

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: P953903

Luminaire Tested: **GALN-SB7B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953903
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-SB7B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36490 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

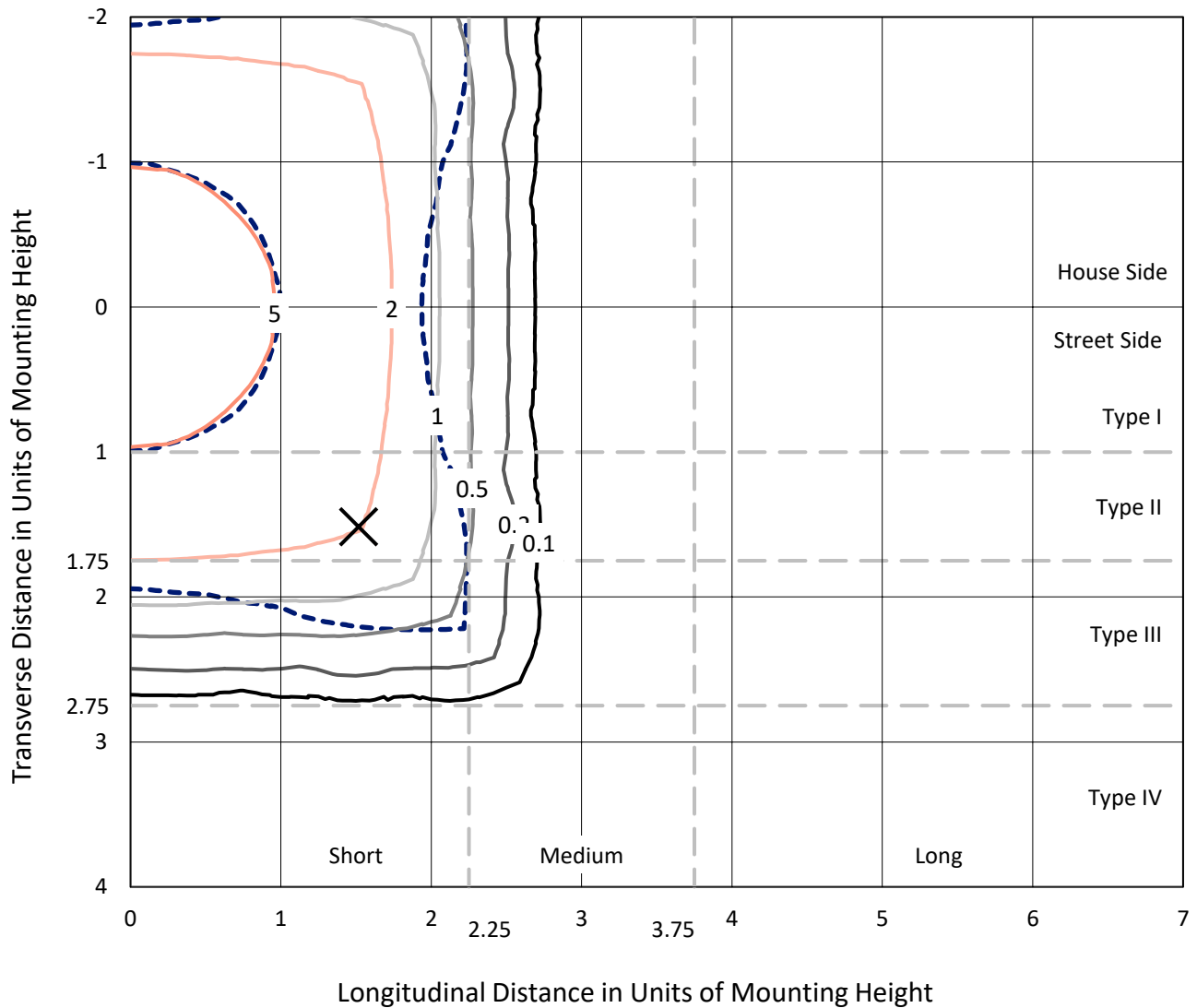
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

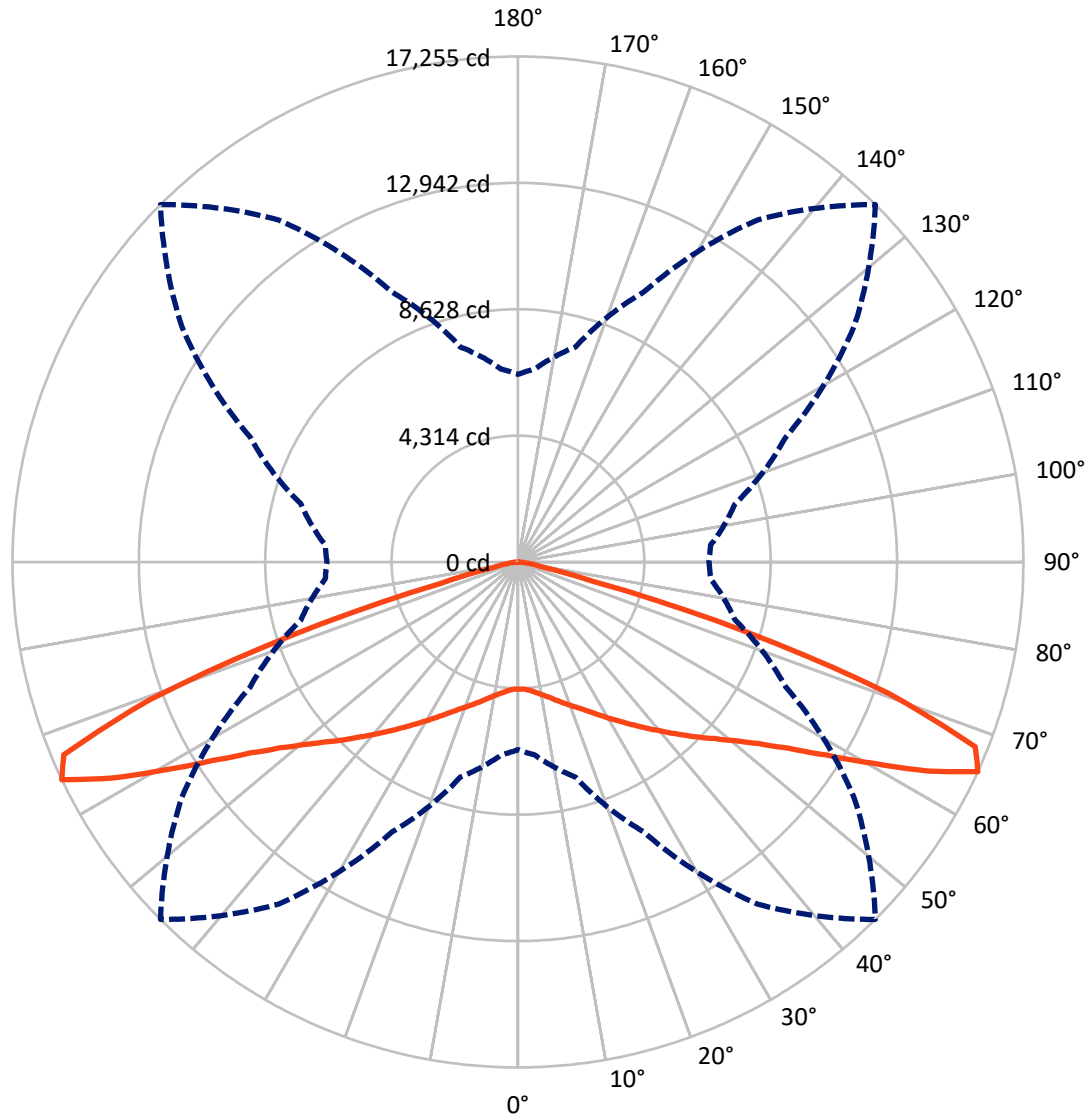
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	18245.0	0.0	18245.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18245.0	0.0	18245.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36490.0	0.0	36490.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	1.2
10°-20°	1398.5	3.8
20°-30°	2640.5	7.2
30°-40°	4323.7	11.8
40°-50°	6704.0	18.4
50°-60°	9903.2	27.1
60°-70°	9426.9	25.8
70°-80°	1521.2	4.2
80°-90°	143.4	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°	36490.0	100.0
0°-180°	36490.0	100.0



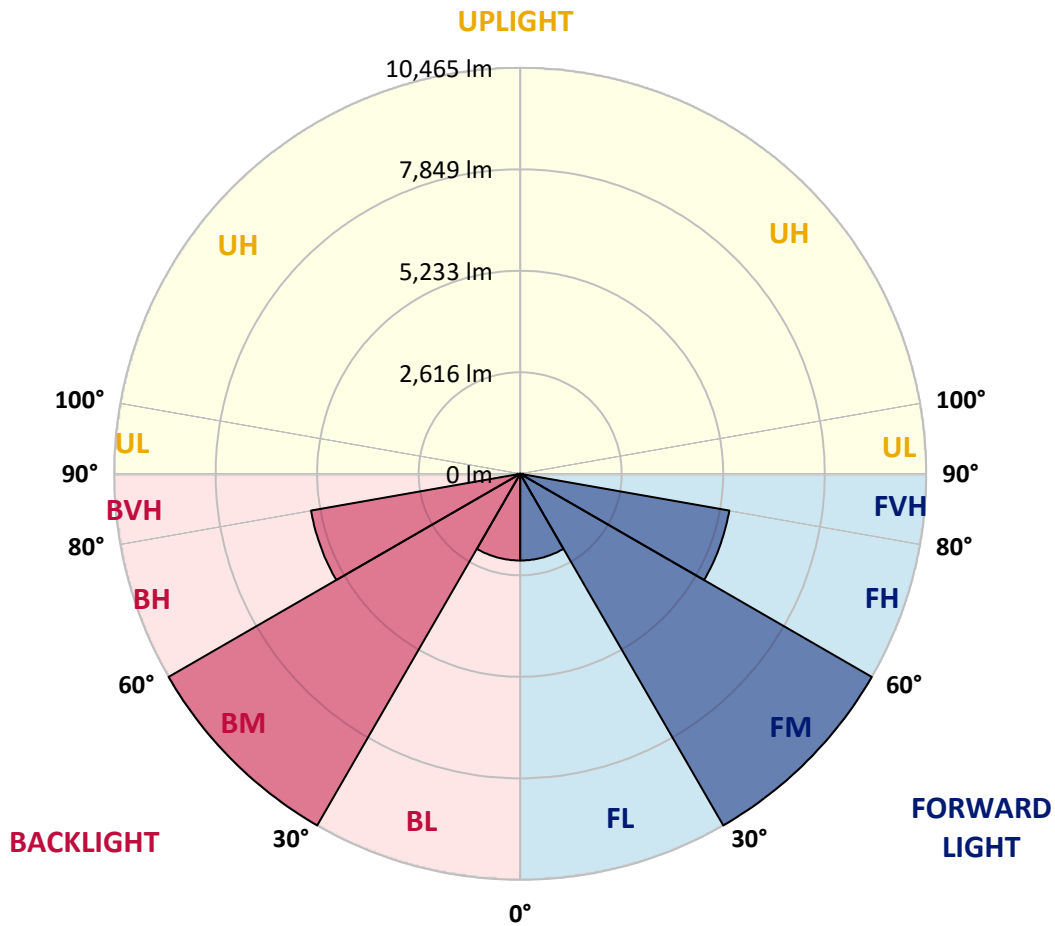
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.8	6.1			
