

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: P951277

Luminaire Tested: **GALN-SB5C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951277
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-SB5C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36748 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 249.5
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

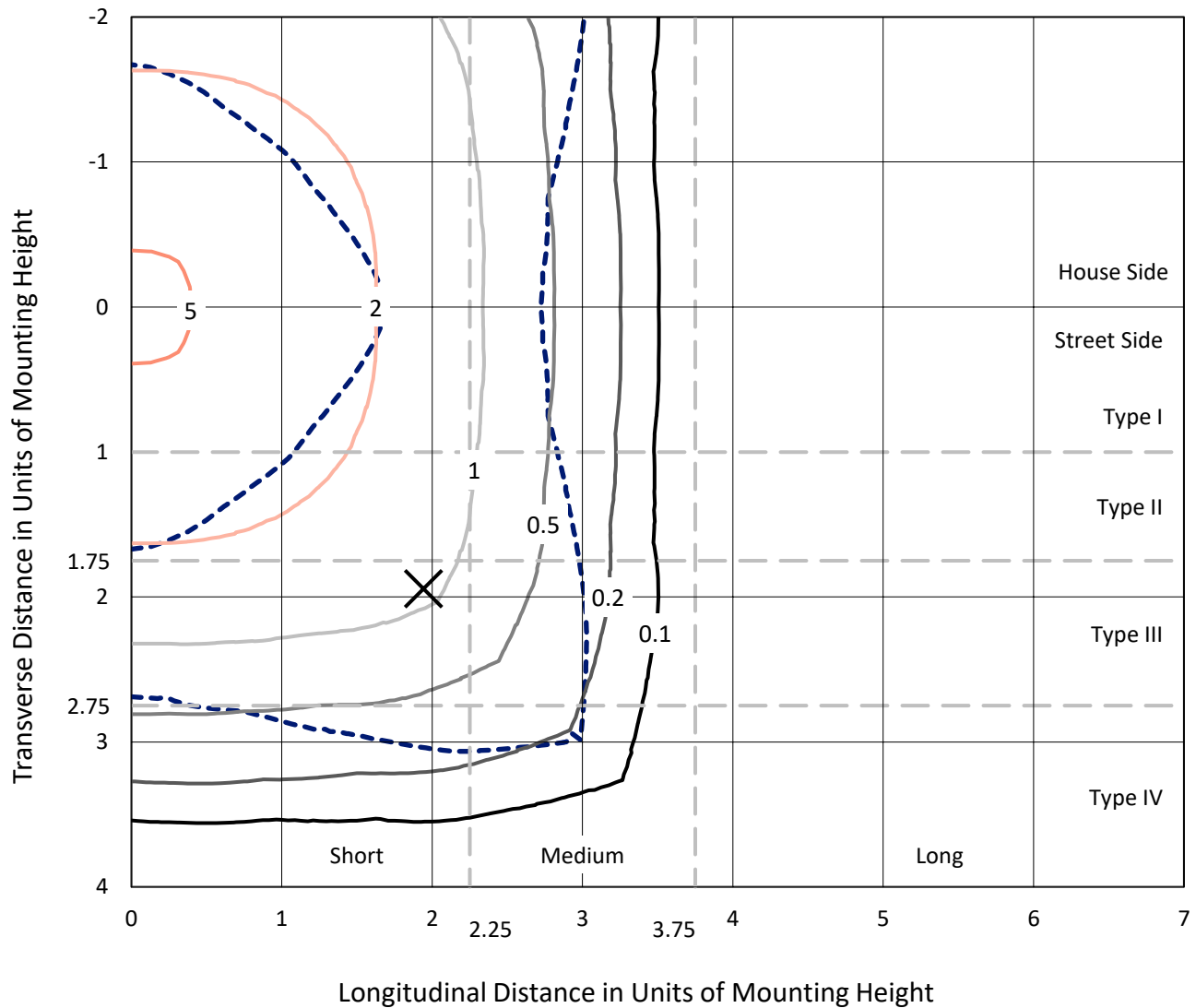


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

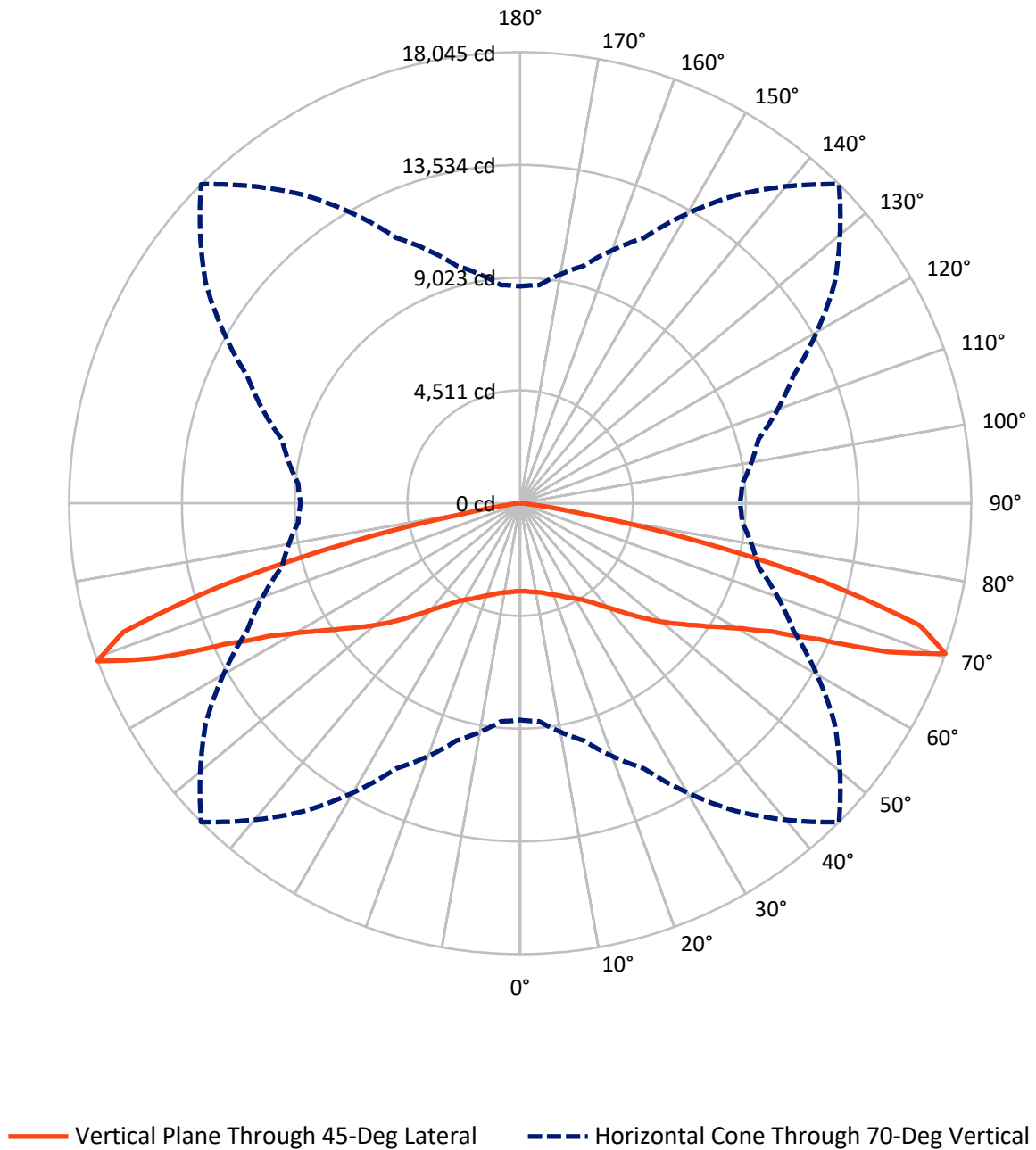


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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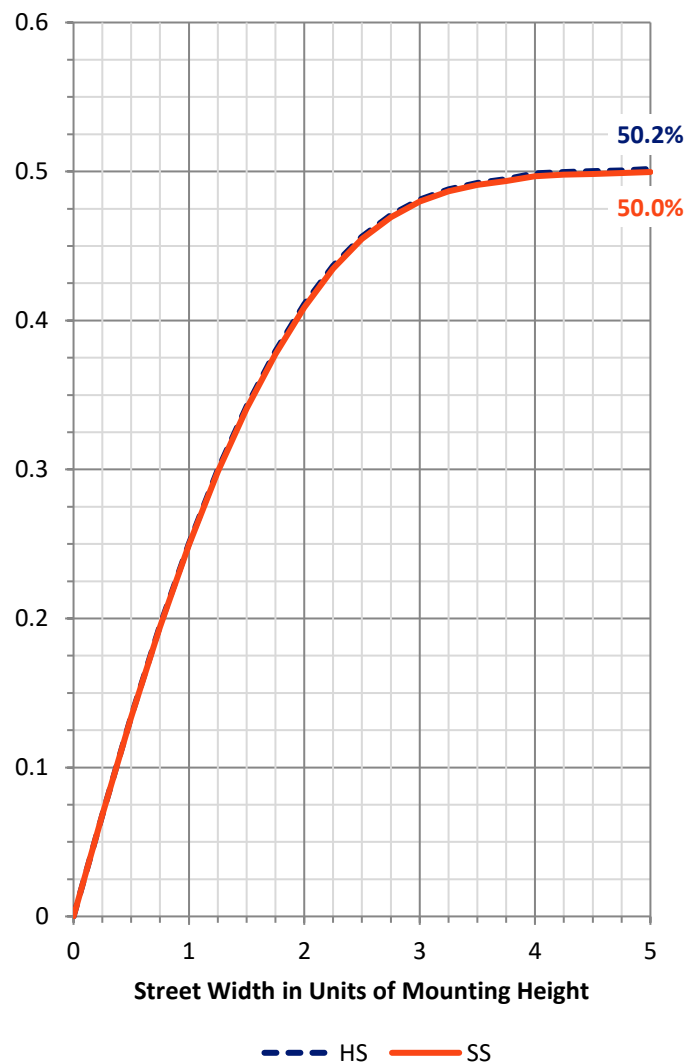
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18374.0	0.0	18374.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18374.0	0.0	18374.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36748.0	0.0	36748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	0.9
