

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: P948971

Luminaire Tested: **GALN-SB3D-840-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-840-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30073 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

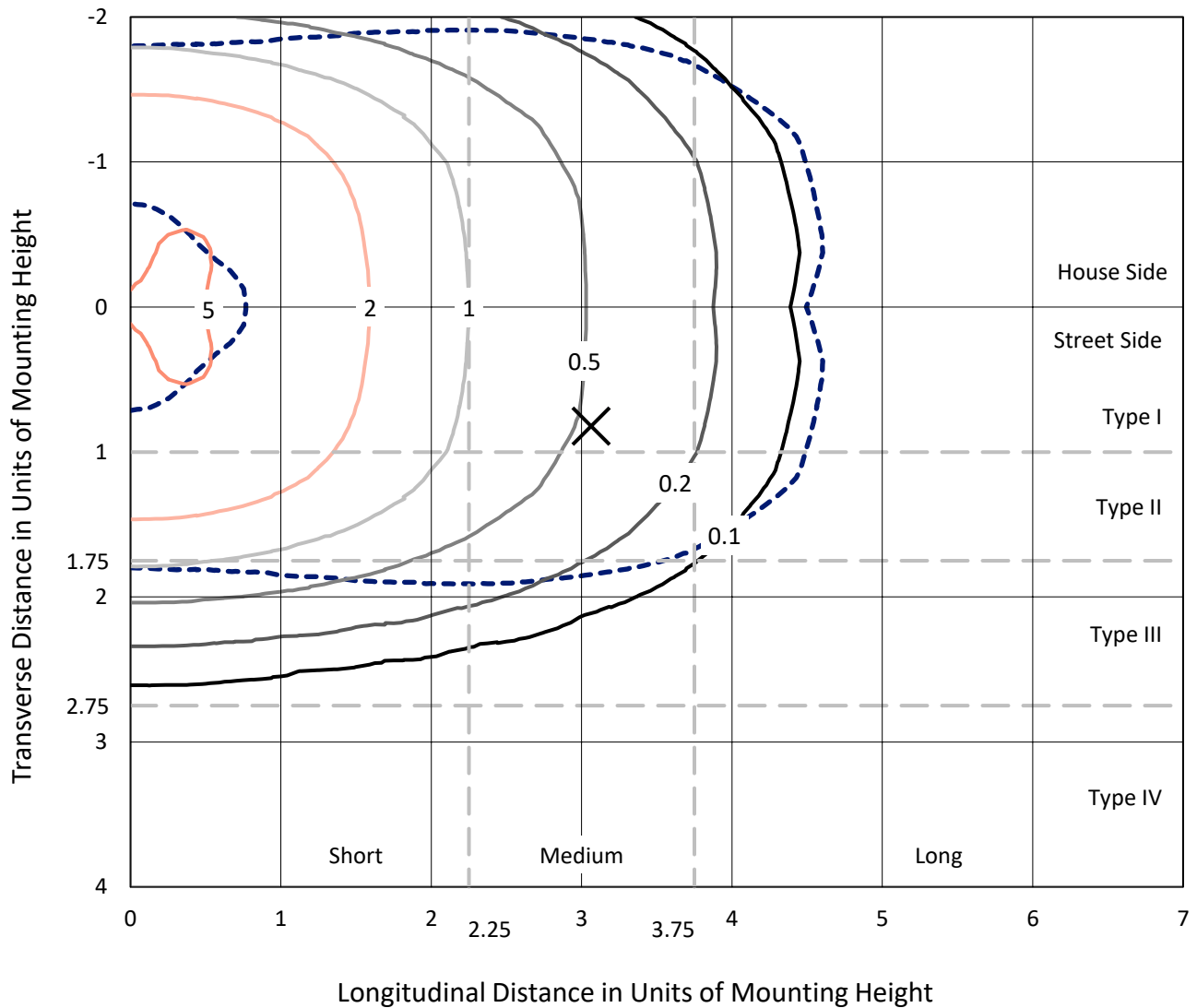
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

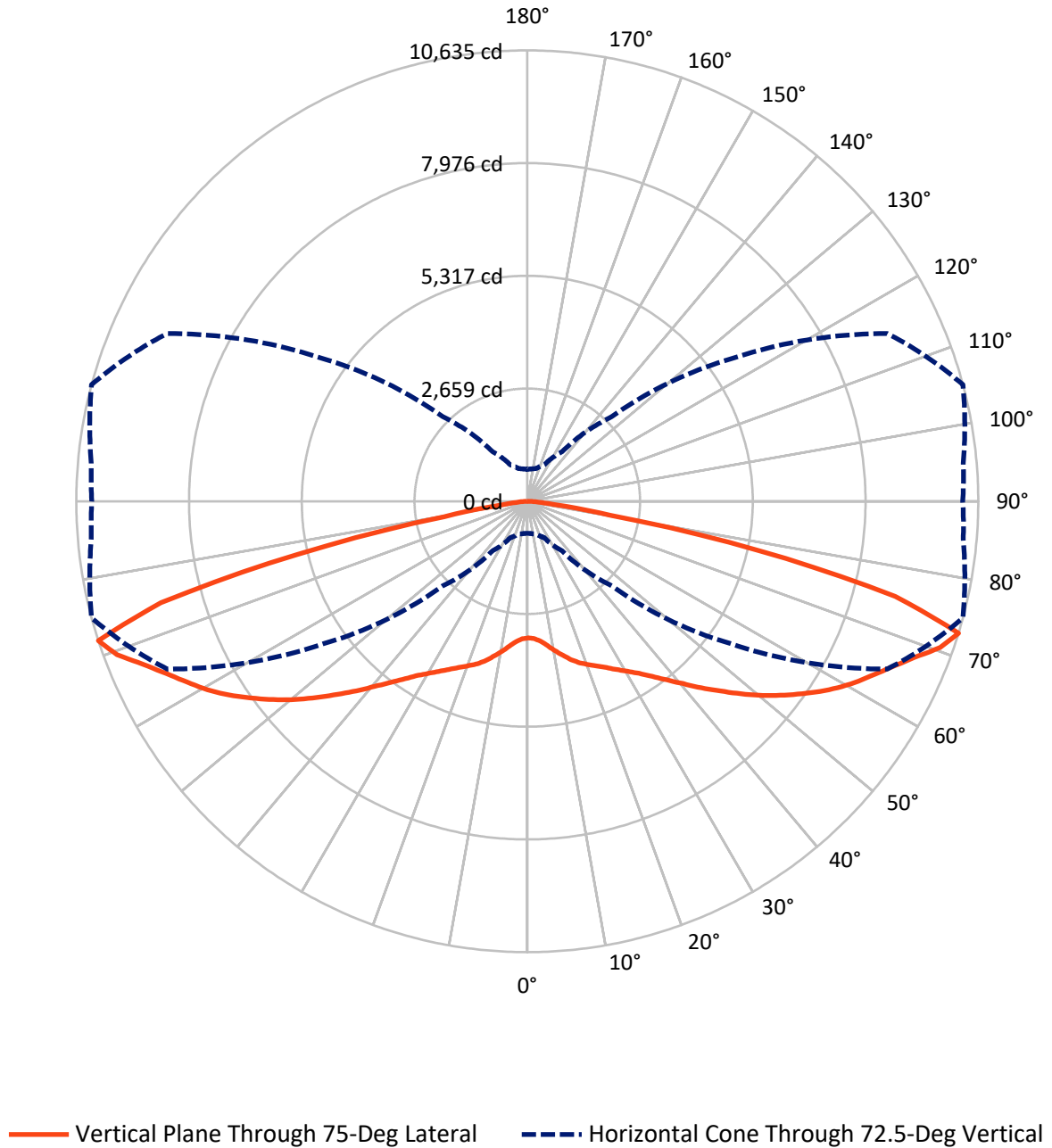
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15036.5	0.0	15036.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15036.5	0.0	15036.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30073.0	0.0	30073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	1.0
10°-20°	1040.8	3.5
20°-30°	2011.1	6.7
30°-40°	3395.8	11.3
40°-50°	5385.4	17.9
50°-60°	7210.5	24.0
60°-70°	6862.0	22.8
70°-80°	3580.7	11.9
80°-90°	271.0	0.9
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°	30073.0	100.0
0°-180°	30073.0	100.0



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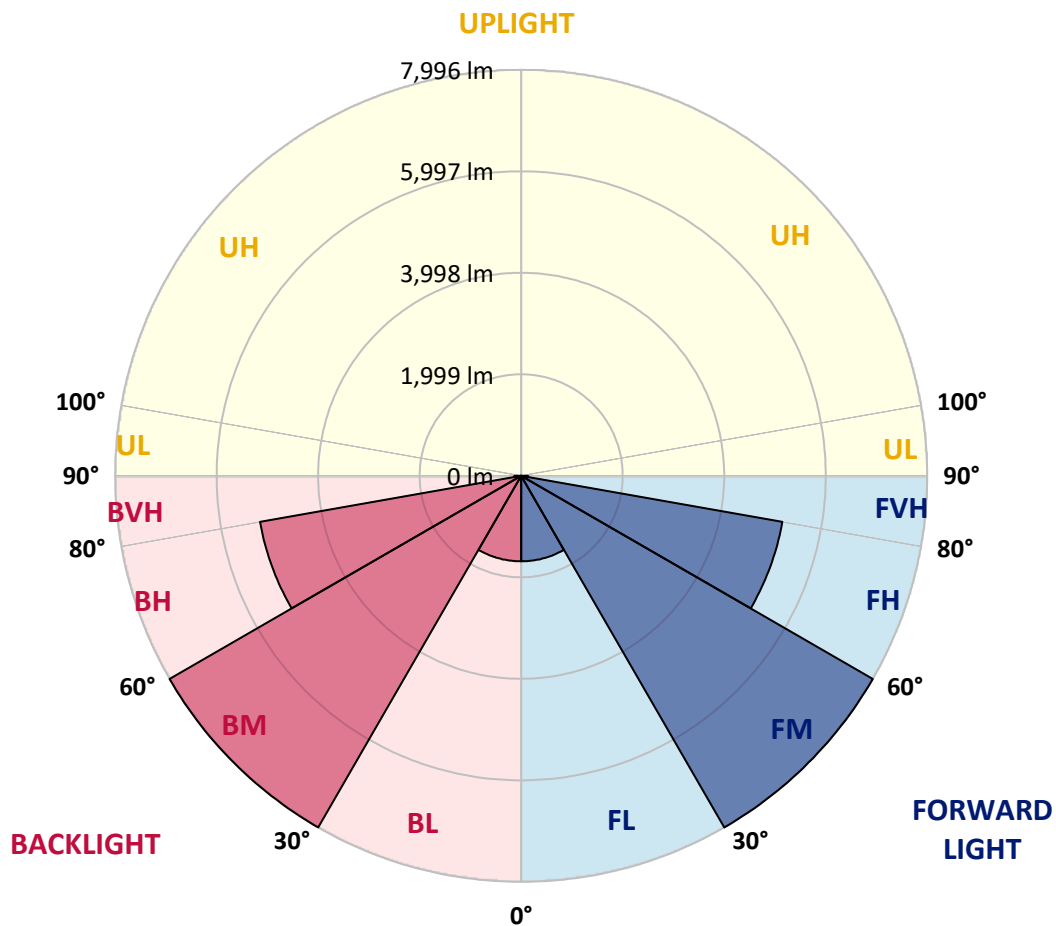
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.7	5.6			
