

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: P942010

Luminaire Tested: **GALN-SB5D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45213 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

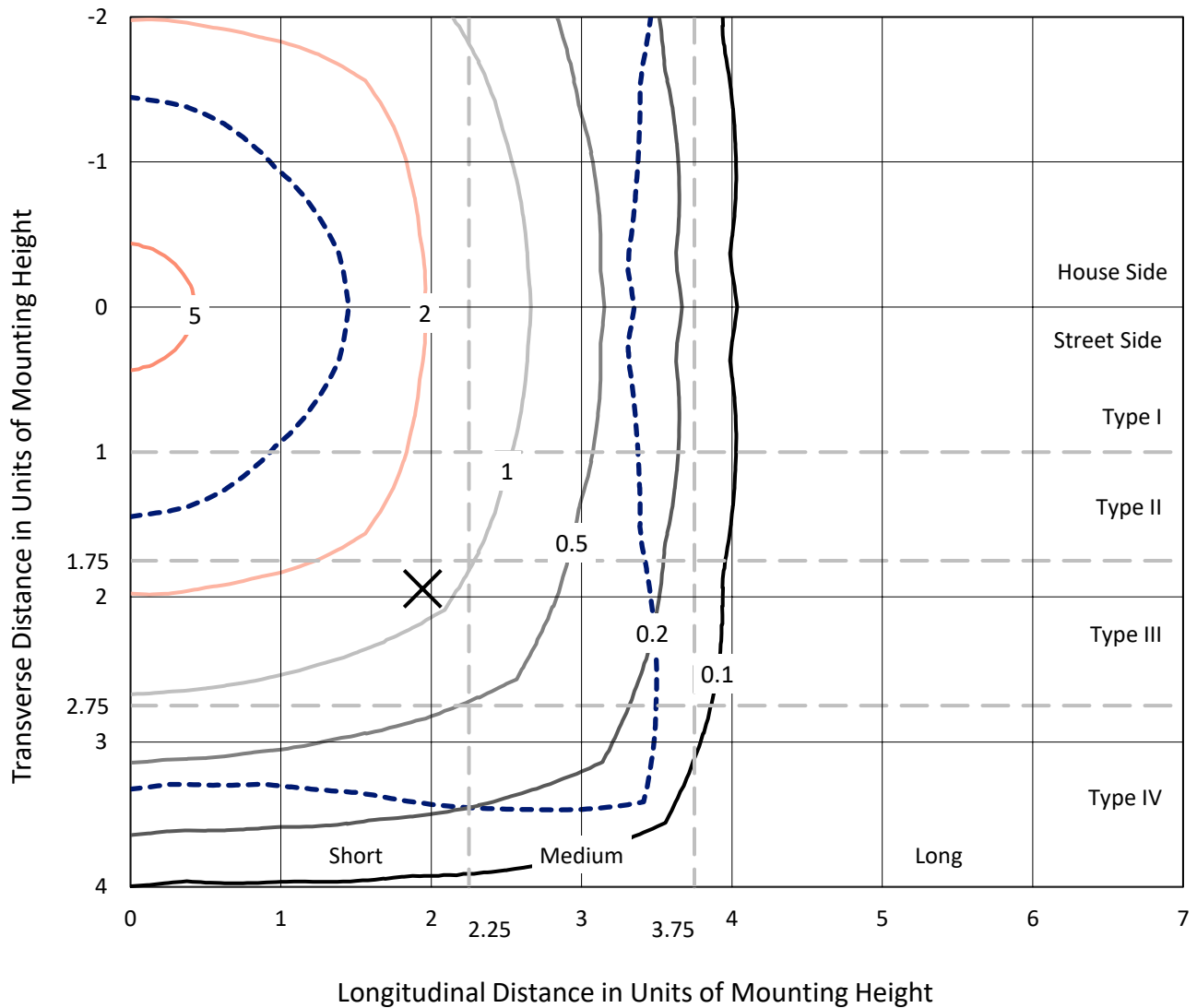
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

