

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: P943340

Luminaire Tested: **GALN-SB7D-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943340
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-SB7D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 77445 lumens
Efficiency: N/A
Efficacy: 151.0 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

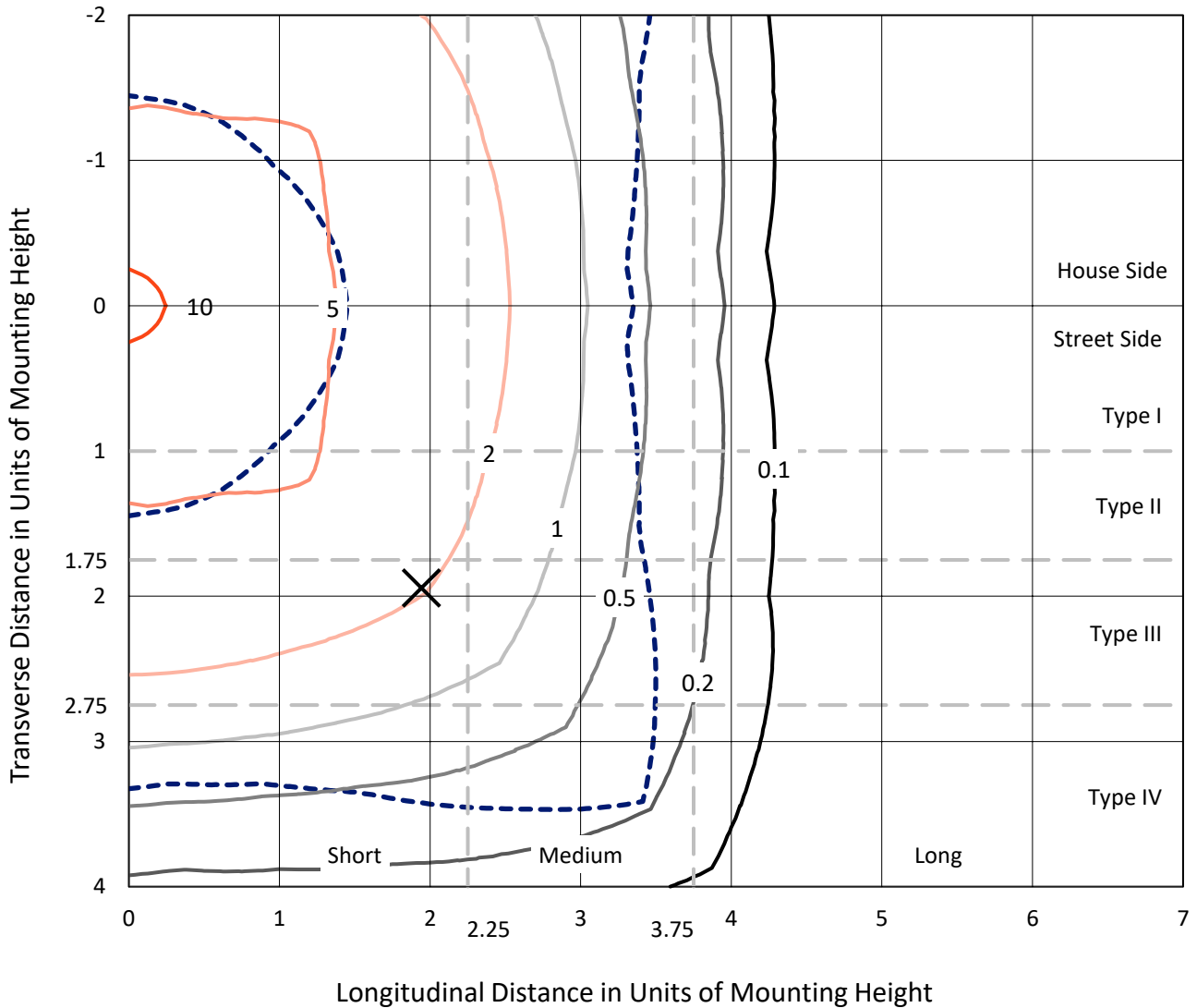
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