FM (30°-60°)	7995.9	26.6			
FH (60°-80°)	5221.4	17.4			G3/7500
FVH (80°-90°)	135.5	0.5			G2/225
BL (0°-30°)	1683.7	5.6	B3/2500		
BM (30°-60°)	7995.9	26.6	B4/8500		
BH (60°-80°)	5221.4	17.4	B5		G5
BVH (80°-90°)	135.5	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3221.4	3221.4	3221.4	3221.4	3221.4	3221.4	3221.4	3221.4	3221.4	3221.4
2.5°	3221.4	3218.3	3221.4	3224.4	3222.9	3222.9	3230.6	3235.2	3244.4	3242.9
5°	3199.9	3198.3	3210.6	3224.4	3235.2	3253.6	3276.6	3293.5	3315.0	3319.6
7.5°	3189.1	3184.5	3206.0	3230.6	3264.3	3310.4	3354.9	3401.0	3437.9	3450.1
10°	3196.8	3198.3	3227.5	3273.6	3327.3	3391.8	3454.7	3533.1	3585.3	3597.5
12.5°	3232.1	3229.0	3278.2	3351.9	3425.6	3506.9	3580.7	3666.6	3723.4	3752.6
15°	3296.6	3290.5	3359.5	3468.6	3576.0	3671.2	3731.1	3812.5	3878.5	3915.4
17.5°	3373.4	3376.4	3467.0	3608.3	3749.5	3857.0	3913.8	3955.3	4006.0	4038.2
20°	3508.5	3514.6	3616.0	3783.3	3944.5	4067.4	4113.4	4098.1	4111.9	4136.5
22.5°	3689.7	3692.7	3806.4	3987.5	4156.4	4291.6	4322.3	4259.3	4220.9	4237.8
25°	3900.0	3920.0	4033.6	4219.4	4392.9	4521.9	4535.7	4440.5	4345.3	4349.9
