

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: P954532

Luminaire Tested: **GALN-SB7D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954532
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-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75789 lumens
Efficiency: N/A
Efficacy: 147.8 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

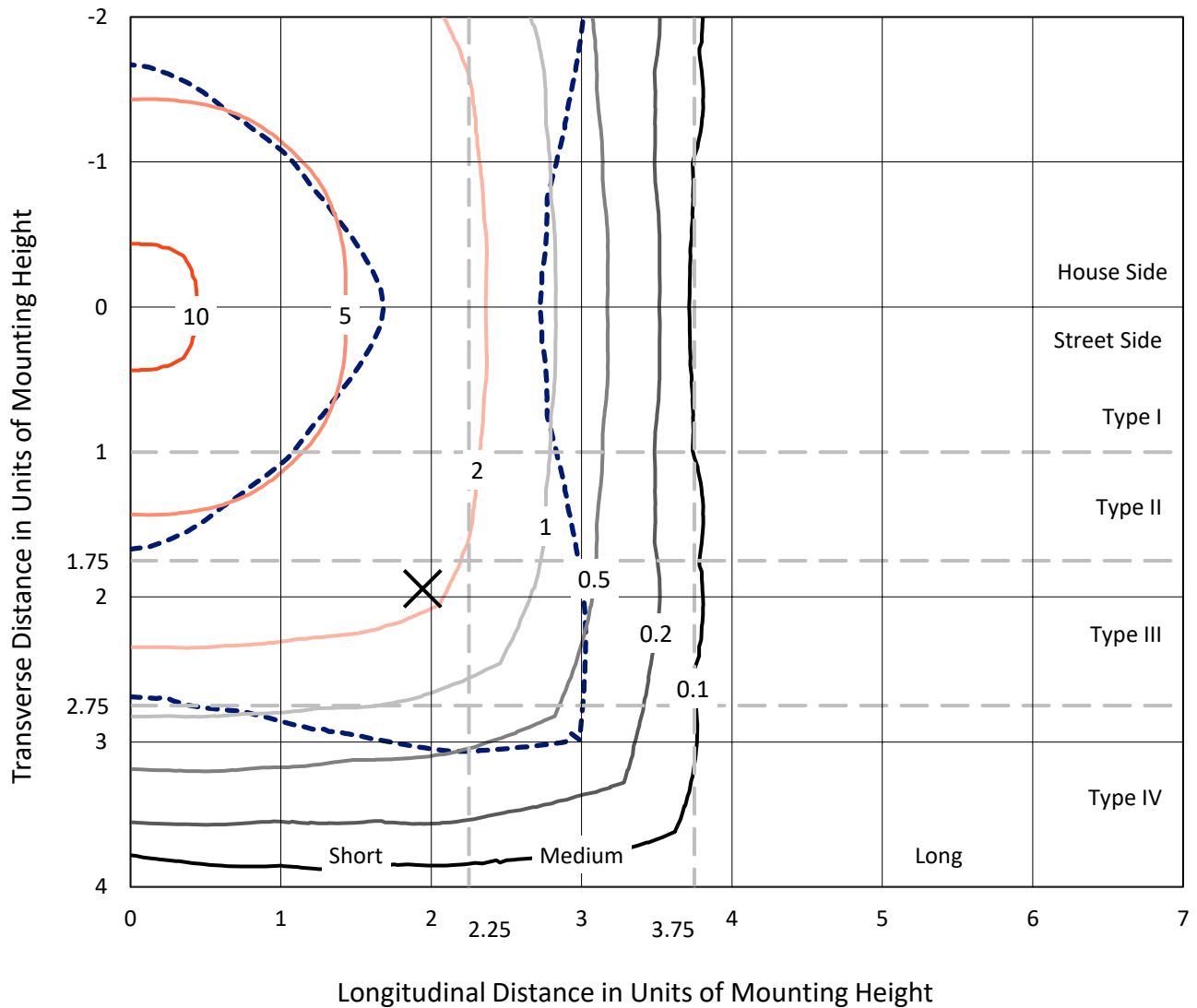
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

