

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: P955961

Luminaire Tested: **GALN-SB8D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955961
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-SB8D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86226 lumens
Efficiency: N/A
Efficacy: 147.4 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

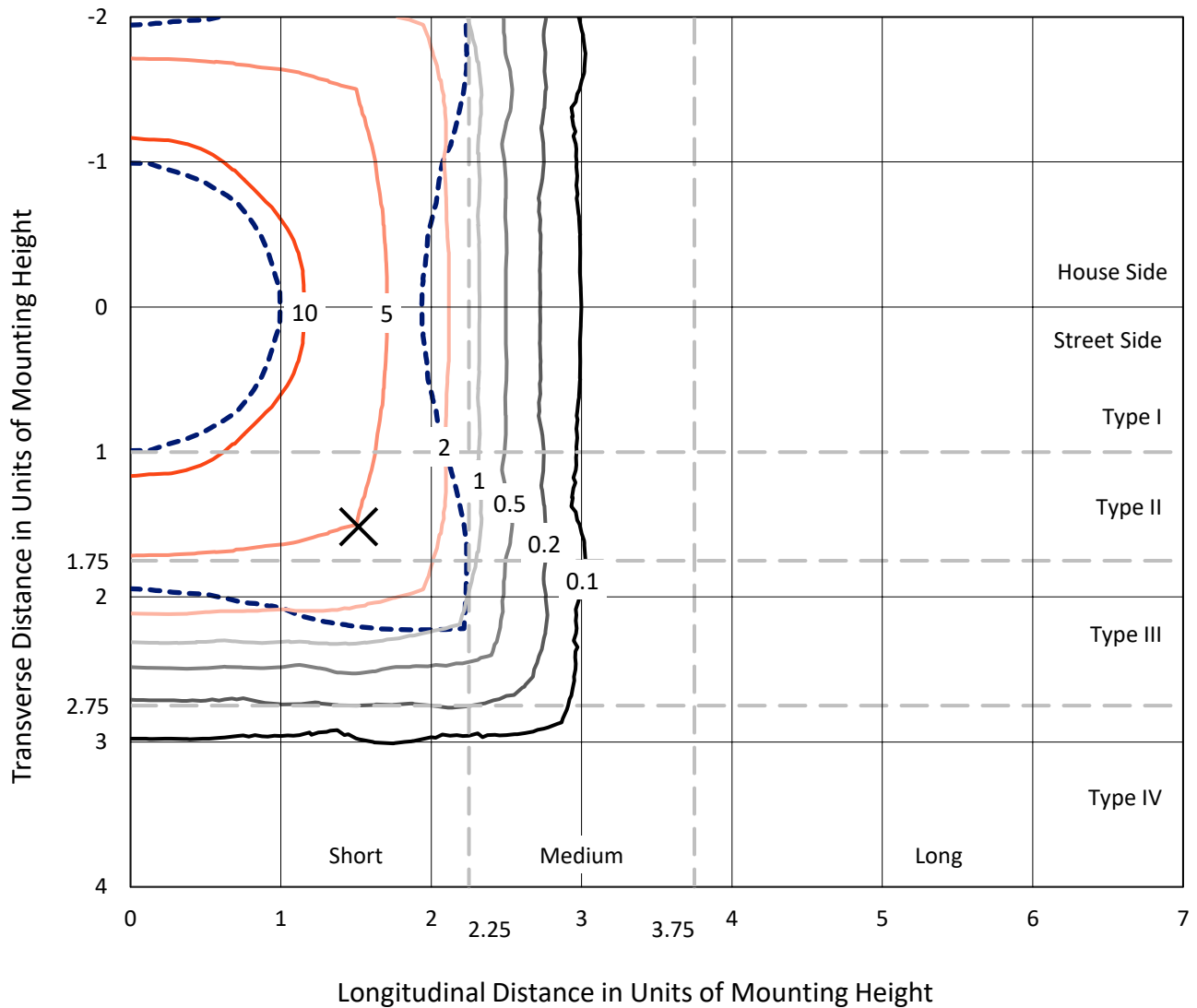
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

