

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: P950416

Luminaire Tested: **GALN-SB4D-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40854 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

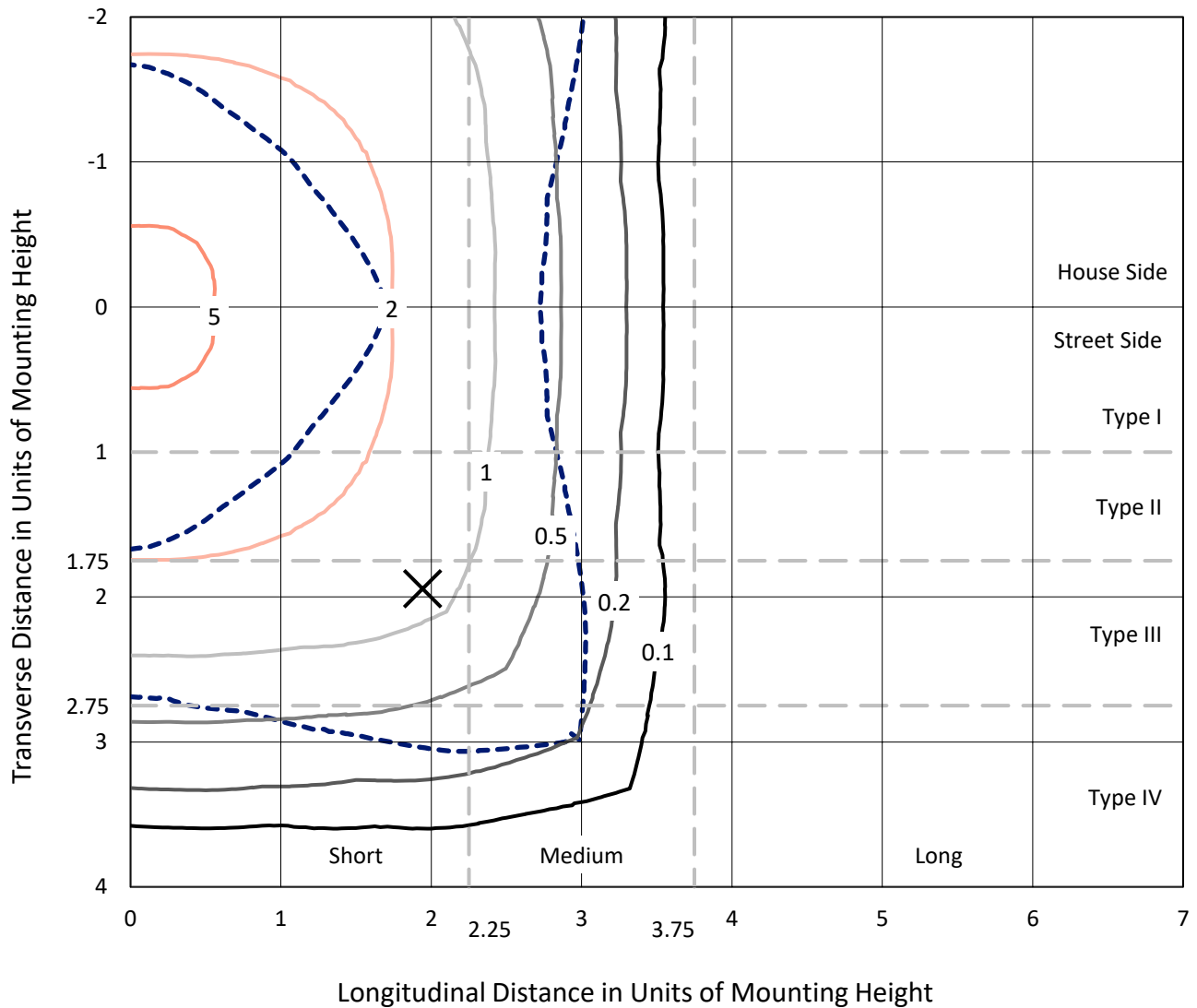
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

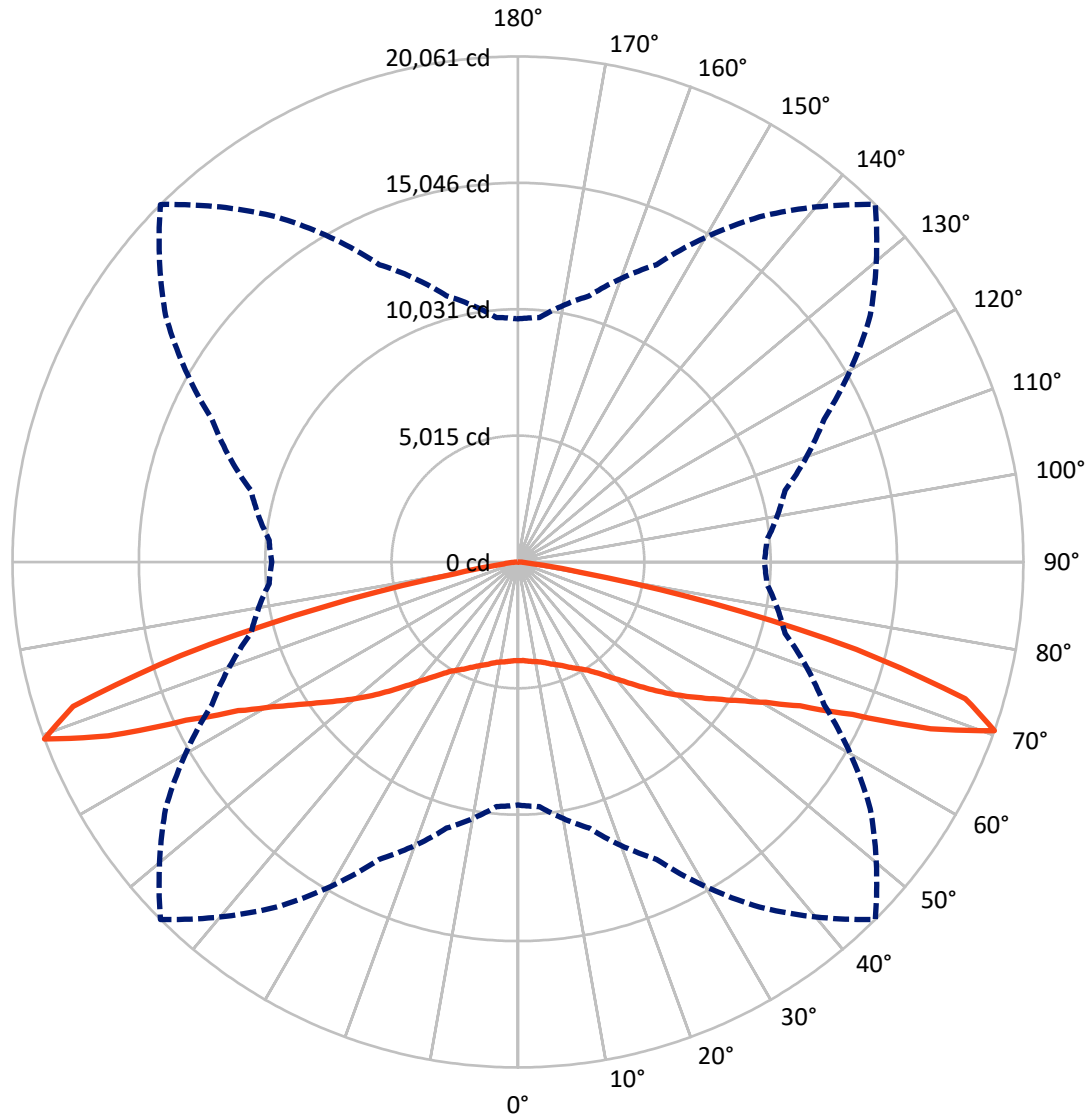
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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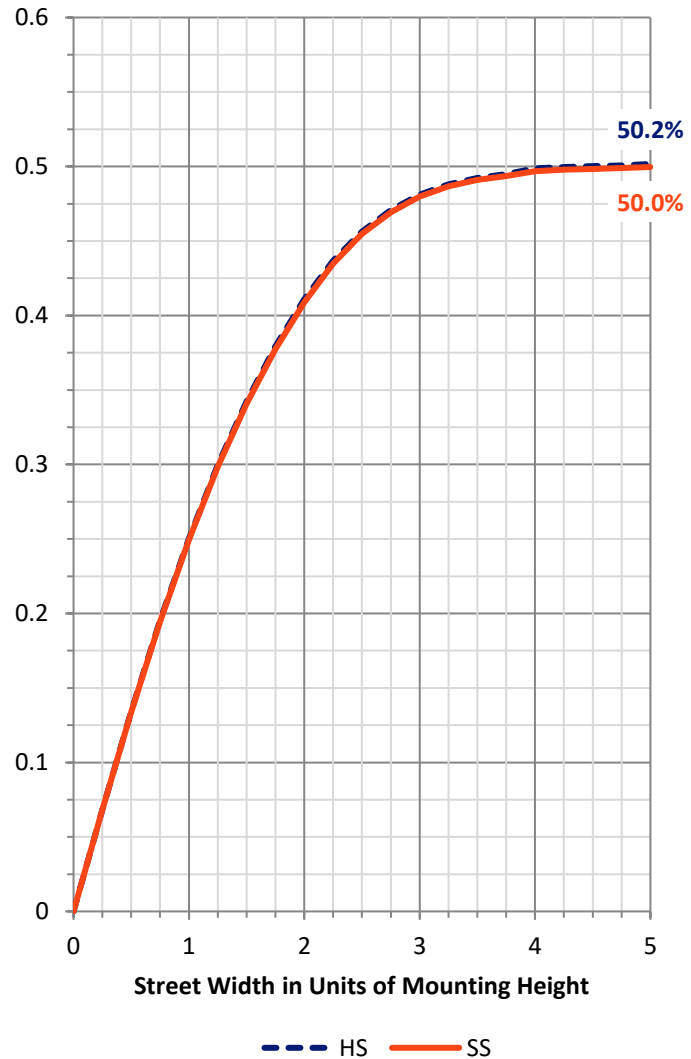
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20427.0	0.0	20427.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20427.0	0.0	20427.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40854.0	0.0	40854.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	0.9
10°-20°	1178.9	2.9
20°-30°	2106.9	5.2
30°-40°	3415.2	8.4
40°-50°	5562.8	13.6
50°-60°	8481.4	20.8
60°-70°	12617.6	30.9
