

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: P954889

Luminaire Tested: **GALN-SB8A-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954889
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-SB8A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37987 lumens
Efficiency: N/A
Efficacy: 167.3 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

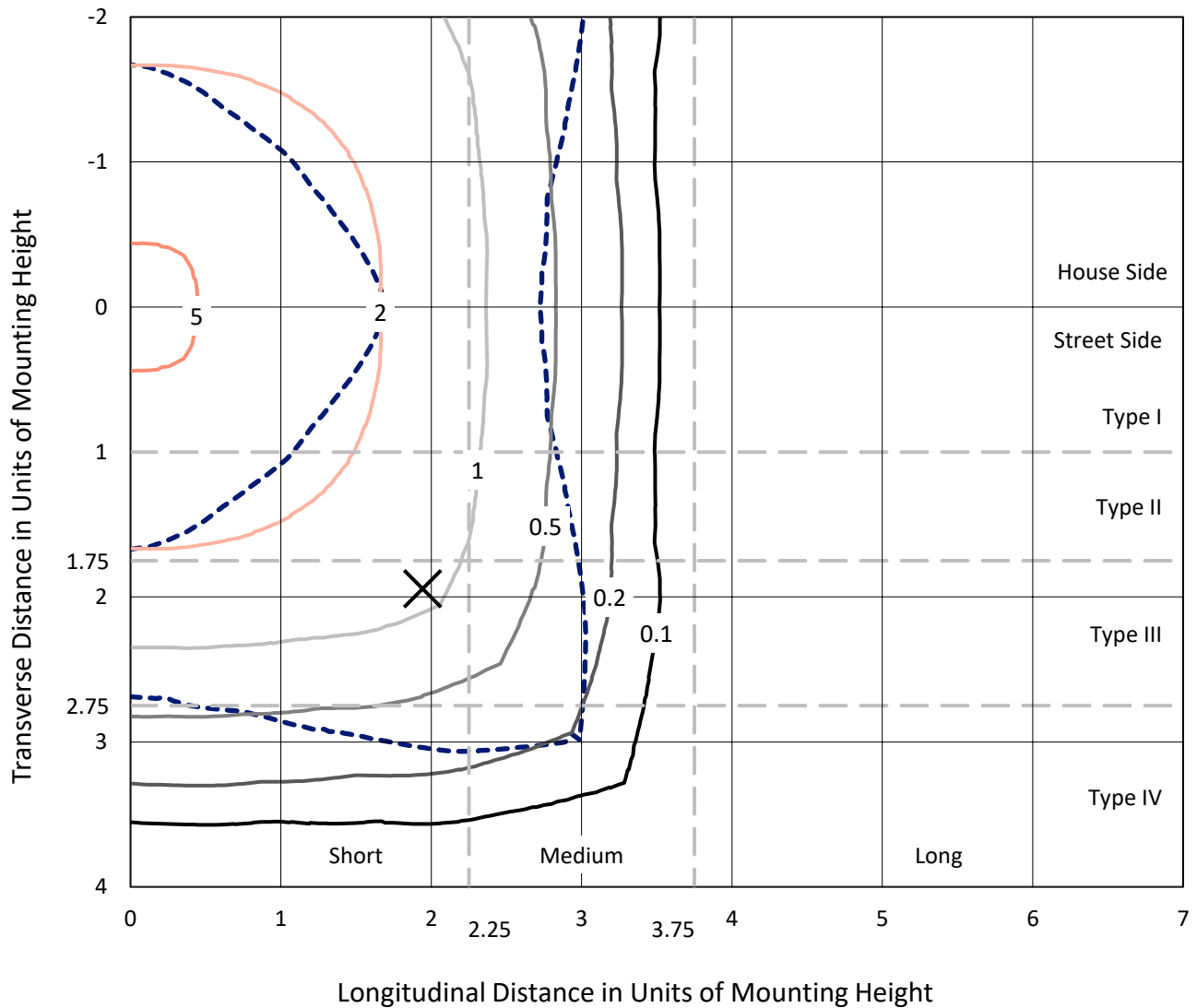
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954889
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Iso-Footcandle Lines of Horizontal Illumination