10°-20°	1060.4	2.9
20°-30°	1895.1	5.2
30°-40°	3072.0	8.4
40°-50°	5003.7	13.6
50°-60°	7628.9	20.8
60°-70°	11349.4	30.9
70°-80°	6185.8	16.8
80°-90°	210.6	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°	36748.0	100.0
0°-180°	36748.0	100.0

Coefficient of Utilization



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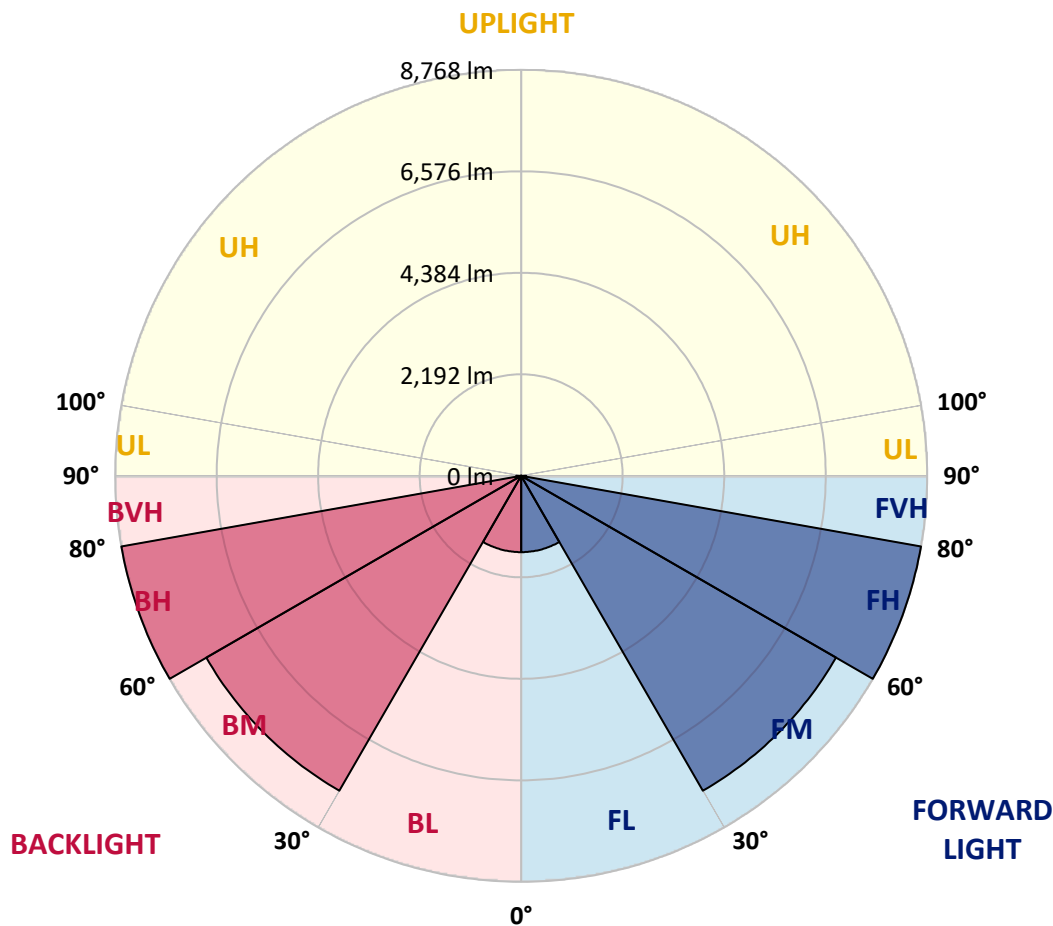
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.8	4.5			
FM	(30°-60°)	7852.3	21.4			
FH	(60°-80°)	8767.6	23.9			G4/12000
FVH	(80°-90°)	105.3	0.3			G2/225
BL	(0°-30°)	1648.8	4.5	B3/2500		
BM	(30°-60°)	7852.3	21.4	B4/8500		
BH	(60°-80°)	8767.6	23.9	B5		G4/12000
BVH	(80°-90°)	105.3	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°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3536.7	3540.4	3533.0	3529.3	3525.6	3520.1	3521.9	3531.1	3538.5	3536.7	3538.5
5°	3566.2	3569.9	3564.4	3562.5	3555.1	3553.3	3553.3	3562.5	3568.0	3564.4	3566.2