70°-80°	6877.0	16.8
80°-90°	234.2	0.6
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°	40854.0	100.0
0°-180°	40854.0	100.0

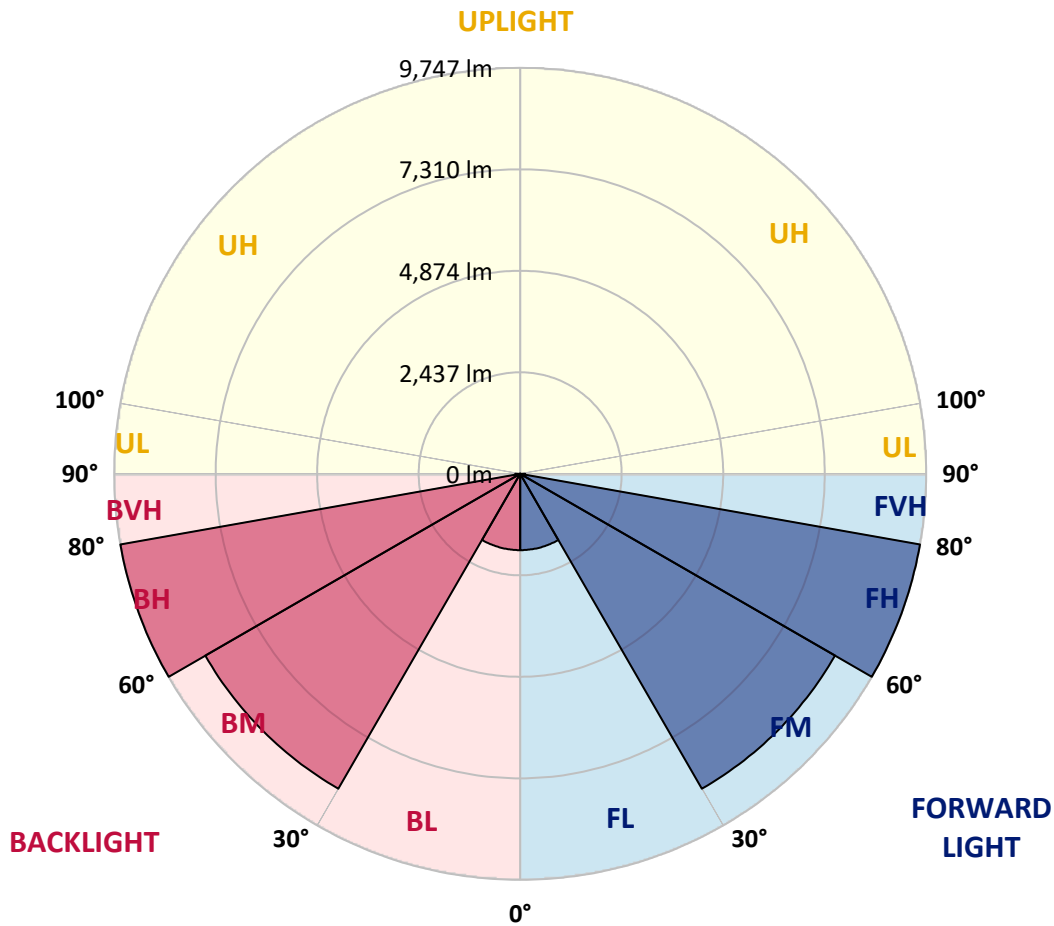


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.0	4.5			
FM (30°-60°)	8729.7	21.4			
FH (60°-80°)	9747.3	23.9			G4/12000
FVH (80°-90°)	117.1	0.3			G2/225
BL (0°-30°)	1833.0	4.5	B3/2500		
BM (30°-60°)	8729.7	21.4	B5		
BH (60°-80°)	9747.3	23.9	B5		G4/12000
BVH (80°-90°)	117.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3913.4	3913.4	3913.4	3913.4	3913.4	3913.4	3913.4	3913.4	3913.4	3913.4
2.5°	3931.8	3936.0	3927.7	3923.6	3919.5	3913.4	3915.4	3925.7	3933.9	3931.8
5°	3964.7	3968.8	3962.6	3960.6	3952.4	3950.3	3950.3	3960.6	3966.7	3962.6
7.5°	4001.6	4007.7	3997.5	3995.4	3991.3	3987.2	3985.2	3995.4	4001.6	4001.6
10°	4036.5	4042.6	4034.4	4028.2	4024.1	4024.1	4020.0	4028.2	4038.5	4036.5
