

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: P944020

Luminaire Tested: **GALN-SB8D-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944020
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-SB8D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 88057 lumens
Efficiency: N/A
Efficacy: 150.6 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

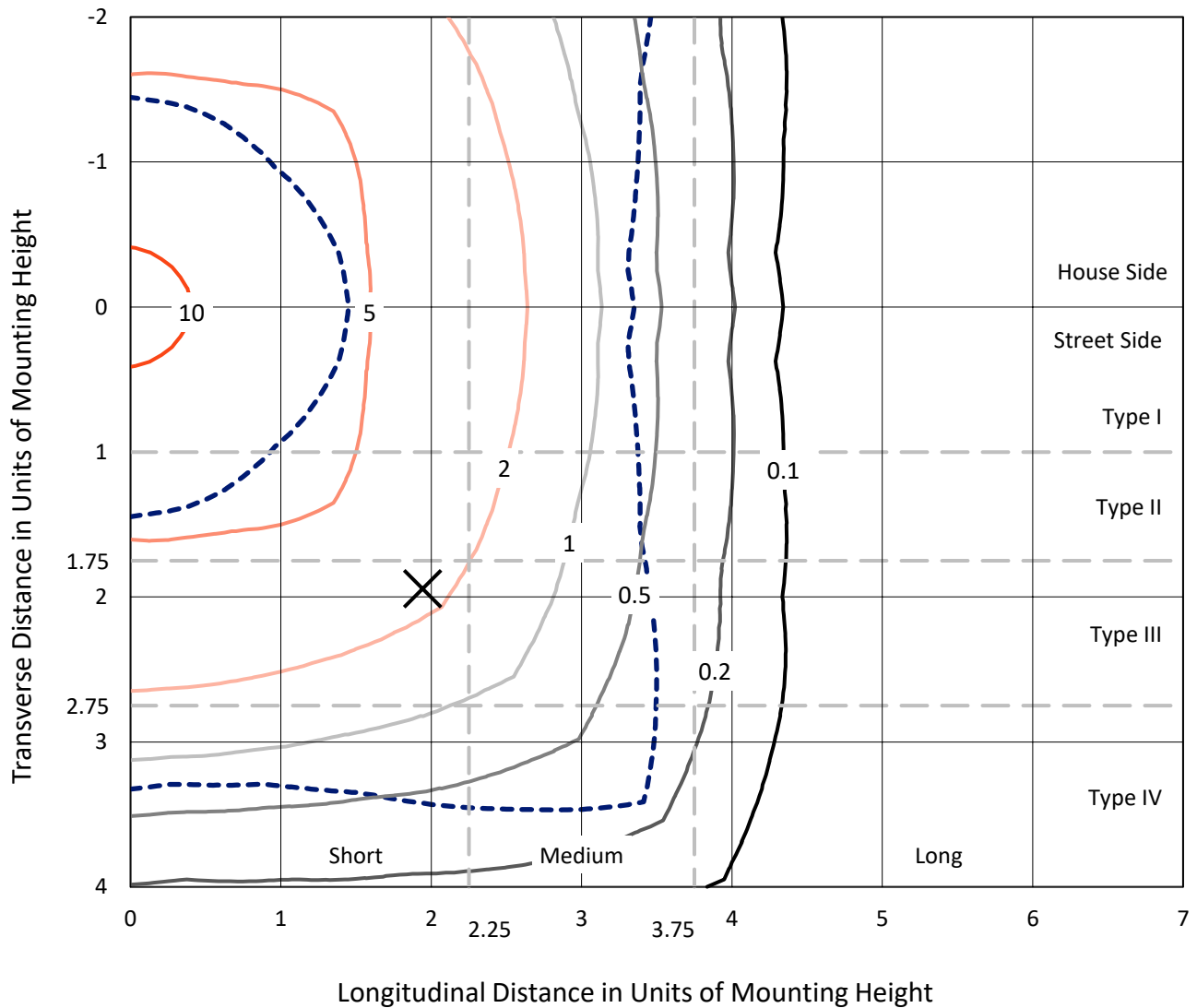
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944020
 CATALOG NUMBER: GALN-SB8D-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

