

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: P957409

Luminaire Tested: **GALN-SB9D-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957409
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-SB9D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 102694 lumens
Efficiency: N/A
Efficacy: 156.1 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

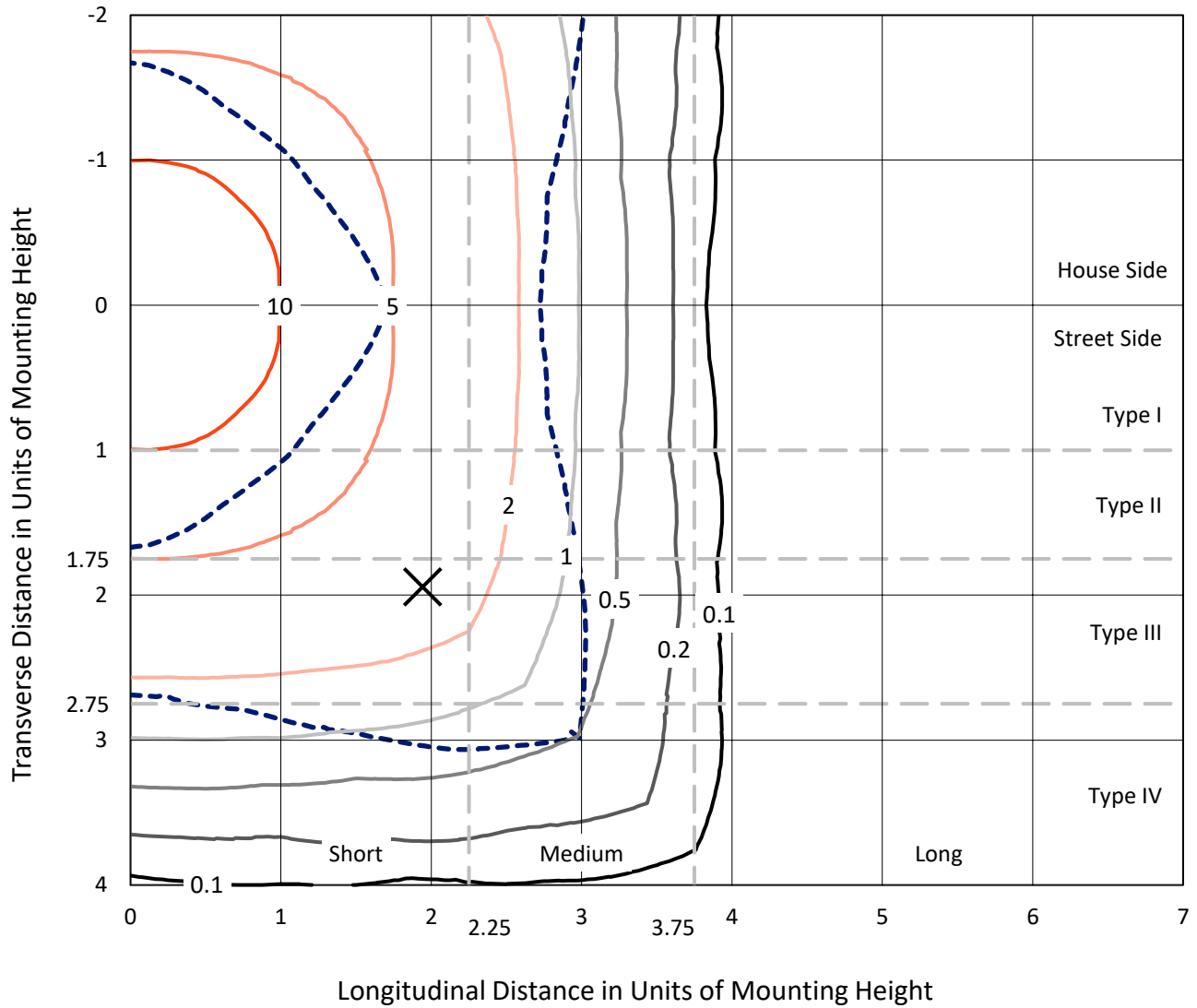
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

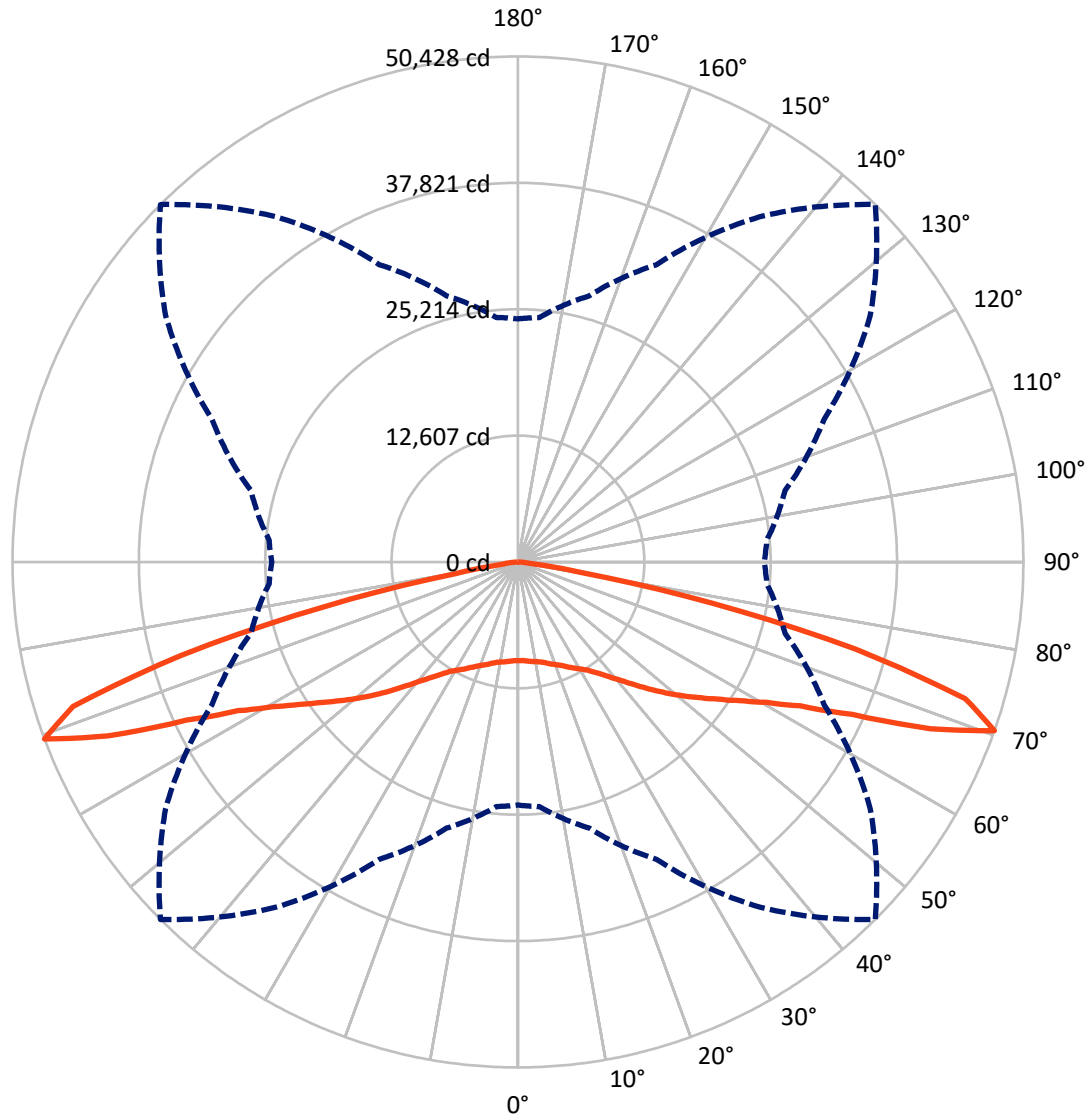
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	51347.0	0.0	51347.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	51347.0	0.0	51347.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	102694.0	0.0	102694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.7	0.9
10°-20°	2963.4	2.9
20°-30°	5296.0	5.2
30°-40°	8584.7	8.4
40°-50°	13983.1	13.6
50°-60°	21319.4	20.8
60°-70°	31716.5	30.9
70°-80°	17286.5	16.8
80°-90°	588.7	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°	102694.0	100.0
0°-180°	102694.0	100.0



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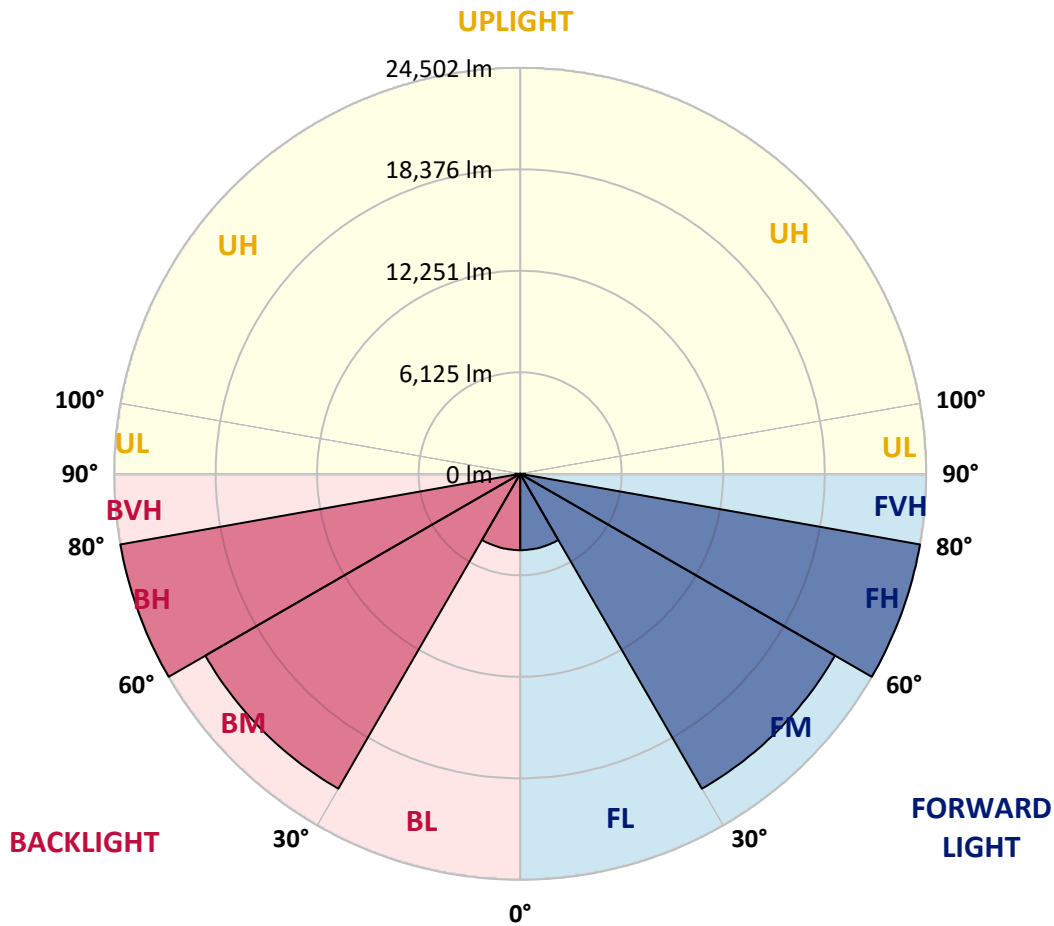
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4607.5	4.5			
