

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: P954553

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954553
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-SB7D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80182 lumens
Efficiency: N/A
Efficacy: 156.4 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

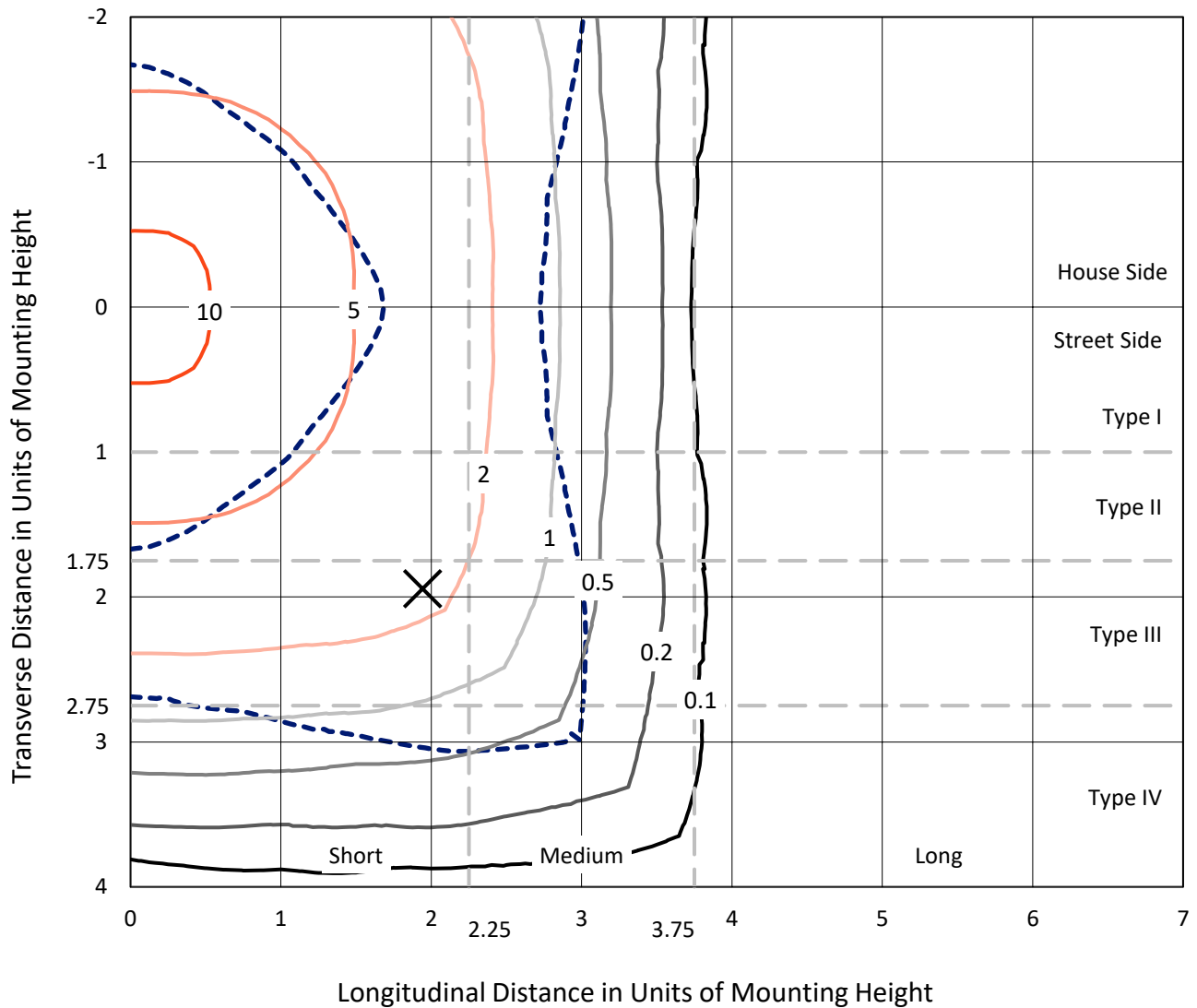
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

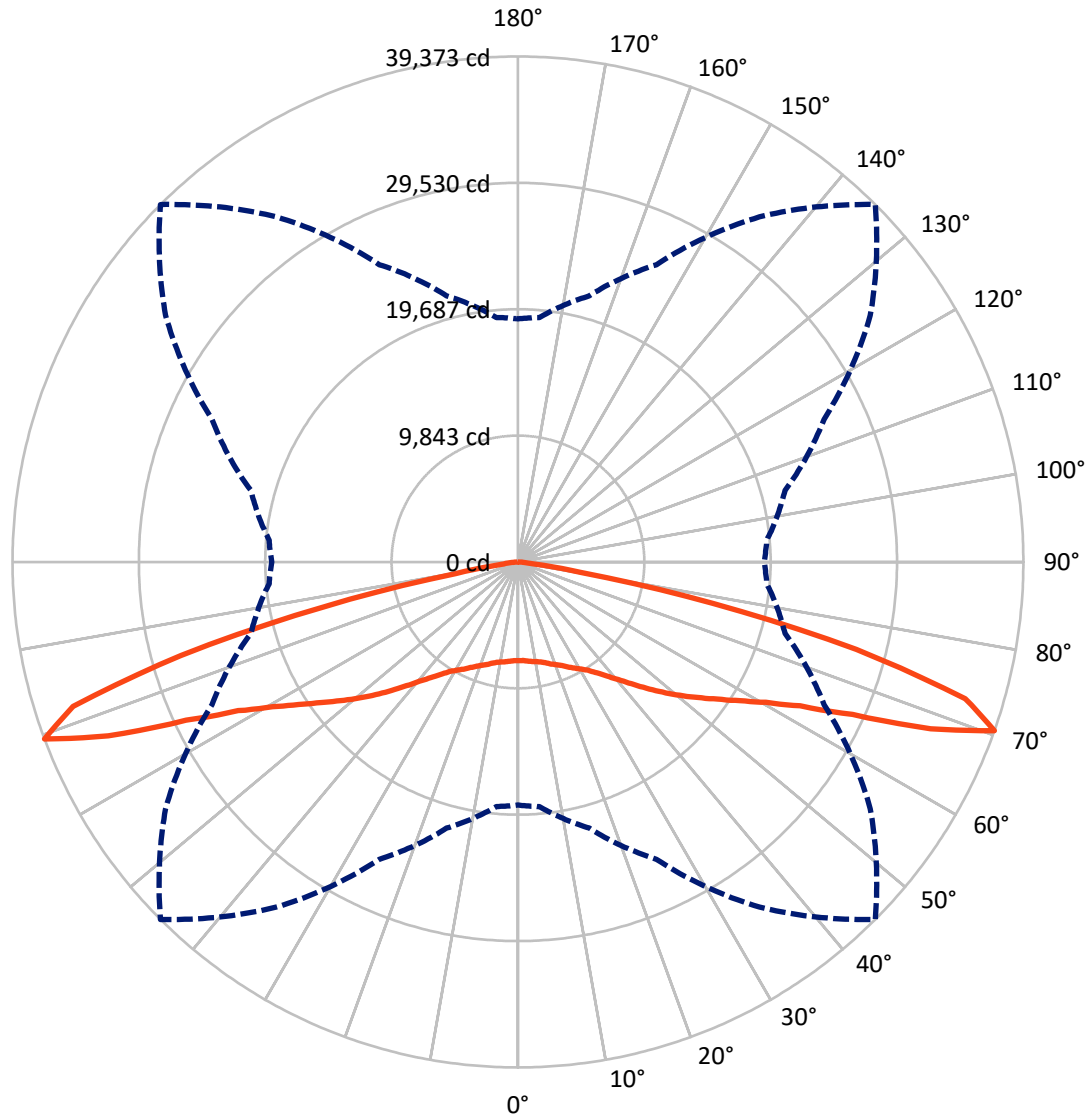
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	40091.0	0.0	40091.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	40091.0	0.0	40091.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	80182.0	0.0	80182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.2	0.9
10°-20°	2313.8	2.9
20°-30°	4135.0	5.2
30°-40°	6702.8	8.4
40°-50°	10917.8	13.6
50°-60°	16645.9	20.8
60°-70°	24763.8	30.9
70°-80°	13497.1	16.8
80°-90°	459.6	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°	80182.0	100.0
0°-180°	80182.0	100.0



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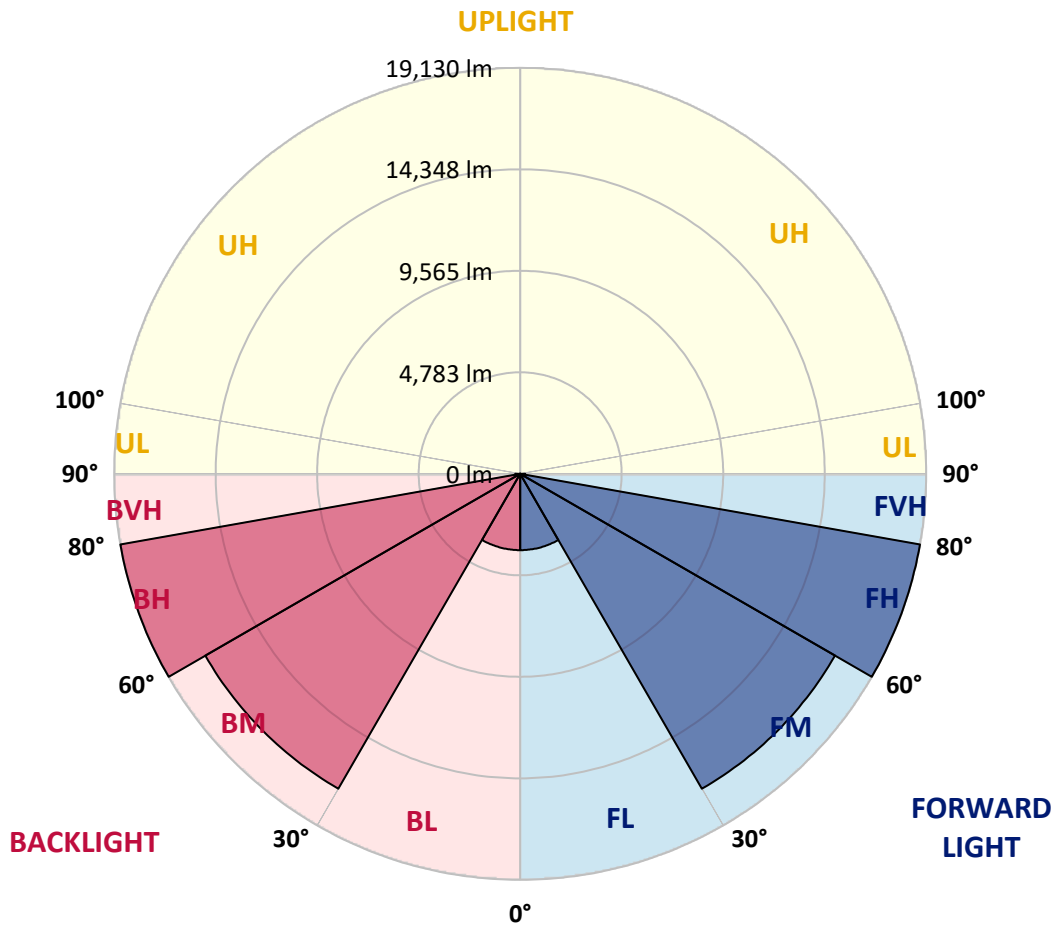
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3597.5	4.5			
