

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: P534391

Luminaire Tested: **GALN-SA9D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534391
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-SA9D-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 33317 lumens
Efficiency: N/A
Efficacy: 60.4 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

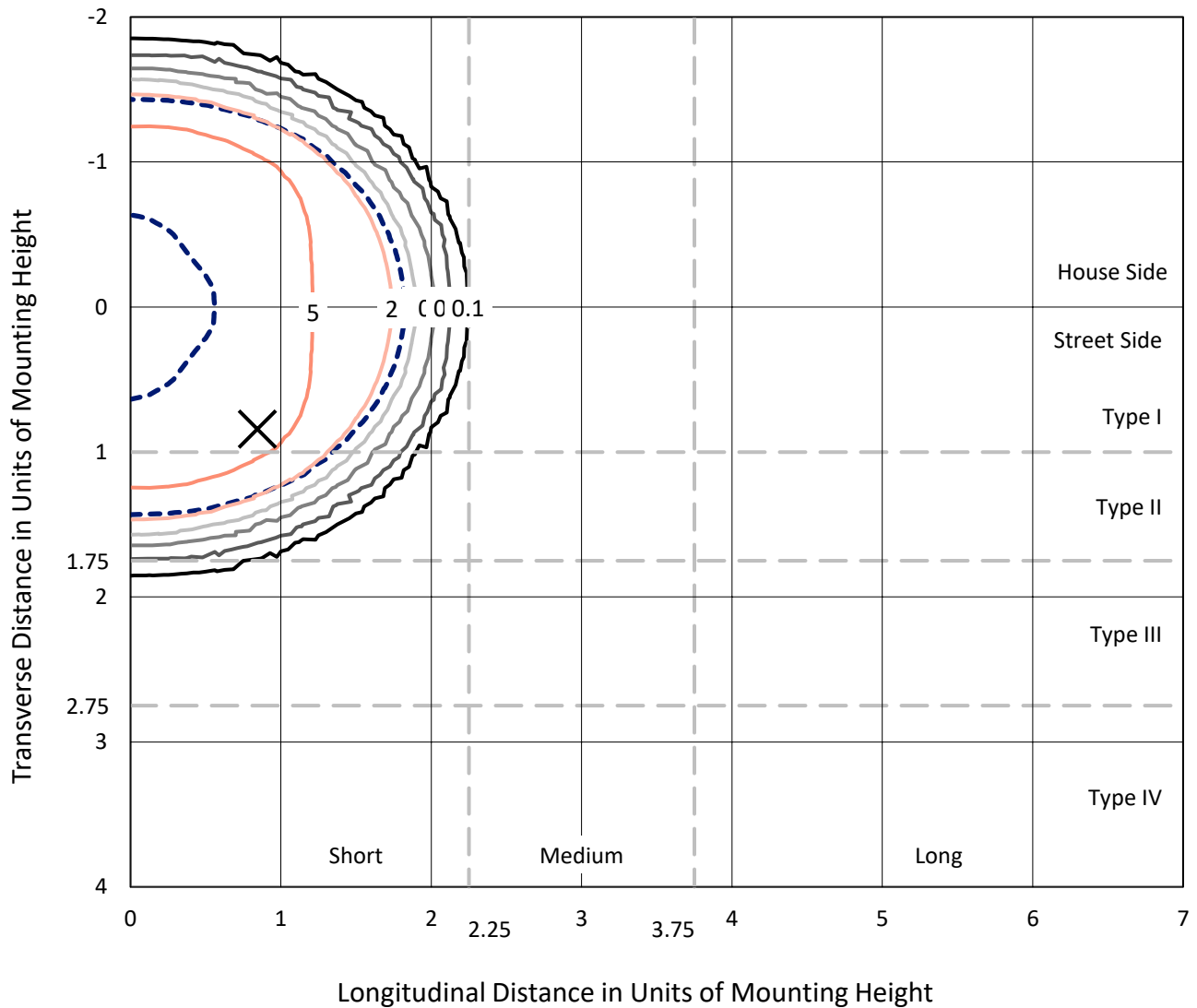
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534391
 CATALOG NUMBER: GALN-SA9D-827-U-RW-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