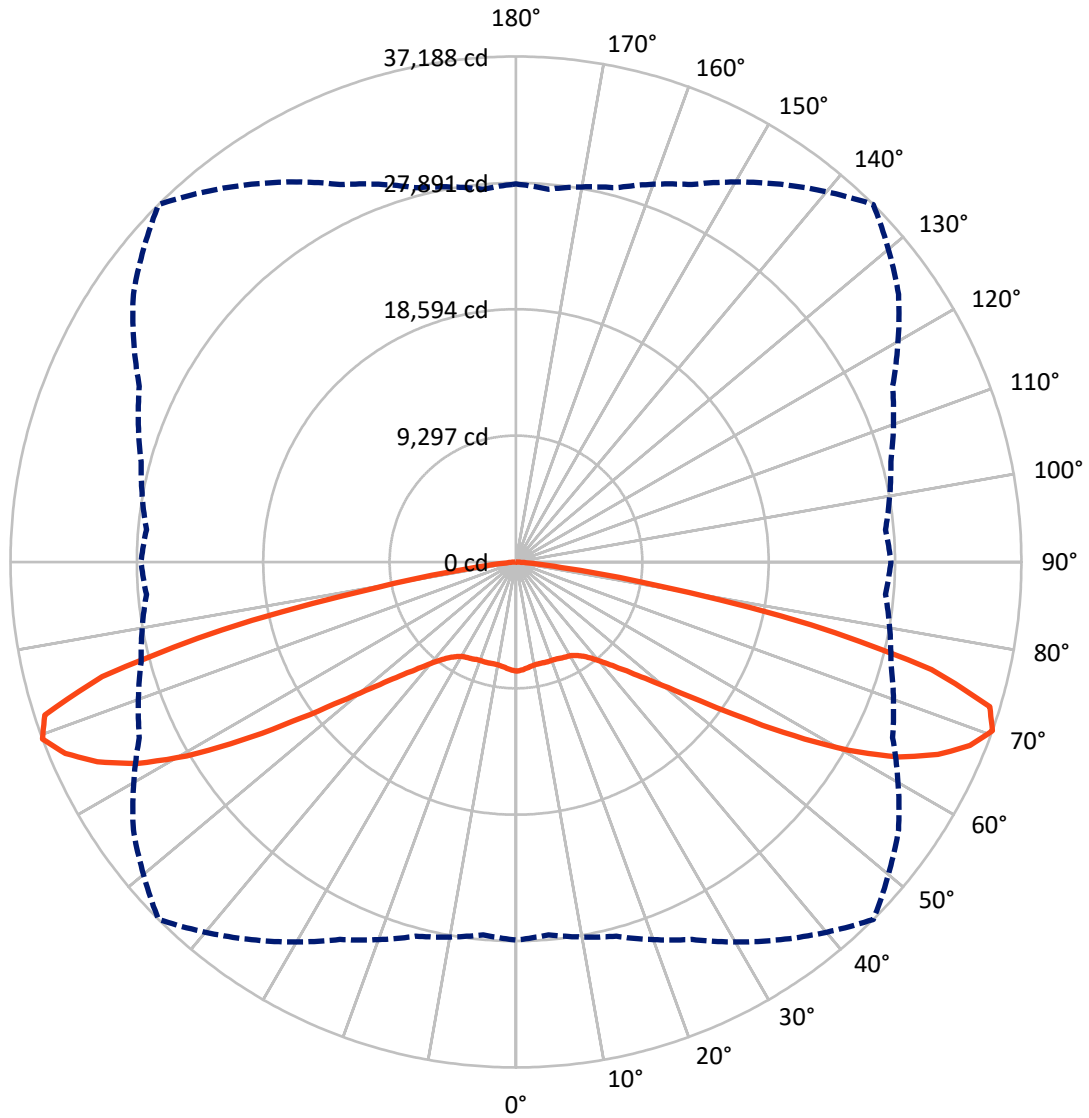
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type V - Short - N/A

REPORT NUMBER: P944020
CATALOG NUMBER: GALN-SB8D-740-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P944020

CATALOG NUMBER: GALN-SB8D-740-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	44028.5	0.0	44028.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	44028.5	0.0	44028.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	88057.0	0.0	88057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.2	0.8
10°-20°	2194.0	2.5
20°-30°	3651.2	4.1
30°-40°	5521.7	6.3
40°-50°	9175.7	10.4
50°-60°	17314.2	19.7
60°-70°	29235.7	33.2
70°-80°	19210.9	21.8
80°-90°	1006.5	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°	88057.0	100.0
0°-180°	88057.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944020

