

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: P948989

Luminaire Tested: **GALN-SB3D-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948989
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-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30603 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

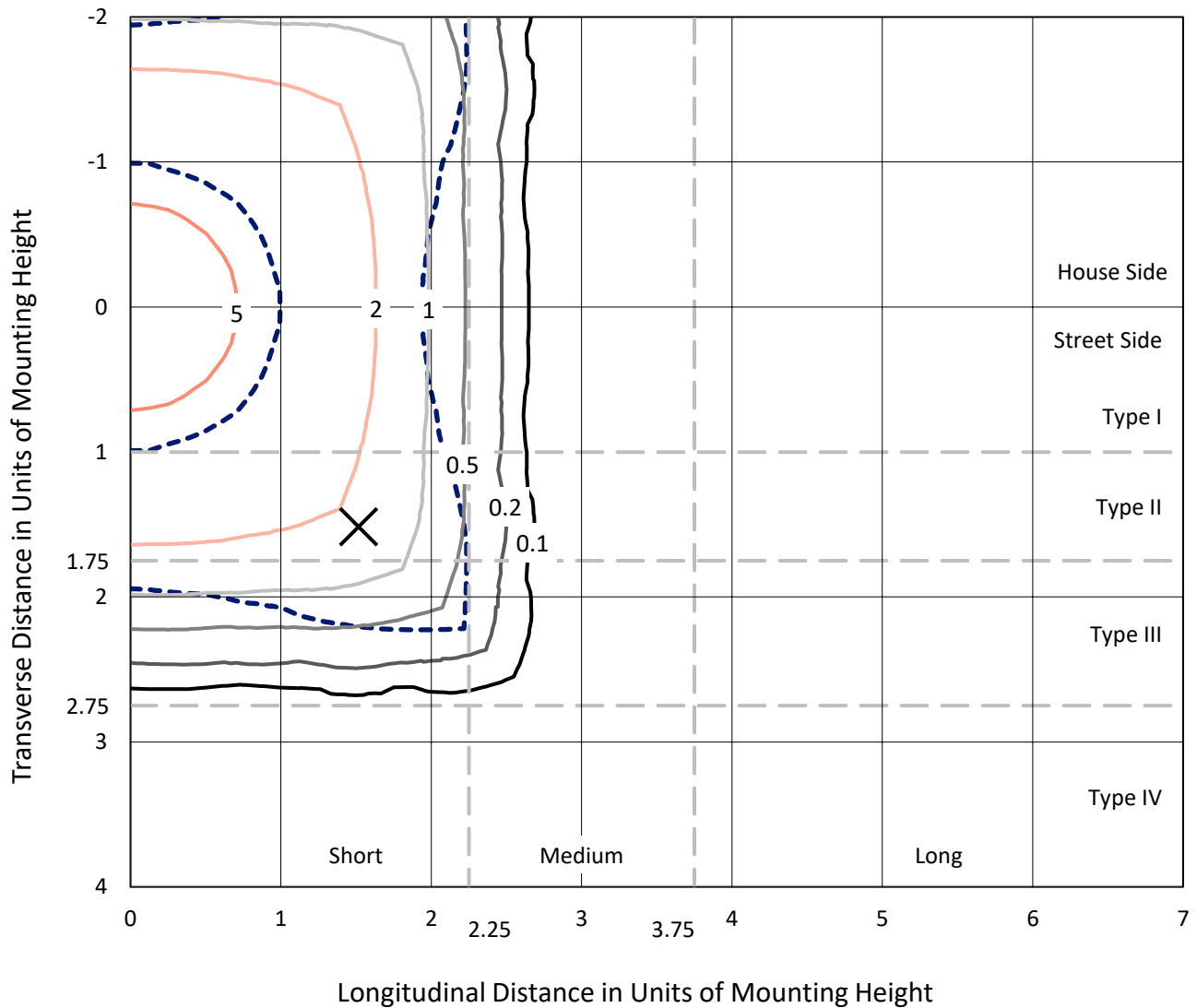
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

