

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: P955772

Luminaire Tested: **GALN-SB8C-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60699 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

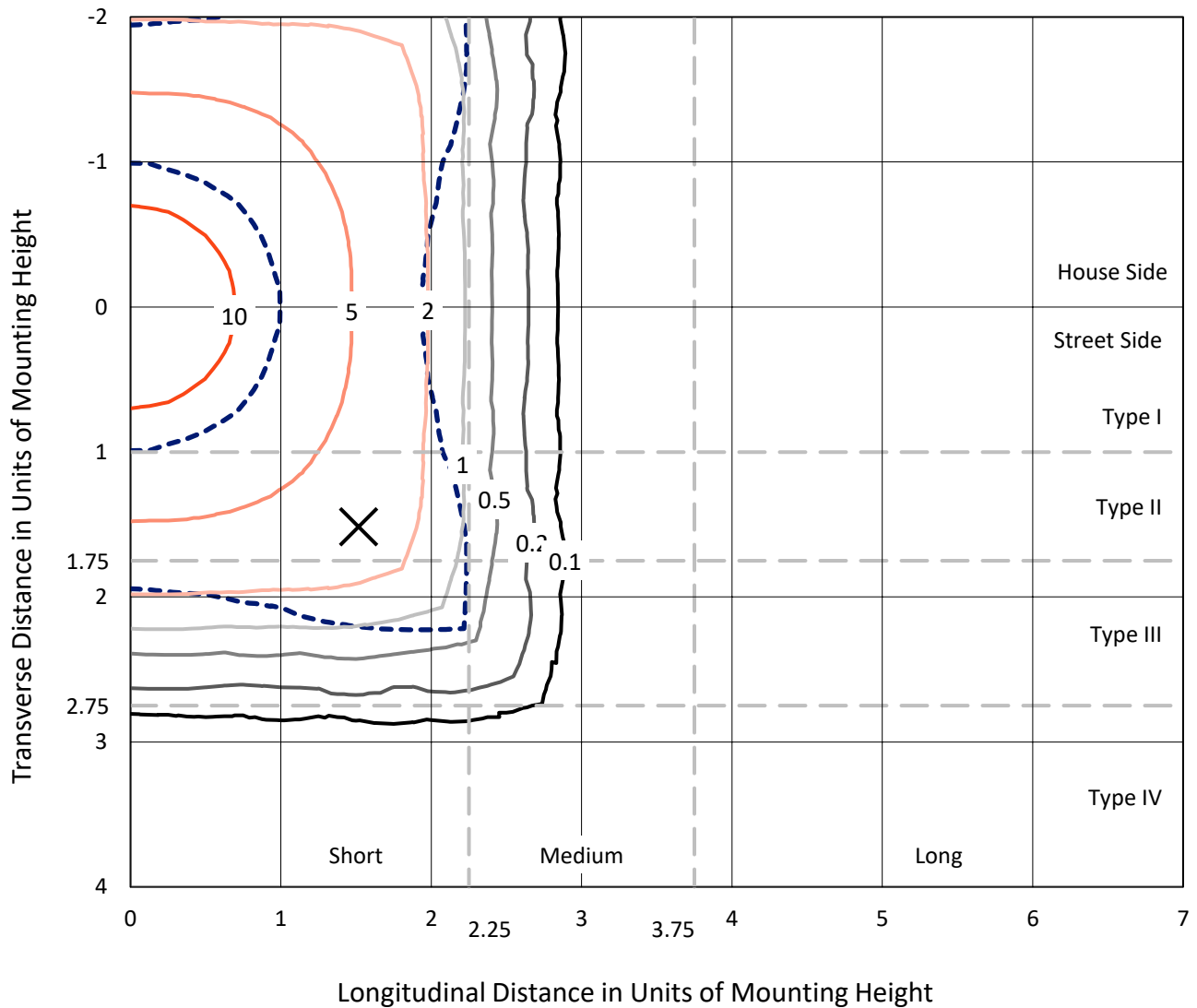
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

