

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: P950059

Luminaire Tested: **GALN-SB4C-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950059
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-SB4C-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30066 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

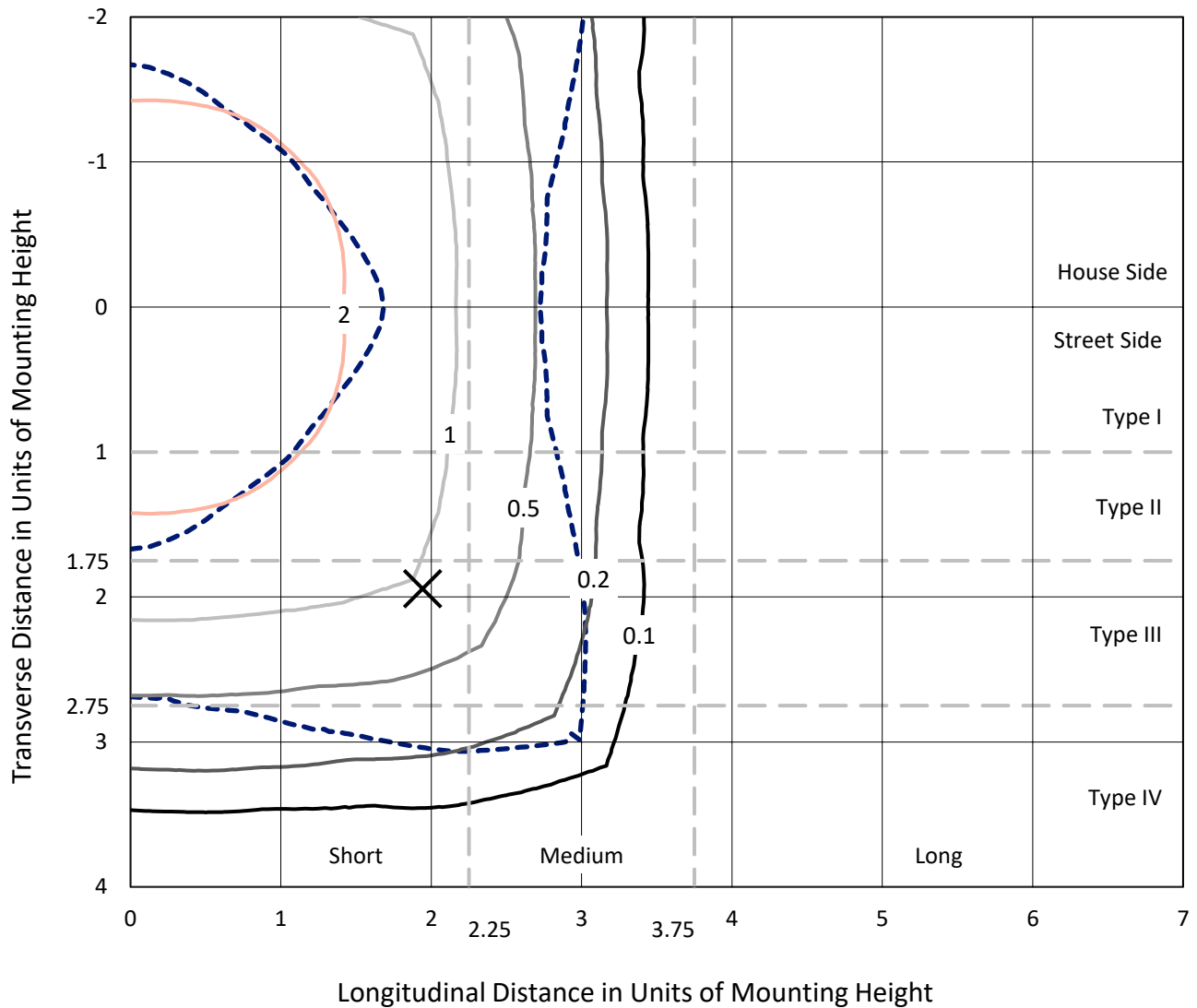
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950059
 CATALOG NUMBER: GALN-SB4C-850-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