7.5°	3599.4	3604.9	3595.7	3593.9	3590.2	3586.5	3584.6	3593.9	3599.4	3599.4	3599.4
10°	3630.8	3636.3	3628.9	3623.4	3619.7	3619.7	3616.0	3623.4	3632.6	3630.8	3630.8
12.5°	3664.0	3667.7	3660.3	3656.6	3656.6	3662.1	3656.6	3660.3	3667.7	3664.0	3662.1
15°	3704.6	3706.4	3704.6	3710.1	3719.3	3737.8	3721.2	3717.5	3721.2	3711.9	3711.9
17.5°	3759.9	3763.6	3771.0	3783.9	3796.8	3830.0	3800.5	3791.3	3791.3	3772.8	3772.8
20°	3828.2	3833.7	3844.8	3866.9	3883.5	3914.9	3885.4	3872.5	3866.9	3842.9	3842.9
22.5°	3900.1	3909.4	3926.0	3955.5	3985.0	4014.5	3985.0	3962.9	3946.3	3914.9	3913.0
25°	3983.1	3994.2	4020.0	4068.0	4108.6	4151.0	4116.0	4071.7	4038.5	3994.2	3992.4
27.5°	4101.2	4114.1	4145.5	4204.5	4256.2	4293.1	4259.9	4202.7	4156.6	4103.1	4101.2
30°	4267.3	4280.2	4317.1	4379.8	4414.9	4438.8	4416.7	4372.4	4317.1	4256.2	4256.2
32.5°	4481.3	4497.9	4538.5	4597.5	4604.9	4608.6	4601.2	4579.1	4538.5	4464.7	4466.5