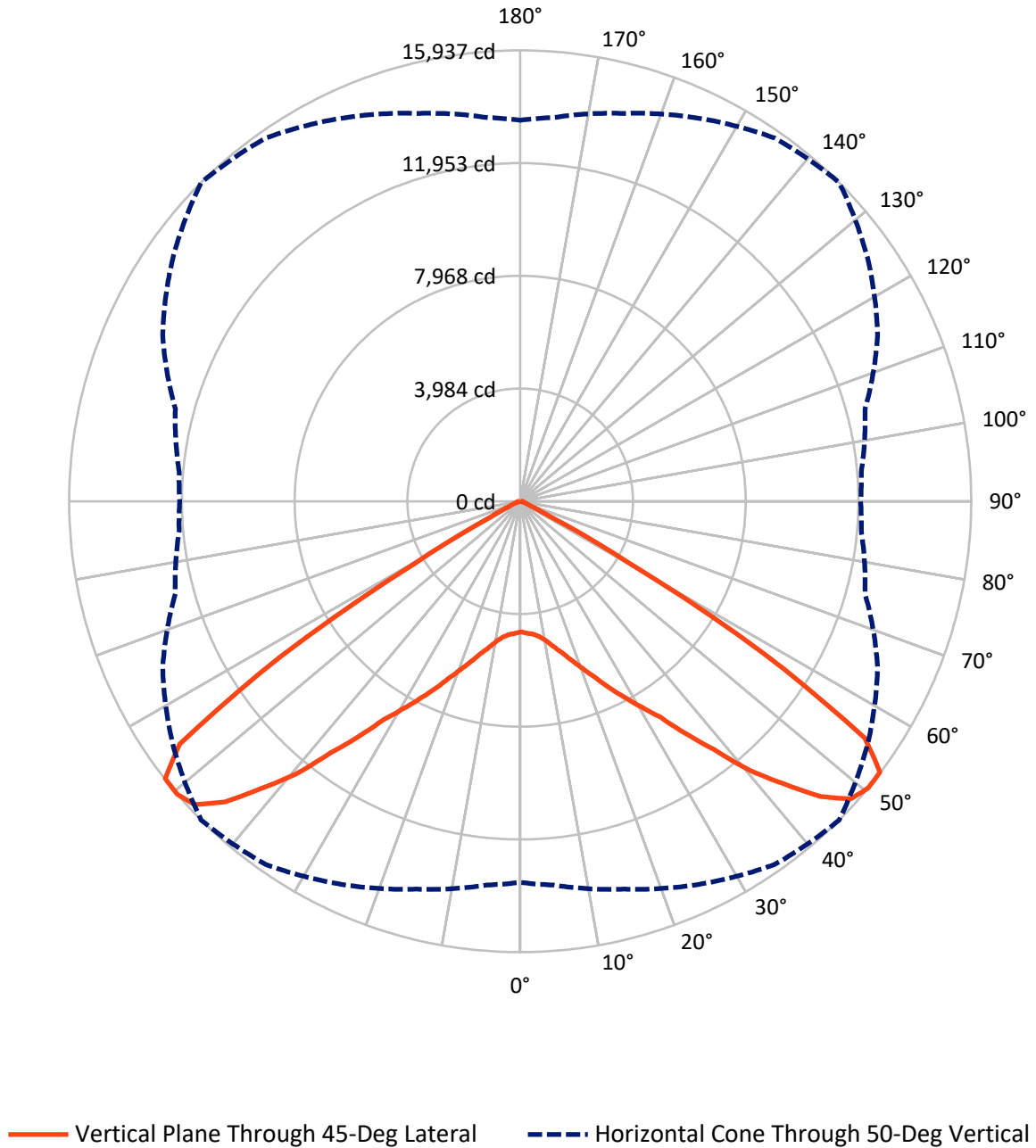
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type V - Short - N/A