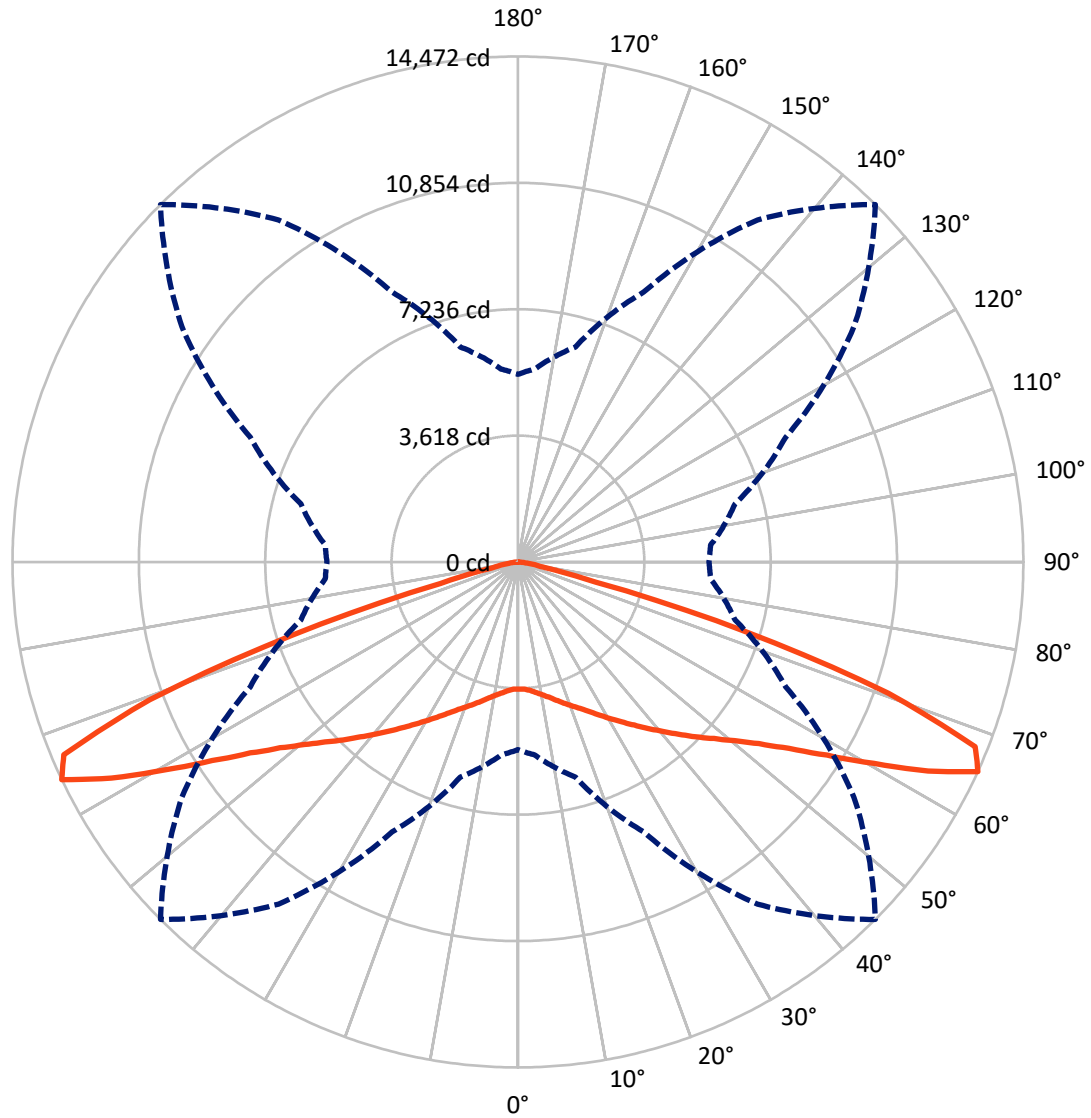
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	15301.5	0.0	15301.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15301.5	0.0	15301.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30603.0	0.0	30603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	1.2
10°-20°	1172.9	3.8
20°-30°	2214.5	7.2
30°-40°	3626.2	11.8
40°-50°	5622.4	18.4
50°-60°	8305.5	27.1
60°-70°	7906.1	25.8
70°-80°	1275.7	4.2
80°-90°	120.3	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°	30603.0	100.0
0°-180°	30603.0	100.0

