

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: P943480

Luminaire Tested: **GALN-SB8A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34031 lumens
Efficiency: N/A
Efficacy: 149.9 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

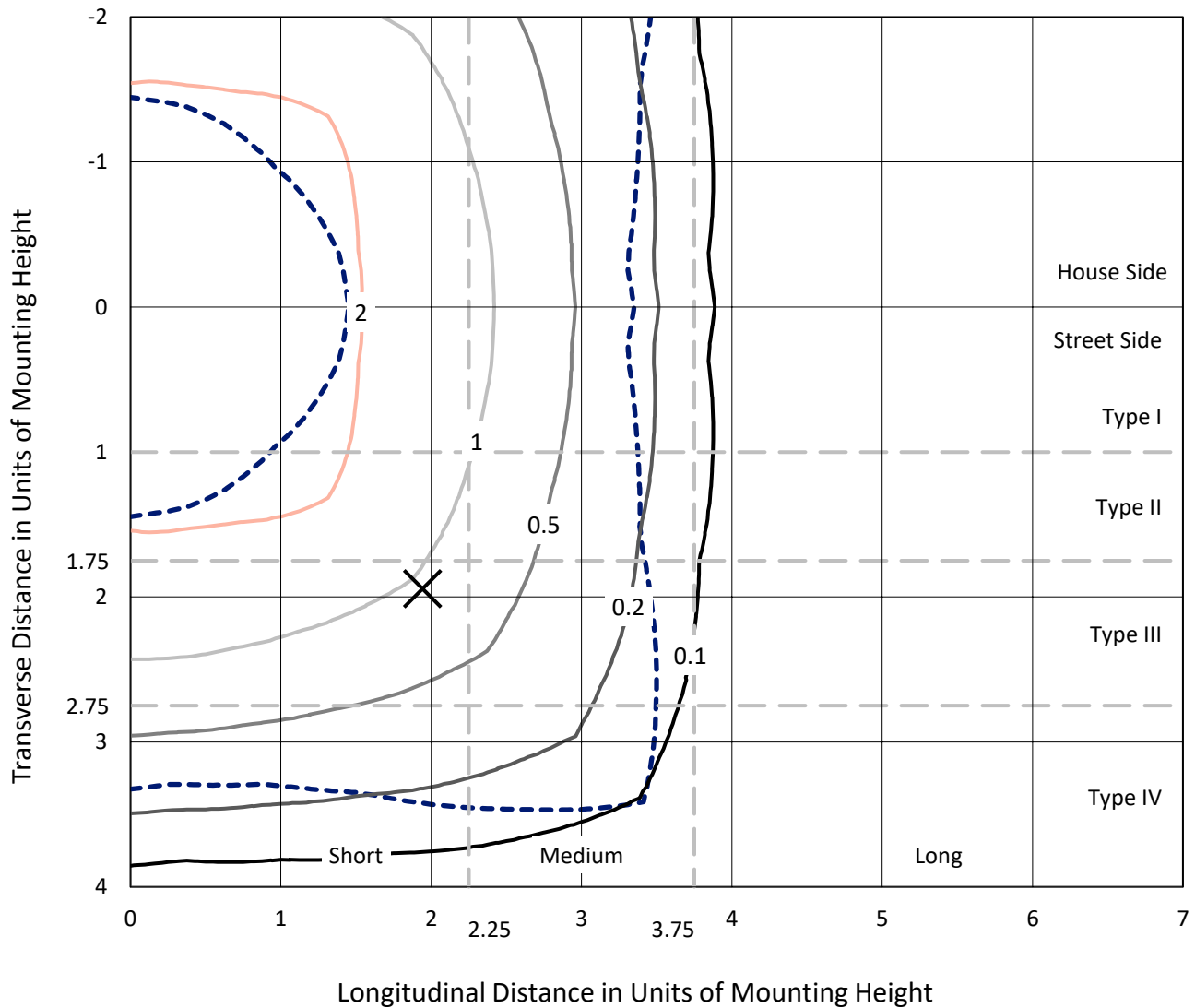


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

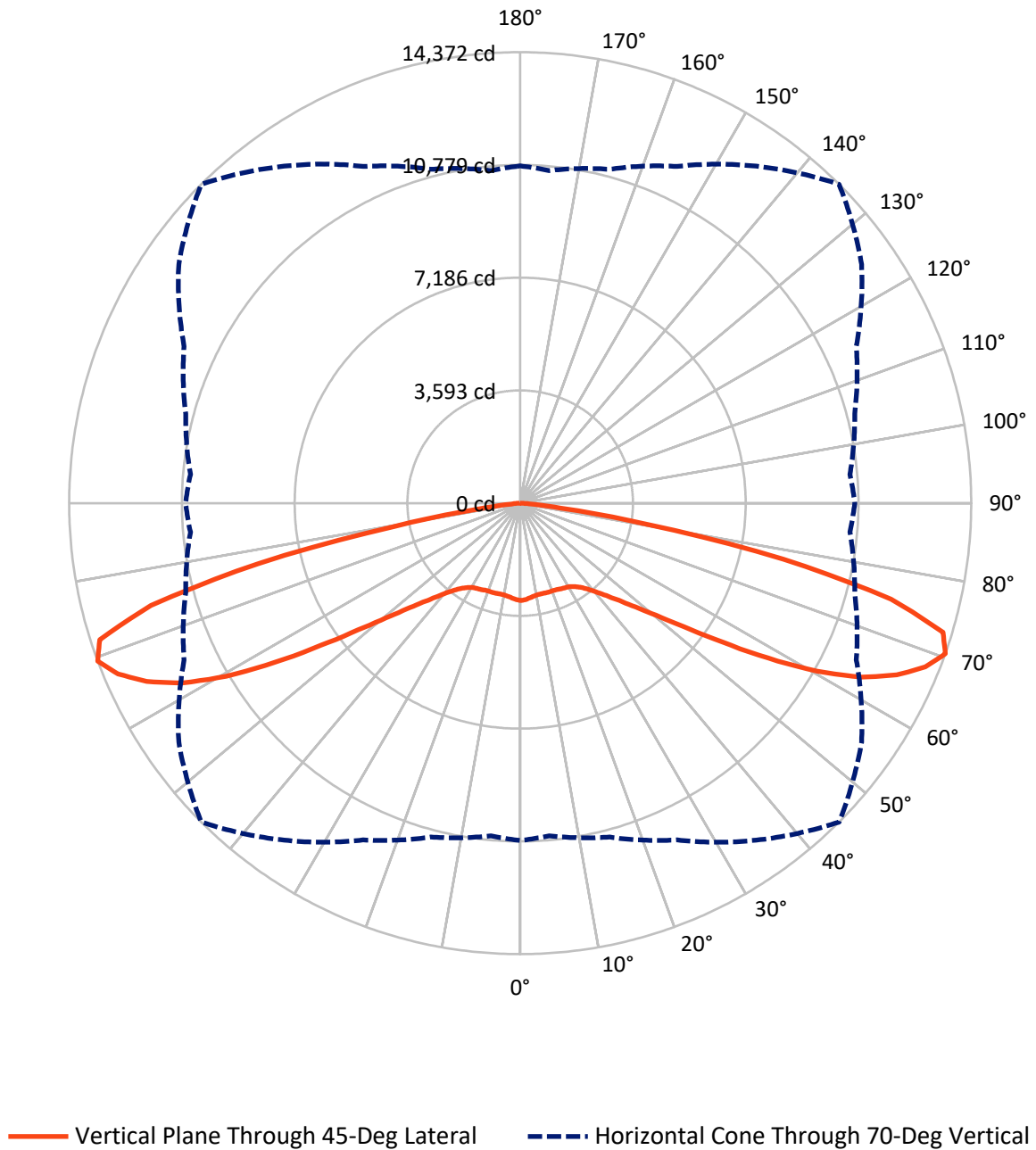


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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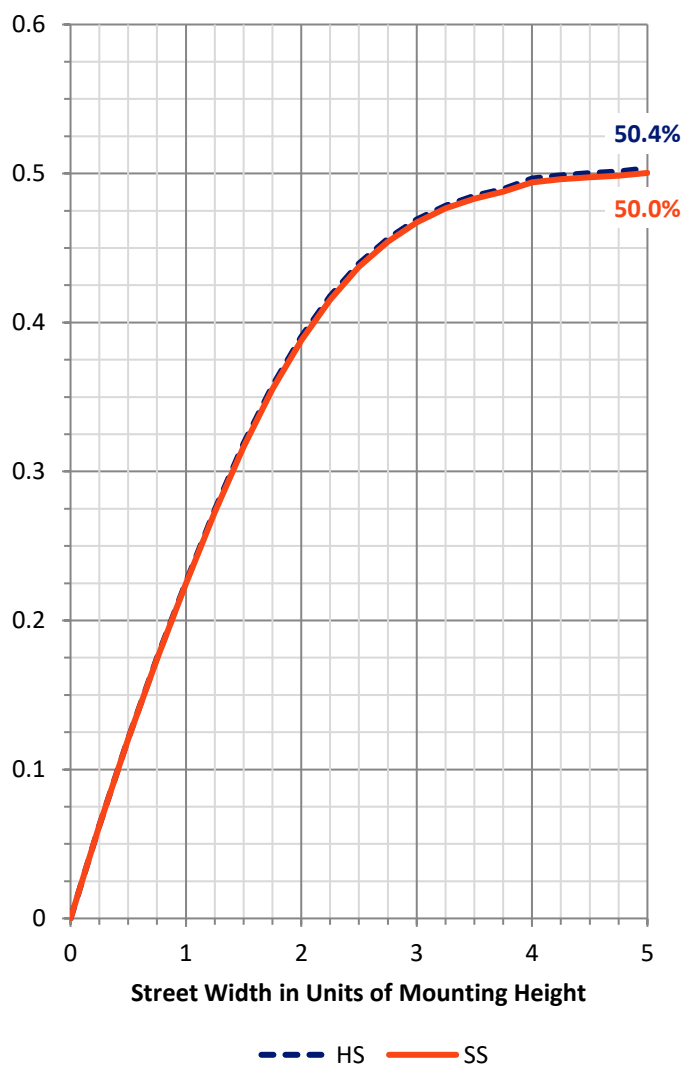
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17015.5	0.0	17015.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17015.5	0.0	17015.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34031.0	0.0	34031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	0.8
10°-20°	847.9	2.5
20°-30°	1411.0	4.1
30°-40°	2133.9	6.3
40°-50°	3546.1	10.4
50°-60°	6691.3	19.7
