

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: P954617

Luminaire Tested: **GALN-SB7D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65943 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

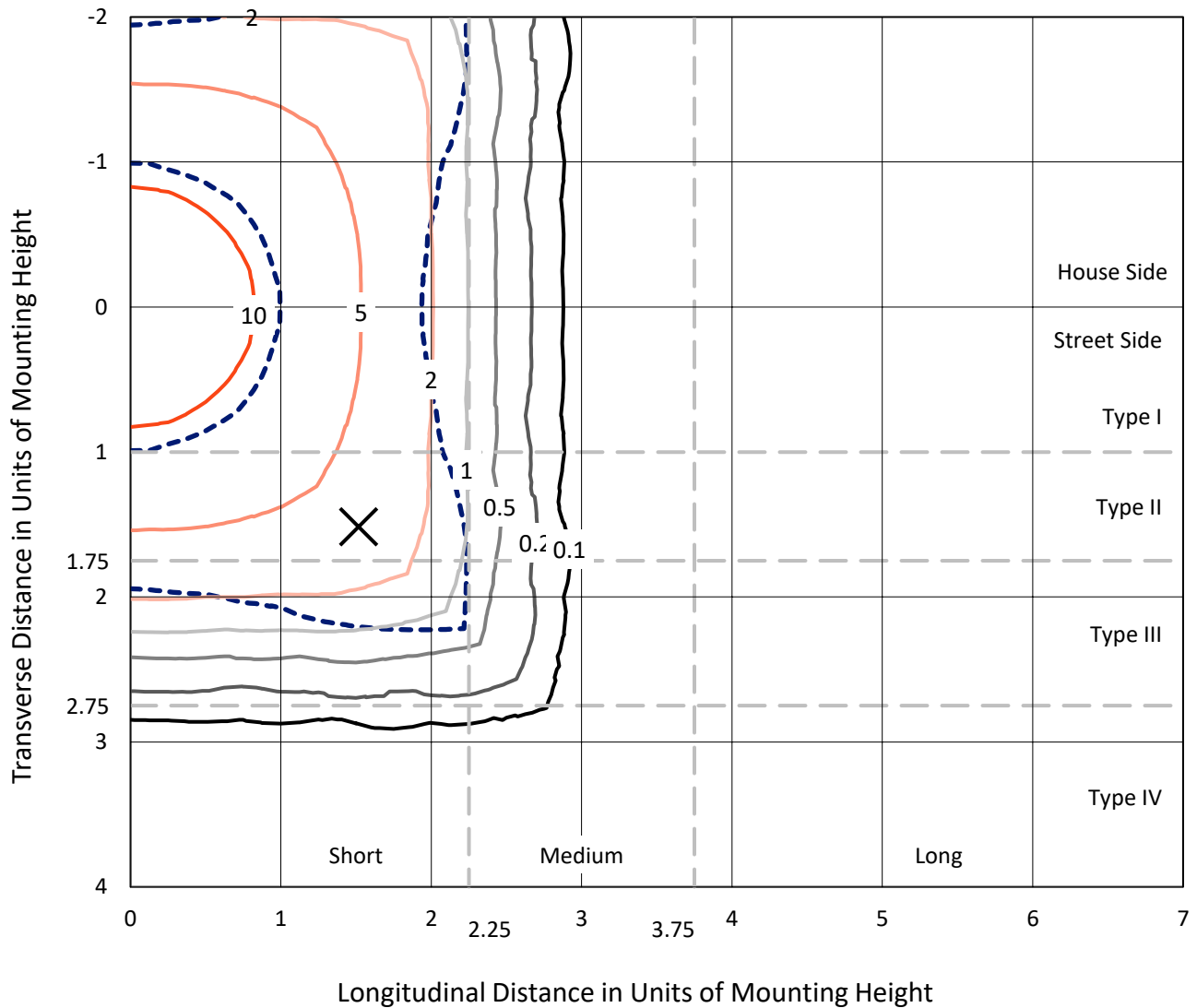
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954617
 CATALOG NUMBER: GALN-SB7D-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