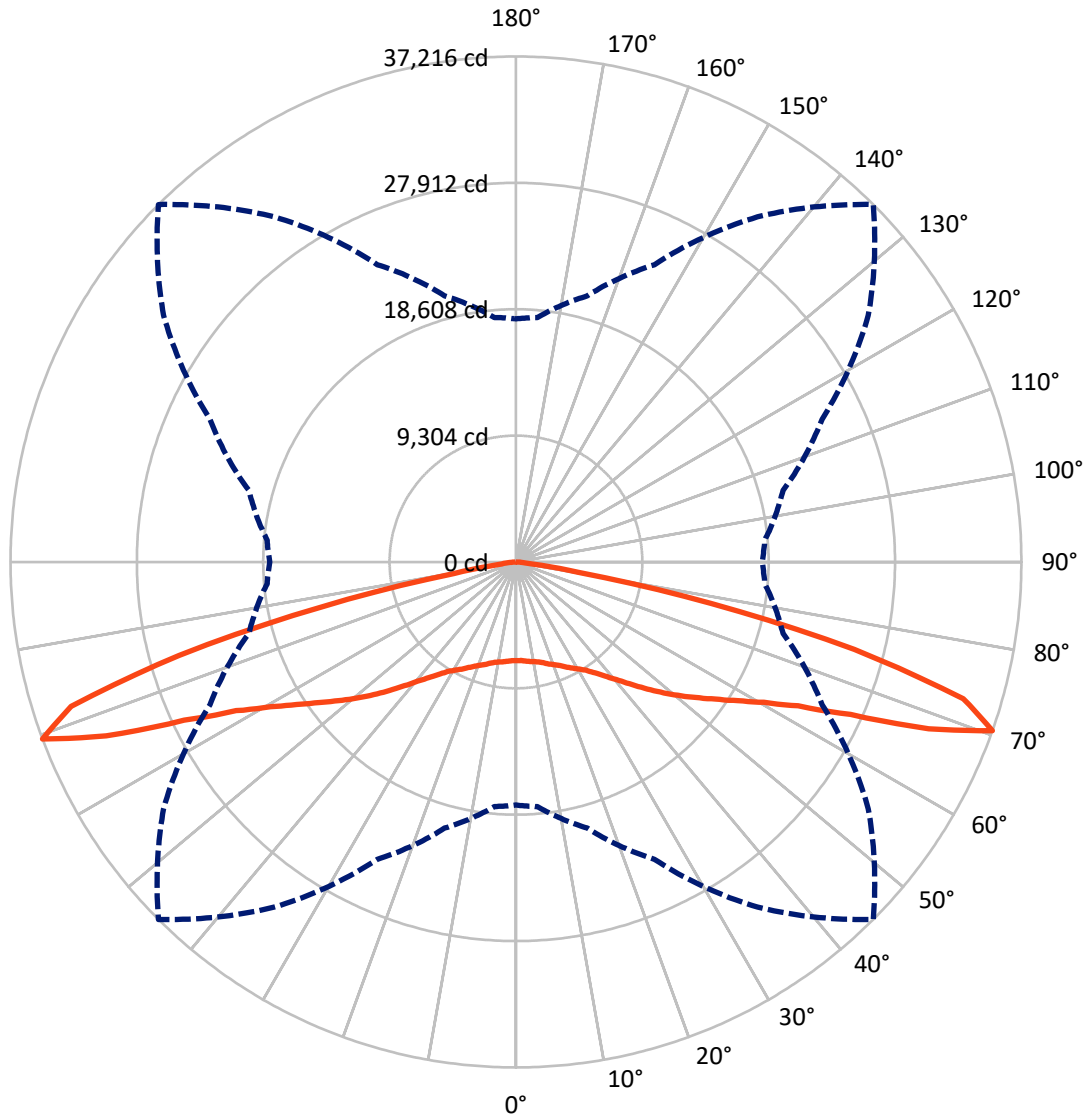
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	37894.5	0.0	37894.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	37894.5	0.0	37894.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	75789.0	0.0	75789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.3	0.9
10°-20°	2187.0	2.9
20°-30°	3908.5	5.2
30°-40°	6335.6	8.4
40°-50°	10319.6	13.6
50°-60°	15733.9	20.8
60°-70°	23407.1	30.9
70°-80°	12757.6	16.8
80°-90°	434.4	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°	75789.0	100.0
0°-180°	75789.0	100.0