FM (30°-60°)	10465.5	28.7			
FH (60°-80°)	5474.1	15.0			G3/7500
FVH (80°-90°)	71.7	0.2			G1/100
BL (0°-30°)	2233.8	6.1	B3/2500		
BM (30°-60°)	10465.5	28.7	B5		
BH (60°-80°)	5474.1	15.0	B5		G3/7500
BVH (80°-90°)	71.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4342.7	4342.7	4342.7	4342.7	4342.7	4342.7	4342.7	4342.7	4342.7	4342.7
2.5°	4372.0	4357.3	4368.3	4359.2	4351.8	4344.5	4348.2	4361.0	4366.5	4368.3
5°	4430.6	4417.7	4423.2	4423.2	4410.4	4406.8	4408.6	4417.7	4428.7	4428.7
7.5°	4525.8	4512.9	4525.8	4518.4	4507.4	4503.8	4502.0	4509.3	4525.8	4525.8
10°	4641.1	4626.5	4633.8	4630.1	4617.3	4611.8	4610.0	4621.0	4635.6	4633.8
12.5°	4767.4	4750.9	4760.1	4749.1	4745.5	4740.0	4740.0	4738.1	4747.3	4740.0
15°	4908.4	4897.4	4901.1	4893.7	4899.2	4895.6	4880.9	4873.6	4877.3	4866.3
17.5°	5075.0	5049.4	5062.2	5058.5	5058.5	5065.8	5042.0	5032.9	5040.2	5029.2
20°	5267.2	5241.6	5247.1	5239.8	5230.6	5237.9	5208.6	5216.0	5221.5	5214.1
22.5°	5477.8	5444.8	5443.0	5446.7	5426.5	5428.3	5408.2	5426.5	5437.5	5417.4
25°	5693.8	5659.0	5682.8	5673.7	5648.0	5653.5	5638.9	5657.2	5666.3	5640.7