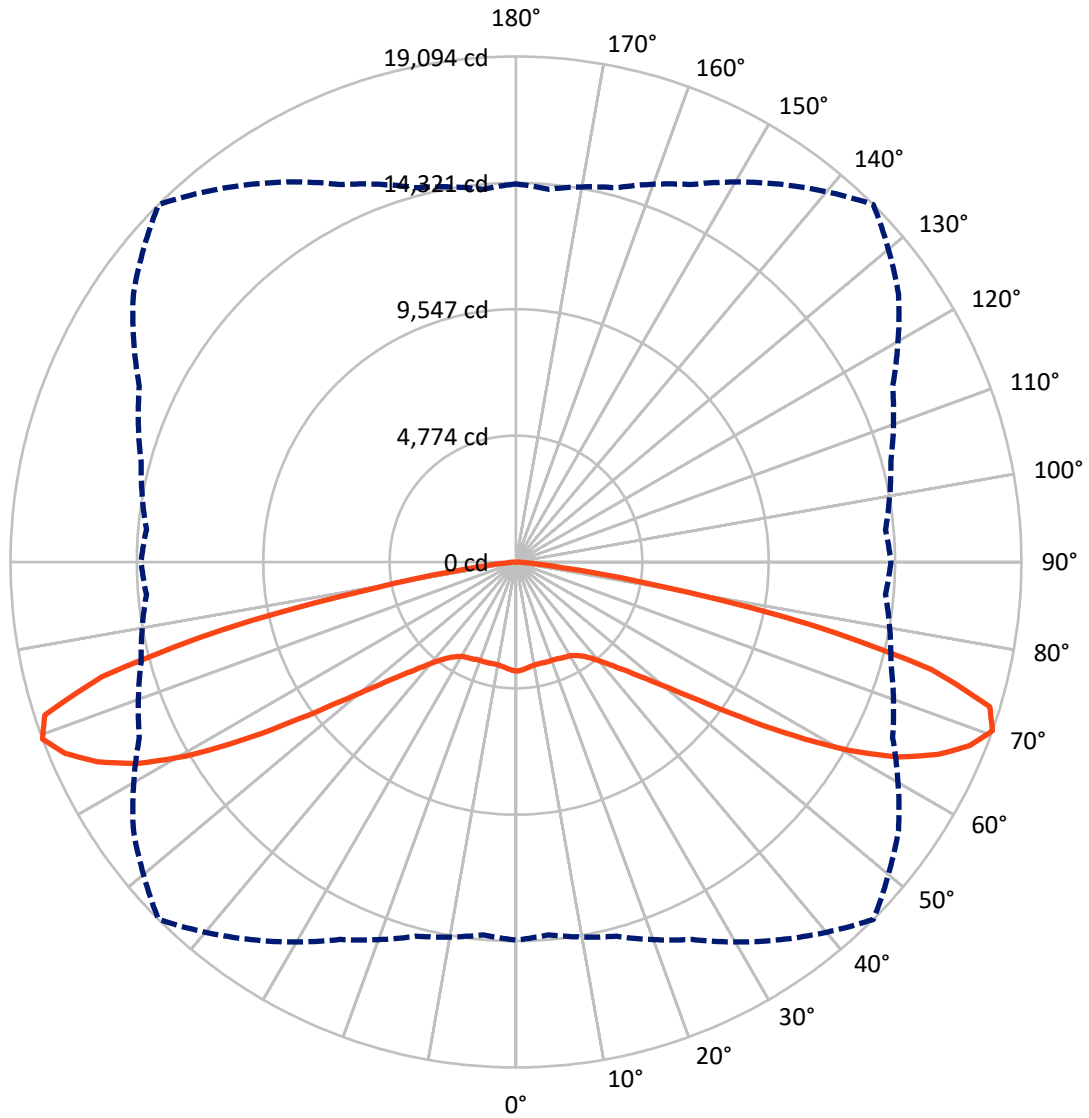
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22606.5	0.0	22606.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22606.5	0.0	22606.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45213.0	0.0	45213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	0.8
10°-20°	1126.5	2.5
20°-30°	1874.7	4.1
30°-40°	2835.1	6.3
40°-50°	4711.3	10.4
50°-60°	8890.0	19.7
60°-70°	15011.1	33.2
70°-80°	9863.9	21.8
80°-90°	516.8	1.1
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°	45213.0	100.0
0°-180°	45213.0	100.0

