

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: P954620

Luminaire Tested: **GALN-SB7D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64801 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

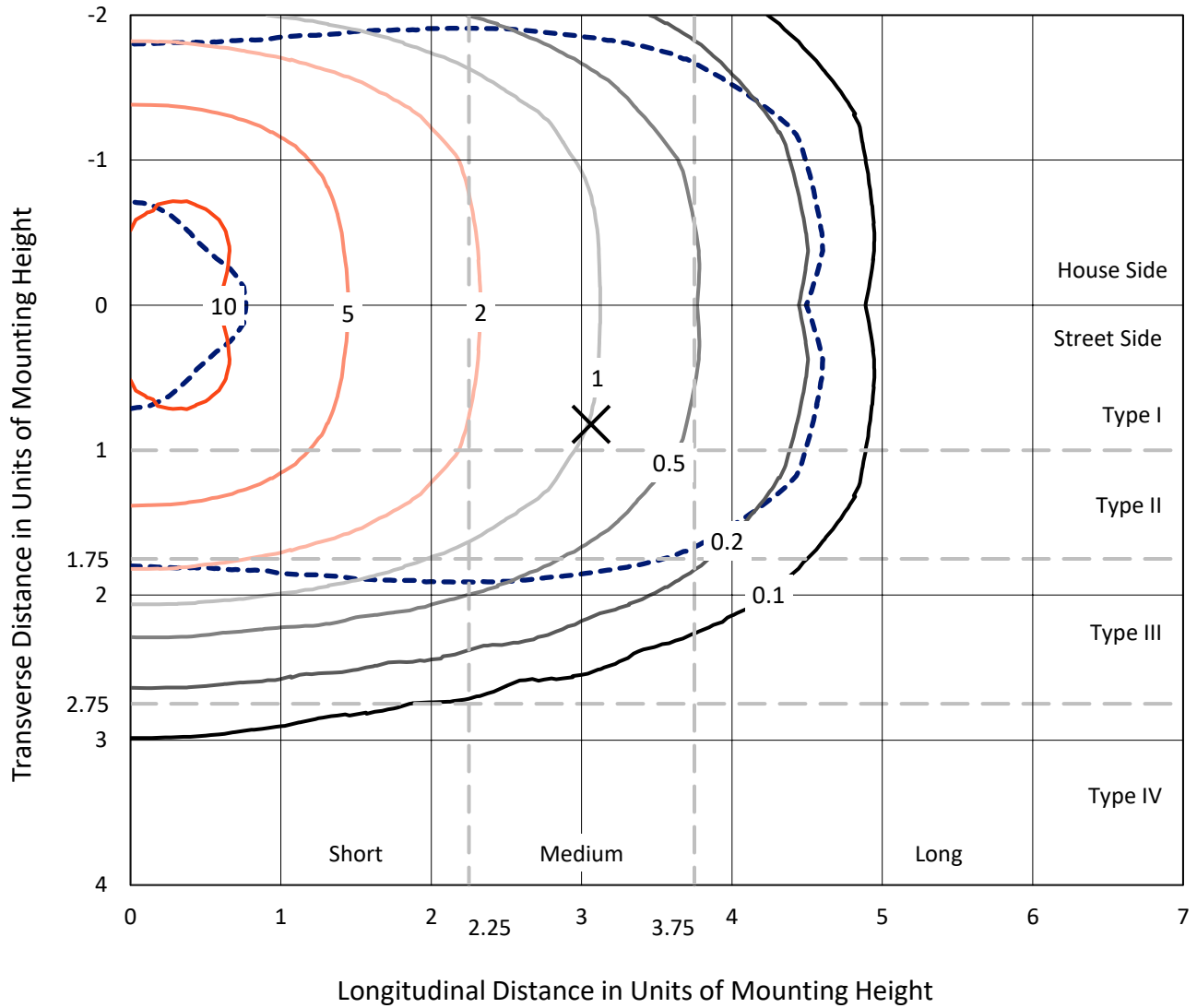
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954620
 CATALOG NUMBER: GALN-SB7D-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

