

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: P954680

Luminaire Tested: **GALN-SB7D-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954680
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-SB7D-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72537 lumens
Efficiency: N/A
Efficacy: 141.5 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

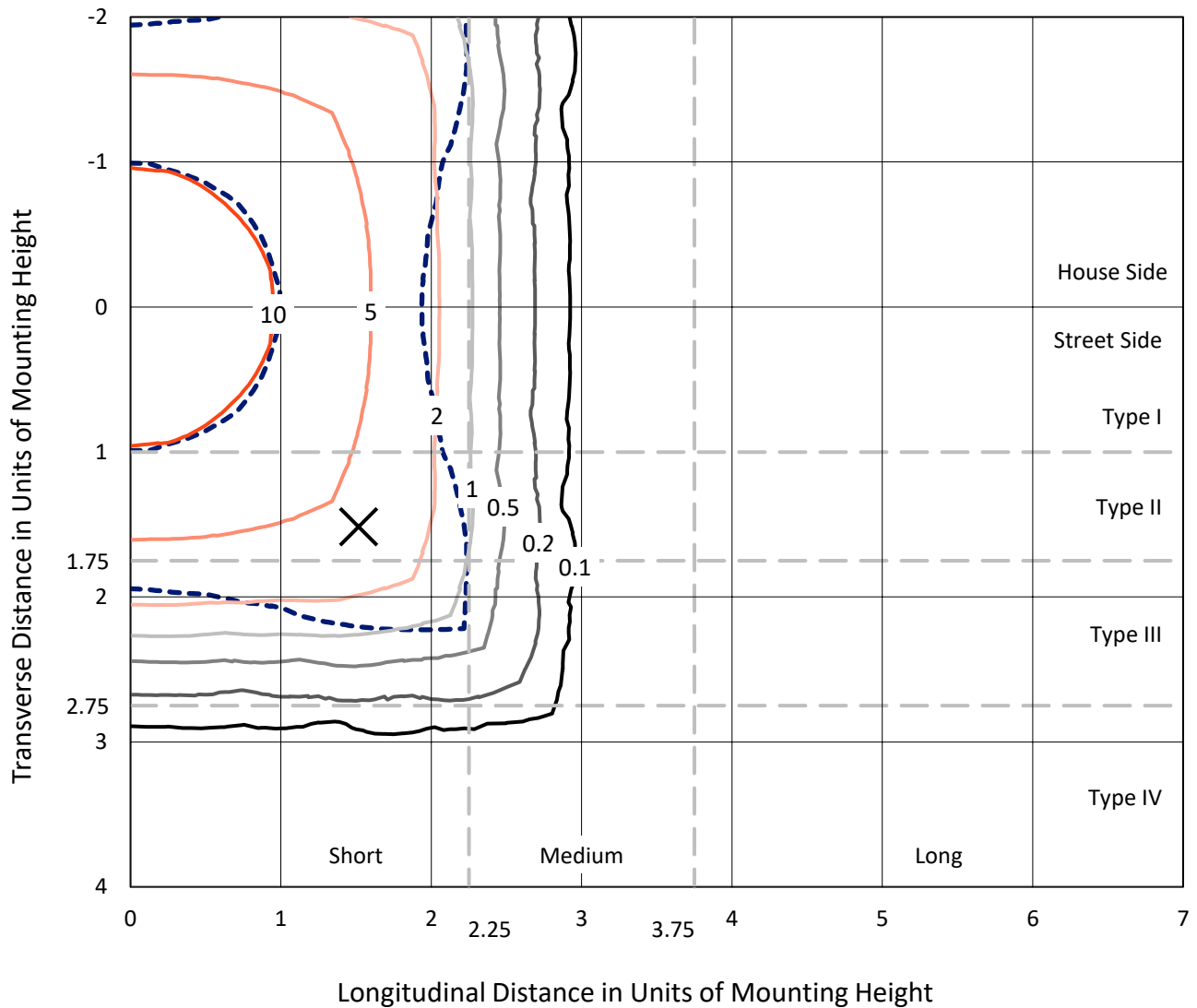
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

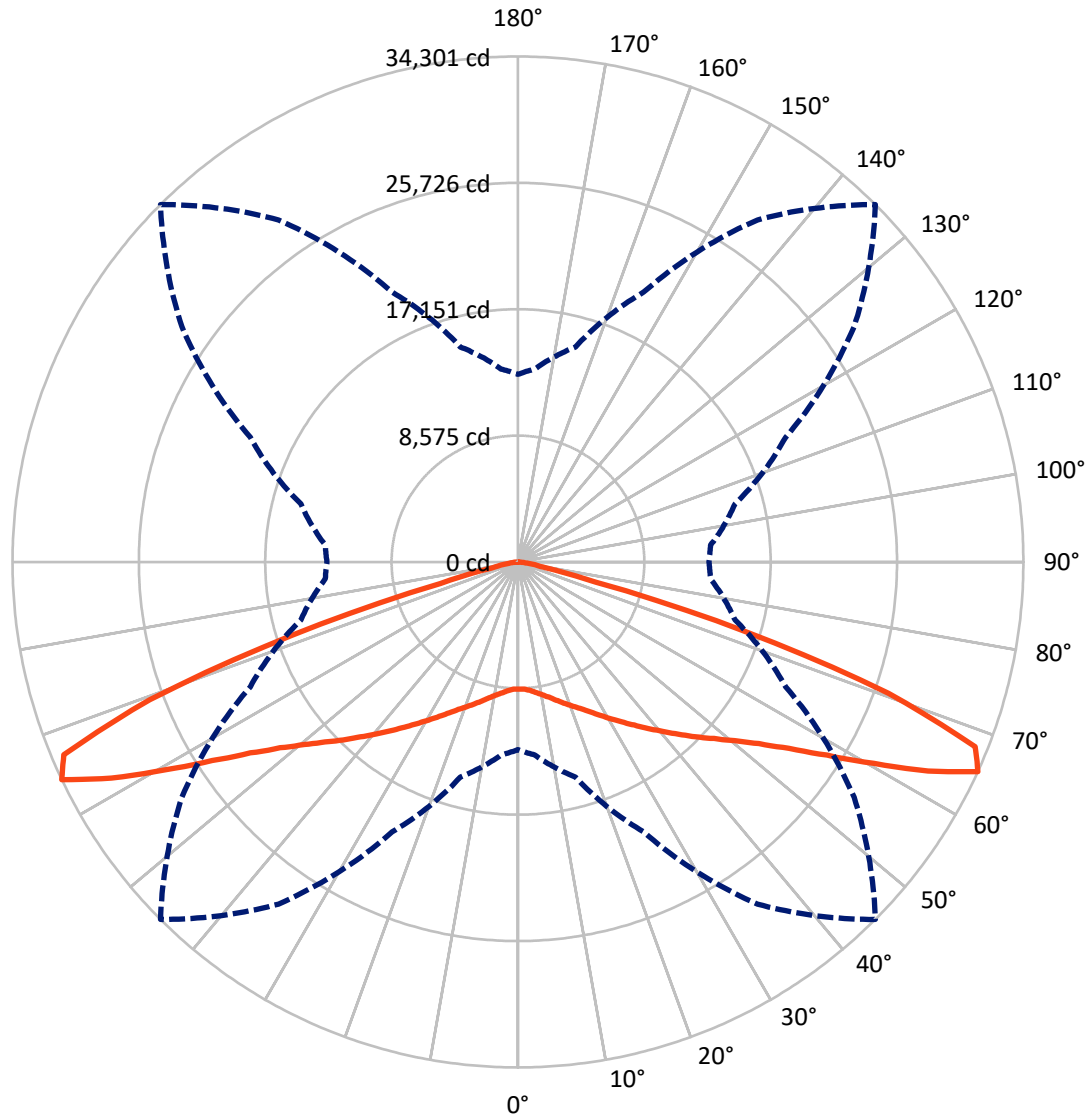
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	36268.5	0.0	36268.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36268.5	0.0	36268.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	72537.0	0.0	72537.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.0	1.2
10°-20°	2780.0	3.8
20°-30°	5249.0	7.2
30°-40°	8595.0	11.8
40°-50°	13326.6	18.4
50°-60°	19686.2	27.1
60°-70°	18739.4	25.8
70°-80°	3023.9	4.2
80°-90°	285.0	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°	72537.0	100.0
0°-180°	72537.0	100.0



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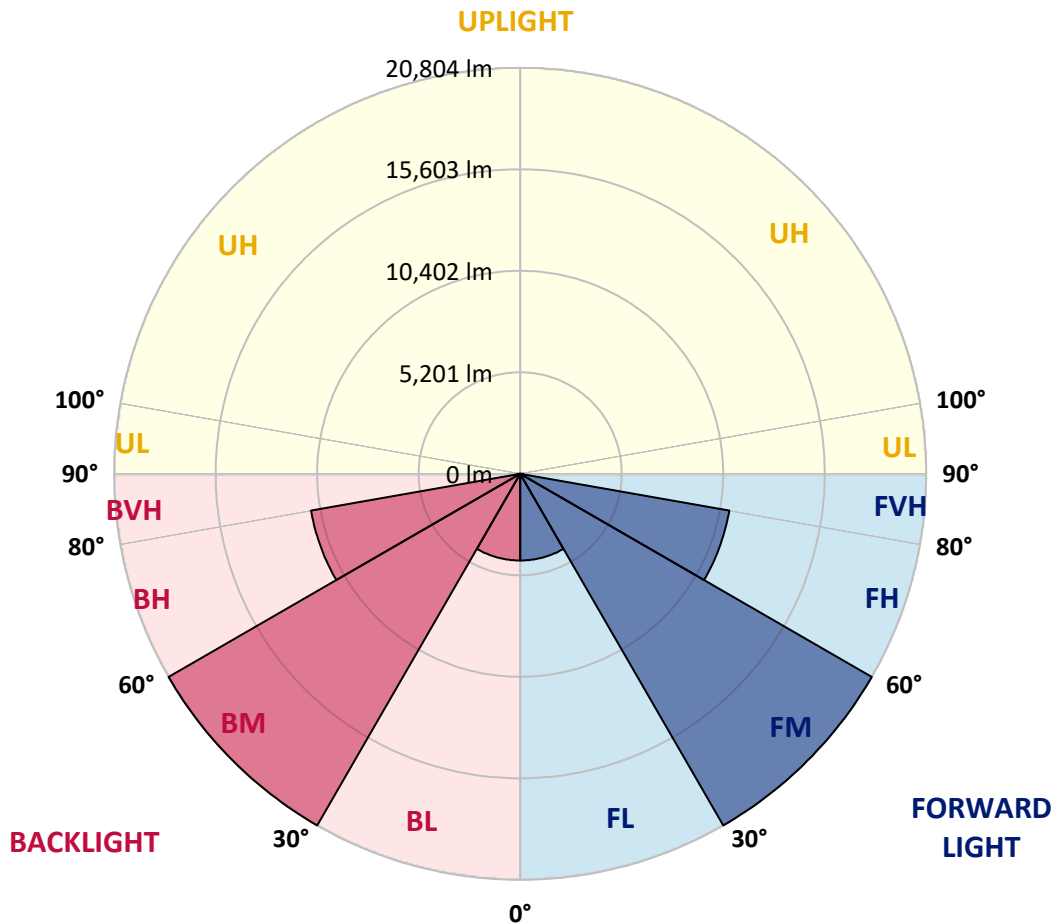
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4440.5	6.1			