35°	4752.5	4770.9	4817.0	4865.0	4857.6	4865.0	4853.9	4846.6	4817.0	4732.2	4732.2
37.5°	5084.6	5106.7	5154.7	5191.6	5173.1	5163.9	5165.7	5167.6	5151.0	5056.9	5056.9
40°	5470.1	5499.7	5534.7	5573.5	5542.1	5514.4	5532.9	5547.6	5532.9	5436.9	5436.9
42.5°	5866.8	5909.2	5946.1	6001.5	5975.6	5940.6	5966.4	5983.0	5951.7	5848.3	5855.7
45°	6307.7	6348.3	6396.3	6479.3	6460.9	6424.0	6460.9	6464.5	6411.0	6289.3	6302.2
47.5°	6763.4	6805.9	6877.8	6988.5	6981.1	6940.5	6988.5	6962.7	6894.4	6748.7	6739.4
50°	7195.1	7254.2	7364.9	7519.8	7534.6	7484.8	7549.3	7499.5	7385.2	7202.5	7198.8
52.5°	7601.0	7663.7	7839.0	8049.3	8102.8	8038.2	8125.0	8038.2	7866.7	7632.4	7610.2
55°	8027.2	8097.3	8305.8	8580.7	8687.7	8639.7	8720.9	8589.9	8346.3	8062.2	8023.5
57.5°	8529.0	8571.4	8820.5	9147.0	9327.8	9338.9	9375.8	9154.4	8859.2	8536.4	8492.1
60°	9073.2	9132.3	9403.5	9794.6	10080.6	10172.8	10134.1	9805.7	9462.5	9091.7	9032.7