12.5°	4073.4	4077.5	4069.3	4065.2	4065.2	4071.3	4065.2	4069.3	4077.5	4073.4
15°	4118.5	4120.5	4118.5	4124.6	4134.9	4155.4	4137.0	4132.9	4137.0	4126.7
17.5°	4180.0	4184.1	4192.3	4206.7	4221.0	4258.0	4225.1	4214.9	4214.9	4194.4
20°	4255.9	4262.1	4274.4	4299.0	4317.4	4352.3	4319.5	4305.1	4299.0	4272.3
22.5°	4335.9	4346.2	4364.6	4397.4	4430.3	4463.1	4430.3	4405.6	4387.2	4352.3
25°	4428.2	4440.5	4469.2	4522.6	4567.7	4614.8	4575.9	4526.7	4489.7	4440.5
27.5°	4559.5	4573.8	4608.7	4674.3	4731.8	4772.8	4735.9	4672.3	4621.0	4561.5
30°	4744.1	4758.4	4799.4	4869.2	4908.1	4934.8	4910.2	4861.0	4799.4	4731.8
32.5°	4982.0	5000.4	5045.6	5111.2	5119.4	5123.5	5115.3	5090.7	5045.6	4963.5
35°	5283.5	5304.0	5355.3	5408.6	5400.4	5408.6	5396.3	5388.1	5355.3	5260.9
37.5°	5652.7	5677.3	5730.6	5771.6	5751.1	5740.9	5742.9	5745.0	5726.5	5621.9
40°	6081.3	6114.2	6153.1	6196.2	6161.3	6130.6	6151.1	6167.5	6151.1	6044.4