Coefficient of Utilization



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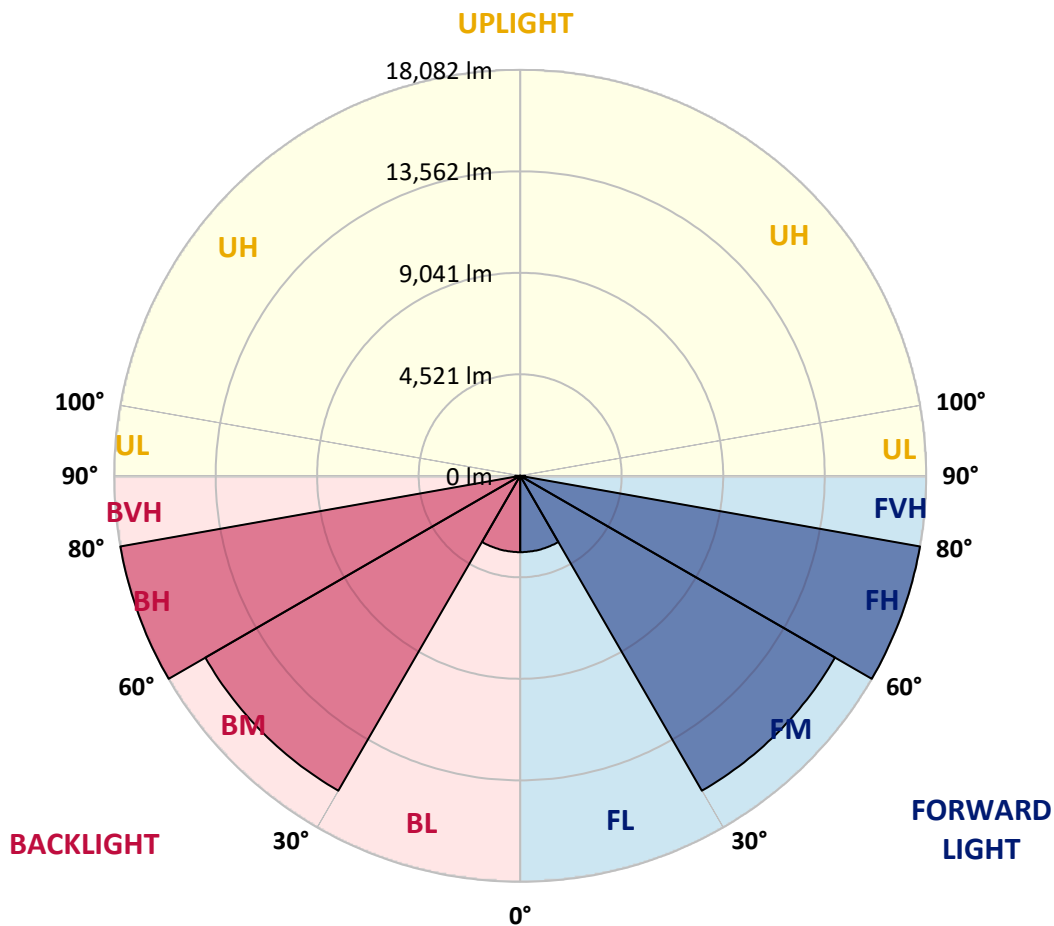
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3400.4	4.5			
FM (30°-60°)	16194.6	21.4			
FH (60°-80°)	18082.3	23.9			G5
FVH (80°-90°)	217.2	0.3			G2/225
BL (0°-30°)	3400.4	4.5	B4/5000		
BM (30°-60°)	16194.6	21.4	B5		
BH (60°-80°)	18082.3	23.9	B5		G5
BVH (80°-90°)	217.2	0.3			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°	7259.8	7259.8	7259.8	7259.8	7259.8	7259.8	7259.8	7259.8	7259.8	7259.8
2.5°	7294.0	7301.7	7286.4	7278.8	7271.2	7259.8	7263.6	7282.6	7297.9	7294.0
5°	7354.9	7362.5	7351.1	7347.3	7332.1	7328.3	7328.3	7347.3	7358.7	7351.1
7.5°	7423.4	7434.8	7415.8	7412.0	7404.4	7396.8	7393.0	7412.0	7423.4	7423.4
10°	7488.1	7499.5	7484.3	7472.9	7465.3	7465.3	7457.7	7472.9	7491.9	7488.1
12.5°	7556.6	7564.2	7549.0	7541.4	7541.4	7552.8	7541.4	7549.0	7564.2	7556.6
15°	7640.3	7644.1	7640.3	7651.7	7670.7	7708.8	7674.5	7666.9	7674.5	7655.5
17.5°	7754.4	7762.1	7777.3	7803.9	7830.5	7899.0	7838.2	7819.1	7819.1	7781.1
20°	7895.2	7906.6	7929.5	7975.1	8009.4	8074.1	8013.2	7986.5	7975.1	7925.7
22.5°	8043.6	8062.6	8096.9	8157.8	8218.6	8279.5	8218.6	8173.0	8138.7	8074.1
25°	8214.8	8237.7	8290.9	8389.9	8473.6	8561.1	8488.8	8397.5	8329.0	8237.7
27.5°	8458.4	8485.0	8549.7	8671.4	8778.0	8854.1	8785.6	8667.6	8572.5	8462.2
30°	8800.8	8827.4	8903.5	9032.9	9105.2	9154.7	9109.0	9017.7	8903.5	8778.0
32.5°	9242.2	9276.4	9360.1	9481.9	9497.1	9504.7	9489.5	9443.8	9360.1	9207.9
35°	9801.5	9839.5	9934.7	10033.6	10018.4	10033.6	10010.8	9995.5	9934.7	9759.6
37.5°	10486.4	10532.0	10631.0	10707.1	10669.0	10650.0	10653.8	10657.6	10623.4	10429.3
40°	11281.6	11342.5	11414.8	11494.7	11430.0	11372.9	11411.0	11441.4	11411.0	11213.1