FM (30°-60°)	17133.2	21.4			
FH (60°-80°)	19130.5	23.9			G5
FVH (80°-90°)	229.8	0.3			G3/500
BL (0°-30°)	3597.5	4.5	B4/5000		
BM (30°-60°)	17133.2	21.4	B5		
BH (60°-80°)	19130.5	23.9	B5		G5
BVH (80°-90°)	229.8	0.3			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°	7680.6	7680.6	7680.6	7680.6	7680.6	7680.6	7680.6	7680.6	7680.6	7680.6
2.5°	7716.8	7724.9	7708.8	7700.7	7692.7	7680.6	7684.6	7704.8	7720.9	7716.8
5°	7781.2	7789.3	7777.2	7773.2	7757.1	7753.1	7753.1	7773.2	7785.3	7777.2
7.5°	7853.7	7865.8	7845.7	7841.6	7833.6	7825.5	7821.5	7841.6	7853.7	7853.7
10°	7922.1	7934.2	7918.1	7906.0	7898.0	7898.0	7889.9	7906.0	7926.2	7922.1
12.5°	7994.6	8002.6	7986.5	7978.5	7978.5	7990.6	7978.5	7986.5	8002.6	7994.6
15°	8083.2	8087.2	8083.2	8095.2	8115.4	8155.6	8119.4	8111.3	8119.4	8099.3
17.5°	8203.9	8212.0	8228.1	8256.2	8284.4	8356.9	8292.5	8272.4	8272.4	8232.1
20°	8352.9	8364.9	8389.1	8437.4	8473.6	8542.1	8477.6	8449.5	8437.4	8385.1
22.5°	8509.9	8530.0	8566.2	8630.6	8695.0	8759.4	8695.0	8646.7	8610.5	8542.1
25°	8691.0	8715.2	8771.5	8876.2	8964.7	9057.3	8980.8	8884.2	8811.8	8715.2
27.5°	8948.6	8976.8	9045.2	9174.1	9286.8	9367.3	9294.8	9170.0	9069.4	8952.7