60°-70°	11298.6	33.2
70°-80°	7424.3	21.8
80°-90°	389.0	1.1
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°	34031.0	100.0
0°-180°	34031.0	100.0

Coefficient of Utilization



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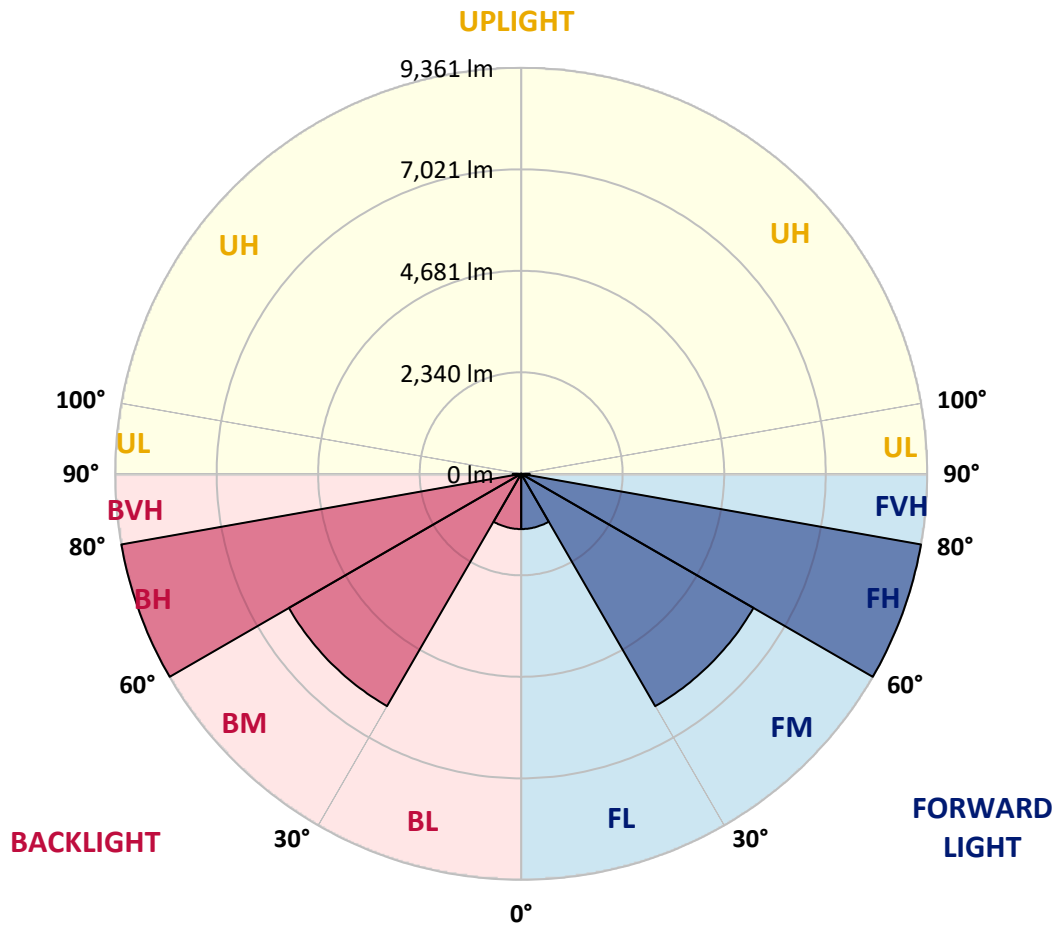
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.9	3.7			
FM	(30°-60°)	6185.7	18.2			
FH	(60°-80°)	9361.5	27.5			G4/12000
FVH	(80°-90°)	194.5	0.6			G2/225
BL	(0°-30°)	1273.9	3.7	B3/2500		
BM	(30°-60°)	6185.7	18.2	B4/8500		
BH	(60°-80°)	9361.5	27.5	B5		G4/12000
BVH	(80°-90°)	194.5	0.6			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°	90°
0°	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3
2.5°	3084.9	3093.7	3090.2	3083.1	3083.1	3077.8	3083.1	3086.6	3091.9	3095.5	3093.7
5°	3044.2	3051.2	3049.5	3044.2	3045.9	3040.6	3044.2	3049.5	3053.0	3054.8	3054.8
7.5°	3008.8	3015.9	3012.3	3003.5	3003.5	2998.2	3000.0	3005.3	3010.6	3012.3	3012.3
