

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: P948926

Luminaire Tested: **GALN-SB3D-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948926
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-SB3D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28748 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

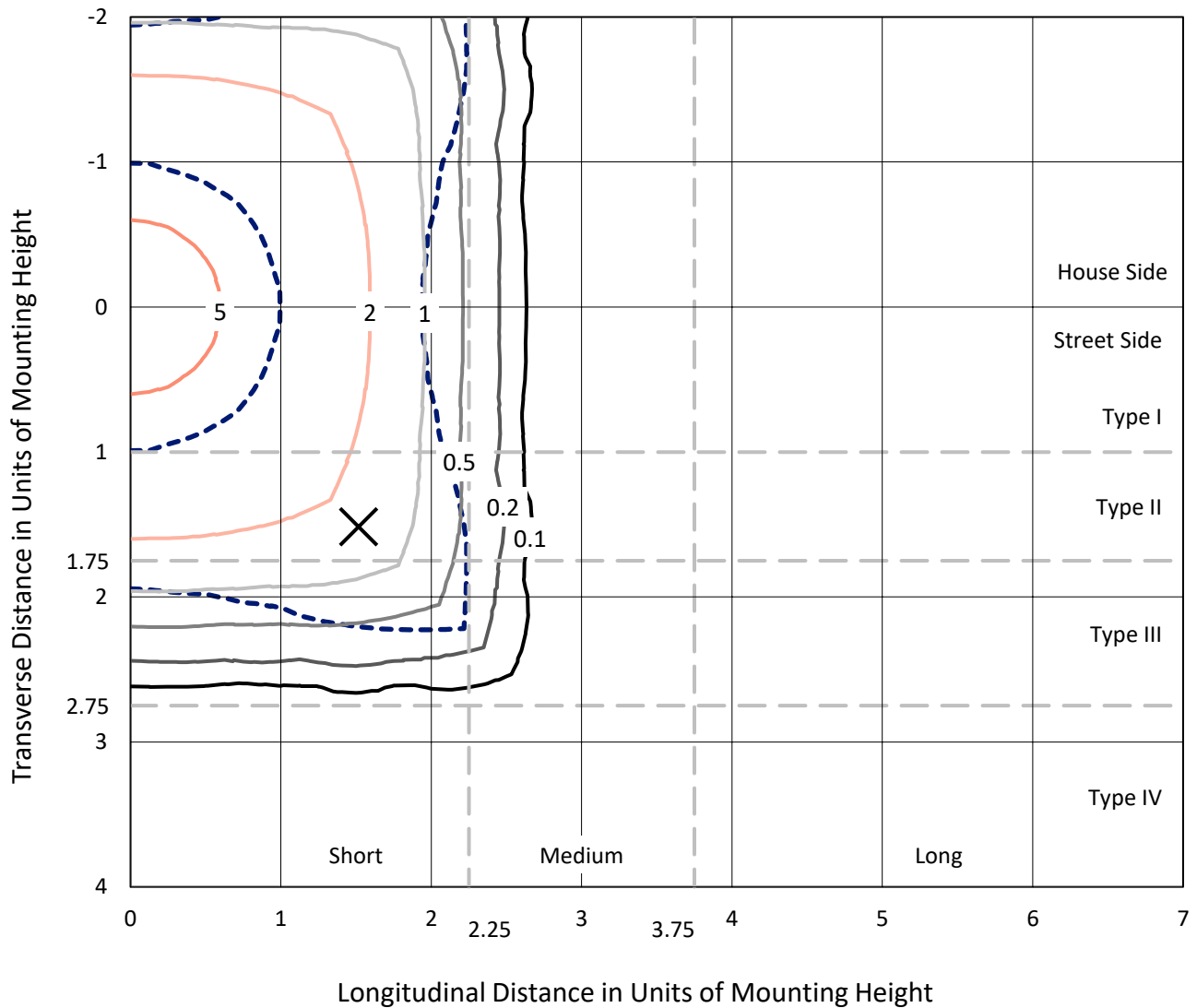
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

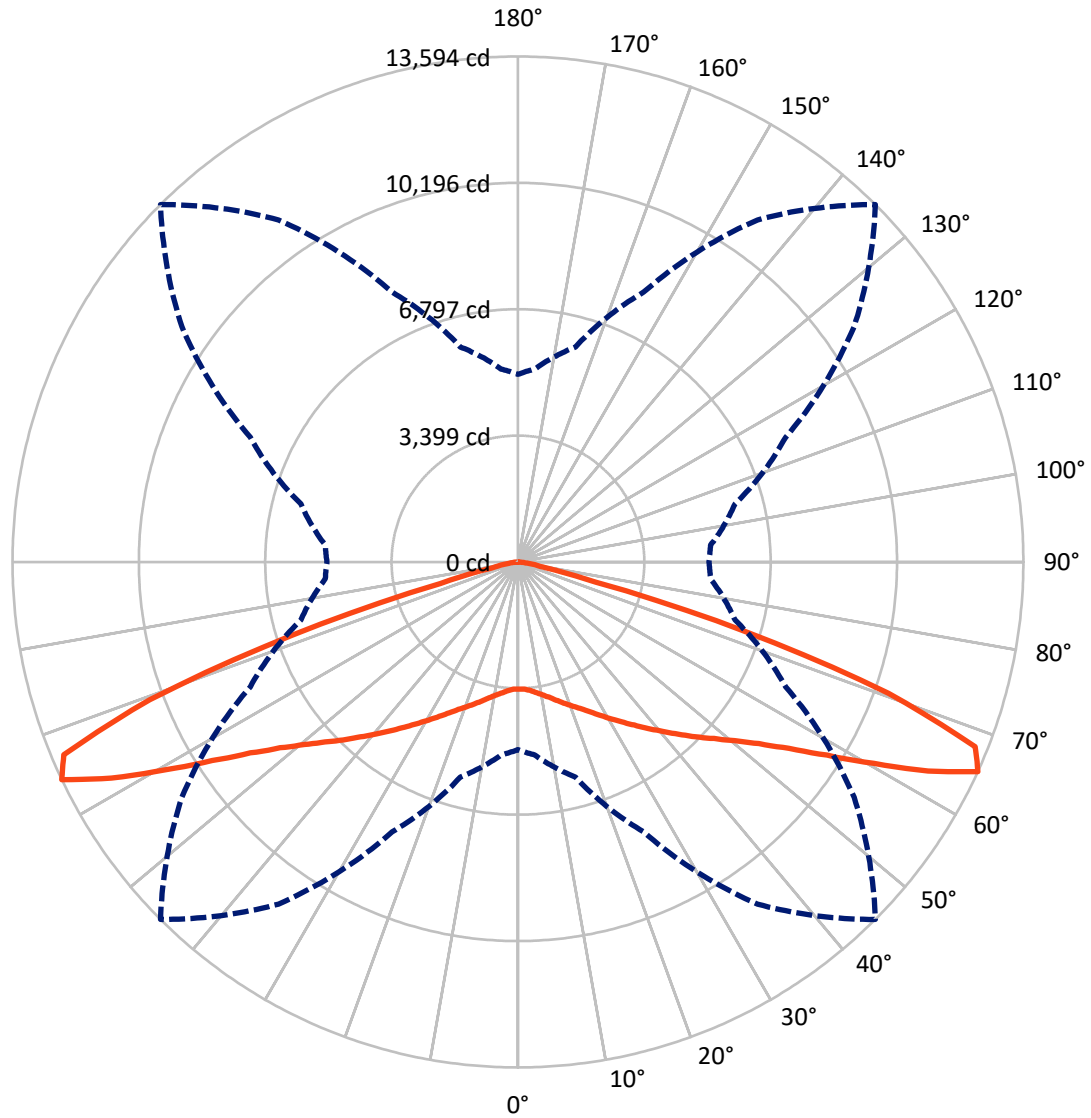
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	14374.0	0.0	14374.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14374.0	0.0	14374.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28748.0	0.0	28748.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.2
10°-20°	1101.8	3.8
20°-30°	2080.3	7.2
30°-40°	3406.4	11.8
40°-50°	5281.6	18.4
50°-60°	7802.1	27.1
60°-70°	7426.8	25.8
70°-80°	1198.4	4.2
80°-90°	113.0	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°	28748.0	100.0
0°-180°	28748.0	100.0



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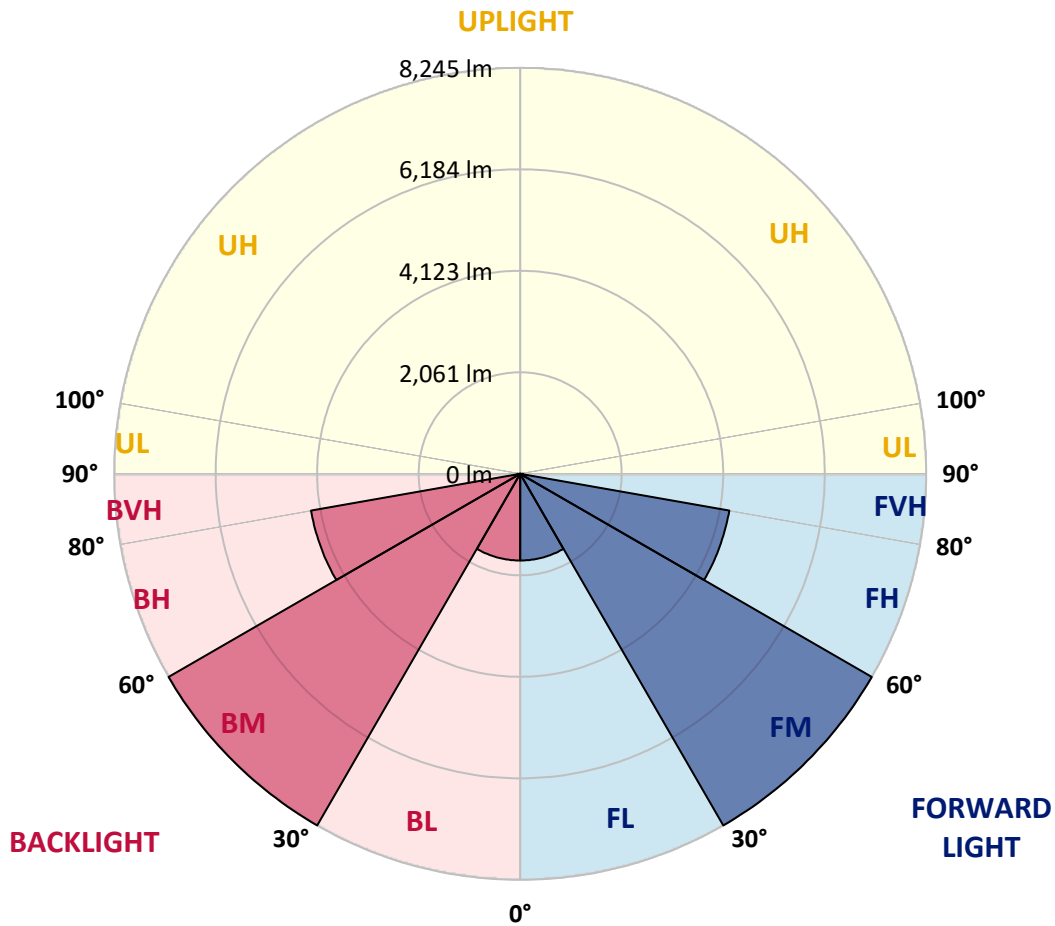