30°	9310.9	9339.1	9419.6	9556.5	9633.0	9685.3	9637.0	9540.4	9419.6	9286.8
32.5°	9777.9	9814.1	9902.7	10031.5	10047.6	10055.6	10039.5	9991.2	9902.7	9741.6
35°	10369.6	10409.9	10510.5	10615.2	10599.1	10615.2	10591.0	10574.9	10510.5	10325.3
37.5°	11094.2	11142.5	11247.2	11327.7	11287.4	11267.3	11271.3	11275.4	11239.1	11033.8
40°	11935.5	11999.9	12076.4	12161.0	12092.5	12032.1	12072.4	12104.6	12072.4	11863.1
42.5°	12801.0	12893.6	12974.1	13094.9	13038.5	12962.0	13018.4	13054.6	12986.2	12760.8
45°	13763.1	13851.7	13956.3	14137.5	14097.2	14016.7	14097.2	14105.3	13988.5	13722.8
47.5°	14757.4	14850.0	15007.0	15248.5	15232.4	15143.8	15248.5	15192.1	15043.2	14725.2
50°	15699.4	15828.2	16069.7	16407.8	16440.0	16331.4	16472.2	16363.6	16114.0	15715.5
52.5°	16585.0	16721.8	17104.2	17563.1	17679.9	17539.0	17728.2	17539.0	17164.6	16653.4
55°	17514.8	17667.8	18122.7	18722.5	18956.0	18851.3	19028.4	18742.6	18211.2	17591.3
57.5°	18609.8	18702.4	19245.8	19958.3	20352.8	20377.0	20457.5	19974.4	19330.3	18625.9
60°	19797.3	19926.1	20517.8	21371.2	21995.2	22196.5	22111.9	21395.4	20646.7	19837.5