FM (30°-60°)	21943.6	21.4			
FH (60°-80°)	24501.5	23.9			G5
FVH (80°-90°)	294.3	0.3			G3/500
BL (0°-30°)	4607.5	4.5	B4/5000		
BM (30°-60°)	21943.6	21.4	B5		
BH (60°-80°)	24501.5	23.9	B5		G5
BVH (80°-90°)	294.3	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°	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0
2.5°	9883.4	9893.7	9873.1	9862.8	9852.5	9837.0	9842.2	9868.0	9888.6	9883.4
5°	9965.9	9976.2	9960.8	9955.6	9935.0	9929.8	9929.8	9955.6	9971.1	9960.8
7.5°	10058.7	10074.2	10048.4	10043.2	10032.9	10022.6	10017.5	10043.2	10058.7	10058.7
10°	10146.4	10161.8	10141.2	10125.7	10115.4	10115.4	10105.1	10125.7	10151.5	10146.4
12.5°	10239.2	10249.5	10228.9	10218.5	10218.5	10234.0	10218.5	10228.9	10249.5	10239.2
15°	10352.6	10357.7	10352.6	10368.1	10393.8	10445.4	10399.0	10388.7	10399.0	10373.2
17.5°	10507.3	10517.6	10538.2	10574.3	10610.4	10703.2	10620.7	10594.9	10594.9	10543.3
20°	10698.0	10713.5	10744.4	10806.3	10852.7	10940.3	10857.8	10821.8	10806.3	10739.3
22.5°	10899.1	10924.9	10971.3	11053.8	11136.3	11218.7	11136.3	11074.4	11028.0	10940.3
25°	11131.1	11162.0	11234.2	11368.3	11481.7	11600.3	11502.3	11378.6	11285.8	11162.0
