

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: P943960

Luminaire Tested: **GALN-SB8C-940-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943960
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-SB8C-940-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 44388 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

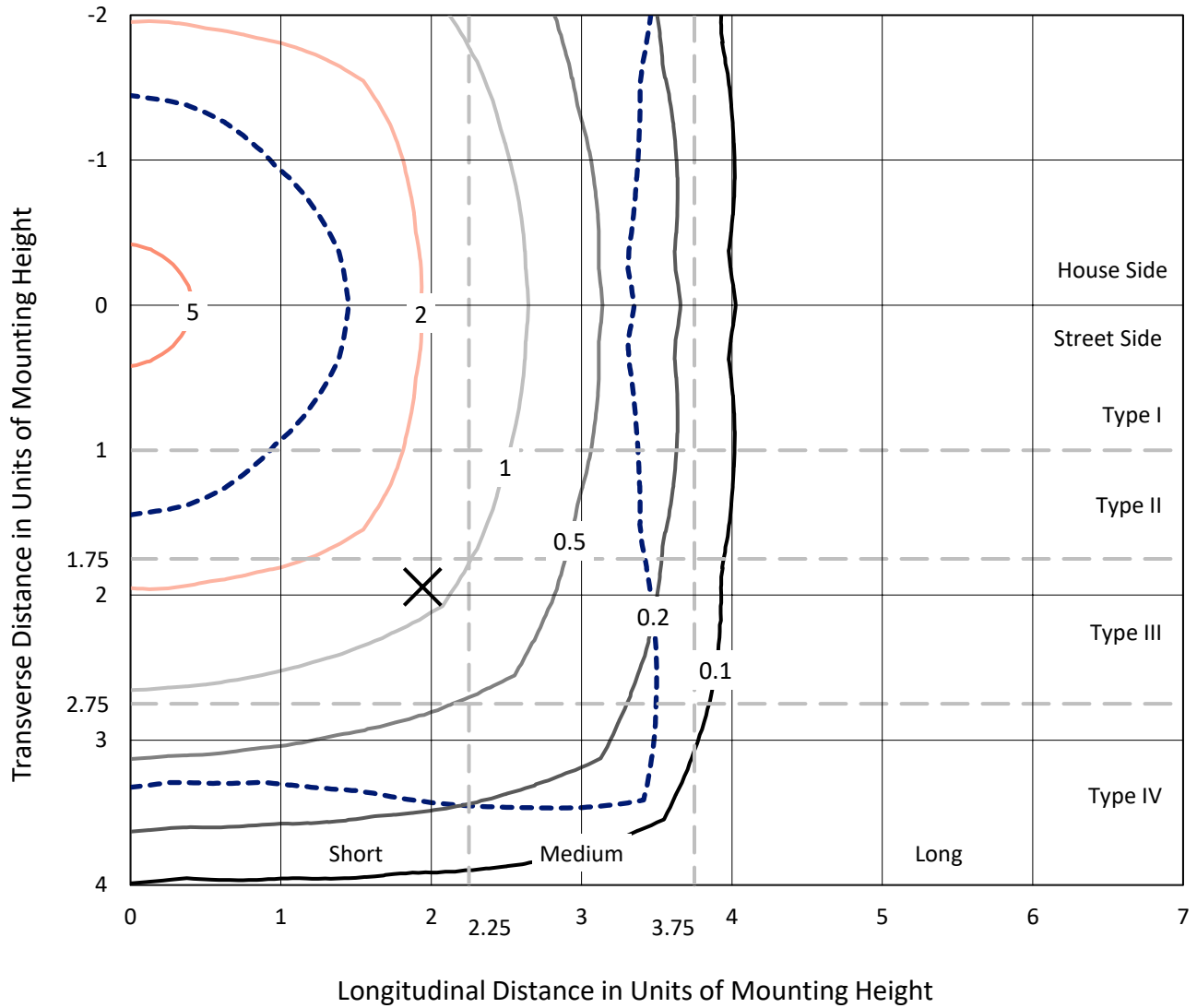
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

