

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: P957473

Luminaire Tested: **GALN-SB9D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957473
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-SB9D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 84457 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

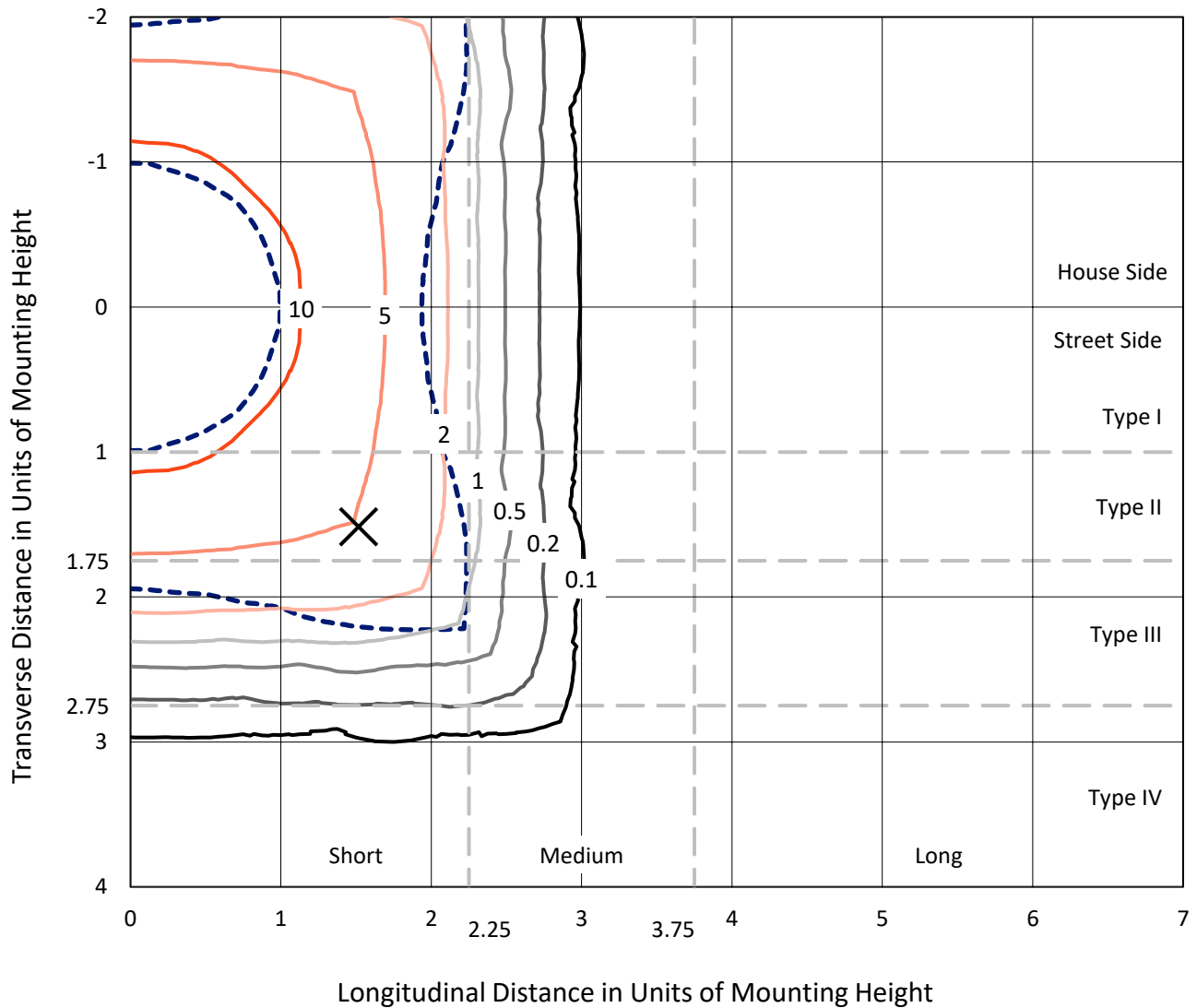
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