10°	3000.0	3007.0	2996.4	2982.3	2977.0	2969.9	2971.6	2977.0	2987.6	2992.9	2992.9
12.5°	3003.5	3008.8	2998.2	2977.0	2971.6	2964.6	2964.6	2969.9	2984.0	2991.1	2992.9
15°	3014.1	3019.4	3003.5	2980.5	2975.2	2969.9	2968.1	2975.2	2991.1	3003.5	3005.3
17.5°	3033.6	3038.9	3014.1	2982.3	2975.2	2977.0	2975.2	2980.5	3005.3	3028.3	3028.3
20°	3051.2	3054.8	3021.2	2982.3	2975.2	2977.0	2975.2	2985.8	3017.6	3049.5	3051.2
22.5°	3056.6	3060.1	3028.3	2994.6	2989.3	2991.1	2989.3	3000.0	3030.0	3061.9	3061.9
25°	3058.3	3063.6	3038.9	3012.3	3021.2	3024.7	3021.2	3022.9	3045.9	3074.2	3072.5
27.5°	3084.9	3091.9	3068.9	3045.9	3051.2	3049.5	3054.8	3060.1	3077.8	3106.1	3099.0
30°	3139.7	3145.0	3125.5	3102.5	3099.0	3086.6	3102.5	3120.2	3139.7	3164.5	3159.1
32.5°	3229.9	3240.5	3215.7	3191.0	3175.1	3168.0	3180.4	3210.4	3237.0	3263.5	3252.9
35°	3380.3	3387.3	3364.3	3318.3	3290.0	3290.0	3300.7	3339.6	3382.0	3415.6	3403.2