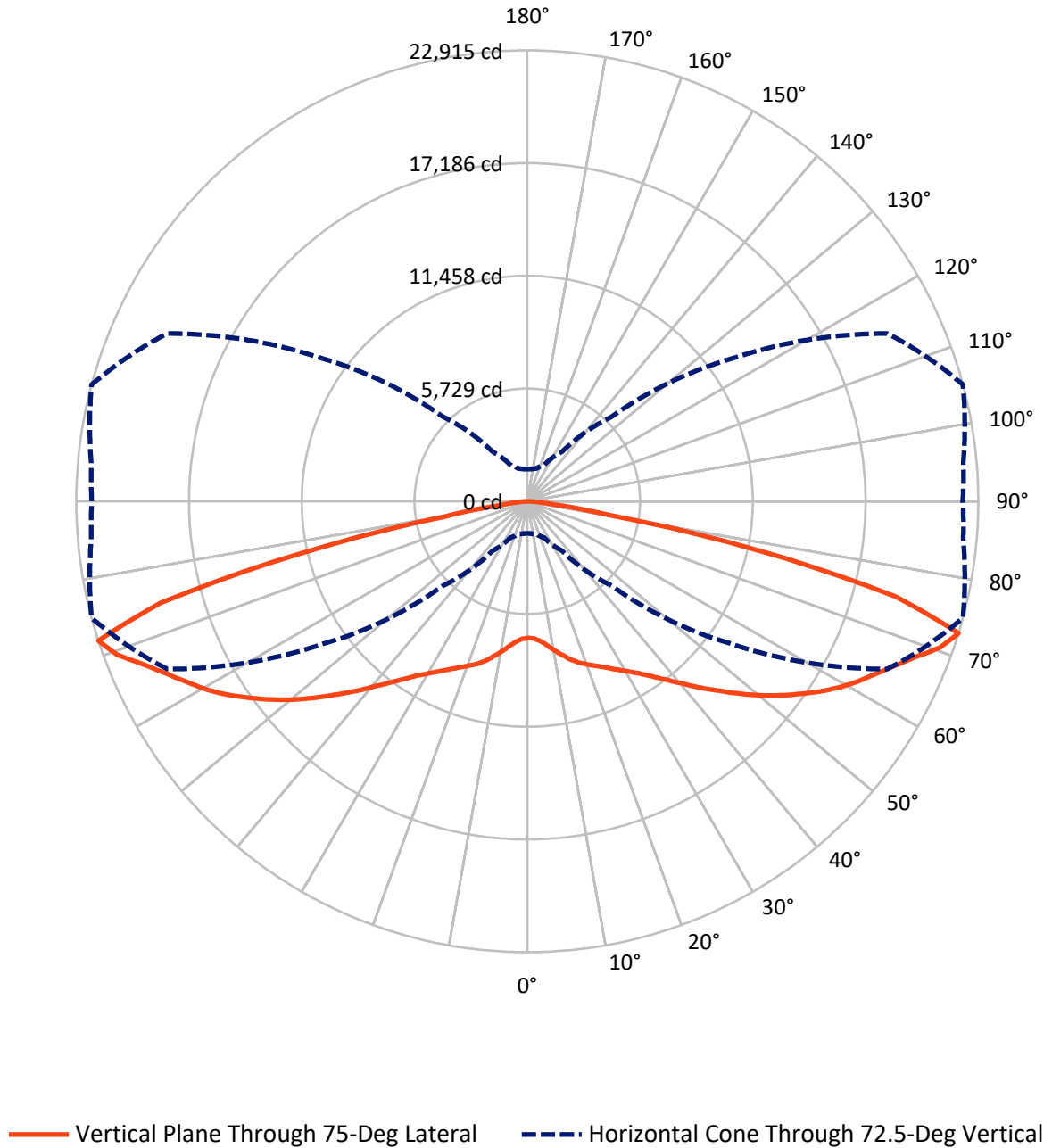
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P954620
CATALOG NUMBER: GALN-SB7D-827-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32400.5	0.0	32400.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32400.5	0.0	32400.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	64801.0	0.0	64801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.0	1.0
10°-20°	2242.7	3.5
20°-30°	4333.5	6.7
30°-40°	7317.3	11.3
40°-50°	11604.5	17.9
50°-60°	15537.0	24.0
60°-70°	14786.3	22.8
70°-80°	7715.7	11.9
80°-90°	584.0	0.9
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°	64801.0	100.0
0°-180°	64801.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954620