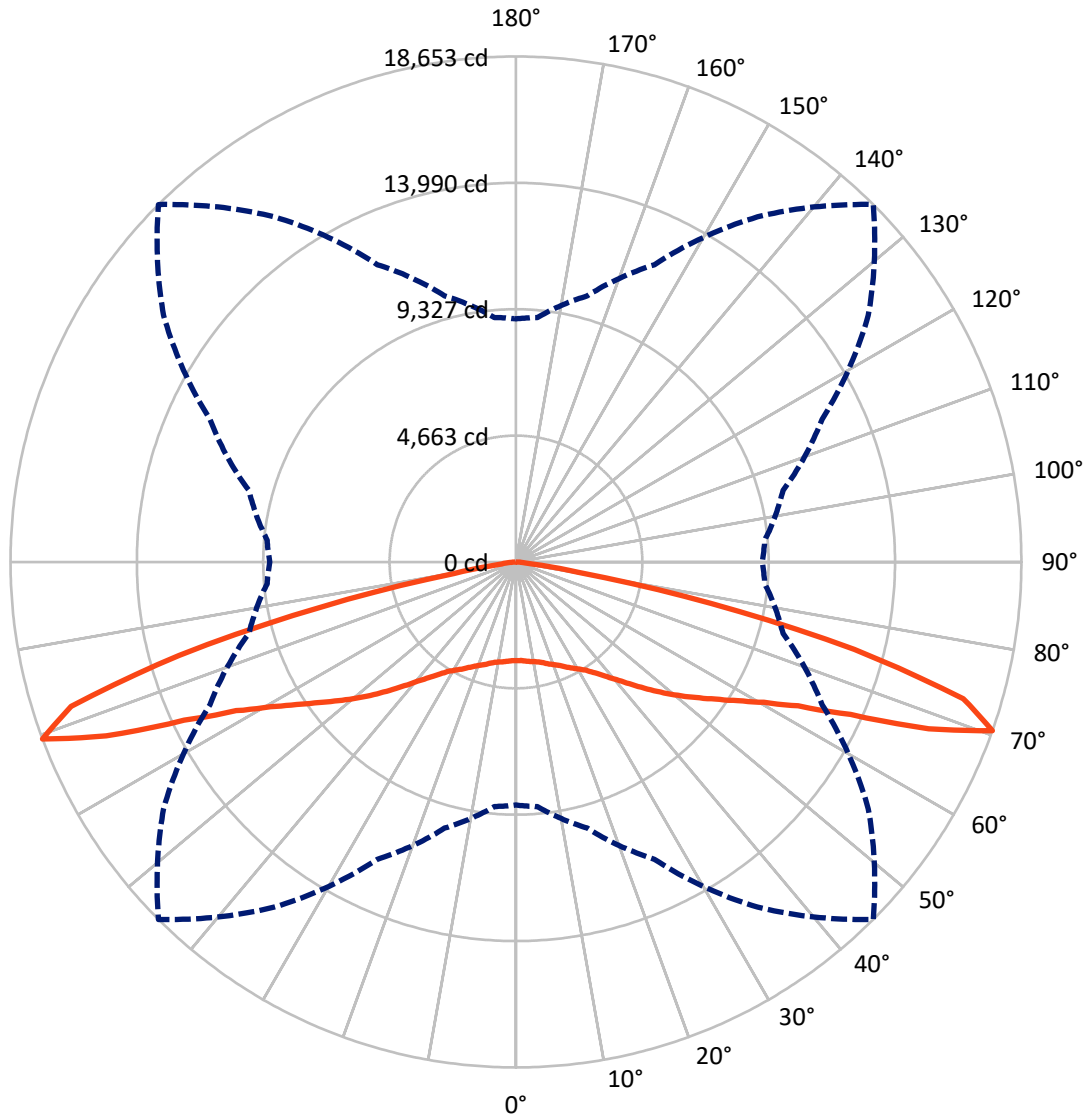
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

REPORT NUMBER: P954889
CATALOG NUMBER: GALN-SB8A-735-U-5MQ

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	18993.5	0.0	18993.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18993.5	0.0	18993.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37987.0	0.0	37987.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	0.9
10°-20°	1096.2	2.9
20°-30°	1959.0	5.2
30°-40°	3175.5	8.4
40°-50°	5172.4	13.6
50°-60°	7886.2	20.8
60°-70°	11732.1	30.9
70°-80°	6394.4	16.8
80°-90°	217.7	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°	37987.0	100.0
0°-180°	37987.0	100.0