27.5°	5922.7	5898.9	5920.8	5926.3	5895.2	5917.2	5895.2	5911.7	5920.8	5882.4
30°	6190.0	6166.2	6186.3	6200.9	6164.3	6199.1	6180.8	6191.8	6193.6	6147.9
32.5°	6481.1	6444.4	6495.7	6503.0	6462.7	6504.9	6481.1	6495.7	6504.9	6442.6
35°	6836.2	6790.5	6849.1	6839.9	6805.1	6839.9	6817.9	6839.9	6861.9	6786.8
37.5°	7218.9	7171.3	7233.5	7217.0	7184.1	7207.9	7195.1	7209.7	7244.5	7163.9
40°	7640.0	7581.4	7665.6	7636.3	7605.2	7601.5	7608.8	7618.0	7663.8	7574.0
42.5°	8090.3	8028.1	8154.4	8108.6	8064.7	8035.4	8059.2	8077.5	8121.5	8020.8
45°	8604.8	8533.4	8698.2	8643.2	8573.7	8513.3	8551.7	8579.2	8643.2	8522.4
47.5°	9172.3	9091.8	9267.5	9251.1	9137.6	9005.7	9093.6	9172.3	9219.9	9073.5
50°	9727.1	9664.8	9895.5	9915.7	9776.5	9591.6	9714.3	9833.3	9846.1	9653.8
52.5°	10247.0	10184.8	10519.8	10646.1	10521.6	10302.0	10431.9	10552.8	10455.7	10206.8
55°	10662.6	10611.4	11037.9	11363.8	11405.9	11224.7	11301.6	11297.9	10979.4	10596.7
57.5°	10763.3	10756.0	11294.3	11984.5	12423.9	12445.8	12293.9	11905.7	11219.2	10704.7
60°	10305.6	10351.4	11091.0	12308.5	13480.2	13967.2	13310.0	12202.3	10946.4	10232.4
