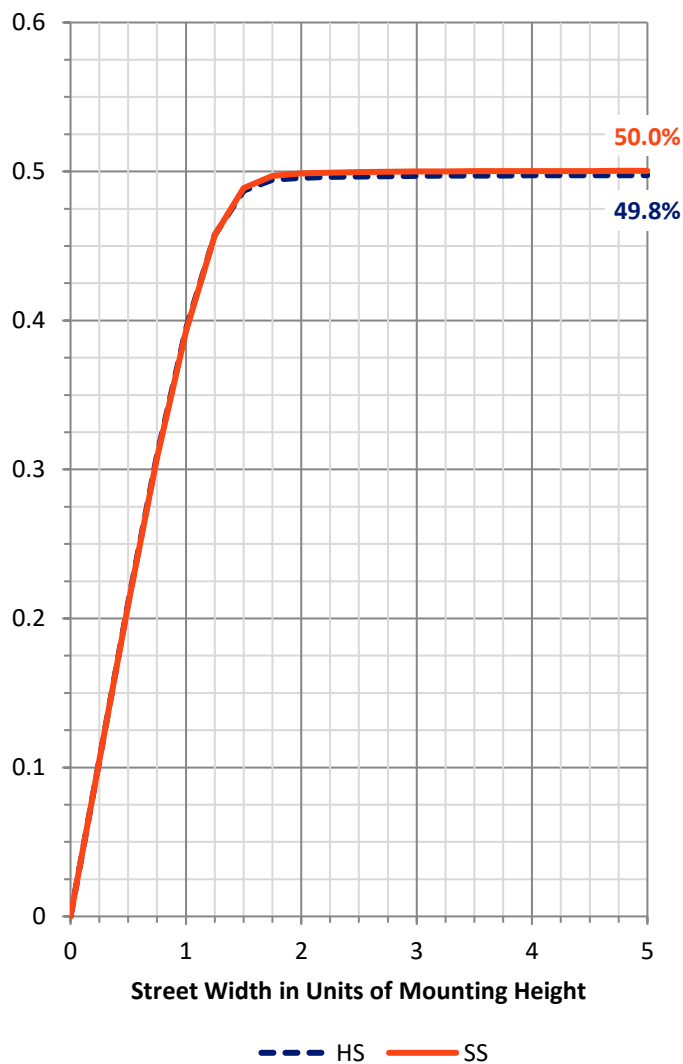
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13605.5	0.0	13605.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13605.5	0.0	13605.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27211.0	0.0	27211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	1.6
10°-20°	1414.2	5.2
20°-30°	2771.7	10.2
30°-40°	4984.2	18.3
40°-50°	8532.0	31.4
50°-60°	8255.5	30.3
60°-70°	706.7	2.6
70°-80°	83.8	0.3
80°-90°	26.3	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°	27211.0	100.0
0°-180°	27211.0	100.0

Coefficient of Utilization

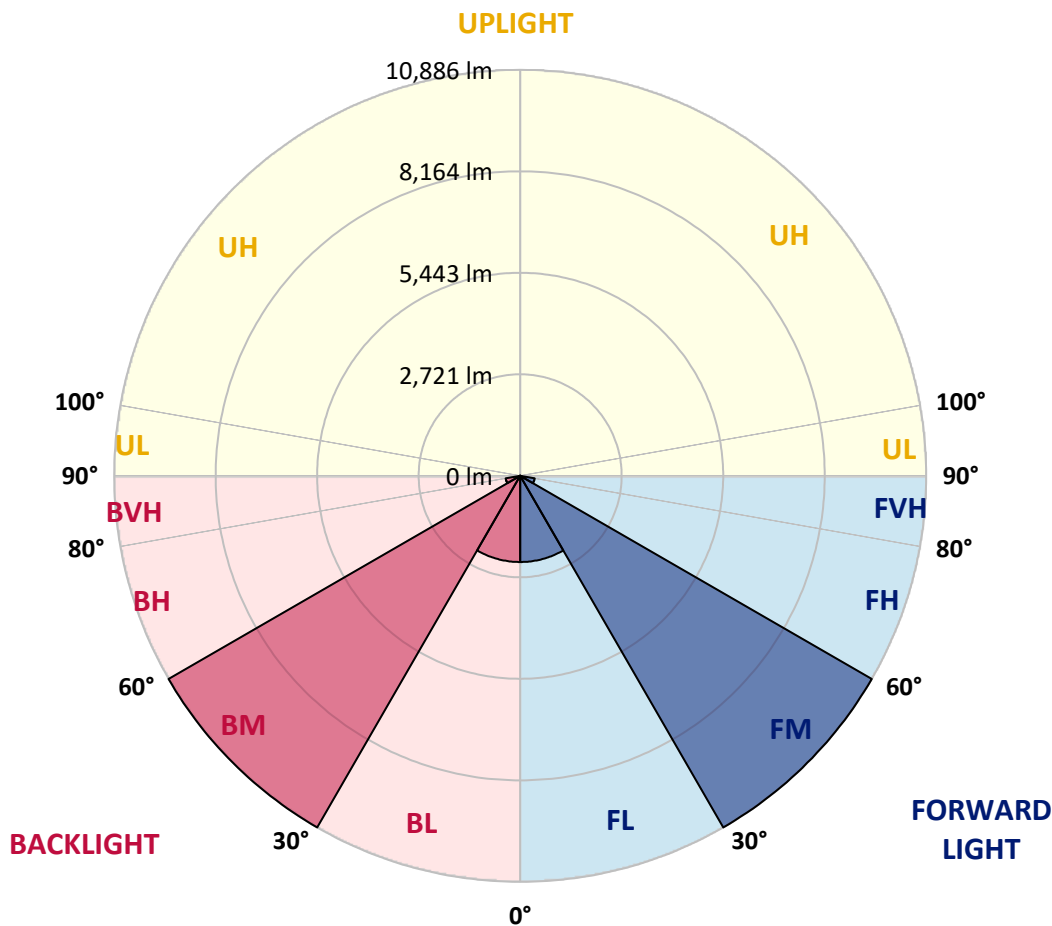


REPORT NUMBER: P532513
 CATALOG NUMBER: GALN-SA7D-827-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2311.3	8.5			
FM (30°-60°)	10885.8	40.0			
FH (60°-80°)	395.2	1.5			G0/660
FVH (80°-90°)	13.1	0.0			G1/100
BL (0°-30°)	2311.3	8.5	B3/2500		
BM (30°-60°)	10885.8	40.0	B5		
BH (60°-80°)	395.2	1.5	B1/500		G0/660
BVH (80°-90°)	13.1	0.0			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: P532513

CATALOG NUMBER: GALN-SA7D-827-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4461.8	4461.8	4461.8	4461.8	4461.8	4461.8	4461.8	4461.8	4461.8	4461.8	4461.8
2.5°	4483.3	4509.2	4491.9	4504.9	4504.9	4483.3	4496.2	4444.5	4479.0	4453.1	4457.4
5°	4552.3	4548.0	4548.0	4552.3	4535.0	4543.7	4526.4	4509.2	4496.2	4479.0	4530.7