REPORT NUMBER: P954889

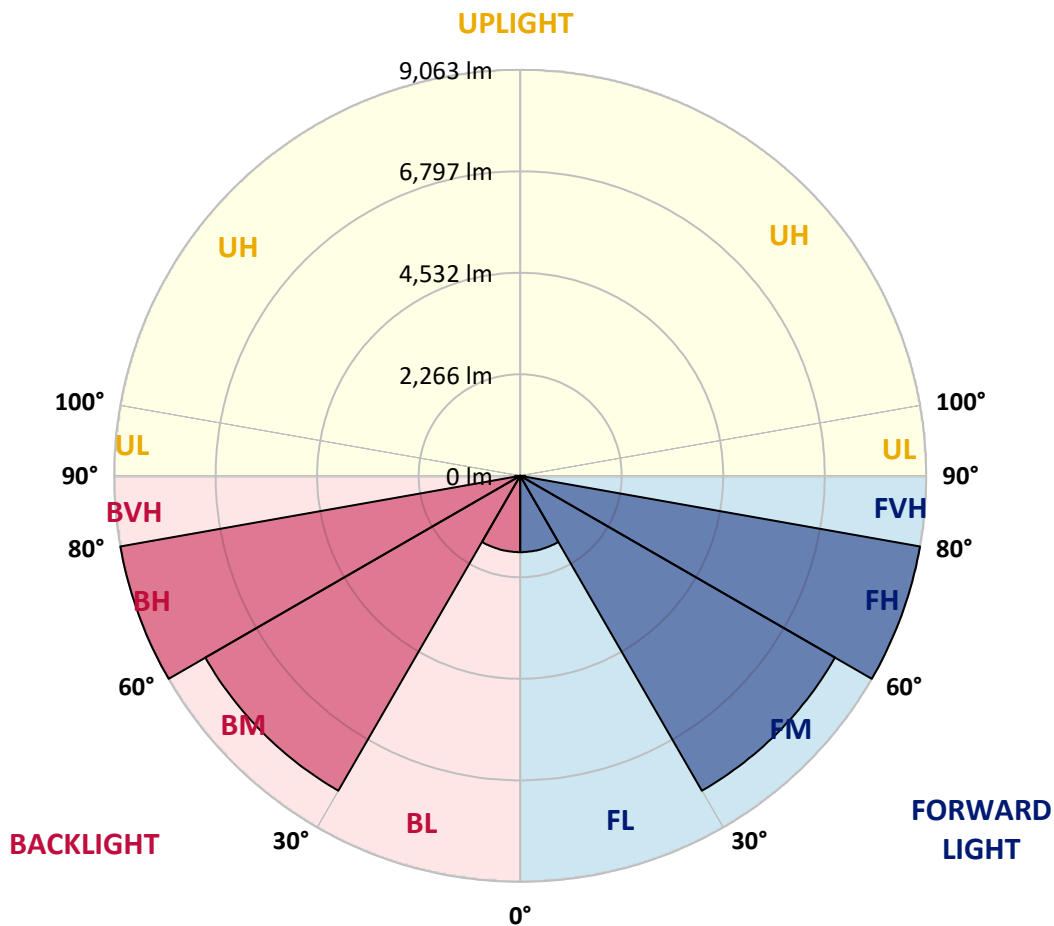
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1704.3	4.5			
FM (30°-60°)	8117.0	21.4			
FH (60°-80°)	9063.2	23.9			G4/12000
FVH (80°-90°)	108.9	0.3			G2/225
BL (0°-30°)	1704.3	4.5	B3/2500		
BM (30°-60°)	8117.0	21.4	B4/8500		
BH (60°-80°)	9063.2	23.9	B5		G4/12000
BVH (80°-90°)	108.9	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3638.8	3638.8	3638.8	3638.8	3638.8	3638.8	3638.8	3638.8	3638.8	3638.8
2.5°	3655.9	3659.7	3652.1	3648.3	3644.5	3638.8	3640.7	3650.2	3657.8	3655.9
5°	3686.4	3690.3	3684.5	3682.6	3675.0	3673.1	3673.1	3682.6	3688.3	3684.5
7.5°	3720.8	3726.5	3717.0	3715.0	3711.2	3707.4	3705.5	3715.0	3720.8	3720.8
10°	3753.2	3758.9	3751.3	3745.6	3741.7	3741.7	3737.9	3745.6	3755.1	3753.2
12.5°	3787.5	3791.3	3783.7	3779.9	3779.9	3785.6	3779.9	3783.7	3791.3	3787.5
15°	3829.5	3831.4	3829.5	3835.2	3844.7	3863.8	3846.6	3842.8	3846.6	3837.1
17.5°	3886.7	3890.5	3898.1	3911.5	3924.8	3959.2	3928.6	3919.1	3919.1	3900.0
20°	3957.2	3963.0	3974.4	3997.3	4014.5	4046.9	4016.4	4003.0	3997.3	3972.5
22.5°	4031.6	4041.2	4058.3	4088.8	4119.4	4149.9	4119.4	4096.5	4079.3	4046.9
25°	4117.4	4128.9	4155.6	4205.2	4247.1	4291.0	4254.8	4209.0	4174.7	4128.9
27.5°	4239.5	4252.9	4285.3	4346.3	4399.7	4437.8	4403.5	4344.4	4296.7	4241.4
30°	4411.1	4424.5	4462.6	4527.5	4563.7	4588.5	4565.6	4519.8	4462.6	4399.7
32.5°	4632.4	4649.5	4691.5	4752.5	4760.1	4764.0	4756.3	4733.4	4691.5	4615.2
35°	4912.7	4931.8	4979.5	5029.0	5021.4	5029.0	5017.6	5010.0	4979.5	4891.7
37.5°	5256.0	5278.9	5328.5	5366.6	5347.5	5338.0	5339.9	5341.8	5324.6	5227.4
40°	5654.6	5685.1	5721.3	5761.4	5729.0	5700.3	5719.4	5734.7	5719.4	5620.2