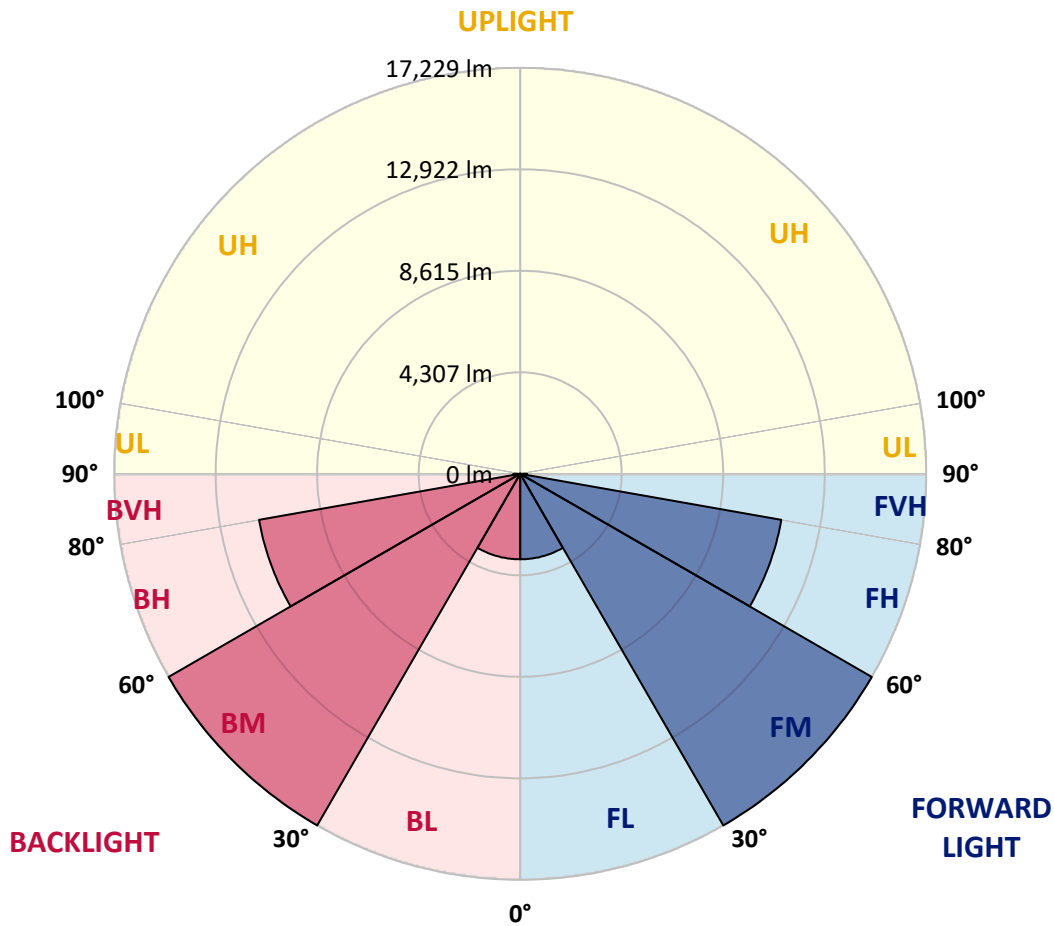
CATALOG NUMBER: GALN-SB7D-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3628.1	5.6			
FM (30°-60°)	17229.4	26.6			
FH (60°-80°)	11251.0	17.4			G4/12000
FVH (80°-90°)	292.0	0.5			G3/500
BL (0°-30°)	3628.1	5.6	B4/5000		
BM (30°-60°)	17229.4	26.6	B5		
BH (60°-80°)	11251.0	17.4	B5		G5
BVH (80°-90°)	292.0	0.5			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 III Medium