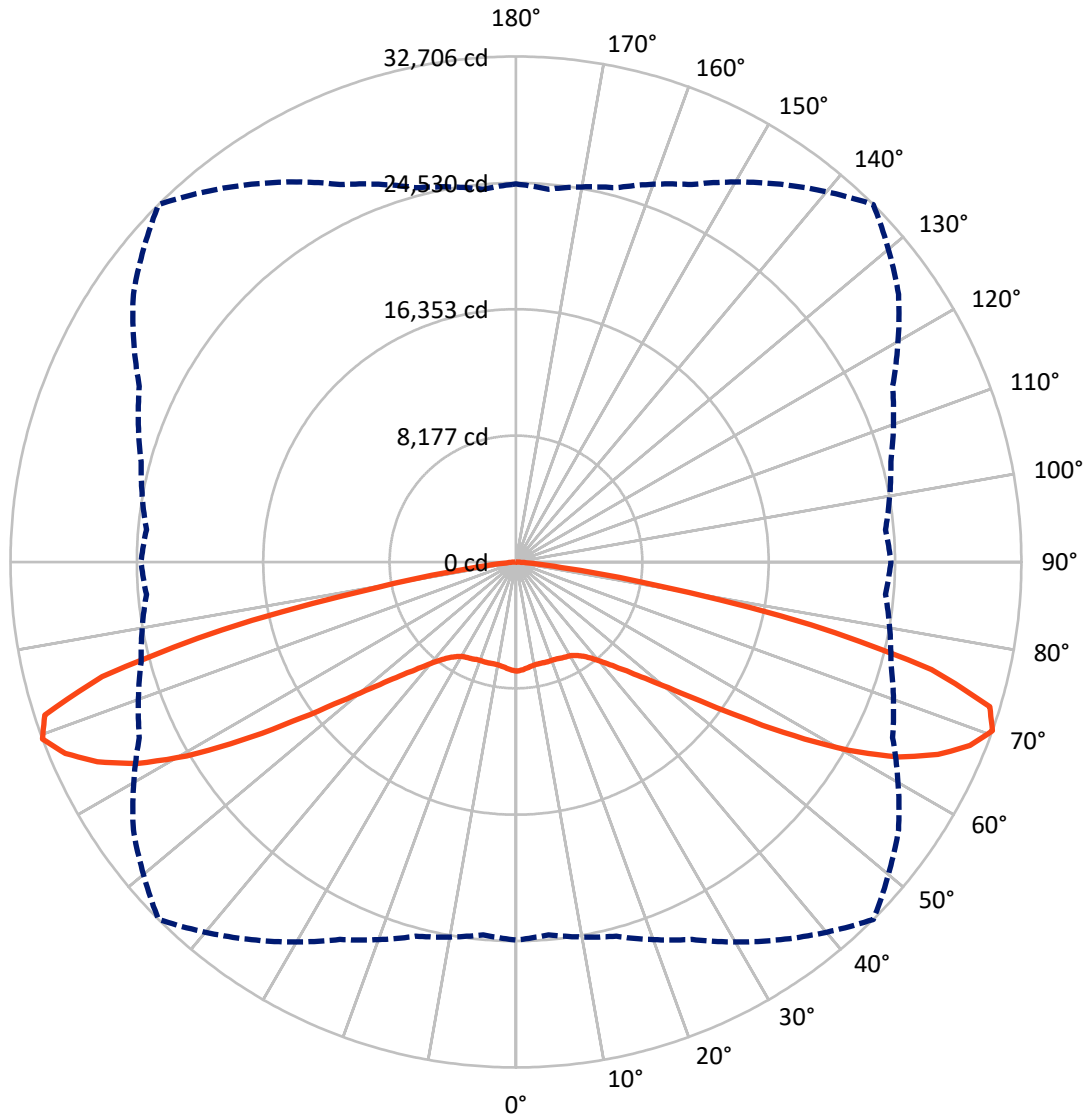
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	38722.5	0.0	38722.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	38722.5	0.0	38722.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	77445.0	0.0	77445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.2	0.8
10°-20°	1929.6	2.5
20°-30°	3211.2	4.1
30°-40°	4856.2	6.3
40°-50°	8069.9	10.4
50°-60°	15227.6	19.7
60°-70°	25712.4	33.2
70°-80°	16895.7	21.8
80°-90°	885.2	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°	77445.0	100.0
0°-180°	77445.0	100.0