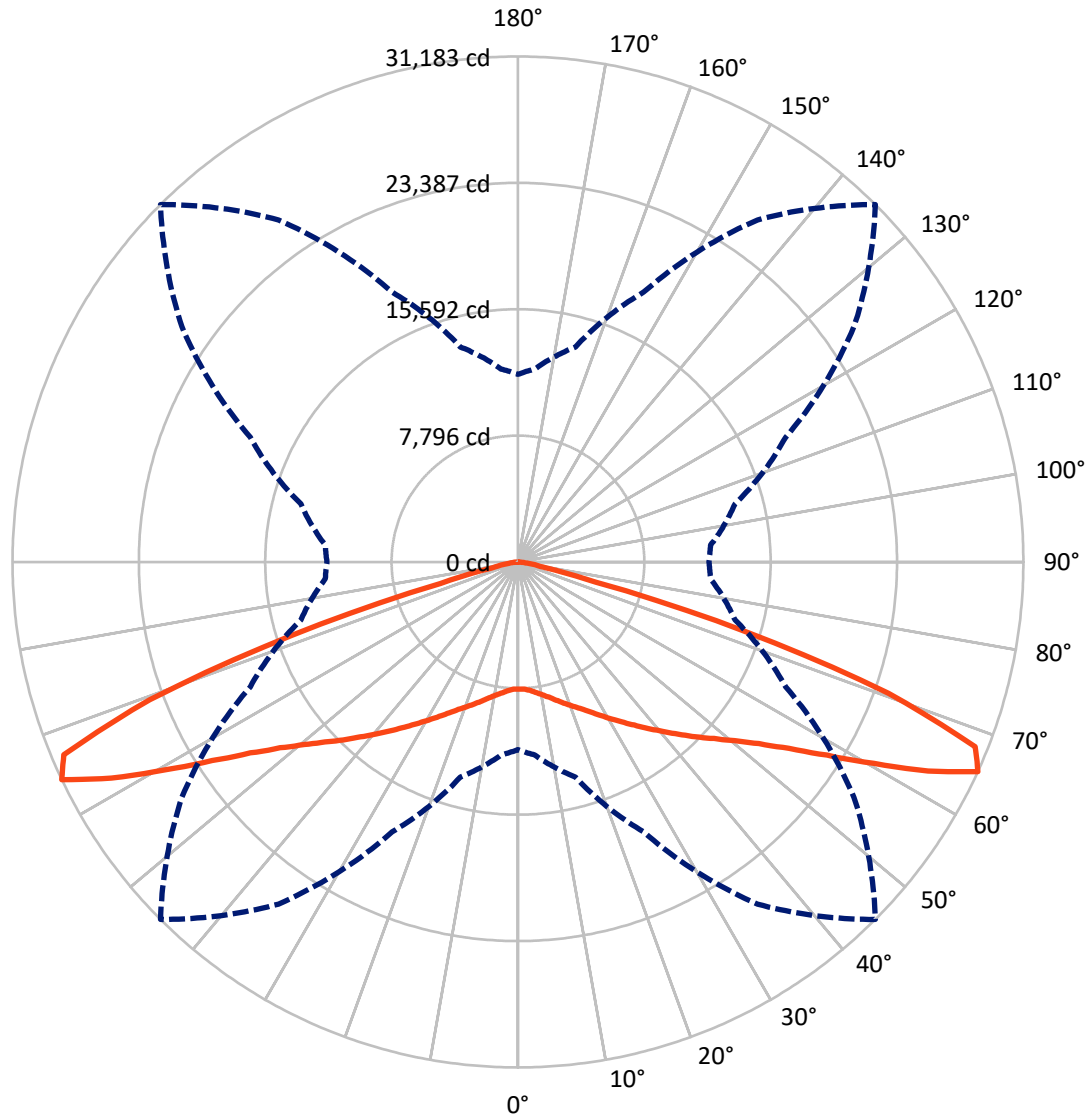
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type V - Short - N/A

