

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: P954847

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954847
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-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 35234 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - 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



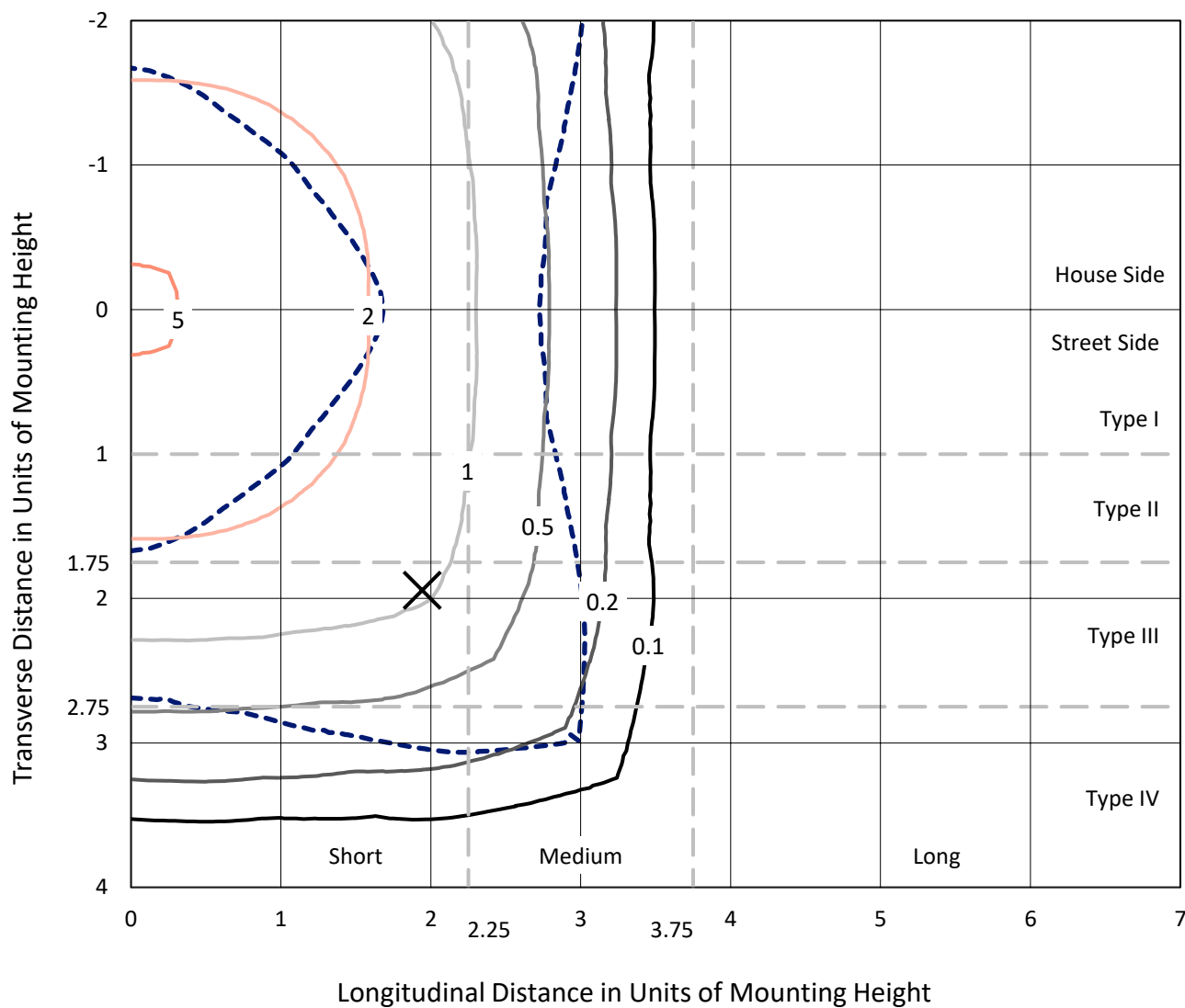
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

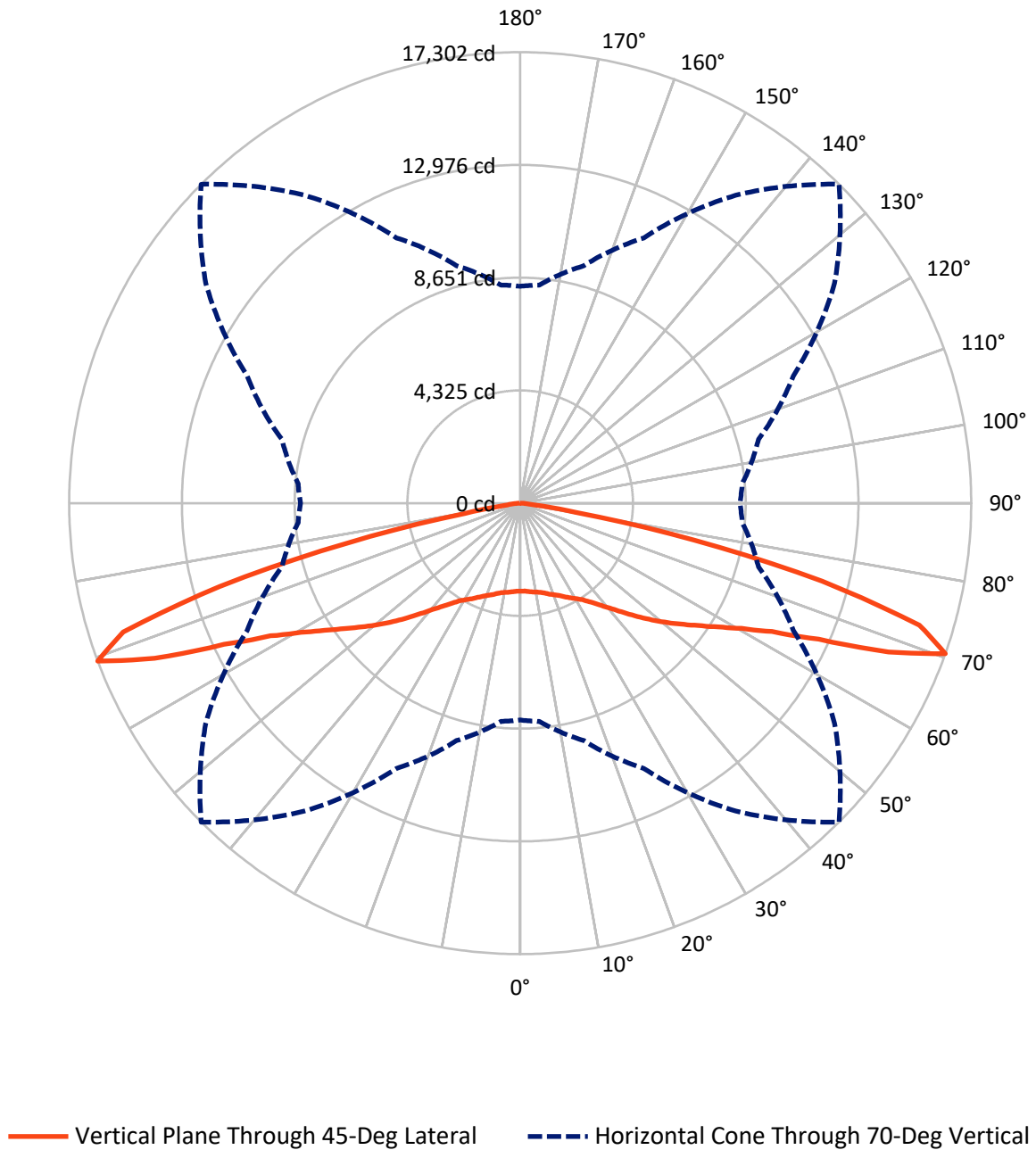


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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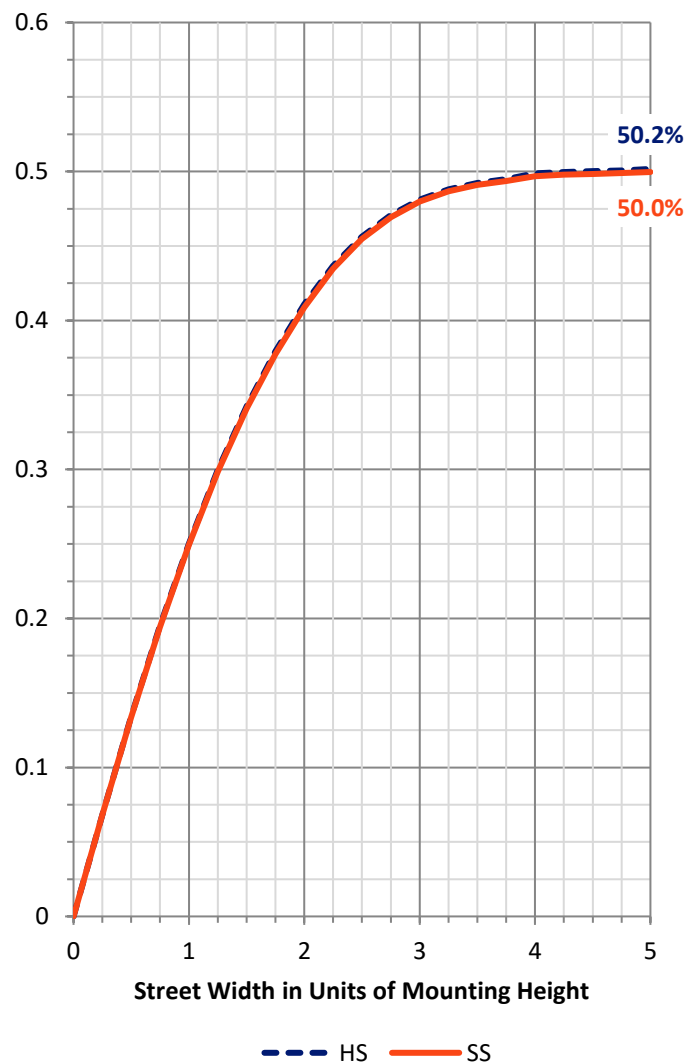
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17617.0	0.0	17617.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17617.0	0.0	17617.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35234.0	0.0	35234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.9	0.9