FM (30°-60°)	20803.9	28.7			
FH (60°-80°)	10881.6	15.0			G4/12000
FVH (80°-90°)	142.5	0.2			G2/225
BL (0°-30°)	4440.5	6.1	B4/5000		
BM (30°-60°)	20803.9	28.7	B5		
BH (60°-80°)	10881.6	15.0	B5		G4/12000
BVH (80°-90°)	142.5	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°	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6
2.5°	8690.9	8661.7	8683.6	8665.4	8650.8	8636.3	8643.5	8669.0	8679.9	8683.6
5°	8807.3	8781.8	8792.8	8792.8	8767.3	8760.0	8763.6	8781.8	8803.7	8803.7
7.5°	8996.6	8971.1	8996.6	8982.0	8960.2	8952.9	8949.3	8963.8	8996.6	8996.6
10°	9225.8	9196.7	9211.3	9204.0	9178.5	9167.6	9164.0	9185.8	9214.9	9211.3
12.5°	9477.0	9444.2	9462.4	9440.6	9433.3	9422.4	9422.4	9418.7	9436.9	9422.4
15°	9757.2	9735.4	9742.6	9728.1	9739.0	9731.7	9702.6	9688.1	9695.3	9673.5
17.5°	10088.4	10037.4	10062.9	10055.6	10055.6	10070.2	10022.9	10004.7	10019.2	9997.4
20°	10470.5	10419.6	10430.5	10415.9	10397.7	10412.3	10354.1	10368.6	10379.5	10365.0
22.5°	10889.0	10823.5	10819.9	10827.2	10787.1	10790.8	10750.8	10787.1	10809.0	10768.9
25°	11318.5	11249.3	11296.7	11278.5	11227.5	11238.4	11209.3	11245.7	11263.9	11213.0