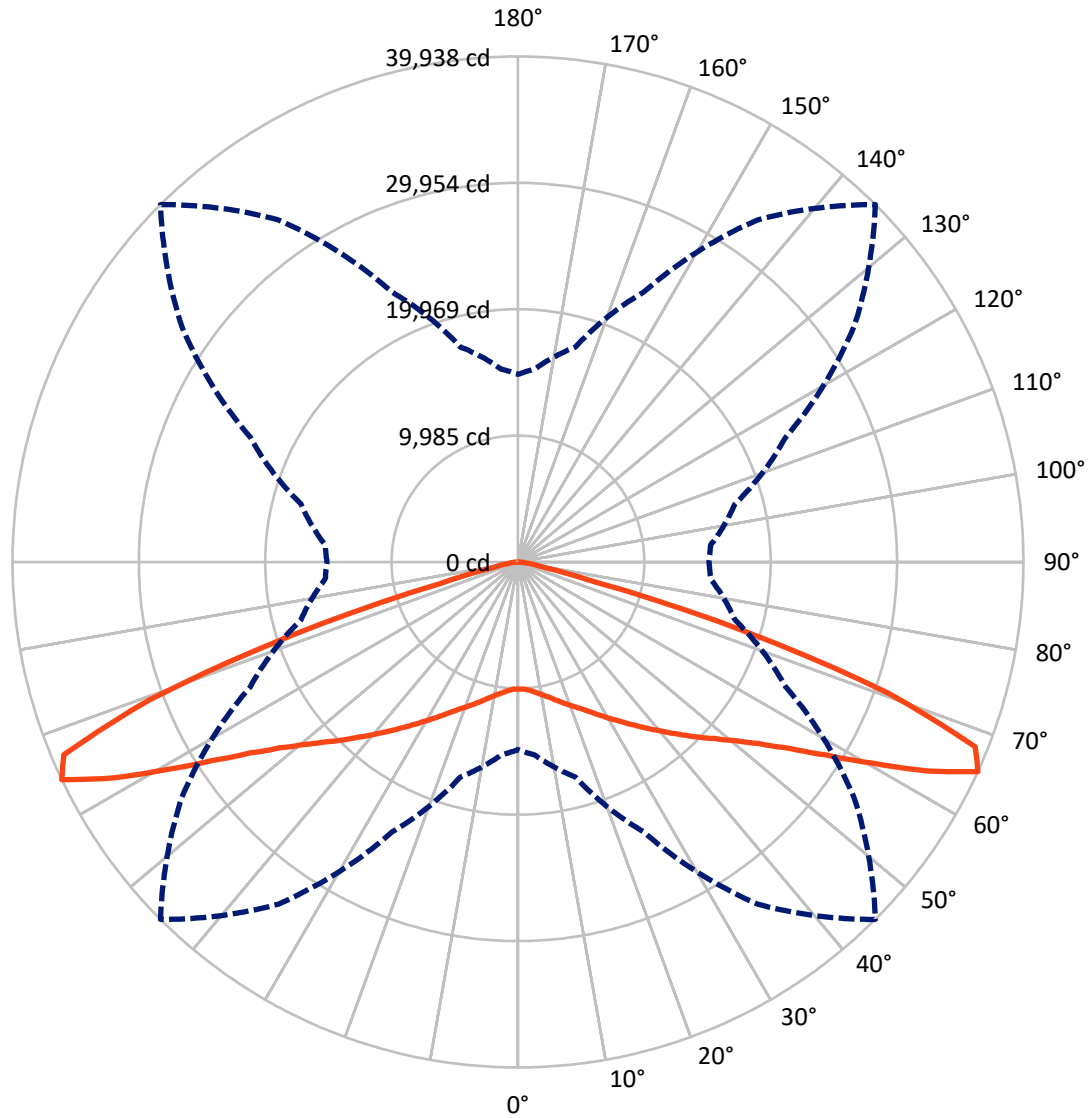
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	42228.5	0.0	42228.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	42228.5	0.0	42228.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	84457.0	0.0	84457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.0	1.2
10°-20°	3236.8	3.8
20°-30°	6111.5	7.2
30°-40°	10007.4	11.8
40°-50°	15516.6	18.4
50°-60°	22921.2	27.1
60°-70°	21818.9	25.8
70°-80°	3520.8	4.2
80°-90°	331.9	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°	84457.0	100.0
0°-180°	84457.0	100.0