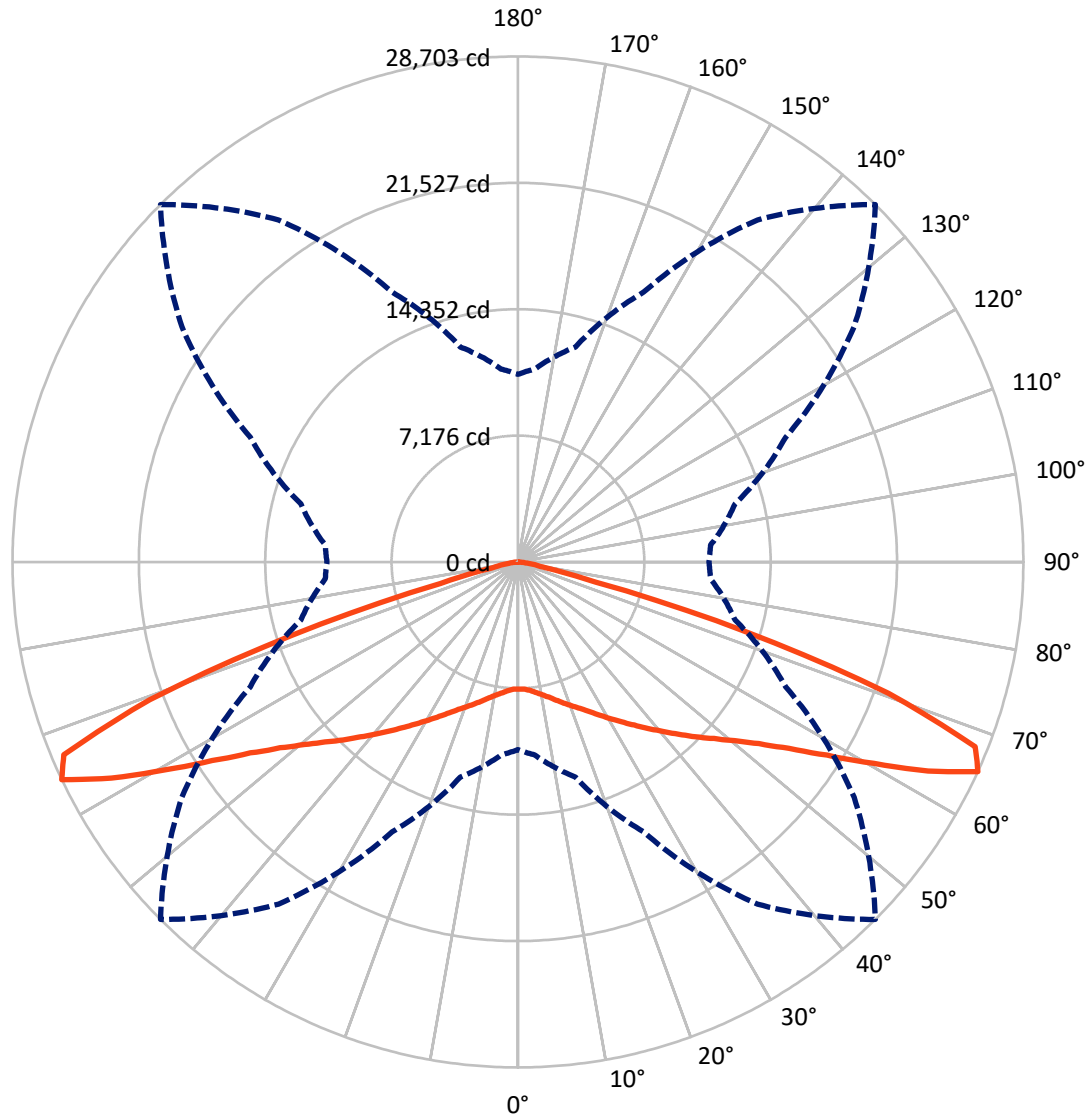
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30349.5	0.0	30349.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30349.5	0.0	30349.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	60699.0	0.0	60699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.9	1.2
10°-20°	2326.3	3.8
20°-30°	4392.3	7.2
30°-40°	7192.3	11.8
40°-50°	11151.7	18.4
50°-60°	16473.4	27.1
60°-70°	15681.2	25.8
70°-80°	2530.4	4.2
80°-90°	238.5	0.4
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°	60699.0	100.0
0°-180°	60699.0	100.0