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1759.8	6.1			
FM (30°-60°)	8245.0	28.7			
FH (60°-80°)	4312.6	15.0			G2/5000
FVH (80°-90°)	56.5	0.2			G1/100
BL (0°-30°)	1759.8	6.1	B3/2500		
BM (30°-60°)	8245.0	28.7	B4/8500		
BH (60°-80°)	4312.6	15.0	B4/5000		G2/5000
BVH (80°-90°)	56.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
2.5°	3444.4	3432.8	3441.5	3434.3	3428.5	3422.7	3425.6	3435.7	3440.1	3441.5
5°	3490.5	3480.4	3484.8	3484.8	3474.7	3471.8	3473.2	3480.4	3489.1	3489.1
7.5°	3565.5	3555.4	3565.5	3559.8	3551.1	3548.2	3546.8	3552.6	3565.5	3565.5
10°	3656.4	3644.9	3650.6	3647.8	3637.7	3633.3	3631.9	3640.5	3652.1	3650.6
12.5°	3755.9	3742.9	3750.2	3741.5	3738.6	3734.3	3734.3	3732.9	3740.1	3734.3
15°	3867.0	3858.3	3861.2	3855.5	3859.8	3856.9	3845.4	3839.6	3842.5	3833.8
17.5°	3998.2	3978.1	3988.2	3985.3	3985.3	3991.0	3972.3	3965.1	3970.8	3962.2
20°	4149.7	4129.5	4133.8	4128.1	4120.8	4126.6	4103.5	4109.3	4113.6	4107.9
22.5°	4315.6	4289.6	4288.2	4291.0	4275.2	4276.6	4260.8	4275.2	4283.8	4268.0
25°	4485.8	4458.4	4477.1	4469.9	4449.7	4454.0	4442.5	4456.9	4464.1	4443.9