Coefficient of Utilization

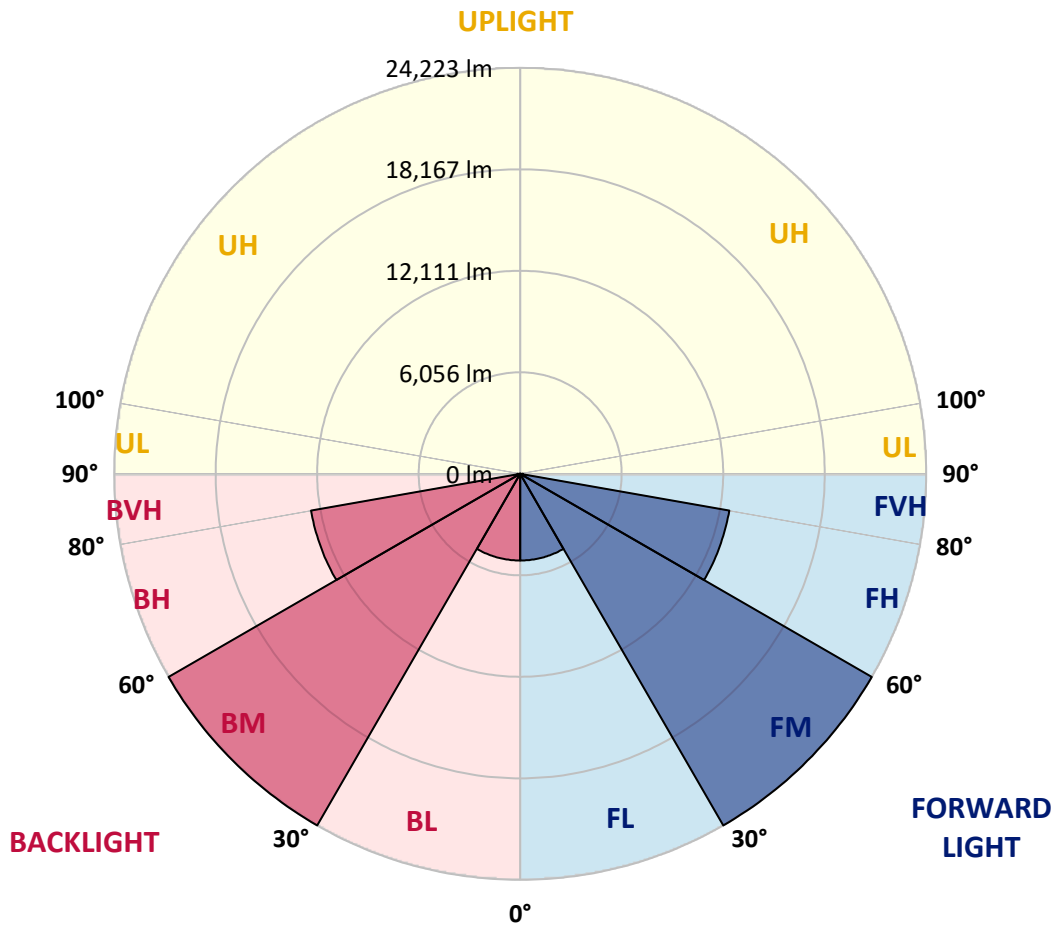


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5170.2	6.1			
FM (30°-60°)	24222.6	28.7			
FH (60°-80°)	12669.8	15.0			G5
FVH (80°-90°)	165.9	0.2			G2/225
BL (0°-30°)	5170.2	6.1	B5		
BM (30°-60°)	24222.6	28.7	B5		
BH (60°-80°)	12669.8	15.0	B5		G5
BVH (80°-90°)	165.9	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-G5
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10051.2	10051.2	10051.2	10051.2	10051.2	10051.2	10051.2	10051.2	10051.2	10051.2
2.5°	10119.0	10085.1	10110.6	10089.4	10072.4	10055.5	10063.9	10093.6	10106.3	10110.6
5°	10254.6	10225.0	10237.7	10237.7	10208.0	10199.5	10203.8	10225.0	10250.4	10250.4
7.5°	10475.0	10445.3	10475.0	10458.0	10432.6	10424.1	10419.9	10436.8	10475.0	10475.0
10°	10741.9	10708.0	10725.0	10716.5	10686.8	10674.1	10669.9	10695.3	10729.2	10725.0
12.5°	11034.3	10996.2	11017.4	10991.9	10983.5	10970.8	10970.8	10966.5	10987.7	10970.8
15°	11360.6	11335.2	11343.6	11326.7	11339.4	11330.9	11297.0	11280.1	11288.6	11263.1
17.5°	11746.2	11686.9	11716.5	11708.1	11708.1	11725.0	11669.9	11648.7	11665.7	11640.3
20°	12191.1	12131.8	12144.5	12127.6	12106.4	12123.3	12055.5	12072.5	12085.2	12068.3
22.5°	12678.4	12602.2	12597.9	12606.4	12559.8	12564.0	12517.4	12559.8	12585.2	12538.6
25°	13178.5	13098.0	13153.0	13131.9	13072.5	13085.2	13051.3	13093.7	13114.9	13055.6
27.5°	13708.1	13653.1	13703.9	13716.6	13644.6	13695.4	13644.6	13682.7	13703.9	13614.9
30°	14326.8	14271.7	14318.3	14352.2	14267.5	14348.0	14305.6	14331.1	14335.3	14229.4
32.5°	15000.6	14915.8	15034.5	15051.4	14958.2	15055.7	15000.6	15034.5	15055.7	14911.6
35°	15822.6	15716.7	15852.3	15831.1	15750.6	15831.1	15780.3	15831.1	15882.0	15708.2
37.5°	16708.3	16598.1	16742.2	16704.0	16627.7	16682.8	16653.2	16687.1	16767.6	16581.1
40°	17682.9	17547.3	17742.2	17674.4	17602.4	17593.9	17610.8	17632.0	17738.0	17530.3