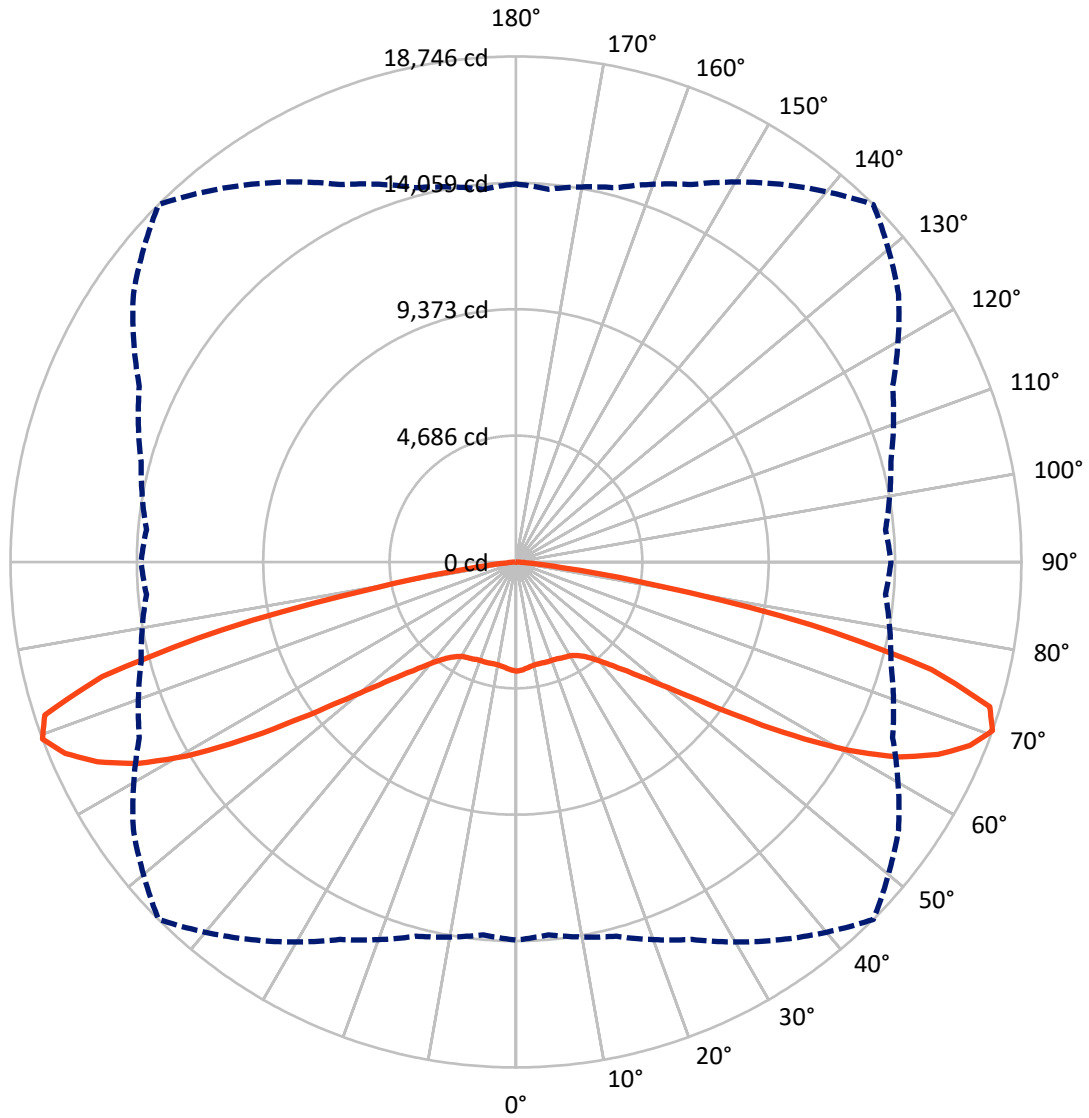
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

REPORT NUMBER: P943960
CATALOG NUMBER: GALN-SB8C-940-U-5WQ

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	22194.0	0.0	22194.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22194.0	0.0	22194.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44388.0	0.0	44388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	0.8
10°-20°	1106.0	2.5
20°-30°	1840.5	4.1
30°-40°	2783.4	6.3
40°-50°	4625.3	10.4
50°-60°	8727.8	19.7
60°-70°	14737.2	33.2
70°-80°	9683.9	21.8
80°-90°	507.3	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°	44388.0	100.0
0°-180°	44388.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943960