Coefficient of Utilization



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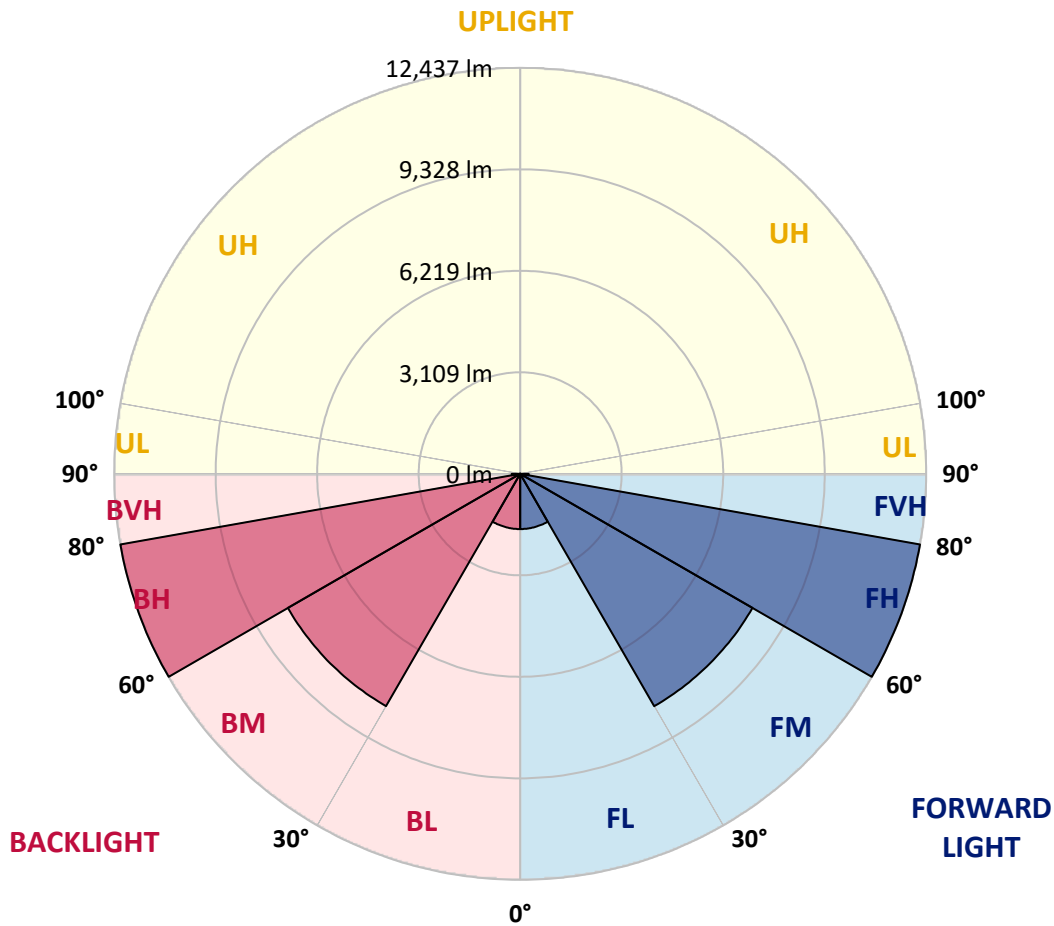
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.4	3.7			
FM (30°-60°)	8218.2	18.2			
FH (60°-80°)	12437.5	27.5			G5
FVH (80°-90°)	258.4	0.6			G3/500
BL (0°-30°)	1692.4	3.7	B3/2500		
BM (30°-60°)	8218.2	18.2	B4/8500		
BH (60°-80°)	12437.5	27.5	B5		G5
BVH (80°-90°)	258.4	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4124.3	4124.3	4124.3	4124.3	4124.3	4124.3	4124.3	4124.3	4124.3	4124.3
2.5°	4098.5	4110.2	4105.5	4096.1	4096.1	4089.1	4096.1	4100.8	4107.9	4112.6
5°	4044.4	4053.8	4051.5	4044.4	4046.8	4039.7	4044.4	4051.5	4056.2	4058.5
7.5°	3997.4	4006.8	4002.1	3990.4	3990.4	3983.3	3985.7	3992.7	3999.8	4002.1
10°	3985.7	3995.1	3981.0	3962.2	3955.1	3945.7	3948.1	3955.1	3969.2	3976.3
12.5°	3990.4	3997.4	3983.3	3955.1	3948.1	3938.7	3938.7	3945.7	3964.5	3973.9
15°	4004.5	4011.5	3990.4	3959.8	3952.8	3945.7	3943.4	3952.8	3973.9	3990.4
17.5°	4030.3	4037.4	4004.5	3962.2	3952.8	3955.1	3952.8	3959.8	3992.7	4023.3
20°	4053.8	4058.5	4013.9	3962.2	3952.8	3955.1	3952.8	3966.9	4009.2	4051.5
22.5°	4060.9	4065.6	4023.3	3978.6	3971.6	3973.9	3971.6	3985.7	4025.6	4067.9
25°	4063.2	4070.3	4037.4	4002.1	4013.9	4018.6	4013.9	4016.2	4046.8	4084.4
27.5°	4098.5	4107.9	4077.3	4046.8	4053.8	4051.5	4058.5	4065.6	4089.1	4126.7
30°	4171.3	4178.4	4152.5	4122.0	4117.3	4100.8	4122.0	4145.5	4171.3	4204.2
32.5°	4291.2	4305.3	4272.4	4239.5	4218.3	4208.9	4225.4	4265.3	4300.6	4335.8
35°	4490.9	4500.3	4469.8	4408.7	4371.1	4371.1	4385.2	4436.9	4493.3	4537.9
37.5°	4772.9	4784.7	4730.6	4657.8	4601.4	4601.4	4620.2	4674.2	4758.8	4822.3
40°	5116.1	5132.5	5064.4	4989.2	4935.1	4925.7	4949.2	5010.3	5090.2	5170.1
42.5°	5529.7	5548.5	5459.2	5393.4	5351.1	5351.1	5362.8	5419.2	5492.1	5590.8
