

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: P941870

Luminaire Tested: **GALN-SB5C-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941870
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-SB5C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36602 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

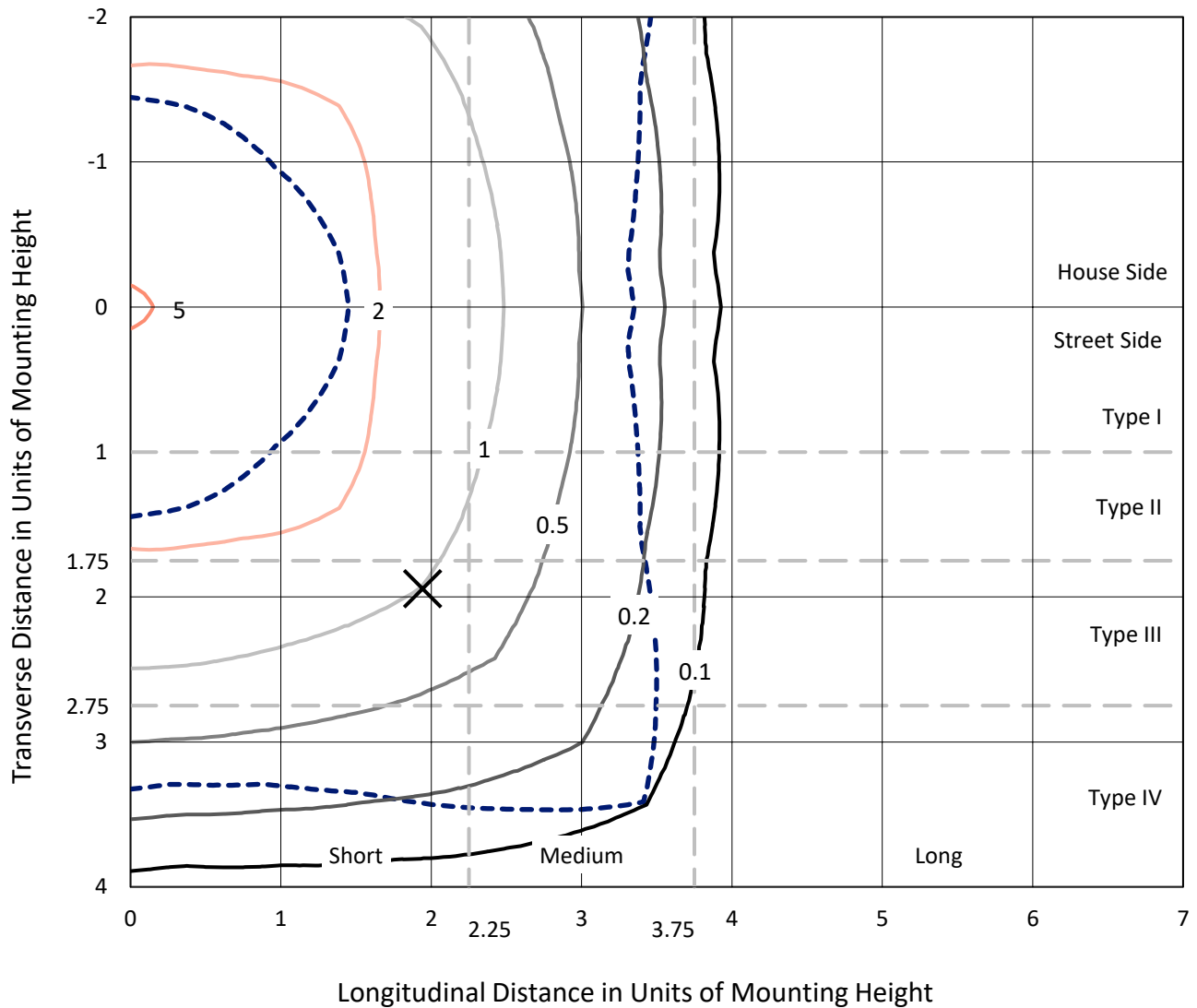
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

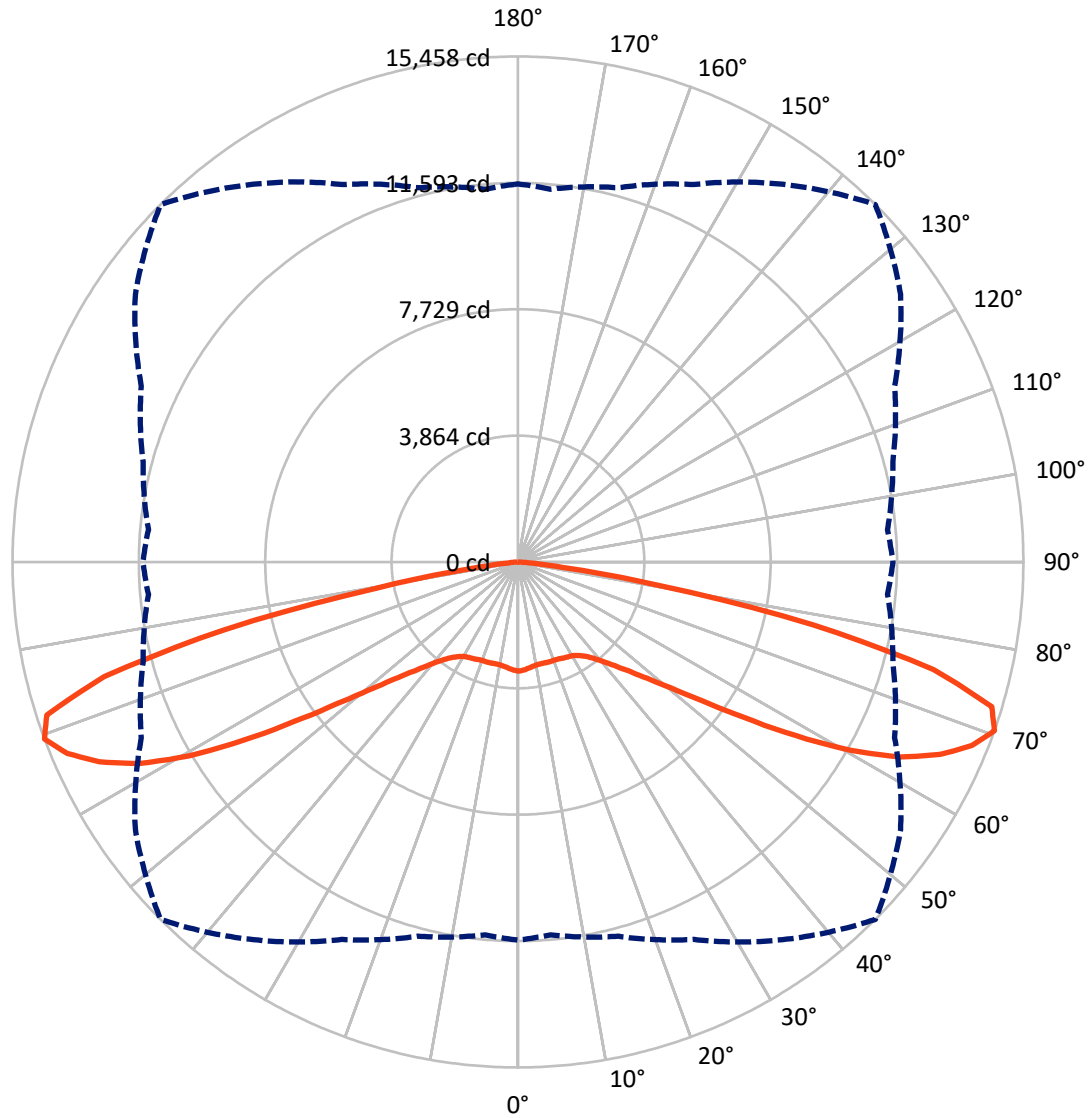
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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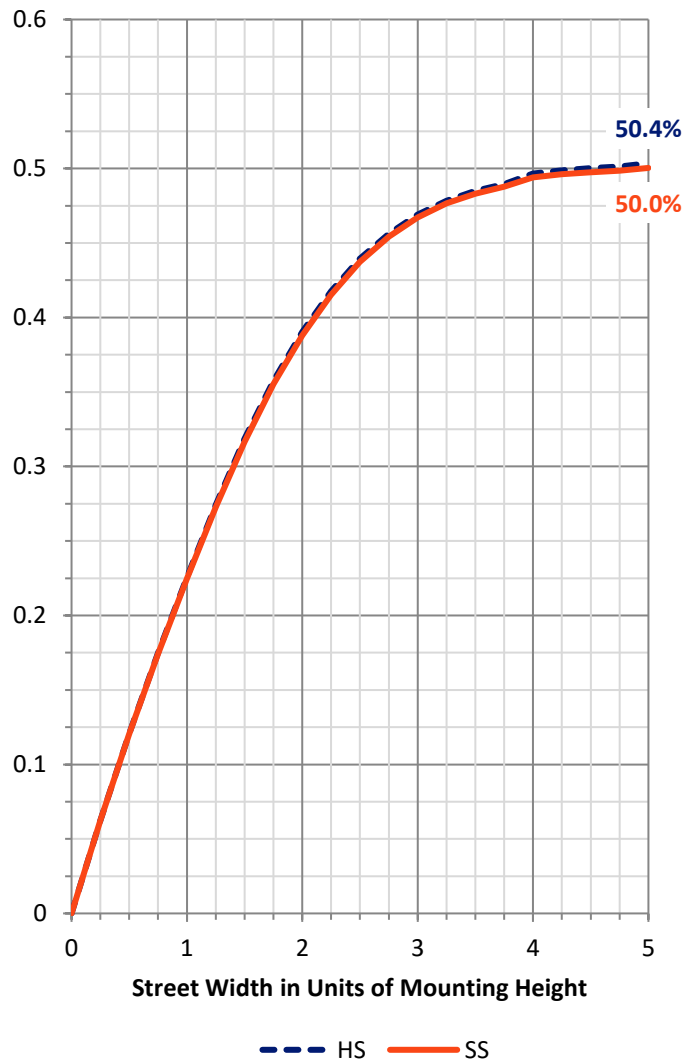
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18301.0	0.0	18301.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18301.0	0.0	18301.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36602.0	0.0	36602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	0.8
10°-20°	912.0	2.5