27.5°	4156.4	4174.9	4290.0	4474.3	4650.9	4762.9	4761.4	4634.0	4494.2	4458.9
30°	4434.4	4454.3	4572.5	4762.9	4927.2	5025.5	5004.0	4852.0	4652.4	4586.4
32.5°	4764.5	4776.8	4896.5	5086.9	5238.9	5317.2	5272.7	5085.4	4836.6	4761.4
35°	5163.7	5182.1	5271.2	5450.8	5584.4	5648.9	5573.7	5352.5	5073.1	4988.7
37.5°	5619.7	5607.4	5708.8	5868.5	5979.0	6018.9	5916.1	5653.5	5343.3	5243.5
40°	6095.7	6089.6	6200.1	6353.7	6413.5	6438.1	6286.1	5999.0	5655.0	5547.6
42.5°	6527.2	6522.6	6671.5	6841.9	6914.1	6886.5	6694.5	6365.9	6015.9	5893.0
45°	6872.6	6866.5	7049.2	7288.7	7430.0	7383.9	7126.0	6771.3	6381.3	6253.9
47.5°	7138.3	7141.3	7337.9	7634.2	7881.4	7898.3	7566.7	7184.3	6783.6	6639.2
50°	7330.2	7339.4	7549.8	7878.4	8216.1	8365.1	8016.5	7608.1	7199.7	7036.9
52.5°	7377.8	7394.7	7648.0	8033.4	8431.1	8715.2	8474.1	8015.0	7594.3	7439.2
55°	7124.4	7158.2	7479.1	8021.1	8563.2	8945.5	8876.4	8428.0	7992.0	7832.3
57.5°	6542.5	6590.1	6964.8	7672.6	8534.0	9103.6	9188.1	8824.2	8389.7	8236.1
60°	5727.2	5784.0	6143.3	6915.6	8122.5	9162.0	9407.7	9209.6	8755.1	8606.2