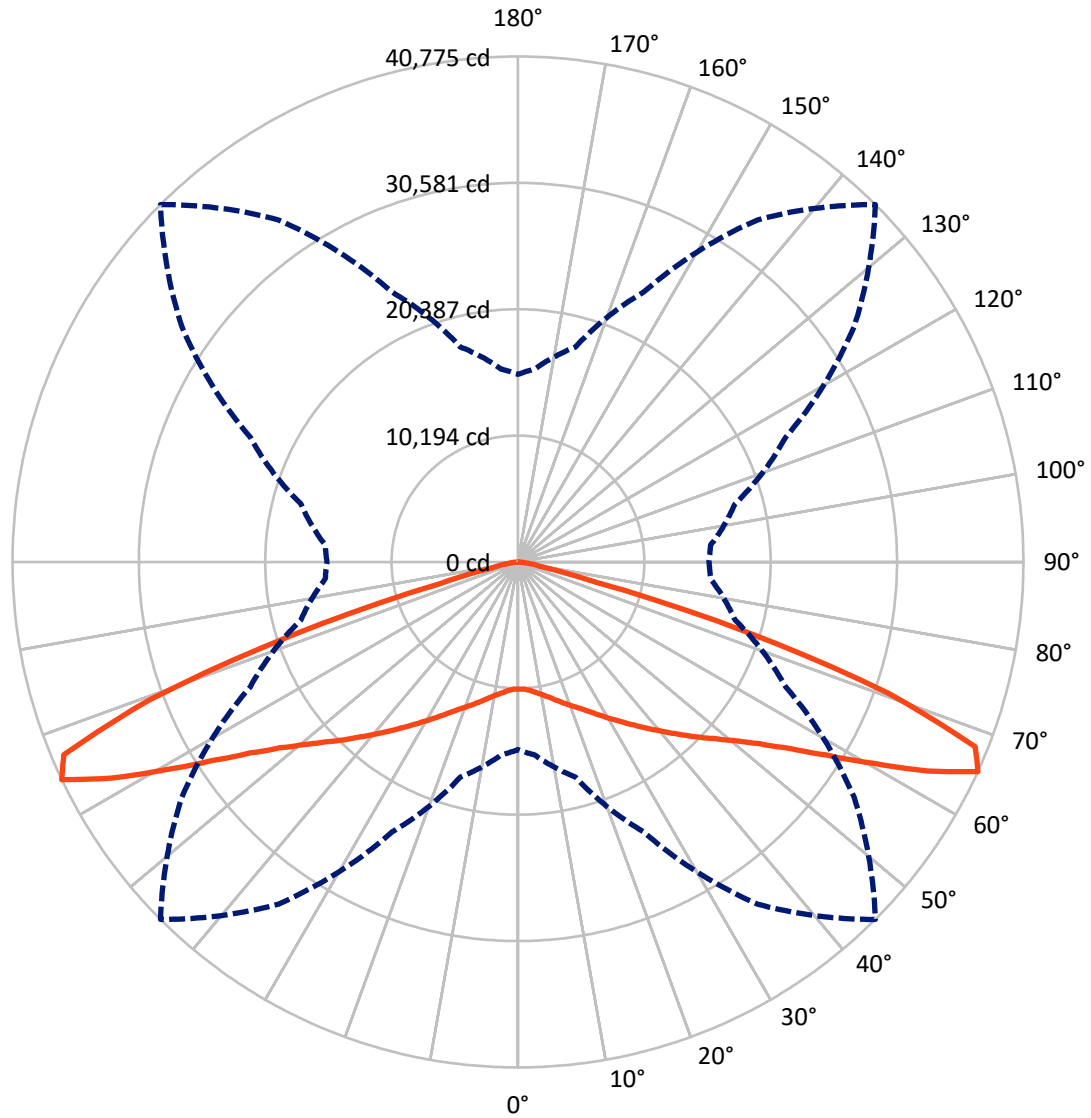
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	43113.0	0.0	43113.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	43113.0	0.0	43113.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	86226.0	0.0	86226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.7	1.2
10°-20°	3304.6	3.8
20°-30°	6239.5	7.2
30°-40°	10217.0	11.8
40°-50°	15841.6	18.4
50°-60°	23401.3	27.1
60°-70°	22275.9	25.8
70°-80°	3594.5	4.2
80°-90°	338.8	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°	86226.0	100.0
0°-180°	86226.0	100.0