27.5°	11461.1	11497.1	11584.8	11749.8	11894.1	11997.2	11904.4	11744.6	11615.7	11466.2
30°	11925.1	11961.2	12064.3	12239.6	12337.5	12404.5	12342.7	12218.9	12064.3	11894.1
32.5°	12523.1	12569.5	12683.0	12847.9	12868.6	12878.9	12858.2	12796.4	12683.0	12476.7
35°	13281.0	13332.6	13461.5	13595.5	13574.9	13595.5	13564.6	13544.0	13461.5	13224.3
37.5°	14209.0	14270.9	14404.9	14508.1	14456.5	14430.7	14435.9	14441.0	14394.6	14131.7
40°	15286.6	15369.1	15467.0	15575.3	15487.6	15410.3	15461.9	15503.1	15461.9	15193.8
42.5°	16395.0	16513.6	16616.7	16771.4	16699.2	16601.3	16673.4	16719.8	16632.2	16343.5
45°	17627.2	17740.7	17874.7	18106.7	18055.2	17952.1	18055.2	18065.5	17916.0	17575.7
47.5°	18900.7	19019.3	19220.3	19529.7	19509.1	19395.6	19529.7	19457.5	19266.7	18859.4
50°	20107.1	20272.1	20581.4	21014.5	21055.8	20916.6	21097.0	20957.8	20638.2	20127.7
52.5°	21241.4	21416.7	21906.5	22494.2	22643.7	22463.3	22705.6	22463.3	21983.8	21329.0
55°	22432.3	22628.2	23210.8	23979.0	24278.1	24144.0	24370.9	24004.8	23324.3	22530.3
57.5°	23834.7	23953.3	24649.3	25561.8	26067.1	26098.0	26201.1	25582.4	24757.5	23855.3
60°	25355.6	25520.6	26278.5	27371.5	28170.6	28428.4	28320.1	27402.4	26443.4	25407.2