62.5°	4497.3	4571.0	5000.9	5906.8	7253.4	8890.2	9595.0	9558.1	9083.7	8897.9
65°	2885.1	2963.4	3416.4	4486.6	6094.2	8058.0	9653.3	9897.5	9430.7	9171.2
67.5°	1739.7	1775.0	1999.1	2719.3	4454.3	6803.5	9158.9	10273.6	9836.0	9513.6
70°	1113.2	1133.2	1266.7	1596.9	2518.1	4964.1	7933.6	10344.3	10327.4	9865.2
72.5°	755.4	761.6	796.9	945.8	1424.9	2820.6	5851.6	9364.7	10634.5	10318.2
75°	552.8	586.5	643.4	669.5	809.2	1409.5	3353.4	6579.4	8962.4	9100.6
77.5°	411.5	413.0	491.3	522.1	577.3	750.8	1418.7	3672.8	5564.4	5842.4
80°	348.5	330.1	328.6	420.7	434.5	468.3	634.1	1268.3	1993.0	1208.4
82.5°	290.2	270.2	244.1	328.6	296.3	287.1	274.8	515.9	634.1	311.7
85°	202.7	193.5	184.3	215.0	168.9	144.3	132.0	241.1	267.2	132.0
87.5°	87.5	90.6	92.1	95.2	70.6	50.7	50.7	67.6	67.6	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3221.4
3241.3
3319.6
3453.2
3609.8
3764.9
3929.2
4053.6
4154.9
4250.1
4357.6
4469.7
4594.0
4779.8
5000.9
5262.0
5582.9
5923.7
6283.0
6682.2
7086.1
7479.1
7876.8
8271.4
8638.4
8919.4
9203.4
9538.2
9862.1
10269.0
8765.8
5211.3
913.6
265.6
116.7
38.4
0.0

OF REPORT)