42.5°	6064.6	6108.5	6146.6	6203.8	6177.1	6140.9	6167.6	6184.8	6152.3	6045.5
45°	6520.4	6562.4	6611.9	6697.8	6678.7	6640.5	6678.7	6682.5	6627.2	6501.3
47.5°	6991.5	7035.3	7109.7	7224.1	7216.5	7174.5	7224.1	7197.4	7126.9	6976.2
50°	7437.7	7498.7	7613.2	7773.4	7788.6	7737.1	7803.9	7752.4	7634.2	7445.3
52.5°	7857.3	7922.1	8103.3	8320.7	8376.0	8309.3	8398.9	8309.3	8131.9	7889.7
55°	8297.8	8370.3	8585.8	8870.0	8980.6	8931.0	9014.9	8879.5	8627.8	8334.1
57.5°	8816.6	8860.4	9117.9	9455.4	9642.3	9653.8	9691.9	9463.1	9157.9	8824.2
60°	9379.2	9440.2	9720.5	10124.8	10420.4	10515.8	10475.7	10136.3	9781.6	9398.2
62.5°	10100.0	10166.8	10502.4	10986.8	11454.1	11690.6	11534.2	11042.2	10603.5	10143.9
65°	10697.0	10771.3	11377.8	12241.7	13092.3	13567.2	13174.3	12268.4	11478.9	10830.5
67.5°	10264.1	10355.6	11307.2	12894.0	15008.9	16425.9	15081.4	13088.5	11541.8	10662.6
70°	8971.0	9056.9	10166.8	12106.3	15548.6	18653.4	15872.9	12462.9	10203.0	9219.0
72.5°	5955.9	6232.4	7355.7	9682.4	13883.7	17261.2	14021.1	9486.0	6823.6	5942.5
75°	1975.8	2197.0	2963.6	5019.5	9299.1	12909.2	8852.8	4441.7	2347.6	1689.7
77.5°	497.8	574.0	791.4	1436.1	3709.3	7350.0	3339.3	1172.9	638.9	446.3
80°	242.2	267.0	381.4	478.7	928.8	2336.2	871.5	450.1	301.3	232.7
82.5°	133.5	135.4	215.5	270.8	345.2	604.6	358.5	263.2	173.5	141.1
85°	82.0	80.1	114.4	144.9	144.9	215.5	171.6	144.9	99.2	87.7
87.5°	32.4	32.4	42.0	45.8	40.0	55.3	43.9	47.7	38.1	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3638.8
3657.8
3686.4
3720.8
3753.2
3785.6
3837.1
3900.0
3972.5
4045.0
4127.0
4239.5
4399.7
4617.1
4891.7
5227.4
5620.2
6053.2
6514.7
6966.7
7441.5
7866.8
8294.0
8778.4
9337.2
10063.8
10723.7
10531.0
9087.4
5749.9
1598.2
398.6
213.6
141.1
91.5
38.1
0.0

OF REPORT)