REPORT NUMBER: P954617
CATALOG NUMBER: GALN-SB7D-827-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P954617

CATALOG NUMBER: GALN-SB7D-827-U-5NQ

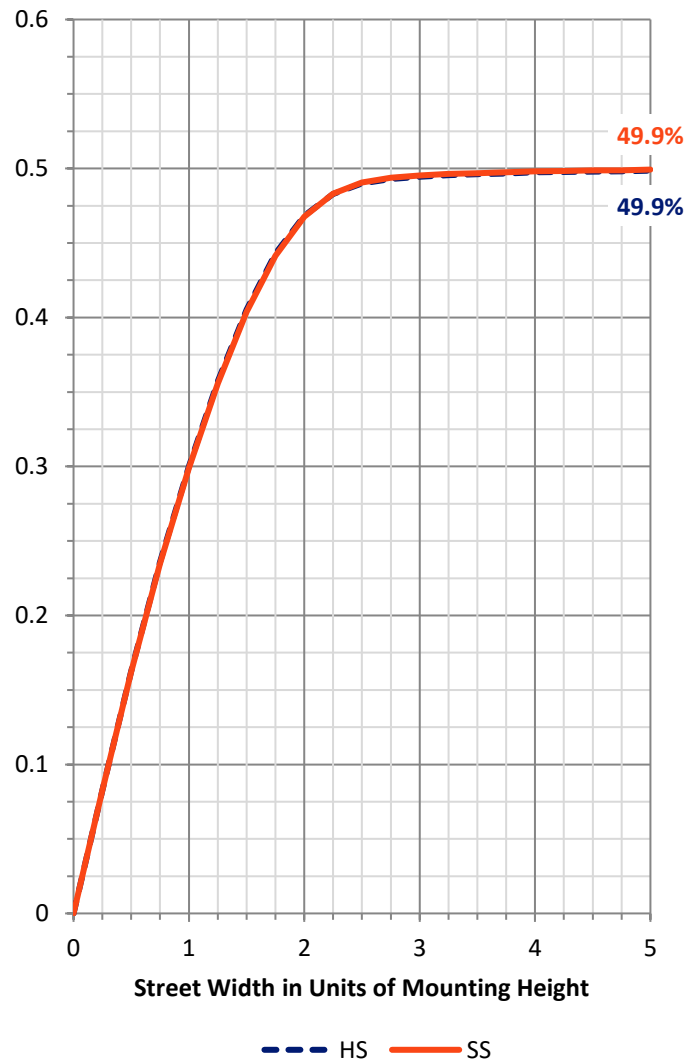
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32971.5	0.0	32971.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32971.5	0.0	32971.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	65943.0	0.0	65943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.5	1.2
10°-20°	2527.3	3.8
20°-30°	4771.8	7.2
30°-40°	7813.7	11.8
40°-50°	12115.2	18.4
50°-60°	17896.6	27.1
60°-70°	17035.9	25.8
70°-80°	2749.0	4.2
80°-90°	259.1	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°	65943.0	100.0
0°-180°	65943.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954617