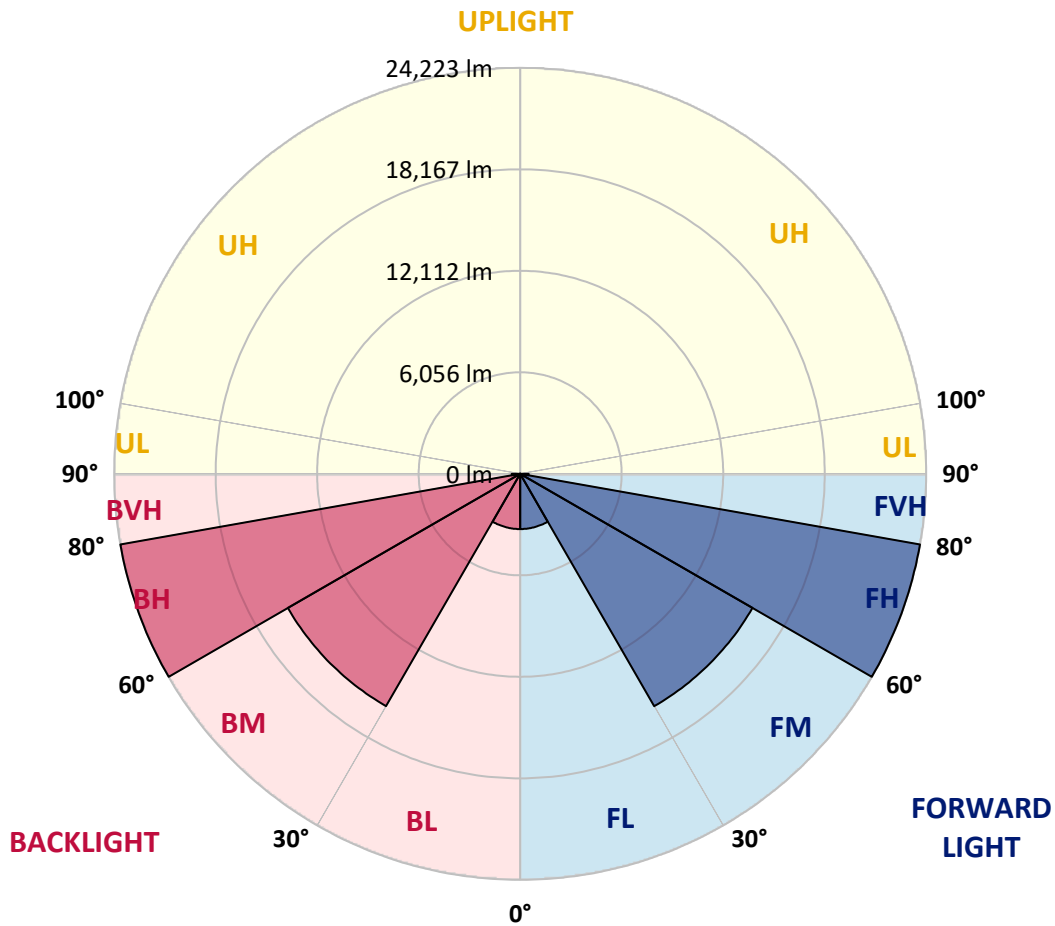
CATALOG NUMBER: GALN-SB8D-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3296.2	3.7			
FM (30°-60°)	16005.8	18.2			
FH (60°-80°)	24223.3	27.5			G5
FVH (80°-90°)	503.2	0.6			G4/750
BL (0°-30°)	3296.2	3.7	B4/5000		
BM (30°-60°)	16005.8	18.2	B5		
BH (60°-80°)	24223.3	27.5	B5		G5
BVH (80°-90°)	503.2	0.6			G4/750
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