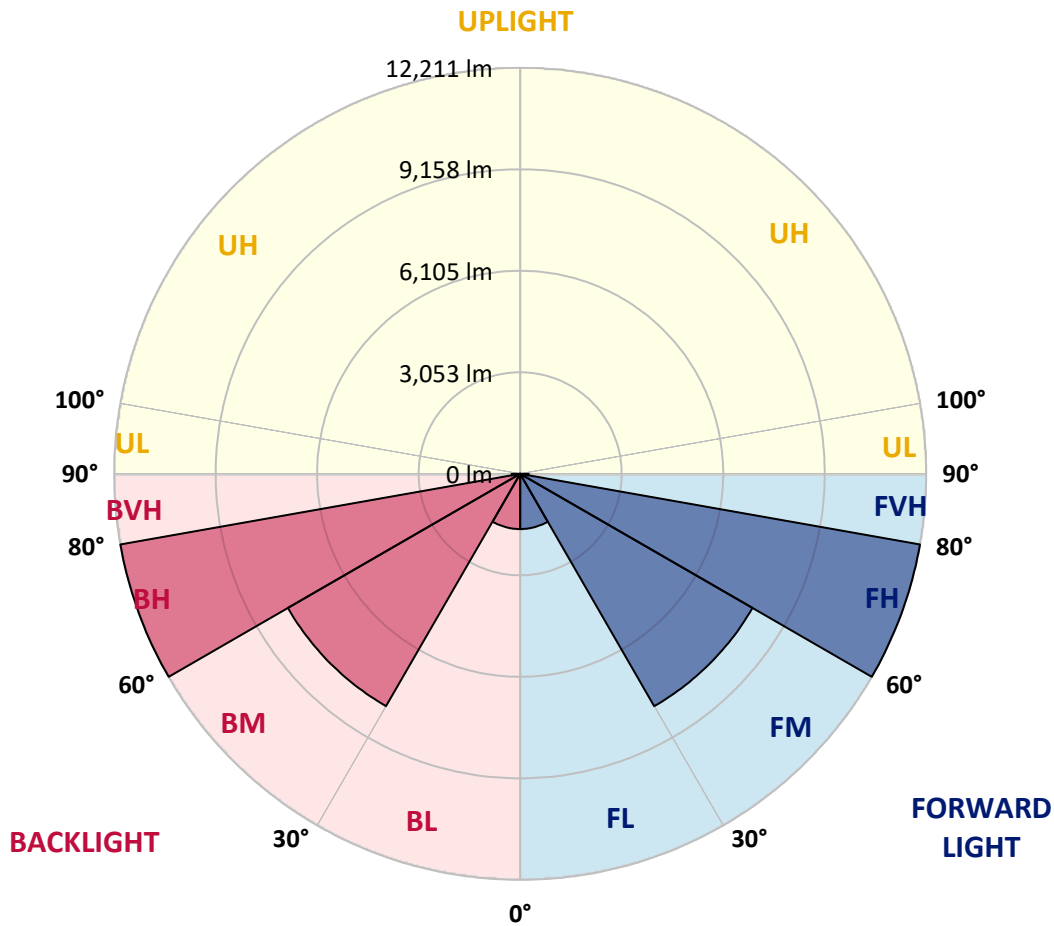
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.6	3.7			
FM (30°-60°)	8068.2	18.2			
FH (60°-80°)	12210.5	27.5			G5
FVH (80°-90°)	253.7	0.6			G3/500
BL (0°-30°)	1661.6	3.7	B3/2500		
BM (30°-60°)	8068.2	18.2	B4/8500		
BH (60°-80°)	12210.5	27.5	B5		G5
BVH (80°-90°)	253.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1
2.5°	4023.7	4035.2	4030.6	4021.4	4021.4	4014.5	4021.4	4026.0	4032.9	4037.5
5°	3970.6	3979.9	3977.6	3970.6	3972.9	3966.0	3970.6	3977.6	3982.2	3984.5
7.5°	3924.5	3933.7	3929.1	3917.6	3917.6	3910.6	3913.0	3919.9	3926.8	3929.1
10°	3913.0	3922.2	3908.3	3889.9	3883.0	3873.7	3876.0	3883.0	3896.8	3903.7
12.5°	3917.6	3924.5	3910.6	3883.0	3876.0	3866.8	3866.8	3873.7	3892.2	3901.4
15°	3931.4	3938.3	3917.6	3887.6	3880.7	3873.7	3871.4	3880.7	3901.4	3917.6
17.5°	3956.8	3963.7	3931.4	3889.9	3880.7	3883.0	3880.7	3887.6	3919.9	3949.9
20°	3979.9	3984.5	3940.6	3889.9	3880.7	3883.0	3880.7	3894.5	3936.0	3977.6
22.5°	3986.8	3991.4	3949.9	3906.0	3899.1	3901.4	3899.1	3913.0	3952.2	3993.7
25°	3989.1	3996.0	3963.7	3929.1	3940.6	3945.3	3940.6	3942.9	3972.9	4009.9
27.5°	4023.7	4032.9	4002.9	3972.9	3979.9	3977.6	3984.5	3991.4	4014.5	4051.4
30°	4095.2	4102.1	4076.8	4046.8	4042.2	4026.0	4046.8	4069.8	4095.2	4127.5
32.5°	4212.9	4226.7	4194.4	4162.1	4141.4	4132.1	4148.3	4187.5	4222.1	4256.7
35°	4409.0	4418.2	4388.2	4328.2	4291.3	4291.3	4305.2	4355.9	4411.3	4455.1
37.5°	4685.9	4697.4	4644.3	4572.8	4517.4	4517.4	4535.9	4589.0	4672.0	4734.3
40°	5022.7	5038.9	4971.9	4898.1	4845.1	4835.8	4858.9	4918.9	4997.3	5075.8
42.5°	5428.8	5447.2	5359.6	5294.9	5253.4	5253.4	5265.0	5320.3	5391.9	5488.8