10°-20°	1016.7	2.9
20°-30°	1817.0	5.2
30°-40°	2945.4	8.4
40°-50°	4797.6	13.6
50°-60°	7314.6	20.8
60°-70°	10881.8	30.9
70°-80°	5931.0	16.8
80°-90°	202.0	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°	35234.0	100.0
0°-180°	35234.0	100.0

Coefficient of Utilization



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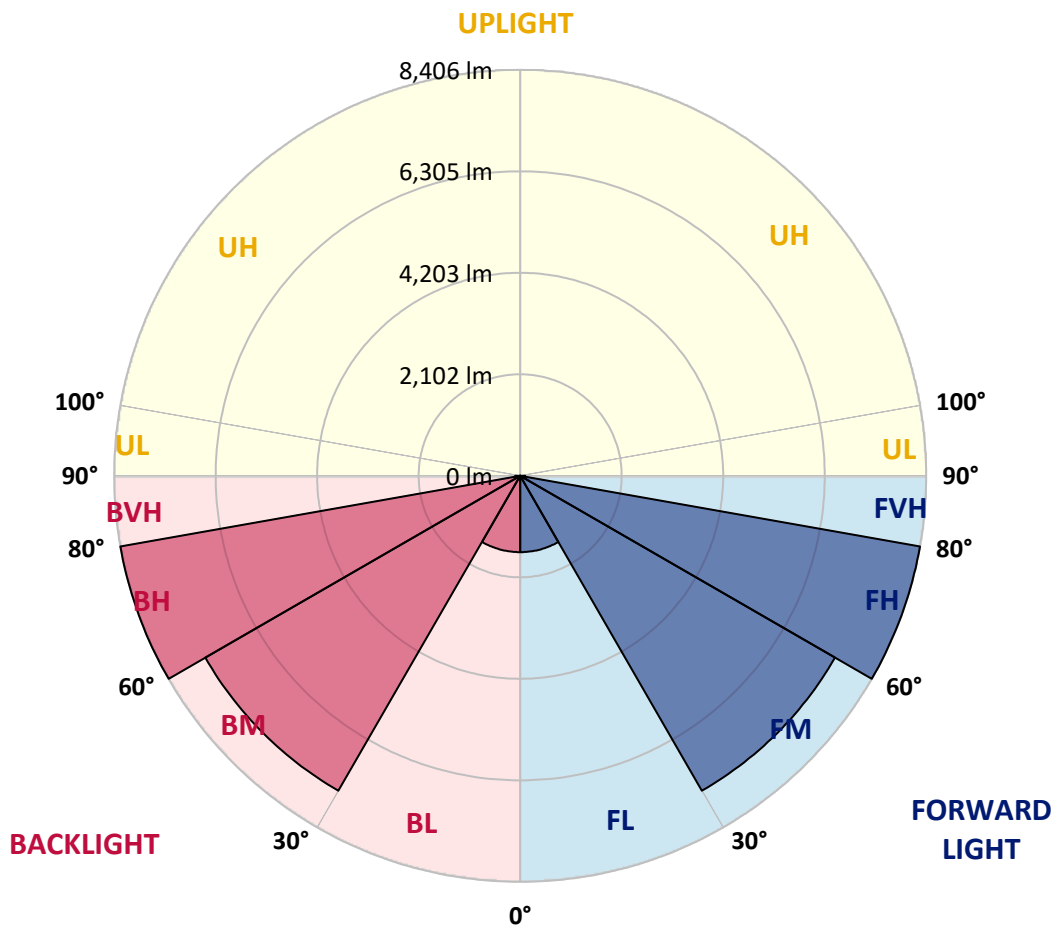
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1580.8	4.5			
FM	(30°-60°)	7528.8	21.4			
FH	(60°-80°)	8406.4	23.9			G4/12000
FVH	(80°-90°)	101.0	0.3			G2/225
BL	(0°-30°)	1580.8	4.5	B3/2500		
BM	(30°-60°)	7528.8	21.4	B4/8500		
BH	(60°-80°)	8406.4	23.9	B5		G4/12000
BVH	(80°-90°)	101.0	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°	90°
0°	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1
2.5°	3391.0	3394.5	3387.4	3383.9	3380.4	3375.1	3376.8	3385.7	3392.7	3391.0	3392.7
5°	3419.3	3422.8	3417.5	3415.7	3408.7	3406.9	3406.9	3415.7	3421.0	3417.5	3419.3