REPORT NUMBER: P944020

CATALOG NUMBER: GALN-SB8D-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8032.6	8032.6	8032.6	8032.6	8032.6	8032.6	8032.6	8032.6	8032.6	8032.6
2.5°	7982.2	8005.1	7996.0	7977.6	7977.6	7963.9	7977.6	7986.8	8000.5	8009.7
5°	7877.0	7895.3	7890.7	7877.0	7881.5	7867.8	7877.0	7890.7	7899.8	7904.4
7.5°	7785.4	7803.7	7794.6	7771.7	7771.7	7758.0	7762.5	7776.3	7790.0	7794.6
10°	7762.5	7780.8	7753.4	7716.8	7703.0	7684.7	7689.3	7703.0	7730.5	7744.2
12.5°	7771.7	7785.4	7758.0	7703.0	7689.3	7671.0	7671.0	7684.7	7721.3	7739.6
15°	7799.1	7812.9	7771.7	7712.2	7698.5	7684.7	7680.1	7698.5	7739.6	7771.7
17.5°	7849.5	7863.2	7799.1	7716.8	7698.5	7703.0	7698.5	7712.2	7776.3	7835.8
20°	7895.3	7904.4	7817.5	7716.8	7698.5	7703.0	7698.5	7725.9	7808.3	7890.7
22.5°	7909.0	7918.1	7835.8	7748.8	7735.1	7739.6	7735.1	7762.5	7840.3	7922.7
25°	7913.6	7927.3	7863.2	7794.6	7817.5	7826.6	7817.5	7822.0	7881.5	7954.8
27.5°	7982.2	8000.5	7941.0	7881.5	7895.3	7890.7	7904.4	7918.1	7963.9	8037.1
30°	8124.1	8137.8	8087.5	8028.0	8018.8	7986.8	8028.0	8073.8	8124.1	8188.2
32.5°	8357.5	8385.0	8320.9	8256.8	8215.6	8197.3	8229.4	8307.2	8375.8	8444.5
35°	8746.6	8764.9	8705.4	8586.4	8513.2	8513.2	8540.6	8641.3	8751.2	8838.1
37.5°	9295.8	9318.7	9213.4	9071.5	8961.7	8961.7	8998.3	9103.6	9268.4	9391.9
40°	9964.1	9996.1	9863.4	9716.9	9611.6	9593.3	9639.1	9758.1	9913.7	10069.3
42.5°	10769.6	10806.2	10632.3	10504.1	10421.7	10421.7	10444.6	10554.5	10696.4	10888.6
45°	11799.4	11863.5	11625.5	11497.3	11419.5	11437.8	11451.6	11547.7	11675.8	11895.5
47.5°	13026.0	13090.1	12838.4	12705.7	12691.9	12778.9	12724.0	12792.6	12861.3	13113.0
50°	14417.4	14527.3	14353.4	14344.2	14371.7	14531.9	14403.7	14440.3	14362.5	14522.7
52.5°	16120.1	16280.3	16248.2	16303.1	16609.8	16939.3	16646.4	16518.3	16225.3	16275.7
55°	18184.3	18426.9	18472.6	18802.2	19497.9	20170.7	19548.2	19031.0	18408.5	18294.1
57.5°	20532.3	20724.5	20944.2	21617.0	22916.9	24111.4	22916.9	21772.6	20793.1	20559.7
60°	23058.7	23296.7	23507.3	24500.5	26432.0	28111.7	26395.3	24578.3	23283.0	22967.2
62.5°	25772.9	26079.5	26226.0	27329.1	29580.9	31585.6	29613.0	27411.4	25974.3	25635.6
65°	28377.2	28628.9	28793.7	29970.0	32121.1	34130.4	32267.6	30098.1	28619.8	28175.8
67.5°	29590.1	29727.4	30130.2	31462.0	33732.2	36025.3	34116.7	31603.9	29951.7	29173.6
70°	27814.2	27535.0	28505.3	30638.2	33924.5	37187.8	34363.8	30574.1	28551.1	27287.9
72.5°	21493.4	21012.8	22697.2	26345.0	31727.5	36446.4	31947.2	26551.0	23745.3	21182.2
75°	11694.1	11149.5	13474.6	18088.2	25301.5	31590.2	25882.7	18605.4	15003.3	11607.2
77.5°	3300.0	3094.0	4970.6	8751.2	15218.4	22180.0	15804.3	8943.4	5895.1	3496.8
80°	1011.5	979.5	1327.3	2636.3	6462.7	10623.1	6210.9	2668.4	1688.9	1066.4
82.5°	599.6	549.2	659.1	961.2	1647.7	3336.6	1601.9	1002.4	805.5	540.1
85°	343.3	320.4	389.0	466.9	553.8	709.4	462.3	476.0	430.2	288.3
87.5°	141.9	128.2	151.0	146.5	128.2	164.8	123.6	146.5	173.9	114.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8032.6
8005.1
7904.4
7794.6
7744.2
7744.2
7776.3
7835.8
7895.3
7922.7
7950.2
8018.8
8174.5
8417.0
8806.1
9346.2
10019.0
10874.9
11886.4
13039.8
14426.6
16106.3
18115.6
20395.0
22692.6
25361.0
27956.1
29182.7
27589.9
21818.4
12362.4
3885.8
1125.9
585.9
302.1
105.3
0.0

OF REPORT)