42.5°	6522.3	6569.5	6610.5	6672.0	6643.3	6604.4	6633.1	6651.5	6616.7	6501.8
45°	7012.5	7057.6	7111.0	7203.3	7182.8	7141.7	7182.8	7186.9	7127.4	6992.0
47.5°	7519.1	7566.3	7646.3	7769.4	7761.1	7716.0	7769.4	7740.6	7664.7	7502.7
50°	7999.1	8064.7	8187.8	8360.1	8376.5	8321.1	8392.9	8337.5	8210.3	8007.3
52.5°	8450.3	8520.0	8714.9	8948.7	9008.2	8936.4	9032.8	8936.4	8745.6	8485.2
55°	8924.1	9002.0	9233.8	9539.4	9658.4	9605.0	9695.3	9549.7	9278.9	8963.1
57.5°	9482.0	9529.1	9806.0	10169.1	10370.1	10382.4	10423.4	10177.3	9849.1	9490.2
60°	10087.0	10152.7	10454.2	10889.0	11206.9	11309.5	11266.4	10901.3	10519.8	10107.5
62.5°	10862.3	10934.1	11295.1	11816.1	12318.6	12572.9	12404.7	11875.5	11403.8	10909.5
65°	11504.3	11584.3	12236.5	13165.6	14080.4	14591.1	14168.6	13194.4	12345.2	11647.9
67.5°	11038.7	11137.2	12160.6	13867.1	16141.7	17665.6	16219.6	14076.3	12412.9	11467.4