45°	5947.9	5980.2	5860.2	5795.6	5756.4	5765.6	5772.5	5821.0	5885.6	5996.3
47.5°	6566.2	6598.5	6471.6	6404.7	6397.8	6441.6	6413.9	6448.5	6483.1	6610.0
50°	7267.6	7323.0	7235.3	7230.7	7244.5	7325.3	7260.7	7279.1	7239.9	7320.6
52.5°	8125.8	8206.6	8190.4	8218.1	8372.7	8538.8	8391.2	8326.6	8178.9	8204.3
55°	9166.4	9288.7	9311.7	9477.8	9828.5	10167.7	9853.9	9593.2	9279.4	9221.7
57.5°	10350.0	10446.9	10557.6	10896.8	11552.0	12154.2	11552.0	10975.2	10481.5	10363.8
60°	11623.5	11743.5	11849.6	12350.3	13323.9	14170.6	13305.4	12389.5	11736.6	11577.4
62.5°	12991.7	13146.2	13220.1	13776.1	14911.2	15921.8	14927.4	13817.6	13093.2	12922.4
65°	14304.4	14431.3	14514.4	15107.3	16191.7	17204.5	16265.5	15171.9	14426.7	14202.9
67.5°	14915.8	14985.1	15188.1	15859.5	17003.8	18159.7	17197.6	15931.0	15098.1	14705.9
70°	14020.7	13879.9	14369.0	15444.2	17100.7	18745.7	17322.2	15411.9	14392.1	13755.3
72.5°	10834.5	10592.2	11441.2	13280.1	15993.3	18372.0	16104.0	13383.9	11969.6	10677.6
75°	5894.8	5620.3	6792.3	9117.9	12754.0	15924.1	13047.0	9378.6	7562.9	5851.0
77.5°	1663.5	1559.6	2505.6	4411.3	7671.3	11180.5	7966.7	4508.2	2971.6	1762.7
80°	509.9	493.7	669.1	1328.9	3257.7	5354.9	3130.8	1345.1	851.3	537.6
82.5°	302.2	276.9	332.2	484.5	830.6	1681.9	807.5	505.3	406.1	272.2
85°	173.0	161.5	196.1	235.3	279.2	357.6	233.0	239.9	216.9	145.4
87.5°	71.5	64.6	76.1	73.8	64.6	83.1	62.3	73.8	87.7	57.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4049.1
4035.2
3984.5
3929.1
3903.7
3903.7
3919.9
3949.9
3979.9
3993.7
4007.6
4042.2
4120.6
4242.9
4439.0
4711.2
5050.4
5481.8
5991.7
6573.1
7272.2
8118.9
9131.8
10280.7
11438.9
12784.0
14092.2
14710.5
13907.6
10998.3
6231.7
1958.8
567.6
295.3
152.3
53.1
0.0

OF REPORT)