27.5°	11773.4	11726.1	11769.8	11780.7	11718.8	11762.5	11718.8	11751.6	11769.8	11693.4
30°	12304.8	12257.5	12297.5	12326.6	12253.8	12323.0	12286.6	12308.4	12312.0	12221.1
32.5°	12883.4	12810.6	12912.5	12927.1	12847.0	12930.7	12883.4	12912.5	12930.7	12807.0
35°	13589.5	13498.5	13615.0	13596.8	13527.6	13596.8	13553.1	13596.8	13640.4	13491.2
37.5°	14350.1	14255.5	14379.2	14346.5	14281.0	14328.3	14302.8	14331.9	14401.1	14240.9
40°	15187.2	15070.7	15238.1	15179.9	15118.0	15110.7	15125.3	15143.5	15234.5	15056.1
42.5°	16082.5	15958.7	16209.8	16118.8	16031.5	15973.3	16020.6	16057.0	16144.3	15944.2
45°	17105.1	16963.2	17290.7	17181.6	17043.3	16923.2	16999.6	17054.2	17181.6	16941.4
47.5°	18233.3	18073.2	18422.6	18389.8	18164.2	17902.1	18076.8	18233.3	18328.0	18036.8
50°	19336.1	19212.3	19670.9	19710.9	19434.3	19066.8	19310.6	19547.2	19572.6	19190.5
52.5°	20369.7	20245.9	20911.9	21163.0	20915.6	20478.8	20737.2	20977.4	20784.5	20289.6
55°	21195.8	21093.9	21941.9	22589.7	22673.4	22313.1	22465.9	22458.7	21825.4	21064.8
57.5°	21396.0	21381.4	22451.4	23823.4	24696.9	24740.6	24438.5	23666.9	22302.2	21279.5
60°	20486.1	20577.1	22047.4	24467.6	26796.8	27764.9	26458.4	24256.5	21759.9	20340.5