70°	9648.1	9740.4	10934.1	13020.0	16722.2	20061.3	17070.8	13403.6	10973.1	9914.7
72.5°	6405.4	6702.8	7910.9	10413.1	14931.6	18564.0	15079.3	10201.9	7338.6	6391.1
75°	2124.9	2362.8	3187.3	5398.3	10000.9	13883.5	9520.9	4776.9	2524.8	1817.2
77.5°	535.3	617.4	851.2	1544.4	3989.3	7904.7	3591.4	1261.4	687.1	479.9
80°	260.5	287.1	410.2	514.8	998.9	2512.5	937.3	484.0	324.1	250.2
82.5°	143.6	145.6	231.8	291.2	371.2	650.2	385.6	283.0	186.6	151.8
85°	88.2	86.1	123.1	155.9	155.9	231.8	184.6	155.9	106.7	94.3
87.5°	34.9	34.9	45.1	49.2	43.1	59.5	47.2	51.3	41.0	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3913.4
3933.9
3964.7
4001.6
4036.5
4071.3
4126.7
4194.4
4272.3
4350.3
4438.5
4559.5
4731.8
4965.6
5260.9
5621.9
6044.4
6510.0
7006.4
7492.5
8003.2
8460.6
8920.0
9441.0
10041.9
10823.4
11533.0
11325.9
9773.2
6183.9
1718.8
428.7
229.7
151.8
98.5
41.0
0.0

OF REPORT)