REPORT NUMBER: P954620

CATALOG NUMBER: GALN-SB7D-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6941.3	6941.3	6941.3	6941.3	6941.3	6941.3	6941.3	6941.3	6941.3	6941.3
2.5°	6941.3	6934.7	6941.3	6948.0	6944.7	6944.7	6961.2	6971.1	6991.0	6987.7
5°	6895.0	6891.7	6918.2	6948.0	6971.1	7010.8	7060.5	7096.8	7143.2	7153.1
7.5°	6871.9	6861.9	6908.3	6961.2	7034.0	7133.2	7229.2	7328.4	7407.9	7434.3
10°	6888.4	6891.7	6954.6	7053.8	7169.6	7308.6	7444.2	7613.0	7725.5	7751.9
12.5°	6964.5	6957.9	7063.8	7222.6	7381.4	7556.7	7715.5	7900.8	8023.2	8086.1
15°	7103.5	7090.2	7239.1	7474.0	7705.6	7910.8	8039.8	8215.1	8357.4	8436.8
17.5°	7268.9	7275.5	7470.7	7775.1	8079.5	8311.1	8433.5	8522.8	8632.0	8701.5
20°	7560.0	7573.3	7791.6	8152.3	8499.7	8764.4	8863.6	8830.5	8860.3	8913.2
22.5°	7950.5	7957.1	8201.9	8592.3	8956.3	9247.4	9313.6	9177.9	9095.2	9131.6
25°	8403.7	8446.7	8691.6	9091.9	9465.8	9743.7	9773.5	9568.3	9363.2	9373.1
27.5°	8956.3	8996.0	9244.1	9641.1	10021.6	10263.1	10259.8	9985.2	9684.1	9608.0
30°	9555.1	9598.1	9852.9	10263.1	10617.2	10828.9	10782.6	10455.0	10024.9	9882.7
32.5°	10266.4	10292.9	10551.0	10961.2	11288.8	11457.5	11361.6	10957.9	10421.9	10259.8
35°	11126.7	11166.4	11358.3	11745.4	12033.2	12172.2	12010.1	11533.6	10931.5	10749.5
37.5°	12109.3	12082.8	12301.2	12645.3	12883.5	12969.5	12747.9	12182.1	11513.8	11298.7
40°	13135.0	13121.7	13359.9	13690.8	13819.8	13872.8	13545.2	12926.5	12185.4	11953.8
42.5°	14064.7	14054.7	14375.7	14742.9	14898.4	14838.9	14425.3	13717.3	12962.9	12698.2
45°	14809.1	14795.9	15189.6	15705.7	16010.1	15910.8	15355.0	14590.7	13750.4	13475.7
47.5°	15381.5	15388.1	15811.6	16450.1	16982.8	17019.2	16304.6	15480.7	14617.2	14306.2
50°	15795.0	15814.9	16268.2	16976.2	17704.1	18025.0	17274.0	16393.9	15513.8	15163.1
52.5°	15897.6	15934.0	16479.9	17310.4	18167.3	18779.4	18259.9	17270.7	16364.1	16029.9
55°	15351.7	15424.5	16116.0	17283.9	18451.8	19275.6	19126.8	18160.7	17221.0	16876.9
57.5°	14097.8	14200.3	15007.6	16532.8	18388.9	19616.4	19798.4	19014.3	18077.9	17747.1
60°	12340.9	12463.3	13237.5	14901.7	17502.3	19742.1	20271.5	19844.7	18865.4	18544.4
62.5°	9690.8	9849.6	10776.0	12728.0	15629.6	19156.5	20675.2	20595.8	19573.4	19173.1
65°	6216.8	6385.5	7361.5	9667.6	13131.7	17363.3	20800.9	21326.9	20321.1	19762.0
67.5°	3748.6	3824.7	4307.7	5859.4	9598.1	14660.2	19735.5	22137.5	21194.6	20499.8
70°	2398.7	2441.7	2729.6	3440.9	5426.0	10696.6	17095.3	22289.7	22253.3	21257.5
72.5°	1627.8	1641.0	1717.1	2038.1	3070.3	6077.8	12608.9	20178.9	22915.0	22233.5
75°	1191.1	1263.9	1386.3	1442.5	1743.6	3037.3	7225.9	14177.2	19312.0	19609.8
77.5°	886.7	890.0	1058.7	1124.9	1244.0	1617.9	3057.1	7914.1	11990.2	12589.0
80°	751.0	711.3	708.0	906.5	936.3	1009.1	1366.4	2732.9	4294.5	2603.8
82.5°	625.3	582.3	526.1	708.0	638.6	618.7	592.2	1111.7	1366.4	671.6
85°	436.7	416.9	397.0	463.2	363.9	311.0	284.5	519.4	575.7	284.5
87.5°	188.6	195.2	198.5	205.1	152.2	109.2	109.2	145.6	145.6	112.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6941.3
6984.4
7153.1
7440.9
7778.4
8112.6
8466.6
8734.6
8952.9
9158.1
9389.7
9631.2
9899.2
10299.5
10776.0
11338.4
12029.9
12764.4
13538.6
14398.8
15269.0
16116.0
16972.9
17823.2
18613.9
19219.4
19831.5
20552.7
21250.8
22127.6
18888.5
11229.2
1968.6
572.4
251.5
82.7
0.0

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