37.5°	3592.5	3601.4	3560.7	3505.8	3463.4	3463.4	3477.5	3518.2	3581.9	3629.7	3612.0
40°	3850.8	3863.1	3811.8	3755.2	3714.6	3707.5	3725.2	3771.2	3831.3	3891.4	3872.0
42.5°	4162.1	4176.2	4109.0	4059.5	4027.6	4027.6	4036.5	4078.9	4133.8	4208.1	4202.8
45°	4560.1	4584.8	4492.9	4443.3	4413.3	4420.3	4425.6	4462.8	4512.3	4597.2	4593.7
47.5°	5034.1	5058.9	4961.6	4910.3	4905.0	4938.6	4917.4	4943.9	4970.4	5067.7	5039.4
50°	5571.8	5614.3	5547.1	5543.5	5554.2	5616.1	5566.5	5580.7	5550.6	5612.5	5575.4
52.5°	6229.9	6291.8	6279.4	6300.6	6419.1	6546.5	6433.3	6383.7	6270.5	6290.0	6224.5
55°	7027.6	7121.3	7139.0	7266.4	7535.3	7795.3	7554.7	7354.8	7114.3	7070.0	7001.1
57.5°	7935.0	8009.3	8094.2	8354.2	8856.6	9318.2	8856.6	8414.4	8035.8	7945.6	7881.9
60°	8911.4	9003.4	9084.8	9468.6	10215.0	10864.2	10200.9	9498.7	8998.1	8876.0	8769.9
62.5°	9960.3	10078.8	10135.4	10561.7	11432.0	12206.8	11444.4	10593.6	10038.2	9907.3	9801.1