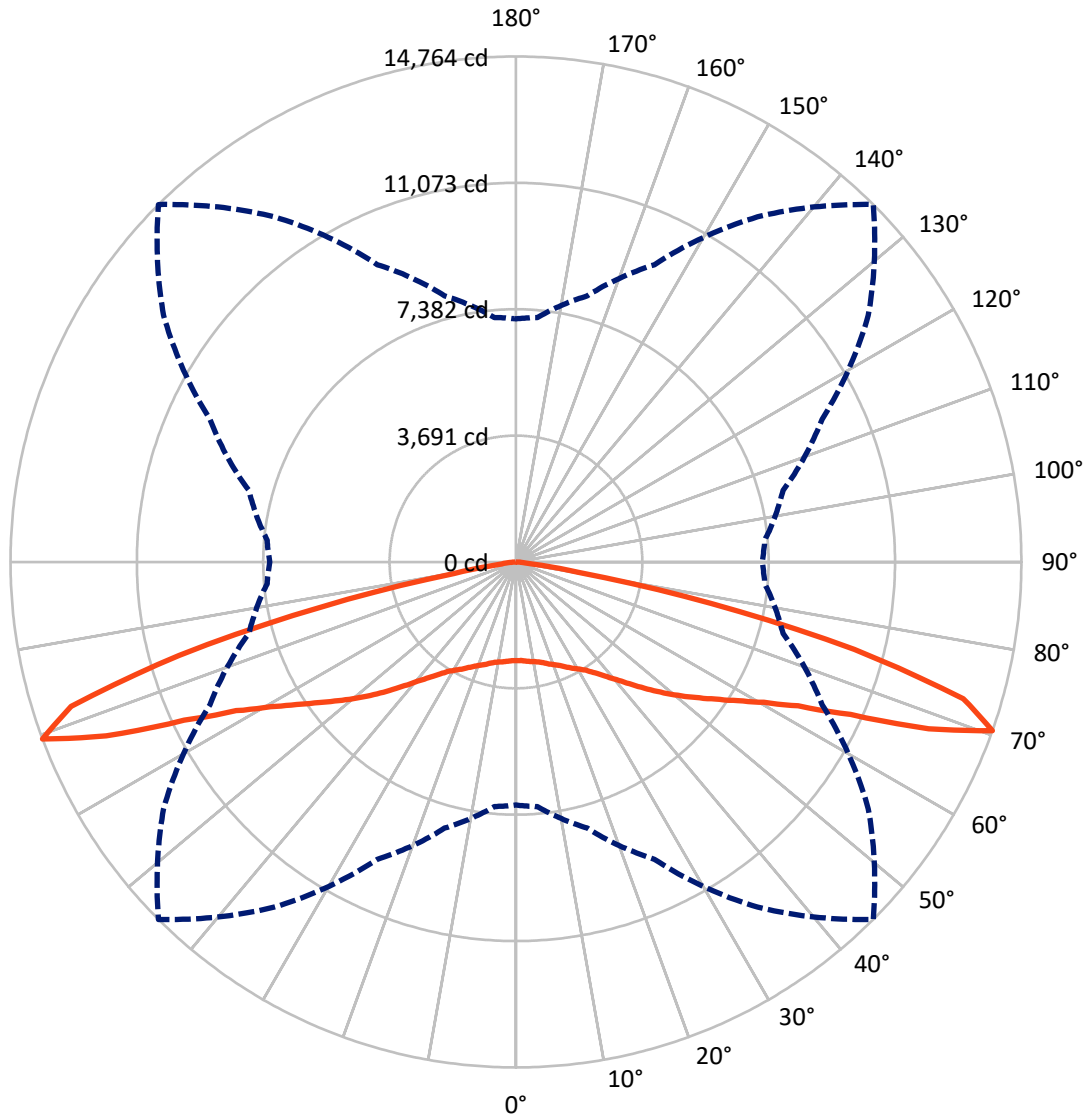
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P950059
CATALOG NUMBER: GALN-SB4C-850-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P950059
 CATALOG NUMBER: GALN-SB4C-850-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15033.0	0.0	15033.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15033.0	0.0	15033.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30066.0	0.0	30066.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	0.9
10°-20°	867.6	2.9
20°-30°	1550.5	5.2
30°-40°	2513.4	8.4
40°-50°	4093.9	13.6
50°-60°	6241.8	20.8
60°-70°	9285.7	30.9
70°-80°	5061.0	16.8
80°-90°	172.3	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°	30066.0	100.0
0°-180°	30066.0	100.0