REPORT NUMBER: P534391
CATALOG NUMBER: GALN-SA9D-827-U-RW-GRSBK

Luminous Intensity Polar Plot



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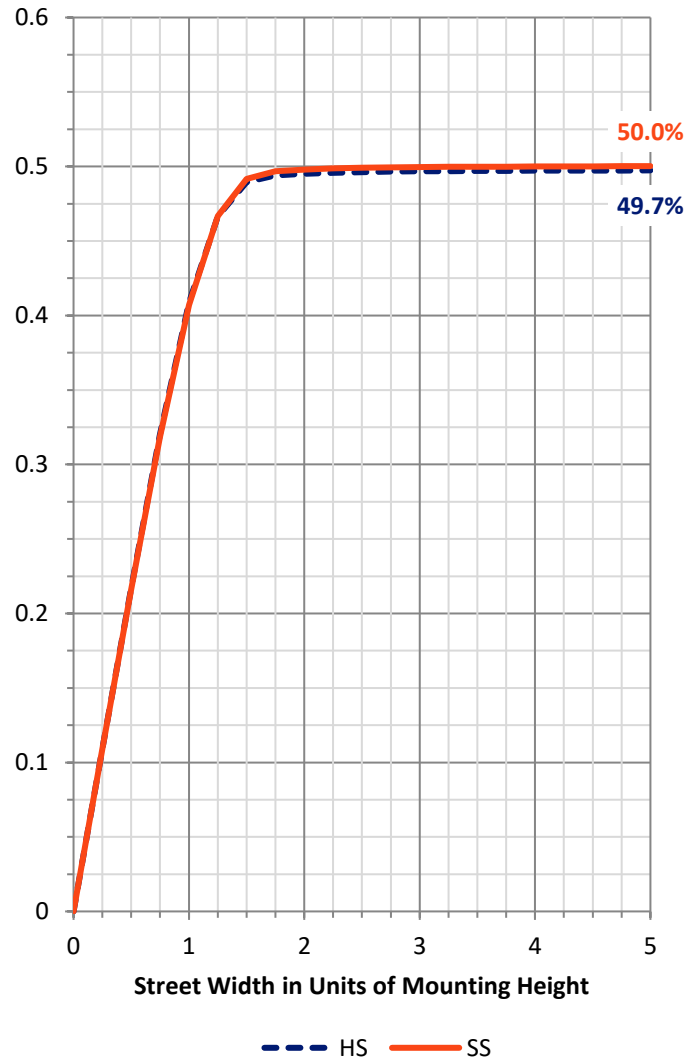
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16658.5	0.0	16658.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16658.5	0.0	16658.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33317.0	0.0	33317.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.5	1.4
10°-20°	1583.8	4.8
20°-30°	3234.7	9.7
30°-40°	6168.6	18.5
40°-50°	10395.0	31.2
50°-60°	9913.5	29.8
60°-70°	1383.9	4.2
70°-80°	132.3	0.4
80°-90°	45.7	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°	33317.0	100.0
0°-180°	33317.0	100.0