65°	10966.8	11064.1	11127.8	11582.4	12413.7	13190.2	12470.3	11631.9	11060.6	10889.0	10804.1
67.5°	11435.5	11488.6	11644.3	12159.0	13036.3	13922.5	13184.9	12213.8	11575.3	11274.6	11278.1
70°	10749.2	10641.3	11016.3	11840.6	13110.6	14371.8	13280.4	11815.8	11034.0	10545.8	10662.6
72.5°	8306.5	8120.7	8771.7	10181.4	12261.6	14085.3	12346.5	10261.0	9176.7	8186.2	8432.1
75°	4519.4	4308.9	5207.5	6990.5	9778.1	12208.5	10002.8	7190.3	5798.3	4485.8	4777.6
77.5°	1275.3	1195.7	1921.0	3382.0	5881.4	8571.8	6107.8	3456.3	2278.3	1351.4	1501.7
80°	390.9	378.5	513.0	1018.9	2497.6	4105.5	2400.3	1031.2	652.7	412.1	435.1
82.5°	231.7	212.3	254.7	371.5	636.8	1289.5	619.1	387.4	311.3	208.7	226.4
85°	132.7	123.8	150.4	180.4	214.0	274.2	178.7	184.0	166.3	111.4	116.7
87.5°	54.8	49.5	58.4	56.6	49.5	63.7	47.8	56.6	67.2	44.2	40.7
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)