7.5°	3451.1	3456.4	3447.6	3445.8	3442.3	3438.7	3437.0	3445.8	3451.1	3451.1	3451.1
10°	3481.2	3486.5	3479.4	3474.1	3470.6	3470.6	3467.0	3474.1	3483.0	3481.2	3481.2
12.5°	3513.0	3516.6	3509.5	3506.0	3506.0	3511.3	3506.0	3509.5	3516.6	3513.0	3511.3
15°	3551.9	3553.7	3551.9	3557.2	3566.1	3583.8	3567.9	3564.3	3567.9	3559.0	3559.0
17.5°	3605.0	3608.5	3615.6	3628.0	3640.4	3672.2	3643.9	3635.1	3635.1	3617.4	3617.4
20°	3670.5	3675.8	3686.4	3707.6	3723.5	3753.6	3725.3	3712.9	3707.6	3684.6	3684.6
22.5°	3739.4	3748.3	3764.2	3792.5	3820.8	3849.1	3820.8	3799.6	3783.7	3753.6	3751.8
25°	3819.0	3829.7	3854.4	3900.4	3939.3	3980.0	3946.4	3904.0	3872.1	3829.7	3827.9
27.5°	3932.3	3944.6	3974.7	4031.3	4080.8	4116.2	4084.4	4029.5	3985.3	3934.0	3932.3
30°	4091.5	4103.8	4139.2	4199.4	4233.0	4256.0	4234.7	4192.3	4139.2	4080.8	4080.8
32.5°	4296.6	4312.6	4351.5	4408.1	4415.2	4418.7	4411.6	4390.4	4351.5	4280.7	4282.5