Coefficient of Utilization



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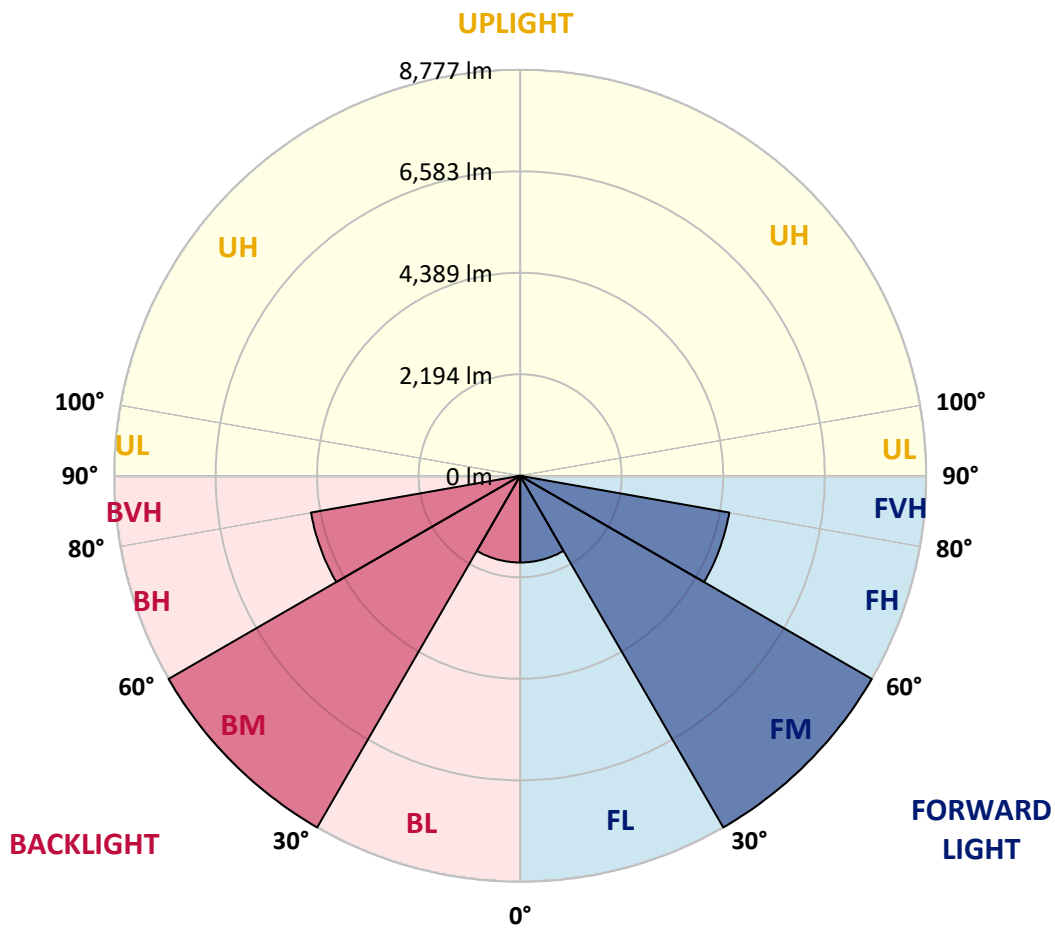
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.4	6.1			
FM (30°-60°)	8777.1	28.7			
FH (60°-80°)	4590.9	15.0			G2/5000
FVH (80°-90°)	60.1	0.2			G1/100
BL (0°-30°)	1873.4	6.1	B3/2500		
BM (30°-60°)	8777.1	28.7	B5		
BH (60°-80°)	4590.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	60.1	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1
2.5°	3666.6	3654.3	3663.6	3655.9	3649.7	3643.6	3646.7	3657.4	3662.0	3663.6
5°	3715.8	3705.0	3709.6	3709.6	3698.9	3695.8	3697.3	3705.0	3714.2	3714.2
7.5°	3795.6	3784.9	3795.6	3789.5	3780.3	3777.2	3775.6	3781.8	3795.6	3795.6
10°	3892.3	3880.1	3886.2	3883.1	3872.4	3867.8	3866.2	3875.4	3887.7	3886.2
12.5°	3998.3	3984.5	3992.1	3982.9	3979.9	3975.3	3975.3	3973.7	3981.4	3975.3
15°	4116.5	4107.3	4110.4	4104.2	4108.8	4105.8	4093.5	4087.3	4090.4	4081.2
17.5°	4256.2	4234.7	4245.5	4242.4	4242.4	4248.6	4228.6	4220.9	4227.1	4217.9
20°	4417.5	4396.0	4400.6	4394.4	4386.8	4392.9	4368.3	4374.5	4379.1	4372.9
22.5°	4594.0	4566.4	4564.9	4567.9	4551.0	4552.6	4535.7	4551.0	4560.3	4543.4
25°	4775.2	4746.0	4766.0	4758.3	4736.8	4741.4	4729.2	4744.5	4752.2	4730.7
27.5°	4967.1	4947.2	4965.6	4970.2	4944.1	4962.5	4944.1	4957.9	4965.6	4933.4
30°	5191.3	5171.4	5188.3	5200.5	5169.8	5199.0	5183.6	5192.9	5194.4	5156.0
32.5°	5435.5	5404.7	5447.7	5453.9	5420.1	5455.4	5435.5	5447.7	5455.4	5403.2
35°	5733.3	5694.9	5744.1	5736.4	5707.2	5736.4	5718.0	5736.4	5754.8	5691.9
37.5°	6054.2	6014.3	6066.5	6052.7	6025.1	6045.0	6034.3	6046.6	6075.7	6008.2
40°	6407.4	6358.3	6428.9	6404.3	6378.2	6375.1	6381.3	6389.0	6427.4	6352.1
