

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: P953419

Luminaire Tested: **GALN-SB7A-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953419
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-SB7A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30988 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 199.1
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

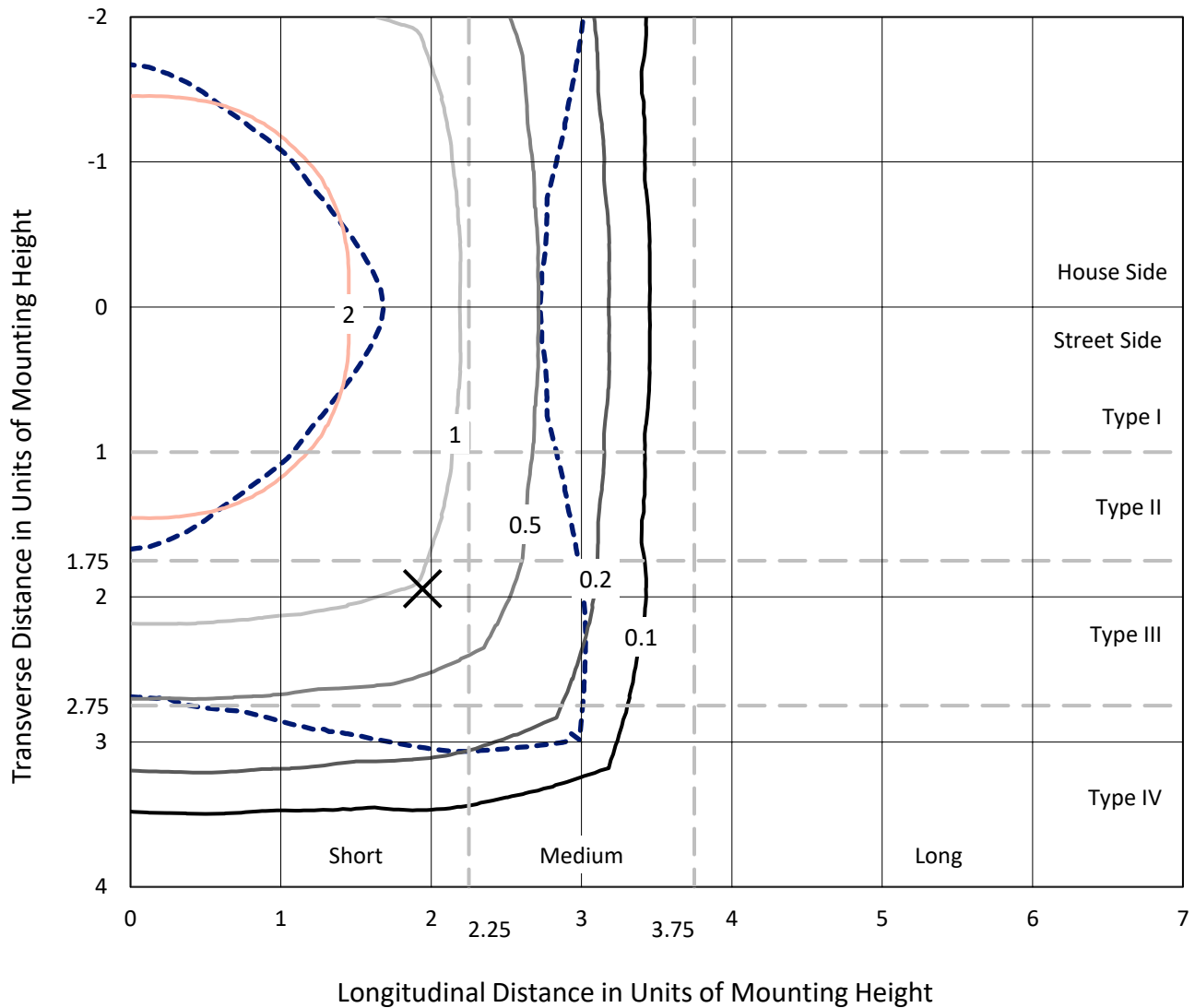


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

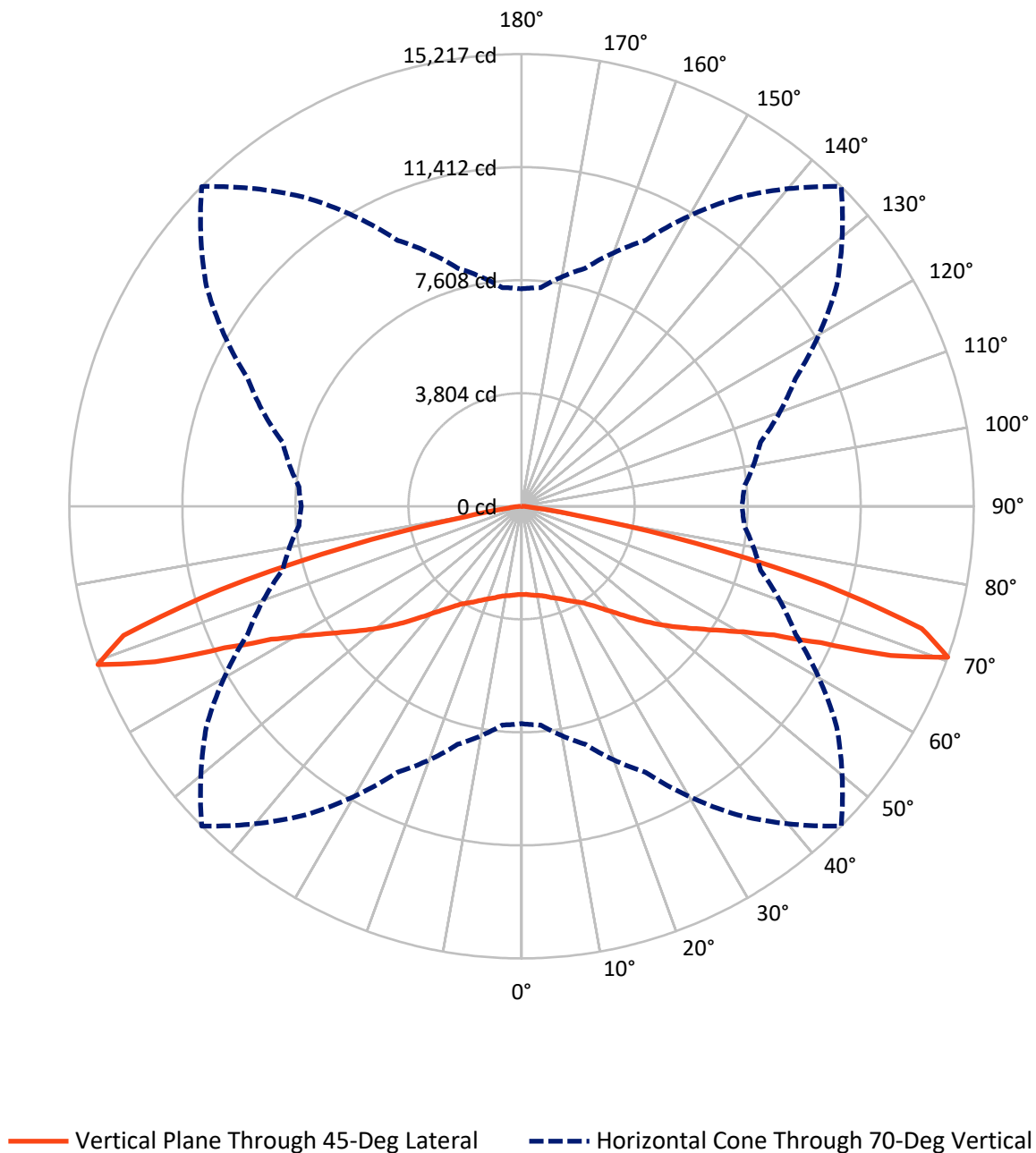


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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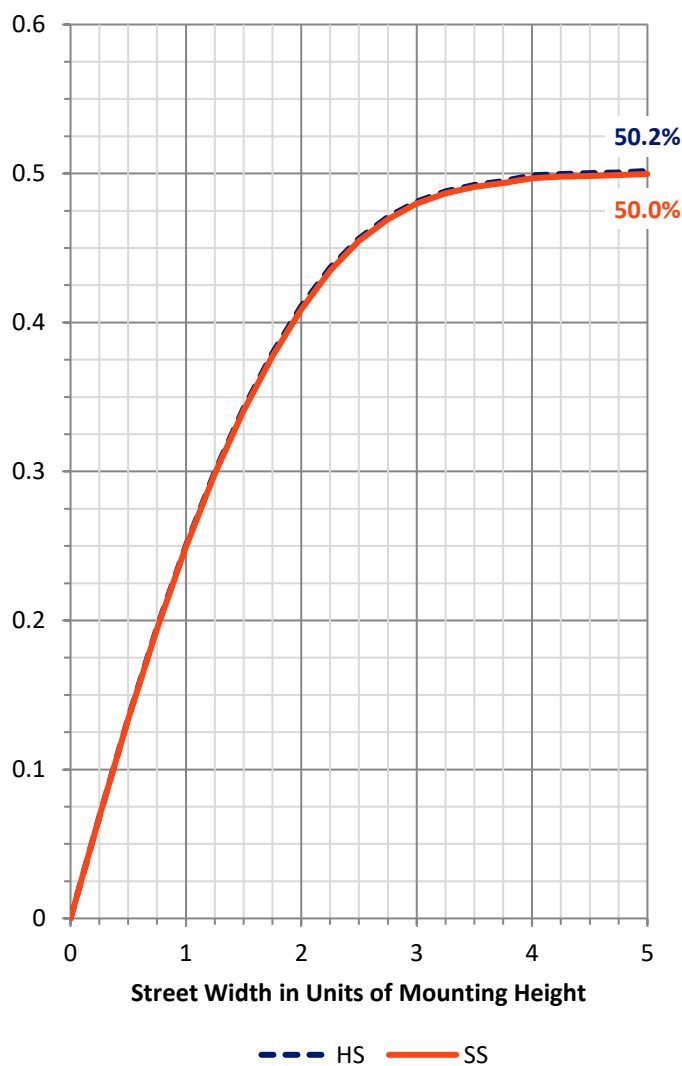
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15494.0	0.0	15494.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15494.0	0.0	15494.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30988.0	0.0	30988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	0.9