20°-30°	1517.7	4.1
30°-40°	2295.1	6.3
40°-50°	3814.0	10.4
50°-60°	7196.9	19.7
60°-70°	12152.2	33.2
70°-80°	7985.3	21.8
80°-90°	418.4	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°	36602.0	100.0
0°-180°	36602.0	100.0

Coefficient of Utilization

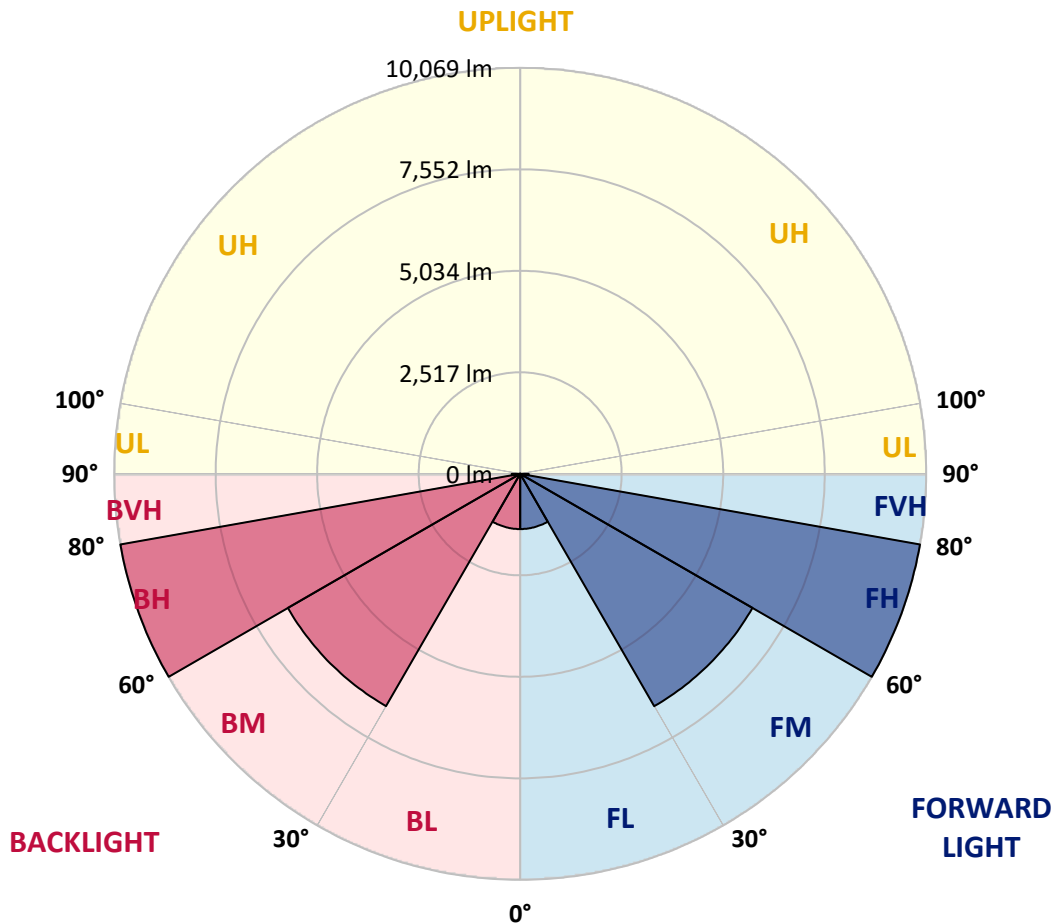


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.1	3.7			
FM (30°-60°)	6653.0	18.2			
FH (60°-80°)	10068.7	27.5			G4/12000
FVH (80°-90°)	209.2	0.6			G2/225
BL (0°-30°)	1370.1	3.7	B3/2500		
BM (30°-60°)	6653.0	18.2	B4/8500		
BH (60°-80°)	10068.7	27.5	B5		G4/12000
BVH (80°-90°)	209.2	0.6			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°	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8
2.5°	3317.9	3327.4	3323.6	3316.0	3316.0	3310.3	3316.0	3319.8	3325.5	3329.3
5°	3274.2	3281.8	3279.9	3274.2	3276.1	3270.4	3274.2	3279.9	3283.7	3285.6
7.5°	3236.1	3243.7	3239.9	3230.4	3230.4	3224.7	3226.6	3232.3	3238.0	3239.9