62.5°	17763.9	18004.1	19776.4	23681.5	28492.8	31244.1	28077.9	23361.2	19532.6	17680.1
65°	12730.6	13149.1	15107.1	20209.5	28339.9	34301.2	27845.0	20045.7	15252.7	13116.4
67.5°	5775.7	6201.5	7864.7	13837.0	24635.0	33471.5	24576.8	13982.5	8257.8	6223.4
70°	2092.6	2165.4	2700.4	5539.1	15744.0	26669.4	16417.3	5579.2	2871.5	2307.4
72.5°	1266.5	1277.4	1390.2	1983.5	5470.0	16191.6	5702.9	2049.0	1419.4	1259.2
75°	804.3	797.0	989.9	1211.9	1939.8	5462.7	2034.4	1211.9	986.3	898.9
77.5°	578.7	596.9	709.7	906.2	1222.8	1852.4	1201.0	866.2	709.7	582.3
80°	433.1	444.0	516.8	706.0	858.9	1153.7	764.3	640.5	535.0	363.9
82.5°	313.0	313.0	338.5	513.2	524.1	622.3	414.9	451.3	353.0	258.4
85°	185.6	182.0	211.1	305.7	273.0	229.3	189.2	276.6	222.0	160.1
87.5°	65.5	69.1	65.5	87.3	72.8	61.9	58.2	76.4	61.9	54.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8632.6
8683.6
8803.7
8985.6
9204.0
9429.7
9677.1
10015.6
10397.7
10809.0
11271.2
11751.6
12275.7
12890.7
13582.2
14339.2
15114.4
16049.7
17065.1
18135.1
19237.8
20304.1
21090.3
21214.0
20173.1
17571.0
12959.9
6132.4
2278.3
1281.1
906.2
593.2
374.9
258.4
156.5
51.0
0.0

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