10°-20°	894.2	2.9
20°-30°	1598.1	5.2
30°-40°	2590.4	8.4
40°-50°	4219.4	13.6
50°-60°	6433.2	20.8
60°-70°	9570.5	30.9
70°-80°	5216.2	16.8
80°-90°	177.6	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°	30988.0	100.0
0°-180°	30988.0	100.0

Coefficient of Utilization



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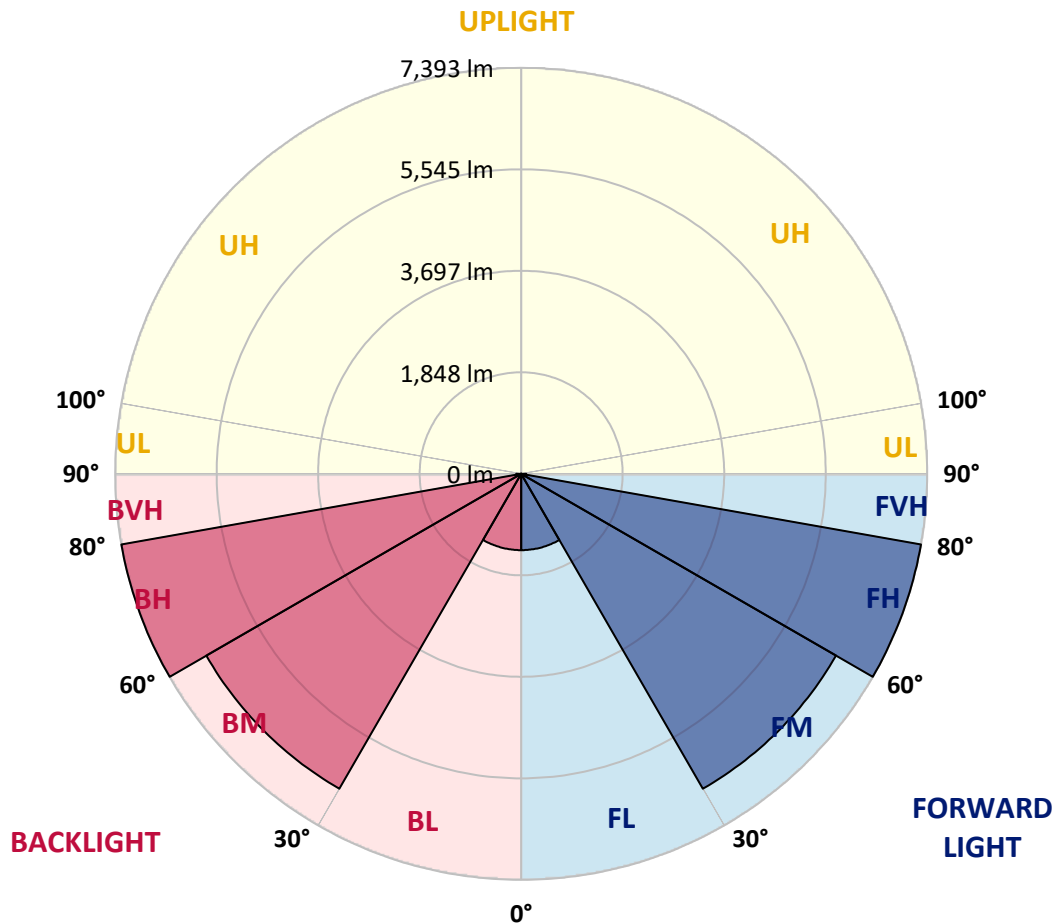
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1390.3	4.5			
FM	(30°-60°)	6621.5	21.4			
FH	(60°-80°)	7393.4	23.9			G3/7500
FVH	(80°-90°)	88.8	0.3			G1/100
BL	(0°-30°)	1390.3	4.5	B3/2500		
BM	(30°-60°)	6621.5	21.4	B4/8500		
BH	(60°-80°)	7393.4	23.9	B5		G3/7500
BVH	(80°-90°)	88.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3
2.5°	2982.3	2985.4	2979.2	2976.1	2973.0	2968.3	2969.9	2977.7	2983.9	2982.3	2983.9
5°	3007.2	3010.3	3005.7	3004.1	2997.9	2996.3	2996.3	3004.1	3008.8	3005.7	3007.2