27.5°	4666.1	4647.3	4664.6	4668.9	4644.4	4661.7	4644.4	4657.4	4664.6	4634.3
30°	4876.6	4857.9	4873.8	4885.3	4856.5	4883.9	4869.4	4878.1	4879.5	4843.5
32.5°	5106.0	5077.1	5117.5	5123.3	5091.6	5124.7	5106.0	5117.5	5124.7	5075.7
35°	5385.8	5349.7	5395.9	5388.7	5361.3	5388.7	5371.4	5388.7	5406.0	5346.9
37.5°	5687.3	5649.8	5698.8	5685.8	5659.9	5678.6	5668.5	5680.0	5707.5	5644.0
40°	6019.0	5972.9	6039.2	6016.1	5991.6	5988.7	5994.5	6001.7	6037.8	5967.1
42.5°	6373.8	6324.8	6424.3	6388.3	6353.6	6330.6	6349.3	6363.7	6398.3	6319.0
45°	6779.1	6722.9	6852.7	6809.4	6754.6	6707.0	6737.3	6758.9	6809.4	6714.2
47.5°	7226.3	7162.8	7301.3	7288.3	7198.9	7095.0	7164.2	7226.3	7263.8	7148.4
50°	7663.3	7614.3	7796.0	7811.9	7702.3	7556.6	7653.2	7747.0	7757.1	7605.6
52.5°	8072.9	8023.9	8287.9	8387.4	8289.3	8116.2	8218.6	8313.8	8237.4	8041.2
55°	8400.4	8360.0	8696.0	8952.8	8986.0	8843.2	8903.7	8900.9	8649.9	8348.4
57.5°	8479.7	8473.9	8898.0	9441.7	9787.9	9805.2	9685.5	9379.7	8838.8	8433.5
60°	8119.1	8155.2	8737.9	9697.0	10620.2	11003.8	10486.0	9613.4	8623.9	8061.4