45°	6058.4	6091.3	5969.1	5903.3	5863.4	5872.8	5879.8	5929.2	5995.0	6107.8
47.5°	6688.2	6721.1	6591.9	6523.7	6516.7	6561.3	6533.1	6568.4	6603.6	6732.9
50°	7402.7	7459.1	7369.8	7365.1	7379.2	7461.4	7395.6	7414.4	7374.5	7456.7
52.5°	8276.9	8359.1	8342.7	8370.9	8528.3	8697.5	8547.1	8481.3	8330.9	8356.8
55°	9336.7	9461.3	9484.8	9654.0	10011.2	10356.7	10037.1	9771.5	9451.9	9393.1
57.5°	10542.3	10641.0	10753.8	11099.3	11766.7	12380.1	11766.7	11179.2	10676.3	10556.4
60°	11839.5	11961.7	12069.9	12579.8	13571.5	14434.0	13552.7	12619.8	11954.7	11792.5
62.5°	13233.1	13390.6	13465.8	14032.1	15188.4	16217.7	15204.8	14074.4	13336.5	13162.6
65°	14570.3	14699.6	14784.2	15388.1	16492.6	17524.3	16567.8	15453.9	14694.9	14466.9
67.5°	15193.1	15263.6	15470.4	16154.2	17319.9	18497.2	17517.3	16227.1	15378.7	14979.2
70°	14281.2	14137.9	14636.1	15731.2	17418.6	19094.1	17644.2	15698.3	14659.6	14011.0
72.5°	11035.8	10789.1	11653.9	13526.9	16290.5	18713.4	16403.3	13632.6	12192.1	10876.0
75°	6004.4	5724.7	6918.5	9287.4	12991.1	16220.0	13289.5	9552.9	7703.5	5959.7
77.5°	1694.4	1588.6	2552.2	4493.3	7813.9	11388.3	8114.7	4592.0	3026.9	1795.4
80°	519.4	502.9	681.5	1353.6	3318.3	5454.5	3189.0	1370.1	867.2	547.6
82.5°	307.9	282.0	338.4	493.5	846.0	1713.2	822.5	514.7	413.6	277.3
85°	176.3	164.5	199.8	239.7	284.4	364.3	237.4	244.4	220.9	148.1
87.5°	72.9	65.8	77.6	75.2	65.8	84.6	63.5	75.2	89.3	58.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4124.3
4110.2
4058.5
4002.1
3976.3
3976.3
3992.7
4023.3
4053.8
4067.9
4082.0
4117.3
4197.2
4321.7
4521.5
4798.8
5144.3
5583.7
6103.1
6695.3
7407.4
8269.8
9301.5
10471.8
11651.5
13021.6
14354.1
14983.9
14166.1
11202.7
6347.5
1995.2
578.1
300.8
155.1
54.1
0.0

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