7.5°	3035.2	3039.9	3032.1	3030.6	3027.4	3024.3	3022.8	3030.6	3035.2	3035.2	3035.2
10°	3061.7	3066.3	3060.1	3055.5	3052.3	3052.3	3049.2	3055.5	3063.2	3061.7	3061.7
12.5°	3089.7	3092.8	3086.6	3083.5	3083.5	3088.1	3083.5	3086.6	3092.8	3089.7	3088.1
15°	3123.9	3125.5	3123.9	3128.6	3136.3	3151.9	3137.9	3134.8	3137.9	3130.1	3130.1
17.5°	3170.6	3173.7	3179.9	3190.8	3201.7	3229.7	3204.8	3197.0	3197.0	3181.5	3181.5
20°	3228.1	3232.8	3242.1	3260.8	3274.8	3301.3	3276.4	3265.5	3260.8	3240.6	3240.6
22.5°	3288.8	3296.6	3310.6	3335.5	3360.4	3385.3	3360.4	3341.7	3327.7	3301.3	3299.7
25°	3358.8	3368.2	3389.9	3430.4	3464.6	3500.4	3470.8	3433.5	3405.5	3368.2	3366.6
27.5°	3458.4	3469.3	3495.7	3545.5	3589.1	3620.2	3592.2	3543.9	3505.1	3459.9	3458.4
30°	3598.4	3609.3	3640.4	3693.3	3722.9	3743.1	3724.4	3687.1	3640.4	3589.1	3589.1
32.5°	3778.9	3792.9	3827.1	3876.9	3883.1	3886.2	3880.0	3861.3	3827.1	3764.9	3766.4