Coefficient of Utilization



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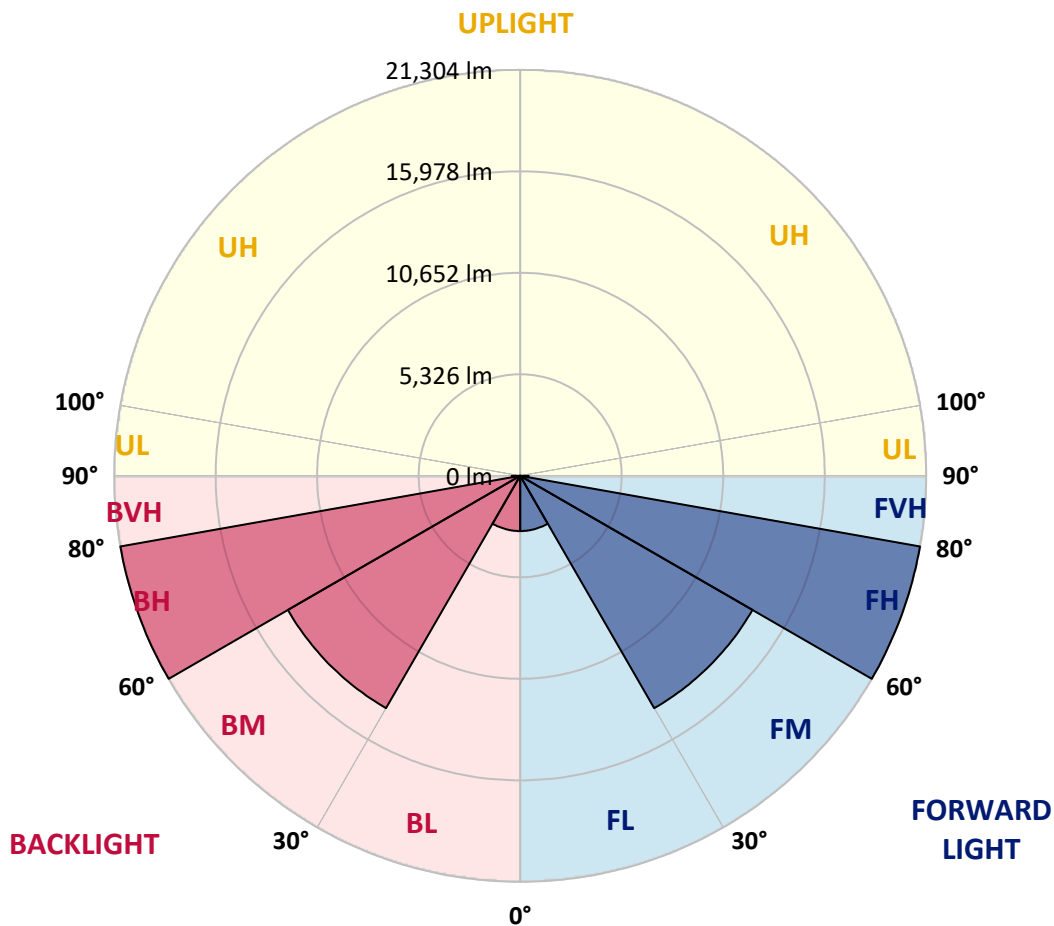
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.0	3.7			
FM (30°-60°)	14076.9	18.2			
FH (60°-80°)	21304.1	27.5			G5
FVH (80°-90°)	442.6	0.6			G3/500
BL (0°-30°)	2899.0	3.7	B4/5000		
BM (30°-60°)	14076.9	18.2	B5		
BH (60°-80°)	21304.1	27.5	B5		G5
BVH (80°-90°)	442.6	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°	7064.5	7064.5	7064.5	7064.5	7064.5	7064.5	7064.5	7064.5	7064.5	7064.5
2.5°	7020.3	7040.4	7032.3	7016.2	7016.2	7004.2	7016.2	7024.3	7036.4	7044.4
5°	6927.7	6943.8	6939.8	6927.7	6931.7	6919.6	6927.7	6939.8	6947.8	6951.8
7.5°	6847.2	6863.3	6855.2	6835.1	6835.1	6823.0	6827.0	6839.1	6851.2	6855.2
10°	6827.0	6843.1	6819.0	6786.8	6774.7	6758.6	6762.6	6774.7	6798.9	6810.9
12.5°	6835.1	6847.2	6823.0	6774.7	6762.6	6746.5	6746.5	6758.6	6790.8	6806.9
15°	6859.2	6871.3	6835.1	6782.8	6770.7	6758.6	6754.6	6770.7	6806.9	6835.1
17.5°	6903.5	6915.6	6859.2	6786.8	6770.7	6774.7	6770.7	6782.8	6839.1	6891.5
20°	6943.8	6951.8	6875.4	6786.8	6770.7	6774.7	6770.7	6794.8	6867.3	6939.8
22.5°	6955.9	6963.9	6891.5	6815.0	6802.9	6806.9	6802.9	6827.0	6895.5	6967.9
25°	6959.9	6972.0	6915.6	6855.2	6875.4	6883.4	6875.4	6879.4	6931.7	6996.1
27.5°	7020.3	7036.4	6984.0	6931.7	6943.8	6939.8	6951.8	6963.9	7004.2	7068.6
30°	7145.1	7157.1	7112.8	7060.5	7052.5	7024.3	7060.5	7100.8	7145.1	7201.4
32.5°	7350.3	7374.5	7318.1	7261.8	7225.6	7209.5	7237.6	7306.1	7366.4	7426.8
35°	7692.5	7708.6	7656.3	7551.6	7487.2	7487.2	7511.4	7599.9	7696.5	7773.0
37.5°	8175.5	8195.7	8103.1	7978.3	7881.7	7881.7	7913.9	8006.5	8151.4	8260.1
40°	8763.3	8791.4	8674.7	8545.9	8453.3	8437.2	8477.5	8582.1	8719.0	8855.8
42.5°	9471.7	9503.9	9351.0	9238.2	9165.8	9165.8	9185.9	9282.5	9407.3	9576.4