35°	4556.7	4574.4	4618.6	4664.6	4657.5	4664.6	4654.0	4646.9	4618.6	4537.2	4537.2
37.5°	4875.1	4896.3	4942.3	4977.7	4960.0	4951.1	4952.9	4954.7	4938.8	4848.5	4848.5
40°	5244.8	5273.1	5306.7	5343.8	5313.8	5287.2	5304.9	5319.1	5304.9	5212.9	5212.9
42.5°	5625.1	5665.8	5701.2	5754.2	5729.5	5695.8	5720.6	5736.5	5706.5	5607.4	5614.5
45°	6047.9	6086.8	6132.8	6212.4	6194.7	6159.3	6194.7	6198.2	6146.9	6030.2	6042.5
47.5°	6484.8	6525.5	6594.4	6700.6	6693.5	6654.6	6700.6	6675.8	6610.4	6470.6	6461.8
50°	6898.7	6955.3	7061.4	7210.0	7224.2	7176.4	7238.3	7190.6	7080.9	6905.8	6902.2
52.5°	7287.8	7348.0	7516.0	7717.7	7769.0	7707.1	7790.2	7707.1	7542.6	7317.9	7296.7
55°	7696.5	7763.7	7963.6	8227.1	8329.7	8283.7	8361.6	8236.0	8002.5	7730.1	7692.9
57.5°	8177.6	8218.3	8457.1	8770.2	8943.5	8954.1	8989.5	8777.3	8494.2	8184.7	8142.2
60°	8699.4	8756.0	9016.1	9391.1	9665.2	9753.7	9716.5	9401.7	9072.7	8717.1	8660.5