Coefficient of Utilization



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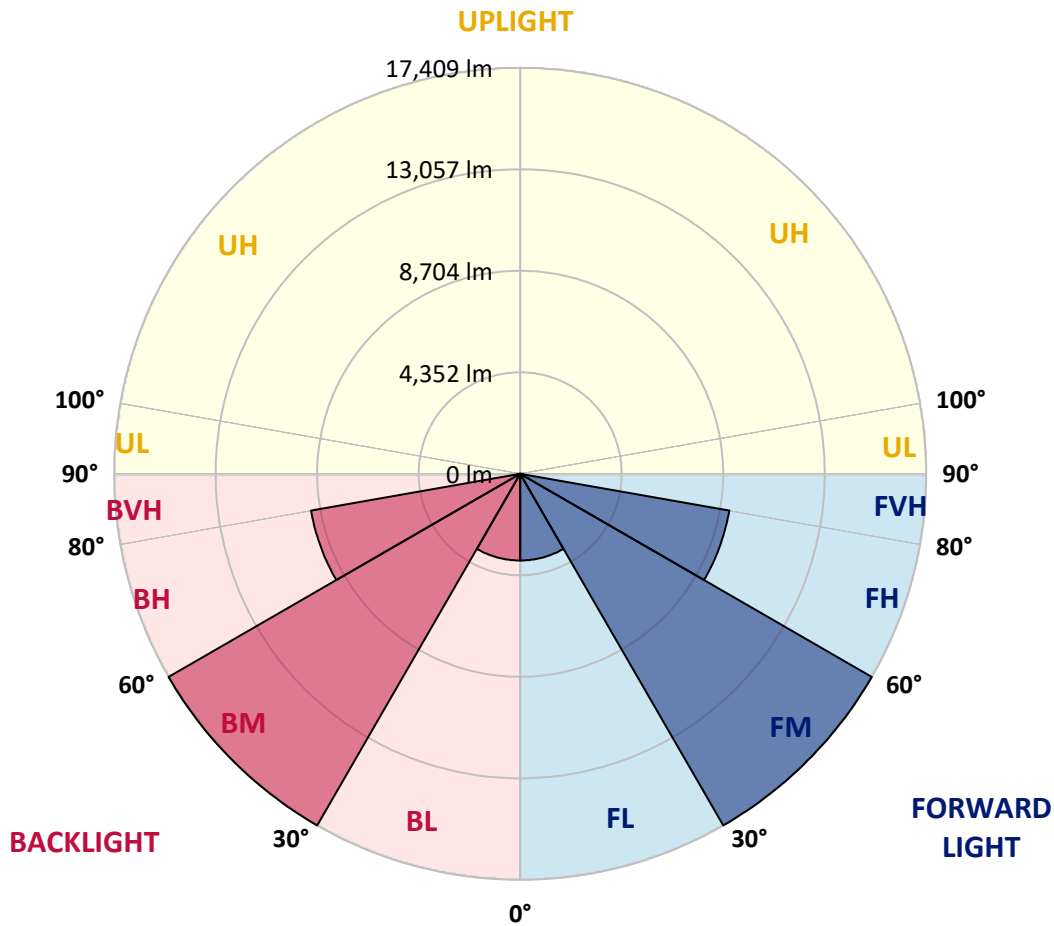
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3715.8	6.1			
FM (30°-60°)	17408.7	28.7			
FH (60°-80°)	9105.8	15.0			G4/12000
FVH (80°-90°)	119.3	0.2			G2/225
BL (0°-30°)	3715.8	6.1	B4/5000		
BM (30°-60°)	17408.7	28.7	B5		
BH (60°-80°)	9105.8	15.0	B5		G4/12000
BVH (80°-90°)	119.3	0.2			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°	7223.8	7223.8	7223.8	7223.8	7223.8	7223.8	7223.8	7223.8	7223.8	7223.8
2.5°	7272.5	7248.2	7266.4	7251.2	7239.0	7226.8	7232.9	7254.2	7263.4	7266.4
5°	7370.0	7348.7	7357.8	7357.8	7336.5	7330.4	7333.4	7348.7	7366.9	7366.9
7.5°	7528.3	7507.0	7528.3	7516.2	7497.9	7491.8	7488.7	7500.9	7528.3	7528.3
10°	7720.2	7695.8	7708.0	7701.9	7680.6	7671.5	7668.4	7686.7	7711.1	7708.0
12.5°	7930.3	7902.9	7918.1	7899.9	7893.8	7884.6	7884.6	7881.6	7896.8	7884.6
15°	8164.8	8146.6	8152.6	8140.5	8149.6	8143.5	8119.1	8107.0	8113.1	8094.8
17.5°	8442.0	8399.3	8420.6	8414.6	8414.6	8426.7	8387.1	8371.9	8384.1	8365.8
20°	8761.7	8719.1	8728.2	8716.1	8700.8	8713.0	8664.3	8676.5	8685.6	8673.4
22.5°	9112.0	9057.1	9054.1	9060.2	9026.7	9029.7	8996.2	9026.7	9045.0	9011.5
25°	9471.3	9413.5	9453.1	9437.8	9395.2	9404.3	9380.0	9410.4	9425.6	9383.0
27.5°	9852.0	9812.4	9849.0	9858.1	9806.3	9842.9	9806.3	9833.7	9849.0	9785.0
30°	10296.6	10257.0	10290.5	10314.9	10254.0	10311.9	10281.4	10299.7	10302.7	10226.6
32.5°	10780.9	10720.0	10805.2	10817.4	10750.4	10820.5	10780.9	10805.2	10820.5	10716.9
35°	11371.7	11295.5	11393.0	11377.8	11319.9	11377.8	11341.2	11377.8	11414.3	11289.5
37.5°	12008.2	11929.0	12032.5	12005.1	11950.3	11989.9	11968.6	11993.0	12050.8	11916.8
40°	12708.6	12611.2	12751.3	12702.5	12650.8	12644.7	12656.9	12672.1	12748.2	12599.0