REPORT NUMBER: P534391

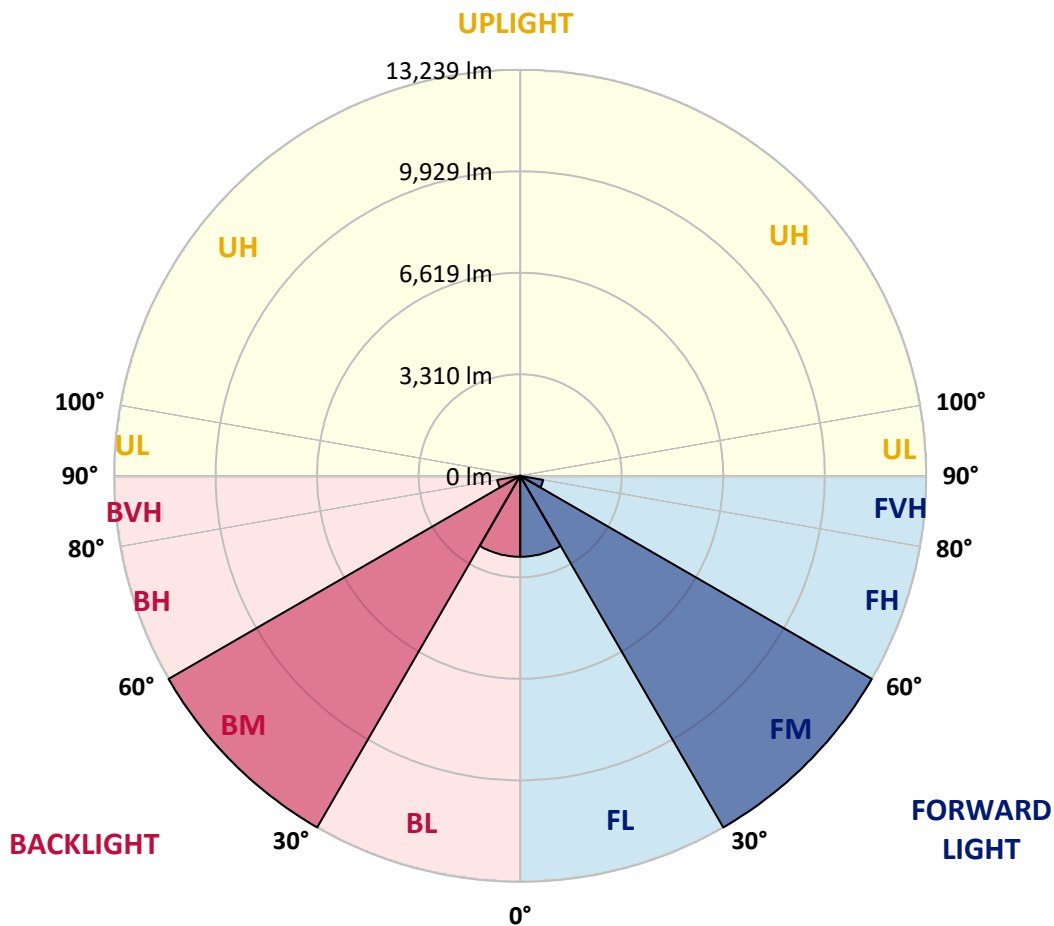
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2639.0	7.9			
FM (30°-60°)	13238.5	39.7			
FH (60°-80°)	758.1	2.3			G1/1800
FVH (80°-90°)	22.9	0.1			G1/100
BL (0°-30°)	2639.0	7.9	B4/5000		
BM (30°-60°)	13238.5	39.7	B5		
BH (60°-80°)	758.1	2.3	B2/1000		G1/1800
BVH (80°-90°)	22.9	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°	4619.0	4619.0	4619.0	4619.0	4619.0	4619.0	4619.0	4619.0	4619.0	4619.0	4619.0
2.5°	4602.2	4602.2	4596.6	4641.5	4619.0	4669.5	4663.9	4680.7	4697.5	4691.9	4736.8
5°	4563.0	4557.4	4557.4	4607.8	4658.3	4714.3	4764.8	4798.4	4854.5	4854.5	4910.5
7.5°	4602.2	4574.2	4613.4	4635.9	4731.1	4826.4	4910.5	4977.8	5106.7	5151.6	5134.8
10°	4613.4	4647.1	4675.1	4742.4	4860.1	5005.8	5078.7	5246.9	5392.6	5493.5	5515.9
12.5°	4686.3	4736.8	4815.2	4977.8	5084.3	5274.9	5375.8	5538.4	5740.2	5852.3	5930.8
15°	4826.4	4843.3	4944.2	5151.6	5381.4	5555.2	5712.1	5829.9	6026.0	6155.0	6160.6
17.5°	5005.8	5078.7	5218.8	5415.0	5656.1	5913.9	6037.3	6166.2	6239.1	6412.8	6452.1
20°	5364.6	5375.8	5510.3	5768.2	6070.9	6306.3	6396.0	6463.3	6435.3	6614.6	6648.3
22.5°	5700.9	5712.1	5880.3	6227.9	6553.0	6754.8	6794.0	6754.8	6670.7	6799.6	6810.8
25°	6042.9	6143.8	6267.1	6614.6	7018.2	7287.3	7292.9	7186.4	7012.6	7035.1	7091.1
27.5°	6575.4	6648.3	6777.2	7096.7	7539.6	7842.3	7791.8	7662.9	7438.7	7455.5	7438.7
30°	7197.6	7264.9	7371.4	7780.6	8105.7	8436.5	8509.3	8386.0	8049.7	7976.8	8060.9
32.5°	7948.8	8044.1	8240.3	8615.8	8890.5	9092.3	9142.8	9097.9	8784.0	8756.0	8812.0
35°	8862.5	8991.4	9170.8	9501.5	9725.8	10090.1	10090.1	9938.8	9652.9	9686.5	9680.9