7.5°	4638.5	4638.5	4608.3	4616.9	4608.3	4621.3	4586.8	4552.3	4539.4	4526.4	4517.8
10°	4720.4	4711.8	4698.9	4737.7	4707.5	4690.2	4673.0	4651.4	4604.0	4586.8	4569.5
12.5°	4841.1	4836.8	4819.6	4858.4	4841.1	4858.4	4793.7	4737.7	4729.0	4673.0	4703.2
15°	4983.4	5022.2	4992.0	4992.0	4983.4	4961.8	4936.0	4910.1	4832.5	4810.9	4815.2
17.5°	5168.7	5155.8	5160.1	5160.1	5203.2	5147.2	5095.5	5030.8	4992.0	4979.1	4936.0
20°	5345.5	5362.7	5358.4	5388.6	5414.5	5354.1	5298.1	5289.4	5181.7	5198.9	5138.6
22.5°	5655.9	5642.9	5664.5	5686.0	5668.8	5660.2	5608.4	5543.8	5448.9	5405.8	5397.2
25°	5983.5	5961.9	5923.1	5974.9	6000.7	6039.5	5940.4	5905.9	5759.3	5694.7	5699.0
27.5°	6263.7	6293.9	6337.0	6358.5	6423.2	6410.3	6341.3	6229.2	6117.1	6043.8	5996.4
30°	6647.4	6664.6	6737.9	6768.1	6880.2	6910.3	6802.6	6673.2	6474.9	6380.1	6324.1
32.5°	7000.9	7121.6	7117.3	7268.1	7449.2	7574.2	7380.2	7181.9	6983.6	6871.5	6772.4
35°	7574.2	7552.7	7677.7	7837.2	8130.3	8272.6	8061.3	7832.9	7531.1	7350.0	7272.4
37.5°	8108.8	8117.4	8285.5	8539.8	8876.1	9095.9	8910.6	8535.5	8225.2	7992.4	7884.6
40°	8884.7	8902.0	9074.4	9363.2	9742.6	9979.7	9764.1	9384.8	8970.9	8789.9	8789.9
42.5°	9794.3	9867.6	9979.7	10229.7	10570.3	10833.2	10639.2	10341.8	9923.6	9690.8	9725.3
45°	10729.8	10764.3	10837.5	11208.3	11367.8	11497.1	11316.0	11178.1	10897.9	10613.4	10566.0