10°	3226.6	3234.2	3222.8	3207.6	3201.9	3194.3	3196.2	3201.9	3213.3	3219.0
12.5°	3230.4	3236.1	3224.7	3201.9	3196.2	3188.5	3188.5	3194.3	3209.5	3217.1
15°	3241.8	3247.5	3230.4	3205.7	3200.0	3194.3	3192.3	3200.0	3217.1	3230.4
17.5°	3262.7	3268.4	3241.8	3207.6	3200.0	3201.9	3200.0	3205.7	3232.3	3257.0
20°	3281.8	3285.6	3249.4	3207.6	3200.0	3201.9	3200.0	3211.4	3245.6	3279.9
22.5°	3287.5	3291.3	3257.0	3220.9	3215.2	3217.1	3215.2	3226.6	3258.9	3293.2
25°	3289.4	3295.1	3268.4	3239.9	3249.4	3253.2	3249.4	3251.3	3276.1	3306.5
27.5°	3317.9	3325.5	3300.8	3276.1	3281.8	3279.9	3285.6	3291.3	3310.3	3340.7
30°	3376.9	3382.6	3361.7	3336.9	3333.1	3319.8	3336.9	3356.0	3376.9	3403.5
32.5°	3473.9	3485.3	3458.7	3432.1	3414.9	3407.3	3420.6	3453.0	3481.5	3510.1
35°	3635.6	3643.2	3618.5	3569.0	3538.6	3538.6	3550.0	3591.9	3637.5	3673.7
37.5°	3863.9	3873.4	3829.7	3770.7	3725.0	3725.0	3740.3	3784.0	3852.5	3903.9