Coefficient of Utilization



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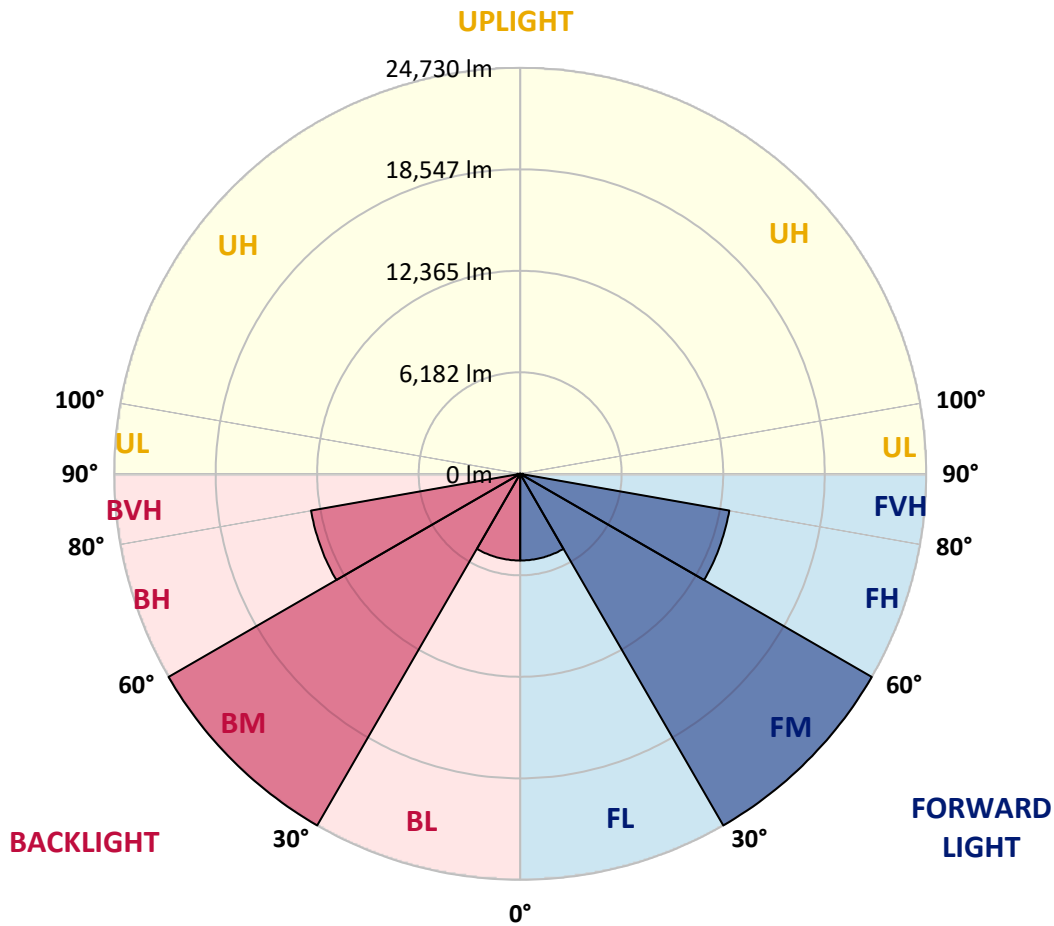
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5278.4	6.1			
FM (30°-60°)	24729.9	28.7			
FH (60°-80°)	12935.2	15.0			G5
FVH (80°-90°)	169.4	0.2			G2/225
BL (0°-30°)	5278.4	6.1	B5		
BM (30°-60°)	24729.9	28.7	B5		
BH (60°-80°)	12935.2	15.0	B5		G5
BVH (80°-90°)	169.4	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-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10261.8	10261.8	10261.8	10261.8	10261.8	10261.8	10261.8	10261.8	10261.8	10261.8
2.5°	10331.0	10296.4	10322.3	10300.7	10283.4	10266.1	10274.7	10305.0	10318.0	10322.3
5°	10469.4	10439.1	10452.1	10452.1	10421.8	10413.2	10417.5	10439.1	10465.1	10465.1
7.5°	10694.4	10664.1	10694.4	10677.1	10651.1	10642.5	10638.1	10655.4	10694.4	10694.4
10°	10966.9	10932.3	10949.6	10941.0	10910.7	10897.7	10893.4	10919.3	10953.9	10949.6
12.5°	11265.4	11226.5	11248.1	11222.2	11213.5	11200.5	11200.5	11196.2	11217.8	11200.5
15°	11598.6	11572.6	11581.2	11563.9	11576.9	11568.3	11533.7	11516.4	11525.0	11499.1
17.5°	11992.2	11931.7	11962.0	11953.3	11953.3	11970.6	11914.4	11892.7	11910.0	11884.1
20°	12446.5	12385.9	12398.9	12381.6	12360.0	12377.3	12308.1	12325.4	12338.3	12321.0
22.5°	12944.0	12866.1	12861.8	12870.5	12822.9	12827.2	12779.6	12822.9	12848.8	12801.2
25°	13454.5	13372.3	13428.5	13406.9	13346.3	13359.3	13324.7	13368.0	13389.6	13329.0
27.5°	13995.3	13939.0	13990.9	14003.9	13930.4	13982.3	13930.4	13969.3	13990.9	13900.1
30°	14626.9	14570.7	14618.2	14652.9	14566.3	14648.5	14605.3	14631.2	14635.5	14527.4
32.5°	15314.8	15228.2	15349.4	15366.7	15271.5	15371.0	15314.8	15349.4	15371.0	15223.9
35°	16154.0	16045.9	16184.3	16162.7	16080.5	16162.7	16110.8	16162.7	16214.6	16037.2
37.5°	17058.2	16945.7	17092.8	17053.9	16976.0	17032.3	17002.0	17036.6	17118.8	16928.4
40°	18053.3	17914.8	18113.8	18044.6	17971.1	17962.4	17979.7	18001.3	18109.5	17897.5