35°	4007.6	4023.1	4062.0	4102.5	4096.2	4102.5	4093.1	4086.9	4062.0	3990.4	3990.4
37.5°	4287.6	4306.3	4346.7	4377.8	4362.3	4354.5	4356.0	4357.6	4343.6	4264.3	4264.3
40°	4612.7	4637.6	4667.2	4699.9	4673.4	4650.1	4665.6	4678.1	4665.6	4584.7	4584.7
42.5°	4947.2	4983.0	5014.1	5060.8	5039.0	5009.4	5031.2	5045.2	5018.8	4931.7	4937.9
45°	5319.0	5353.3	5393.7	5463.7	5448.2	5417.0	5448.2	5451.3	5406.2	5303.5	5314.4
47.5°	5703.3	5739.1	5799.8	5893.1	5886.9	5852.7	5893.1	5871.3	5813.8	5690.9	5683.1
50°	6067.3	6117.1	6210.5	6341.1	6353.6	6311.6	6366.0	6324.0	6227.6	6073.6	6070.5
52.5°	6409.6	6462.5	6610.3	6787.6	6832.8	6778.3	6851.4	6778.3	6633.6	6436.0	6417.4
55°	6769.0	6828.1	7003.9	7235.7	7325.9	7285.5	7353.9	7243.5	7038.1	6798.5	6765.9
57.5°	7192.1	7227.9	7437.9	7713.3	7865.8	7875.1	7906.2	7719.5	7470.6	7198.4	7161.0
60°	7651.1	7700.9	7929.5	8259.4	8500.5	8578.3	8545.6	8268.7	7979.3	7666.6	7616.8