42.5°	6785.1	6732.9	6838.8	6800.5	6763.6	6739.0	6759.0	6774.4	6811.2	6726.8
45°	7216.6	7156.7	7294.9	7248.8	7190.5	7139.8	7172.0	7195.1	7248.8	7147.5
47.5°	7692.6	7625.0	7772.4	7758.6	7663.4	7552.8	7626.5	7692.6	7732.5	7609.6
50°	8157.8	8105.6	8299.1	8315.9	8199.2	8044.2	8147.0	8246.8	8257.6	8096.4
52.5°	8593.9	8541.7	8822.6	8928.6	8824.2	8639.9	8748.9	8850.3	8768.9	8560.1
55°	8942.4	8899.4	9257.2	9530.5	9565.8	9413.8	9478.3	9475.2	9208.0	8887.1
57.5°	9026.9	9020.7	9472.1	10051.0	10419.5	10437.9	10310.5	9985.0	9409.2	8977.7
60°	8643.0	8681.4	9301.7	10322.8	11305.4	11713.9	11162.6	10233.7	9180.4	8581.6
62.5°	7494.5	7595.8	8343.6	9991.1	12021.0	13181.8	11845.9	9856.0	8240.7	7459.2
65°	5371.0	5547.5	6373.6	8526.3	11956.5	14471.5	11747.6	8457.2	6435.0	5533.7
67.5°	2436.7	2616.4	3318.1	5837.7	10393.4	14121.4	10368.8	5899.2	3483.9	2625.6
70°	882.9	913.6	1139.3	2336.9	6642.3	11251.7	6926.4	2353.8	1211.5	973.5
72.5°	534.3	538.9	586.5	836.8	2307.8	6831.2	2406.0	864.5	598.8	531.3
75°	339.3	336.3	417.6	511.3	818.4	2304.7	858.3	511.3	416.1	379.3
77.5°	244.1	251.8	299.4	382.3	515.9	781.5	506.7	365.4	299.4	245.7
80°	182.7	187.3	218.0	297.9	362.4	486.7	322.4	270.2	225.7	153.5
82.5°	132.0	132.0	142.8	216.5	221.1	262.6	175.0	190.4	148.9	109.0
85°	78.3	76.8	89.1	129.0	115.2	96.7	79.8	116.7	93.7	67.6
87.5°	27.6	29.2	27.6	36.9	30.7	26.1	24.6	32.2	26.1	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3642.1
3663.6
3714.2
3791.0
3883.1
3978.3
4082.7
4225.5
4386.8
4560.3
4755.3
4957.9
5179.0
5438.5
5730.3
6049.6
6376.7
6771.3
7199.7
7651.1
8116.3
8566.2
8897.9
8950.1
8510.9
7413.1
5467.7
2587.2
961.2
540.5
382.3
250.3
158.2
109.0
66.0
21.5
0.0

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