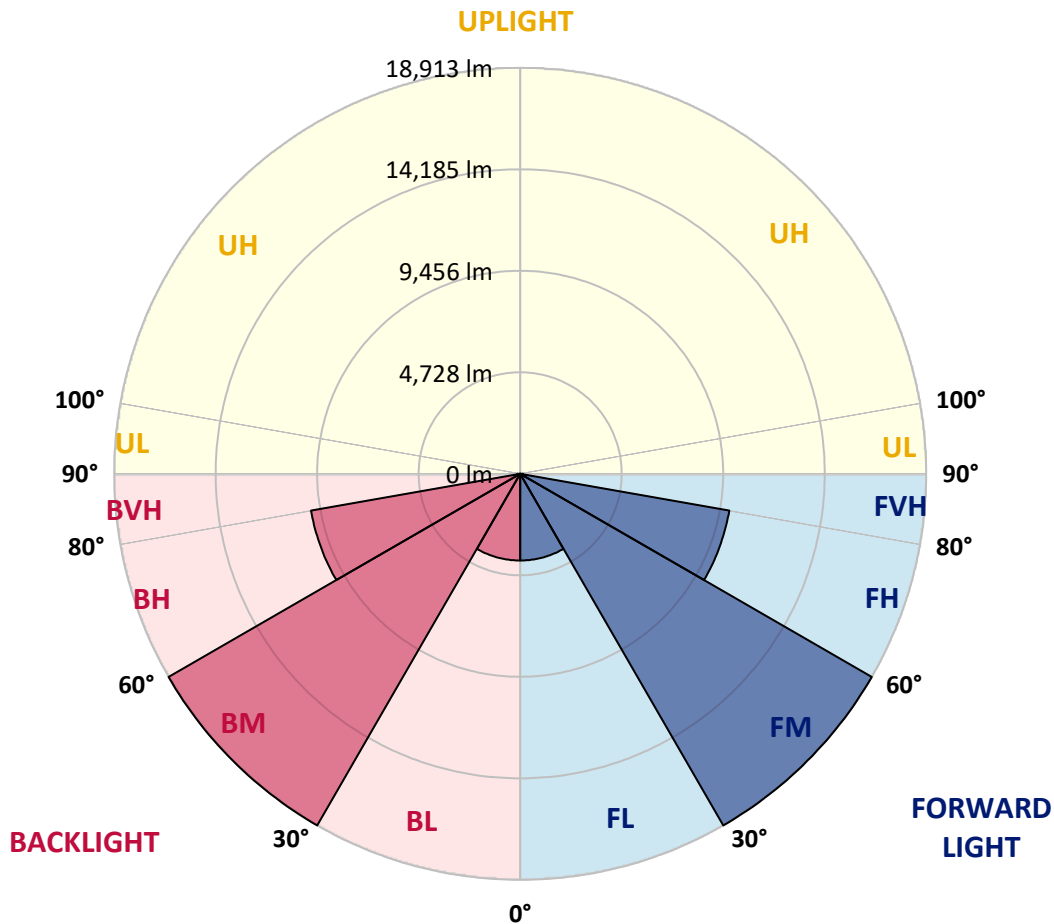
CATALOG NUMBER: GALN-SB7D-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4036.8	6.1			
FM (30°-60°)	18912.7	28.7			
FH (60°-80°)	9892.4	15.0			G4/12000
FVH (80°-90°)	129.6	0.2			G2/225
BL (0°-30°)	4036.8	6.1	B4/5000		
BM (30°-60°)	18912.7	28.7	B5		
BH (60°-80°)	9892.4	15.0	B5		G4/12000
BVH (80°-90°)	129.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P954617