45°	10377.4	10433.8	10224.5	10111.8	10043.3	10059.4	10071.5	10156.0	10268.7	10462.0
47.5°	11456.2	11512.6	11291.2	11174.5	11162.4	11238.9	11190.6	11250.9	11311.3	11532.7
50°	12679.9	12776.6	12623.6	12615.5	12639.7	12780.6	12667.9	12700.1	12631.6	12772.5
52.5°	14177.4	14318.3	14290.1	14338.4	14608.1	14897.9	14640.3	14527.6	14270.0	14314.3
55°	15992.8	16206.2	16246.4	16536.3	17148.1	17739.9	17192.4	16737.5	16190.1	16089.4
57.5°	18057.9	18226.9	18420.1	19011.9	20155.1	21205.7	20155.1	19148.7	18287.3	18082.0
60°	20279.9	20489.2	20674.4	21547.9	23246.6	24723.9	23214.4	21616.3	20477.1	20199.4
62.5°	22666.9	22936.6	23065.4	24035.5	26016.0	27779.2	26044.2	24108.0	22844.0	22546.2
65°	24957.4	25178.8	25323.7	26358.2	28250.1	30017.3	28378.9	26470.9	25170.7	24780.2
67.5°	26024.1	26144.8	26499.1	27670.5	29667.1	31683.8	30005.2	27795.3	26342.1	25657.8
70°	24462.2	24216.7	25070.1	26945.9	29836.1	32706.2	30222.6	26889.5	25110.3	23999.3
72.5°	18903.2	18480.5	19961.9	23170.1	27903.9	32054.1	28097.2	23351.2	20883.7	18629.5
75°	10284.8	9805.8	11850.7	15908.3	22252.3	27783.2	22763.5	16363.2	13195.2	10208.4
77.5°	2902.3	2721.2	4371.6	7696.5	13384.4	19507.0	13899.6	7865.6	5184.7	3075.4
80°	889.6	861.4	1167.4	2318.6	5683.8	9342.9	5462.4	2346.8	1485.4	937.9
82.5°	527.3	483.0	579.7	845.3	1449.1	2934.5	1408.9	881.6	708.5	475.0
85°	301.9	281.8	342.2	410.6	487.1	623.9	406.6	418.6	378.4	253.6
87.5°	124.8	112.7	132.8	128.8	112.7	144.9	108.7	128.8	153.0	100.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7064.5
7040.4
6951.8
6855.2
6810.9
6810.9
6839.1
6891.5
6943.8
6967.9
6992.1
7052.5
7189.3
7402.7
7744.8
8219.8
8811.6
9564.3
10453.9
11468.3
12688.0
14165.3
15932.5
17937.1
19957.8
22304.6
24587.0
25665.8
24265.0
19189.0
10872.6
3417.5
990.2
515.2
265.7
92.6
0.0

OF REPORT)