62.5°	7040.2	7135.4	7837.8	9385.5	11292.3	12382.7	11127.9	9258.6	7741.2	7007.0
65°	5045.4	5211.3	5987.3	8009.5	11231.7	13594.3	11035.6	7944.6	6045.0	5198.3
67.5°	2289.0	2457.8	3117.0	5483.9	9763.4	13265.5	9740.3	5541.6	3272.7	2466.5
70°	829.4	858.2	1070.2	2195.3	6239.7	10569.7	6506.5	2211.2	1138.0	914.5
72.5°	501.9	506.3	551.0	786.1	2167.9	6417.1	2260.2	812.1	562.5	499.1
75°	318.8	315.9	392.3	480.3	768.8	2165.0	806.3	480.3	390.9	356.3
77.5°	229.3	236.5	281.3	359.1	484.6	734.2	476.0	343.3	281.3	230.8
80°	171.6	176.0	204.8	279.8	340.4	457.2	302.9	253.9	212.0	144.2
82.5°	124.0	124.0	134.1	203.4	207.7	246.6	164.4	178.9	139.9	102.4
85°	73.6	72.1	83.7	121.2	108.2	90.9	75.0	109.6	88.0	63.5
87.5°	26.0	27.4	26.0	34.6	28.8	24.5	23.1	30.3	24.5	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3421.3
3441.5
3489.1
3561.2
3647.8
3737.2
3835.3
3969.4
4120.8
4283.8
4467.0
4657.4
4865.1
5108.9
5382.9
5682.9
5990.2
6360.8
6763.3
7187.3
7624.4
8047.0
8358.5
8407.6
7995.1
6963.8
5136.3
2430.4
902.9
507.7
359.1
235.1
148.6
102.4
62.0
20.2
0.0

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