CATALOG NUMBER: GALN-SB7D-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7847.9	7847.9	7847.9	7847.9	7847.9	7847.9	7847.9	7847.9	7847.9	7847.9
2.5°	7900.8	7874.3	7894.2	7877.7	7864.4	7851.2	7857.8	7881.0	7890.9	7894.2
5°	8006.7	7983.5	7993.5	7993.5	7970.3	7963.7	7967.0	7983.5	8003.4	8003.4
7.5°	8178.7	8155.6	8178.7	8165.5	8145.6	8139.0	8135.7	8149.0	8178.7	8178.7
10°	8387.2	8360.7	8373.9	8367.3	8344.2	8334.2	8330.9	8350.8	8377.2	8373.9
12.5°	8615.5	8585.7	8602.2	8582.4	8575.8	8565.8	8565.8	8562.5	8579.1	8565.8
15°	8870.2	8850.4	8857.0	8843.7	8853.7	8847.1	8820.6	8807.4	8814.0	8794.1
17.5°	9171.3	9125.0	9148.1	9141.5	9141.5	9154.8	9111.7	9095.2	9108.4	9088.6
20°	9518.7	9472.4	9482.3	9469.1	9452.5	9465.8	9412.8	9426.1	9436.0	9422.7
22.5°	9899.2	9839.6	9836.3	9842.9	9806.5	9809.8	9773.5	9806.5	9826.4	9790.0
25°	10289.6	10226.7	10269.7	10253.2	10206.9	10216.8	10190.3	10223.4	10240.0	10193.6
27.5°	10703.2	10660.1	10699.8	10709.8	10653.5	10693.2	10653.5	10683.3	10699.8	10630.4
30°	11186.2	11143.2	11179.6	11206.1	11139.9	11202.7	11169.7	11189.5	11192.8	11110.1
32.5°	11712.3	11646.1	11738.7	11752.0	11679.2	11755.3	11712.3	11738.7	11755.3	11642.8
35°	12354.1	12271.4	12377.3	12360.7	12297.9	12360.7	12321.0	12360.7	12400.4	12264.8
37.5°	13045.6	12959.6	13072.1	13042.3	12982.7	13025.8	13002.6	13029.1	13091.9	12946.3
40°	13806.6	13700.7	13852.9	13800.0	13743.7	13737.1	13750.3	13766.9	13849.6	13687.5
42.5°	14620.5	14508.0	14736.3	14653.6	14574.2	14521.2	14564.2	14597.3	14676.7	14494.8
45°	15550.2	15421.1	15718.9	15619.7	15493.9	15384.7	15454.2	15503.9	15619.7	15401.3
47.5°	16575.8	16430.3	16747.9	16718.1	16513.0	16274.7	16433.6	16575.8	16661.8	16397.2
50°	17578.3	17465.8	17882.7	17919.1	17667.6	17333.5	17555.2	17770.2	17793.4	17446.0
52.5°	18517.9	18405.5	19010.9	19239.2	19014.2	18617.2	18852.1	19070.5	18895.1	18445.2
55°	19269.0	19176.3	19947.2	20536.2	20612.3	20284.7	20423.7	20417.1	19841.4	19149.9
57.5°	19451.0	19437.7	20410.4	21657.8	22451.8	22491.5	22216.9	21515.5	20274.8	19345.1
60°	18623.8	18706.5	20043.2	22243.4	24360.8	25240.9	24053.1	22051.5	19781.8	18491.5
62.5°	16149.0	16367.4	17978.7	21528.7	25902.6	28403.9	25525.4	21237.6	17757.0	16072.9
65°	11573.3	11953.8	13733.8	18372.4	25763.7	31183.1	25313.7	18223.5	13866.1	11924.0
67.5°	5250.7	5637.8	7149.8	12579.1	22395.6	30428.7	22342.6	12711.4	7507.1	5657.6
70°	1902.4	1968.6	2454.9	5035.6	14312.8	24245.0	14924.9	5072.0	2610.4	2097.6
72.5°	1151.4	1161.3	1263.9	1803.2	4972.7	14719.7	5184.5	1862.7	1290.3	1144.8
75°	731.2	724.6	899.9	1101.7	1763.5	4966.1	1849.5	1101.7	896.6	817.2
77.5°	526.1	542.6	645.2	823.8	1111.7	1684.1	1091.8	787.4	645.2	529.4
80°	393.7	403.6	469.8	641.9	780.8	1048.8	694.8	582.3	486.4	330.9
82.5°	284.5	284.5	307.7	466.5	476.4	565.8	377.2	410.3	320.9	234.9
85°	168.7	165.4	191.9	277.9	248.1	208.4	172.0	251.4	201.8	145.6
87.5°	59.6	62.9	59.6	79.4	66.2	56.2	52.9	69.5	56.2	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7847.9
7894.2
8003.4
8168.8
8367.3
8572.4
8797.4
9105.1
9452.5
9826.4
10246.6
10683.3
11159.7
11718.9
12347.5
13035.7
13740.4
14590.7
15513.8
16486.5
17489.0
18458.4
19173.0
19285.5
18339.3
15973.7
11781.7
5574.9
2071.2
1164.6
823.8
539.3
340.8
234.9
142.3
46.3
0.0

OF REPORT)