40°	4141.7	4155.0	4099.8	4038.9	3995.2	3987.6	4006.6	4056.1	4120.8	4185.4
42.5°	4476.5	4491.7	4419.4	4366.2	4331.9	4331.9	4341.4	4387.1	4446.1	4526.0
45°	4904.6	4931.2	4832.3	4779.0	4746.7	4754.3	4760.0	4799.9	4853.2	4944.5
47.5°	5414.4	5441.1	5336.4	5281.3	5275.6	5311.7	5288.9	5317.4	5345.9	5450.6
50°	5992.8	6038.4	5966.2	5962.3	5973.8	6040.4	5987.1	6002.3	5970.0	6036.5
52.5°	6700.5	6767.1	6753.8	6776.6	6904.1	7041.1	6919.3	6866.0	6744.3	6765.2
55°	7558.5	7659.4	7678.4	7815.4	8104.5	8384.2	8125.5	7910.5	7651.7	7604.2
57.5°	8534.5	8614.4	8705.7	8985.4	9525.7	10022.2	9525.7	9050.1	8642.9	8545.9
60°	9584.7	9683.6	9771.1	10183.9	10986.8	11685.0	10971.6	10216.3	9677.9	9546.6
62.5°	10712.8	10840.3	10901.2	11359.7	12295.7	13129.0	12309.0	11393.9	10796.5	10655.7
65°	11795.3	11900.0	11968.5	12457.4	13351.6	14186.7	13412.4	12510.7	11896.2	11711.6
67.5°	12299.5	12356.6	12524.0	13077.6	14021.2	14974.4	14181.0	13136.6	12449.8	12126.4