62.5°	27304.4	27484.9	28392.3	29701.8	30965.0	31604.3	31181.5	29851.3	28665.5	27423.0
65°	28918.2	29119.2	30758.7	33094.3	35393.7	36677.5	35615.4	33166.4	31032.0	29279.1
67.5°	27747.8	27995.3	30568.0	34857.5	40575.1	44405.8	40771.1	35383.4	31202.1	28825.4
70°	24252.3	24484.3	27484.9	32728.2	42034.2	50427.6	42910.7	33692.3	27582.8	24922.5
72.5°	16101.2	16848.7	19885.4	26175.3	37533.3	46664.0	37904.5	25644.3	18447.0	16065.1
75°	5341.3	5939.3	8011.9	13569.7	25139.1	34898.7	23932.6	12007.6	6346.6	4567.9
77.5°	1345.6	1551.9	2139.6	3882.2	10027.8	19870.0	9027.6	3170.7	1727.2	1206.4
80°	654.8	721.8	1031.1	1294.1	2510.8	6315.7	2356.1	1216.7	814.6	629.0
82.5°	360.9	366.1	582.6	732.1	933.2	1634.3	969.3	711.5	469.2	381.5
85°	221.7	216.5	309.3	391.8	391.8	582.6	464.0	391.8	268.1	237.2
87.5°	87.6	87.6	113.4	123.7	108.3	149.5	118.6	128.9	103.1	98.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
9837.0
9888.6
9965.9
10058.7
10146.4
10234.0
10373.2
10543.3
10739.3
10935.2
11156.9
11461.1
11894.1
12481.9
13224.3
14131.7
15193.8
16364.1
17611.8
18833.7
20117.4
21267.1
22422.0
23731.6
25242.2
27206.5
28990.3
28469.6
24566.8
15544.4
4320.5
1077.5
577.4
381.5
247.5
103.1
0.0

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