42.5°	18725.3	18581.2	18873.6	18767.7	18666.0	18598.2	18653.2	18695.6	18797.3	18564.3
45°	19916.0	19750.7	20132.1	20005.0	19844.0	19704.1	19793.1	19856.7	20005.0	19725.3
47.5°	21229.6	21043.2	21450.0	21411.8	21149.1	20844.0	21047.4	21229.6	21339.8	21000.8
50°	22513.6	22369.5	22903.4	22950.0	22628.0	22200.0	22483.9	22759.3	22789.0	22344.1
52.5°	23717.0	23572.9	24348.4	24640.8	24352.6	23844.1	24145.0	24424.7	24200.1	23623.8
55°	24678.9	24560.3	25547.6	26301.8	26399.3	25979.8	26157.8	26149.3	25412.0	24526.4
57.5°	24912.0	24895.0	26140.8	27738.3	28755.3	28806.2	28454.5	27556.1	25967.1	24776.4
60°	23852.6	23958.5	25670.5	28488.4	31200.3	32327.5	30806.3	28242.6	25335.7	23683.1
62.5°	20683.0	20962.7	23026.3	27573.1	33175.0	36378.5	32691.9	27200.2	22742.4	20585.5
65°	14822.6	15309.9	17589.6	23530.6	32997.0	39938.0	32420.7	23339.9	17759.1	15271.8
67.5°	6724.8	7220.6	9157.1	16110.8	28683.3	38971.8	28615.5	16280.3	9614.8	7246.0
70°	2436.5	2521.3	3144.2	6449.4	18331.2	31052.0	19115.1	6496.0	3343.3	2686.5
72.5°	1474.6	1487.3	1618.7	2309.4	6368.9	18852.4	6640.1	2385.7	1652.6	1466.2
75°	936.5	928.0	1152.6	1411.1	2258.6	6360.4	2368.7	1411.1	1148.3	1046.6
77.5°	673.8	694.9	826.3	1055.1	1423.8	2156.9	1398.4	1008.5	826.3	678.0
80°	504.3	517.0	601.7	822.1	1000.0	1343.3	889.9	745.8	622.9	423.7
82.5°	364.4	364.4	394.1	597.5	610.2	724.6	483.1	525.4	411.0	300.9
85°	216.1	211.9	245.8	355.9	317.8	267.0	220.3	322.0	258.5	186.4
87.5°	76.3	80.5	76.3	101.7	84.7	72.0	67.8	89.0	72.0	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
10051.2
10110.6
10250.4
10462.3
10716.5
10979.2
11267.4
11661.5
12106.4
12585.2
13123.4
13682.7
14292.9
15009.0
15814.2
16695.5
17598.1
18687.1
19869.4
21115.2
22399.2
23640.7
24556.0
24700.1
23488.2
20458.4
15089.6
7140.1
2652.6
1491.6
1055.1
690.7
436.5
300.9
182.2
59.3
0.0

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