70°	11561.3	11445.3	11848.6	12735.2	14101.1	15457.6	14283.8	12708.5	11867.6	11342.5
72.5°	8934.0	8734.3	9434.4	10950.6	13187.9	15149.4	13279.3	11036.2	9870.0	8804.6
75°	4860.8	4634.4	5600.9	7518.6	10516.9	13130.9	10758.5	7733.6	6236.3	4824.7
77.5°	1371.7	1286.1	2066.1	3637.5	6325.7	9219.4	6569.2	3717.4	2450.4	1453.5
80°	420.4	407.1	551.7	1095.8	2686.3	4415.6	2581.7	1109.1	702.0	443.3
82.5°	249.2	228.3	274.0	399.5	684.9	1386.9	665.9	416.6	334.8	224.5
85°	142.7	133.2	161.7	194.1	230.2	294.9	192.1	197.9	178.8	119.9
87.5°	59.0	53.3	62.8	60.9	53.3	68.5	51.4	60.9	72.3	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3338.8
3327.4
3285.6
3239.9
3219.0
3219.0
3232.3
3257.0
3281.8
3293.2
3304.6
3333.1
3397.8
3498.6
3660.4
3884.8
4164.5
4520.3
4940.7
5420.1
5996.6
6694.8
7530.0
8477.4
9432.5
10541.6
11620.3
12130.2
11468.1
9069.1
5138.6
1615.2
468.0
243.5
125.6
43.8
0.0

OF REPORT)