REPORT NUMBER: P950059

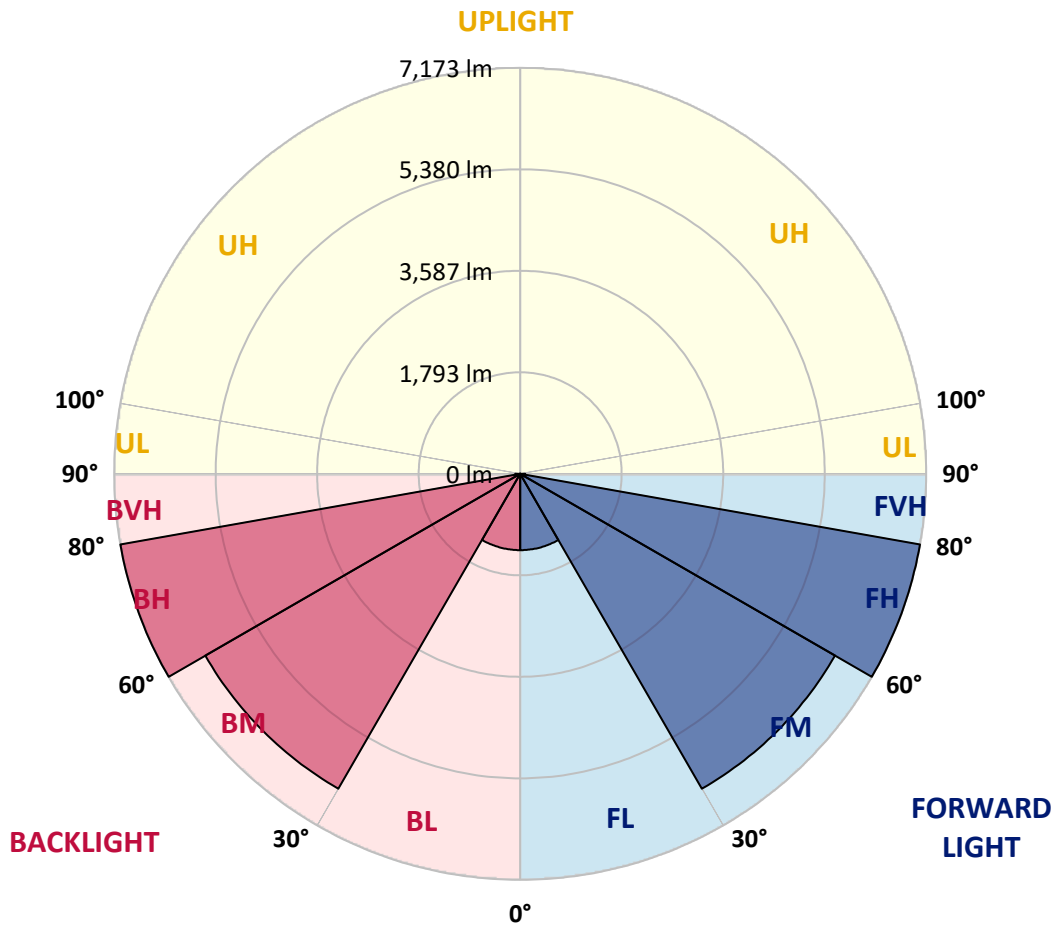
CATALOG NUMBER: GALN-SB4C-850-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.0	4.5			
FM (30°-60°)	6424.5	21.4			
FH (60°-80°)	7173.4	23.9			G3/7500
FVH (80°-90°)	86.2	0.3			G1/100
BL (0°-30°)	1349.0	4.5	B3/2500		
BM (30°-60°)	6424.5	21.4	B4/8500		
BH (60°-80°)	7173.4	23.9	B5		G3/7500
BVH (80°-90°)	86.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P950059