42.5°	13457.8	13354.3	13564.4	13488.3	13415.2	13366.4	13406.0	13436.5	13509.6	13342.1
45°	14313.6	14194.8	14468.9	14377.5	14261.8	14161.3	14225.3	14270.9	14377.5	14176.5
47.5°	15257.7	15123.7	15416.0	15388.6	15199.8	14980.5	15126.7	15257.7	15336.8	15093.2
50°	16180.4	16076.9	16460.6	16494.1	16262.7	15955.1	16159.1	16357.1	16378.4	16058.6
52.5°	17045.3	16941.8	17499.1	17709.2	17502.2	17136.7	17352.9	17553.9	17392.5	16978.3
55°	17736.7	17651.4	18361.0	18903.1	18973.1	18671.6	18799.5	18793.4	18263.5	17627.0
57.5°	17904.2	17892.0	18787.3	19935.5	20666.4	20702.9	20450.1	19804.5	18662.5	17806.7
60°	17142.8	17218.9	18449.3	20474.5	22423.6	23233.7	22140.4	20297.9	18208.7	17021.0
62.5°	14864.8	15065.8	16548.9	19816.7	23842.8	26145.1	23495.6	19548.7	16344.9	14794.8
65°	10653.0	11003.2	12641.6	16911.3	23714.9	28703.3	23300.7	16774.3	12763.4	10975.8
67.5°	4833.1	5189.4	6581.2	11578.8	20614.6	28008.9	20565.9	11700.6	6910.1	5207.7
70°	1751.1	1812.0	2259.7	4635.2	13174.6	22317.0	13738.0	4668.7	2402.9	1930.8
72.5°	1059.8	1069.0	1163.4	1659.8	4577.3	13549.2	4772.2	1714.6	1187.7	1053.7
75°	673.0	667.0	828.4	1014.1	1623.2	4571.2	1702.4	1014.1	825.3	752.2
77.5°	484.2	499.5	593.9	758.3	1023.3	1550.1	1005.0	724.8	593.9	487.3
80°	362.4	371.5	432.5	590.8	718.7	965.4	639.5	536.0	447.7	304.5
82.5°	261.9	261.9	283.2	429.4	438.5	520.8	347.2	377.6	295.4	216.2
85°	155.3	152.3	176.6	255.8	228.4	191.9	158.4	231.5	185.8	134.0
87.5°	54.8	57.9	54.8	73.1	60.9	51.8	48.7	64.0	51.8	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7223.8
7266.4
7366.9
7519.2
7701.9
7890.7
8097.8
8381.1
8700.8
9045.0
9431.7
9833.7
10272.3
10787.0
11365.6
11999.0
12647.7
13430.4
14280.1
15175.4
16098.2
16990.5
17648.3
17751.9
16880.9
14703.4
10844.8
5131.6
1906.4
1072.0
758.3
496.4
313.7
216.2
131.0
42.6
0.0

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