62.5°	9368.1	9430.0	9741.3	10190.6	10624.0	10843.3	10698.3	10241.9	9835.1	9408.8	9334.5
65°	9921.7	9990.7	10553.2	11354.5	12143.5	12583.9	12219.5	11379.3	10647.0	10045.6	9946.5
67.5°	9520.2	9605.1	10487.8	11959.5	13921.2	15235.5	13988.4	12139.9	10705.4	9889.9	9767.8
70°	8320.9	8400.5	9430.0	11228.9	14421.8	17301.6	14722.5	11559.7	9463.6	8550.8	8428.8
72.5°	5524.3	5780.8	6822.6	8980.7	12877.6	16010.3	13004.9	8798.5	6329.1	5511.9	5333.2
75°	1832.6	2037.8	2748.9	4655.7	8625.1	11973.7	8211.2	4119.8	2177.5	1567.2	1482.3
77.5°	461.7	532.4	734.1	1332.0	3440.5	6817.3	3097.3	1087.9	592.6	413.9	369.7
80°	224.6	247.6	353.8	444.0	861.5	2166.9	808.4	417.5	279.5	215.8	198.1
82.5°	123.8	125.6	199.9	251.2	320.2	560.7	332.6	244.1	161.0	130.9	130.9
85°	76.1	74.3	106.1	134.4	134.4	199.9	159.2	134.4	92.0	81.4	84.9
87.5°	30.1	30.1	38.9	42.5	37.1	51.3	40.7	44.2	35.4	33.6	35.4
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)