62.5°	9770.6	9835.2	10159.9	10628.5	11080.5	11309.3	11158.0	10682.0	10257.7	9813.0	9735.6
65°	10348.1	10420.0	11006.7	11842.4	12665.3	13124.7	12744.6	11868.3	11104.5	10477.2	10373.9
67.5°	9929.3	10017.8	10938.4	12473.4	14519.4	15890.2	14589.5	12661.6	11165.4	10314.9	10187.6
70°	8678.4	8761.5	9835.2	11711.5	15041.5	18045.0	15355.1	12056.5	9870.2	8918.3	8791.0
72.5°	5761.6	6029.1	7115.8	9366.6	13430.9	16698.2	13563.7	9176.6	6601.1	5748.7	5562.4
75°	1911.3	2125.3	2867.0	4855.8	8995.8	12488.2	8564.0	4296.8	2271.1	1634.6	1546.0
77.5°	481.5	555.3	765.6	1389.2	3588.3	7110.3	3230.4	1134.6	618.0	431.7	385.6
80°	234.3	258.3	369.0	463.1	898.5	2260.0	843.1	435.4	291.5	225.1	206.6
82.5°	129.1	131.0	208.5	262.0	333.9	584.8	346.8	254.6	167.9	136.5	136.5
85°	79.3	77.5	110.7	140.2	140.2	208.5	166.0	140.2	95.9	84.9	88.6
87.5°	31.4	31.4	40.6	44.3	38.7	53.5	42.4	46.1	36.9	35.1	36.9
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)