CATALOG NUMBER: GALN-SB4C-850-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2880.0	2880.0	2880.0	2880.0	2880.0	2880.0	2880.0	2880.0	2880.0	2880.0
2.5°	2893.6	2896.6	2890.6	2887.6	2884.5	2880.0	2881.5	2889.1	2895.1	2893.6
5°	2917.7	2920.8	2916.2	2914.7	2908.7	2907.2	2907.2	2914.7	2919.3	2916.2
7.5°	2944.9	2949.4	2941.9	2940.4	2937.4	2934.4	2932.8	2940.4	2944.9	2944.9
10°	2970.6	2975.1	2969.1	2964.5	2961.5	2961.5	2958.5	2964.5	2972.1	2970.6
12.5°	2997.7	3000.8	2994.7	2991.7	2991.7	2996.2	2991.7	2994.7	3000.8	2997.7
15°	3031.0	3032.5	3031.0	3035.5	3043.0	3058.1	3044.5	3041.5	3044.5	3037.0
17.5°	3076.2	3079.3	3085.3	3095.9	3106.4	3133.6	3109.4	3101.9	3101.9	3086.8
20°	3132.1	3136.6	3145.7	3163.8	3177.4	3203.0	3178.9	3168.3	3163.8	3144.2
22.5°	3191.0	3198.5	3212.1	3236.2	3260.4	3284.5	3260.4	3242.3	3228.7	3203.0
25°	3258.9	3267.9	3289.1	3328.3	3361.5	3396.2	3367.6	3331.3	3304.2	3267.9
27.5°	3355.5	3366.1	3391.7	3440.0	3482.3	3512.5	3485.3	3438.5	3400.8	3357.0
30°	3491.3	3501.9	3532.1	3583.4	3612.1	3631.7	3613.6	3577.4	3532.1	3482.3
32.5°	3666.4	3680.0	3713.2	3761.5	3767.6	3770.6	3764.5	3746.4	3713.2	3652.8
35°	3888.3	3903.4	3941.1	3980.4	3974.4	3980.4	3971.3	3965.3	3941.1	3871.7
37.5°	4160.0	4178.1	4217.4	4247.6	4232.5	4224.9	4226.4	4227.9	4214.4	4137.4
40°	4475.5	4499.6	4528.3	4560.0	4534.4	4511.7	4526.8	4538.9	4526.8	4448.3
42.5°	4800.0	4834.7	4864.9	4910.2	4889.1	4860.4	4881.5	4895.1	4869.5	4784.9
45°	5160.8	5194.0	5233.2	5301.2	5286.1	5255.9	5286.1	5289.1	5245.3	5145.7
47.5°	5533.6	5568.3	5627.2	5717.8	5711.7	5678.5	5717.8	5696.6	5640.8	5521.5
50°	5886.8	5935.1	6025.7	6152.5	6164.6	6123.8	6176.6	6135.9	6042.3	5892.9
52.5°	6218.9	6270.2	6413.6	6585.7	6629.5	6576.6	6647.6	6576.6	6436.3	6244.6
55°	6567.6	6624.9	6795.5	7020.4	7108.0	7068.7	7135.1	7028.0	6828.7	6596.3
57.5°	6978.1	7012.9	7216.6	7483.8	7631.7	7640.8	7671.0	7489.8	7248.3	6984.2
60°	7423.4	7471.7	7693.6	8013.6	8247.6	8323.1	8291.4	8022.7	7741.9	7438.5
62.5°	7994.0	8046.8	8312.5	8695.9	9065.7	9252.9	9129.1	8739.7	8392.5	8028.7
65°	8466.4	8525.3	9005.3	9689.1	10362.3	10738.2	10427.2	9710.2	9085.3	8572.1
67.5°	8123.8	8196.3	8949.5	10205.3	11879.3	13000.8	11936.7	10359.3	9135.1	8439.3
70°	7100.4	7168.3	8046.8	9581.9	12306.5	14763.8	12563.1	9864.2	8075.5	7296.6
72.5°	4714.0	4932.9	5821.9	7663.4	10988.7	13661.9	11097.4	7508.0	5400.8	4703.4
75°	1563.8	1738.9	2345.7	3972.8	7360.0	10217.4	7006.8	3515.5	1858.1	1337.4
77.5°	394.0	454.3	626.4	1136.6	2935.9	5817.4	2643.0	928.3	505.7	353.2
80°	191.7	211.3	301.9	378.9	735.1	1849.1	689.8	356.2	238.5	184.2
82.5°	105.7	107.2	170.6	214.3	273.2	478.5	283.8	208.3	137.4	111.7
85°	64.9	63.4	90.6	114.7	114.7	170.6	135.8	114.7	78.5	69.4
87.5°	25.7	25.7	33.2	36.2	31.7	43.8	34.7	37.7	30.2	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2880.0
2895.1
2917.7
2944.9
2970.6
2996.2
3037.0
3086.8
3144.2
3201.5
3266.4
3355.5
3482.3
3654.4
3871.7
4137.4
4448.3
4791.0
5156.2
5514.0
5889.8
6226.4
6564.6
6948.0
7390.2
7965.3
8487.6
8335.1
7192.5
4551.0
1264.9
315.5
169.1
111.7
72.5
30.2
0.0

OF REPORT)