47.5°	11604.9	11617.8	11833.4	11949.7	12074.8	11967.0	12083.4	11902.3	11587.6	11311.7	11255.7
50°	11992.9	11971.3	12277.4	12630.9	12725.7	12536.0	12436.9	12316.2	11837.7	11505.7	11359.2
52.5°	10863.4	10988.4	11557.5	12540.3	13281.8	13441.3	12863.7	12307.5	11415.2	10768.6	10669.4
54°	9570.1	9686.5	10156.4	11613.5	13156.8	13695.7	12764.5	11583.3	10324.5	9557.2	9458.1
55°	8289.8	8160.5	9014.0	10501.3	12570.5	13471.5	12372.2	10647.9	9208.0	8505.4	8367.4
57.5°	4487.6	4509.2	5229.1	6634.4	8833.0	10328.9	9121.8	7203.5	5440.3	4651.4	4582.5
60°	1422.6	1457.1	1771.8	2681.4	4220.3	5039.4	4319.5	2892.6	2000.2	1603.6	1539.0
62.5°	444.0	461.3	504.4	750.1	1155.3	1651.1	1293.3	776.0	577.7	530.2	538.9
65°	271.6	271.6	275.9	293.1	344.9	400.9	388.0	340.6	327.6	319.0	314.7
67.5°	176.7	172.4	181.1	194.0	202.6	206.9	219.9	232.8	228.5	219.9	219.9
70°	107.8	103.5	112.1	129.3	133.6	142.3	155.2	172.4	168.1	159.5	163.8
72.5°	60.4	60.4	64.7	77.6	90.5	99.2	112.1	125.0	129.3	125.0	125.0
75°	21.6	25.9	34.5	47.4	56.0	69.0	81.9	94.8	107.8	99.2	94.8
77.5°	8.6	8.6	17.2	30.2	43.1	56.0	77.6	90.5	99.2	90.5	81.9
80°	4.3	4.3	12.9	25.9	38.8	51.7	64.7	77.6	81.9	73.3	64.7
82.5°	4.3	4.3	12.9	25.9	38.8	47.4	69.0	77.6	86.2	77.6	64.7
85°	0.0	4.3	12.9	25.9	34.5	38.8	38.8	25.9	21.6	12.9	12.9
87.5°	0.0	0.0	4.3	0.0	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)