42.5°	12099.7	12187.2	12263.3	12377.4	12324.2	12251.9	12305.1	12339.4	12274.7	12061.6
45°	13009.0	13092.8	13191.7	13362.9	13324.9	13248.8	13324.9	13332.5	13222.1	12971.0
47.5°	13948.9	14036.4	14184.8	14413.1	14397.8	14314.1	14413.1	14359.8	14219.0	13918.4
50°	14839.2	14961.0	15189.3	15508.9	15539.3	15436.6	15569.8	15467.0	15231.1	14854.4
52.5°	15676.3	15805.7	16167.1	16600.9	16711.2	16578.1	16756.9	16578.1	16224.2	15741.0
55°	16555.2	16699.8	17129.8	17696.7	17917.4	17818.5	17985.9	17715.7	17213.5	16627.5
57.5°	17590.2	17677.7	18191.4	18864.8	19237.7	19260.5	19336.6	18880.1	18271.3	17605.4
60°	18712.6	18834.4	19393.7	20200.4	20790.1	20980.4	20900.5	20223.2	19515.5	18750.7
62.5°	20150.9	20284.1	20953.7	21920.2	22852.4	23324.2	23012.2	22030.5	21155.4	20238.4
65°	21341.8	21490.2	22700.2	24423.8	26120.8	27068.3	26284.4	24477.1	22901.9	21608.2
67.5°	20478.1	20660.8	22559.4	25725.1	29944.8	32771.8	30089.4	26113.2	23027.4	21273.4
70°	17898.4	18069.6	20284.1	24153.7	31021.6	37216.0	31668.4	24865.2	20356.4	18393.0
72.5°	11882.8	12434.5	14675.6	19317.6	27699.9	34438.4	27973.8	18925.7	13614.0	11856.2
75°	3941.9	4383.3	5912.9	10014.6	18552.8	25755.6	17662.5	8861.7	4683.9	3371.2
77.5°	993.1	1145.3	1579.0	2865.1	7400.6	14664.2	6662.4	2340.0	1274.7	890.4
80°	483.2	532.7	761.0	955.0	1853.0	4661.0	1738.9	898.0	601.2	464.2
82.5°	266.3	270.1	430.0	540.3	688.7	1206.2	715.3	525.1	346.2	281.6
85°	163.6	159.8	228.3	289.2	289.2	430.0	342.4	289.2	197.9	175.0
87.5°	64.7	64.7	83.7	91.3	79.9	110.3	87.5	95.1	76.1	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7259.8
7297.9
7354.9
7423.4
7488.1
7552.8
7655.5
7781.1
7925.7
8070.3
8233.9
8458.4
8778.0
9211.7
9759.6
10429.3
11213.1
12076.8
12997.6
13899.4
14846.8
15695.3
16547.6
17514.1
18628.9
20078.6
21395.1
21010.8
18130.5
11471.9
3188.5
795.2
426.2
281.6
182.6
76.1
0.0

OF REPORT)