62.5°	8239.1	8293.6	8567.4	8962.6	9343.7	9536.6	9409.0	9007.7	8649.8	8274.9	8209.6
65°	8726.1	8786.8	9281.5	9986.2	10680.1	11067.5	10747.0	10008.0	9363.9	8835.0	8747.9
67.5°	8372.9	8447.6	9223.9	10518.3	12243.6	13399.5	12302.7	10677.0	9415.3	8698.1	8590.7
70°	7318.1	7388.2	8293.6	9875.8	12683.9	15216.6	12948.3	10166.7	8323.1	7520.4	7413.0
72.5°	4858.5	5084.1	6000.4	7898.4	11325.7	14080.9	11437.7	7738.2	5566.4	4847.6	4690.5
75°	1611.7	1792.2	2417.6	4094.7	7585.7	10530.7	7221.7	3623.3	1915.1	1378.4	1303.7
77.5°	406.0	468.3	645.6	1171.5	3025.9	5995.8	2724.1	956.8	521.2	364.0	325.1
80°	197.6	217.8	311.1	390.5	757.6	1905.8	711.0	367.2	245.8	189.8	174.2
82.5°	108.9	110.5	175.8	220.9	281.6	493.2	292.5	214.7	141.6	115.1	115.1
85°	66.9	65.3	93.3	118.2	118.2	175.8	140.0	118.2	80.9	71.6	74.7
87.5°	26.4	26.4	34.2	37.3	32.7	45.1	35.8	38.9	31.1	29.6	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)