37.5°	9826.7	10017.3	10297.5	10633.9	10936.6	11132.8	11071.1	10942.2	10656.3	10583.4	10656.3
40°	11037.5	11132.8	11485.9	11923.2	12293.1	12517.4	12253.9	11973.6	11289.7	11396.2	11592.4
42.5°	12141.8	12293.1	12562.2	13044.3	13464.7	13649.7	13335.8	12780.8	11956.8	11872.7	12018.5
45°	13083.5	13246.1	13599.2	14288.7	14731.6	14894.1	14199.0	13302.1	12360.4	12147.4	12209.1
47.5°	13711.4	13795.4	14288.7	14944.6	15348.2	15718.2	14720.4	13660.9	12551.0	12147.4	12125.0
50°	13470.3	13616.1	14193.4	14939.0	15673.3	15936.8	14983.8	13935.6	12612.7	12096.9	12029.7
52.5°	11962.4	12214.7	12859.3	13862.7	14972.6	15914.4	15348.2	13845.9	12590.2	12147.4	12248.3
55°	8324.4	8330.0	9114.7	10594.6	12556.6	14776.4	14815.7	13946.8	12736.0	12461.3	12466.9
57.5°	3346.6	3514.7	4114.5	5600.0	7410.6	10146.2	12063.3	12937.8	12752.8	12685.5	12859.3
60°	846.4	852.1	1037.0	1580.8	2606.6	4350.0	6317.5	8548.6	9843.5	10286.3	10348.0
62.5°	431.6	437.2	482.1	560.6	711.9	1166.0	2074.1	3290.5	4680.7	5387.0	5572.0
65°	353.2	353.2	381.2	420.4	426.0	448.5	538.1	768.0	1115.5	1266.9	1283.7
67.5°	269.1	269.1	291.5	313.9	325.1	319.5	308.3	319.5	386.8	370.0	358.8
70°	168.2	173.8	185.0	207.4	218.6	224.2	229.8	241.0	274.7	285.9	274.7
72.5°	100.9	100.9	106.5	123.3	140.1	151.4	168.2	179.4	196.2	224.2	218.6
75°	44.8	44.8	56.1	72.9	89.7	106.5	123.3	140.1	151.4	168.2	173.8
77.5°	11.2	16.8	28.0	50.5	67.3	89.7	112.1	128.9	140.1	140.1	134.5
80°	5.6	5.6	22.4	39.2	72.9	95.3	123.3	134.5	151.4	140.1	123.3
82.5°	5.6	5.6	22.4	39.2	67.3	95.3	128.9	145.7	157.0	140.1	117.7
85°	0.0	5.6	16.8	33.6	56.1	67.3	56.1	39.2	22.4	22.4	16.8
87.5°	0.0	0.0	5.6	5.6	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)