42.5°	19117.5	18970.4	19268.9	19160.8	19056.9	18987.7	19044.0	19087.2	19191.0	18953.1
45°	20333.2	20164.4	20553.8	20424.0	20259.6	20116.8	20207.7	20272.6	20424.0	20138.5
47.5°	21674.3	21483.9	21899.2	21860.3	21592.1	21280.6	21488.3	21674.3	21786.8	21440.7
50°	22985.1	22838.0	23383.1	23430.7	23101.9	22665.0	22954.8	23236.0	23266.3	22812.1
52.5°	24213.8	24066.7	24858.4	25156.9	24862.7	24343.6	24650.7	24936.2	24707.0	24118.6
55°	25195.8	25074.7	26082.7	26852.7	26952.3	26524.0	26705.7	26697.0	25944.2	25040.1
57.5°	25433.8	25416.4	26688.4	28319.3	29357.6	29409.5	29050.5	28133.3	26511.0	25295.3
60°	24352.2	24460.4	26208.1	29085.1	31853.8	33004.6	31451.5	28834.2	25866.4	24179.2
62.5°	21116.2	21401.7	23508.6	28150.6	33869.9	37140.5	33376.7	27769.9	23218.7	21016.7
65°	15133.1	15630.6	17958.1	24023.4	33688.2	40774.5	33099.8	23828.7	18131.1	15591.6
67.5°	6865.7	7371.9	9348.9	16448.2	29284.1	39788.1	29214.9	16621.3	9816.2	7397.8
70°	2487.6	2574.1	3210.0	6584.5	18715.2	31702.4	19515.5	6632.1	3413.4	2742.8
72.5°	1505.5	1518.5	1652.6	2357.8	6502.3	19247.3	6779.2	2435.7	1687.2	1496.9
75°	956.1	947.4	1176.7	1440.6	2305.9	6493.6	2418.3	1440.6	1172.4	1068.6
77.5°	687.9	709.5	843.6	1077.2	1453.6	2202.0	1427.6	1029.6	843.6	692.2
80°	514.8	527.8	614.3	839.3	1021.0	1371.4	908.5	761.4	636.0	432.6
82.5°	372.1	372.1	402.3	610.0	623.0	739.8	493.2	536.4	419.6	307.2
85°	220.6	216.3	250.9	363.4	324.5	272.6	225.0	328.8	263.9	190.4
87.5°	77.9	82.2	77.9	103.8	86.5	73.5	69.2	90.9	73.5	64.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
10261.8
10322.3
10465.1
10681.4
10941.0
11209.2
11503.4
11905.7
12360.0
12848.8
13398.3
13969.3
14592.3
15323.4
16145.4
17045.2
17966.7
19078.6
20285.6
21557.5
22868.3
24135.9
25070.4
25217.4
23980.1
20886.9
15405.6
7289.7
2708.2
1522.8
1077.2
705.2
445.6
307.2
186.0
60.6
0.0

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