62.5°	8936.2	9057.0	9948.6	11913.1	14333.4	15717.5	14124.7	11752.0	9825.9	8894.1
65°	6404.2	6614.7	7599.7	10166.5	14256.5	17255.4	14007.5	10084.1	7672.9	6598.2
67.5°	2905.5	3119.7	3956.4	6960.7	12392.7	16837.9	12363.4	7034.0	4154.1	3130.7
70°	1052.7	1089.3	1358.5	2786.5	7920.1	13416.2	8258.8	2806.6	1444.5	1160.7
72.5°	637.1	642.6	699.4	997.8	2751.7	8145.3	2868.9	1030.7	714.0	633.5
75°	404.6	400.9	498.0	609.7	975.8	2748.0	1023.4	609.7	496.1	452.2
77.5°	291.1	300.3	357.0	455.9	615.2	931.9	604.2	435.7	357.0	292.9
80°	217.9	223.4	260.0	355.2	432.1	580.4	384.5	322.2	269.1	183.1
82.5°	157.4	157.4	170.3	258.1	263.6	313.1	208.7	227.0	177.6	130.0
85°	93.4	91.5	106.2	153.8	137.3	115.3	95.2	139.1	111.7	80.6
87.5°	33.0	34.8	33.0	43.9	36.6	31.1	29.3	38.4	31.1	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
4342.7
4368.3
4428.7
4520.3
4630.1
4743.6
4868.1
5038.4
5230.6
5437.5
5670.0
5911.7
6175.3
6484.7
6832.6
7213.4
7603.3
8073.9
8584.7
9122.9
9677.6
10214.1
10609.5
10671.8
10148.2
8839.1
6519.5
3084.9
1146.1
644.4
455.9
298.4
188.6
130.0
78.7
25.6
0.0

OF REPORT)