62.5°	21318.9	21459.8	22168.3	23190.8	24177.0	24676.2	24346.1	23307.5	22381.6	21411.5
65°	22578.9	22735.9	24016.0	25839.5	27634.9	28637.2	27808.0	25895.9	24229.3	22860.7
67.5°	21665.1	21858.3	23867.0	27216.2	31680.5	34671.4	31833.5	27626.8	24362.2	22506.4
70°	18935.8	19117.0	21459.8	25553.7	32819.7	39373.2	33504.0	26306.5	21536.3	19459.1
72.5°	12571.6	13155.3	15526.3	20437.3	29305.5	36434.6	29595.3	20022.7	14403.1	12543.4
75°	4170.4	4637.3	6255.6	10595.0	19628.2	27248.4	18686.3	9375.3	4955.4	3566.6
77.5°	1050.6	1211.7	1670.6	3031.2	7829.5	15514.2	7048.6	2475.7	1348.5	942.0
80°	511.2	563.6	805.1	1010.4	1960.4	4931.2	1839.6	950.0	636.0	491.1
82.5°	281.8	285.8	454.9	571.6	728.6	1276.1	756.8	555.5	366.3	297.9
85°	173.1	169.1	241.5	305.9	305.9	454.9	362.3	305.9	209.3	185.2
87.5°	68.4	68.4	88.6	96.6	84.5	116.7	92.6	100.6	80.5	76.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7680.6
7720.9
7781.2
7853.7
7922.1
7990.6
8099.3
8232.1
8385.1
8538.0
8711.1
8948.6
9286.8
9745.7
10325.3
11033.8
11863.1
12776.9
13751.0
14705.1
15707.4
16605.1
17506.8
18529.3
19708.7
21242.4
22635.2
22228.7
19181.4
12136.8
3373.3
841.3
450.9
297.9
193.2
80.5
0.0

OF REPORT)