

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: P949853

Luminaire Tested: **GALN-SB4C-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28668 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 200.7
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

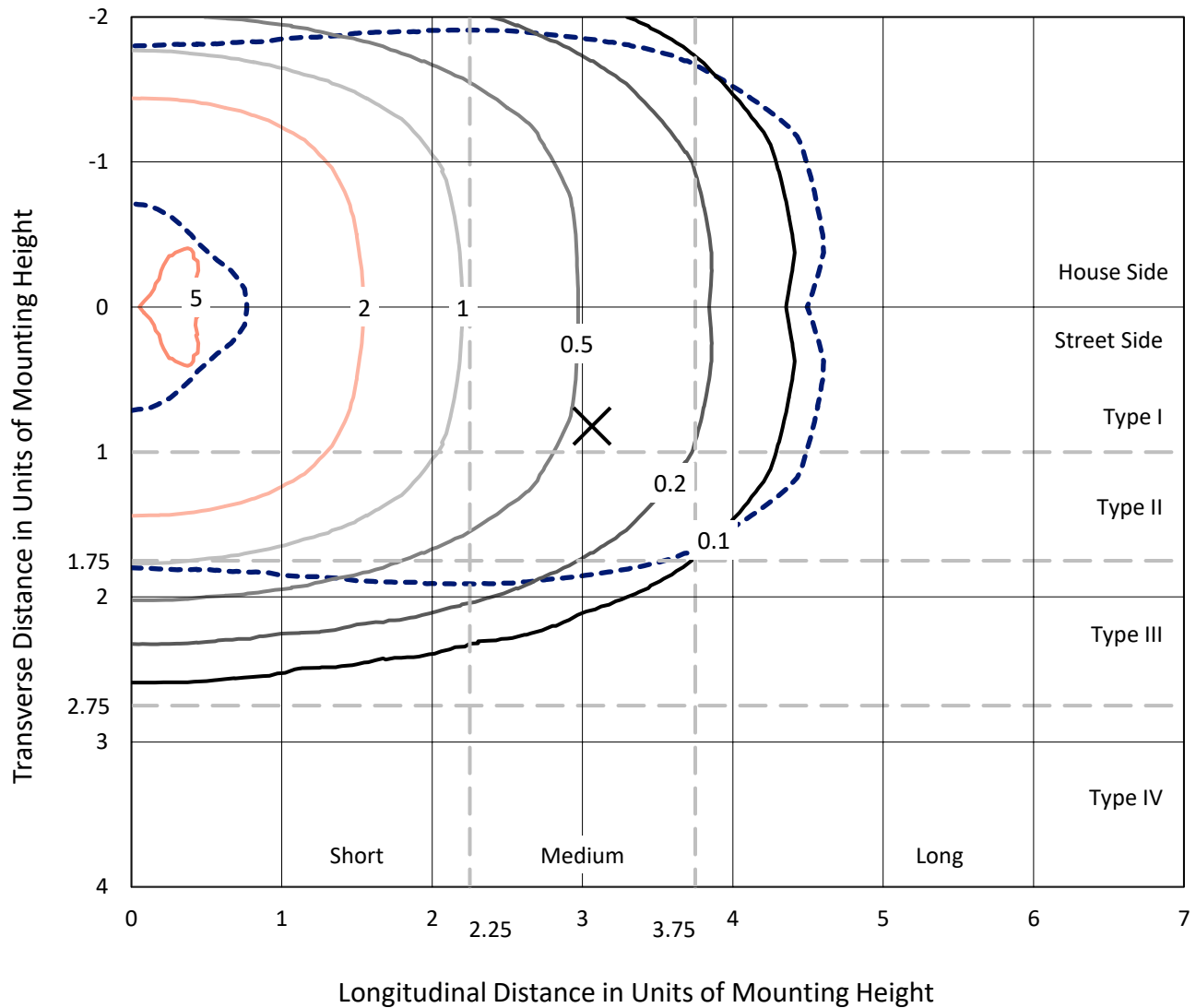


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

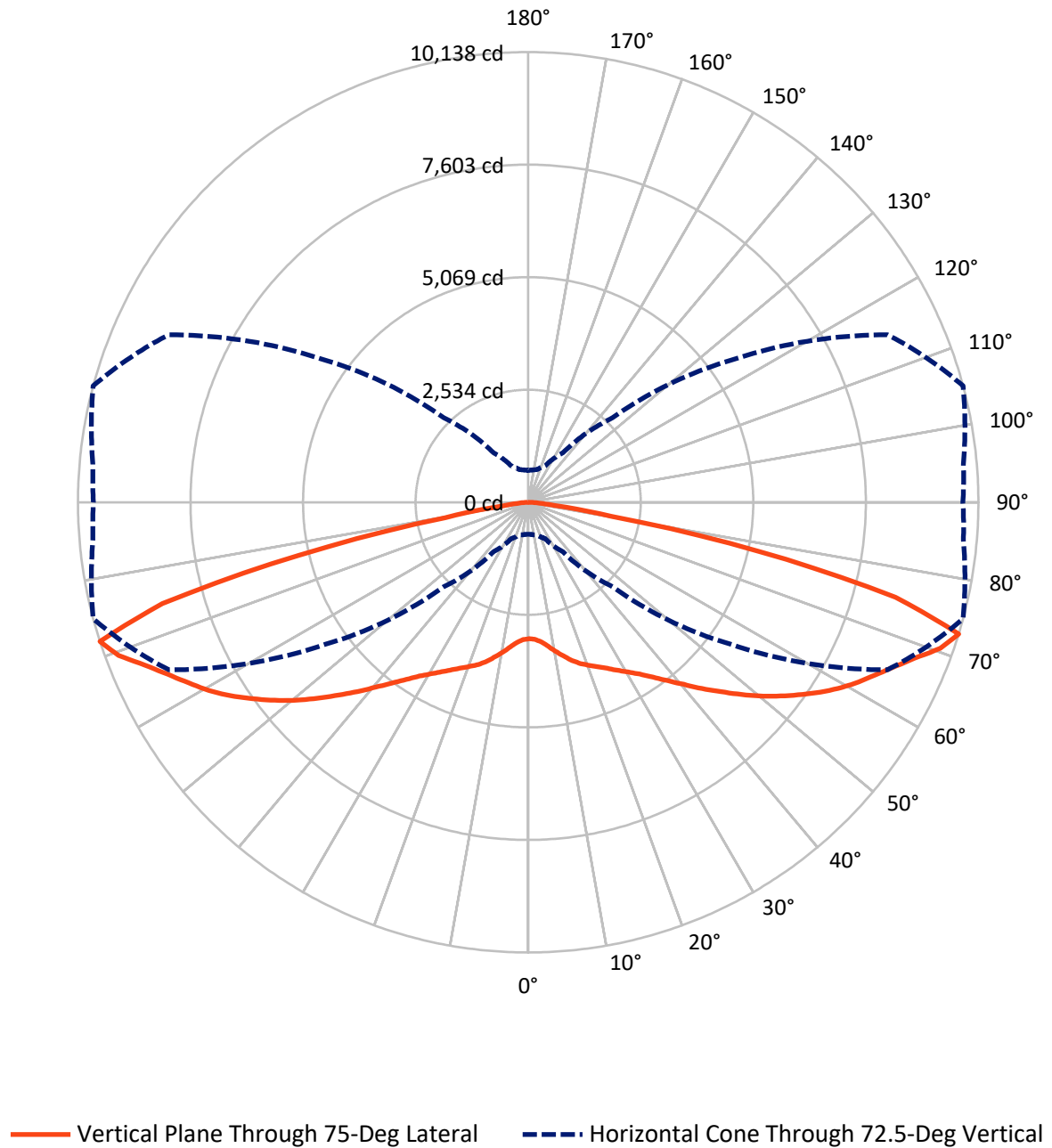


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14334.0	0.0	14334.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14334.0	0.0	14334.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28668.0	0.0	28668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.0
10°-20°	992.2	3.5
20°-30°	1917.1	6.7
30°-40°	3237.2	11.3
40°-50°	5133.8	17.9
50°-60°	6873.6	24.0
60°-70°	6541.5	22.8
70°-80°	3413.4	11.9
80°-90°	258.4	0.9
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°	28668.0	100.0
0°-180°	28668.0	100.0

Coefficient of Utilization



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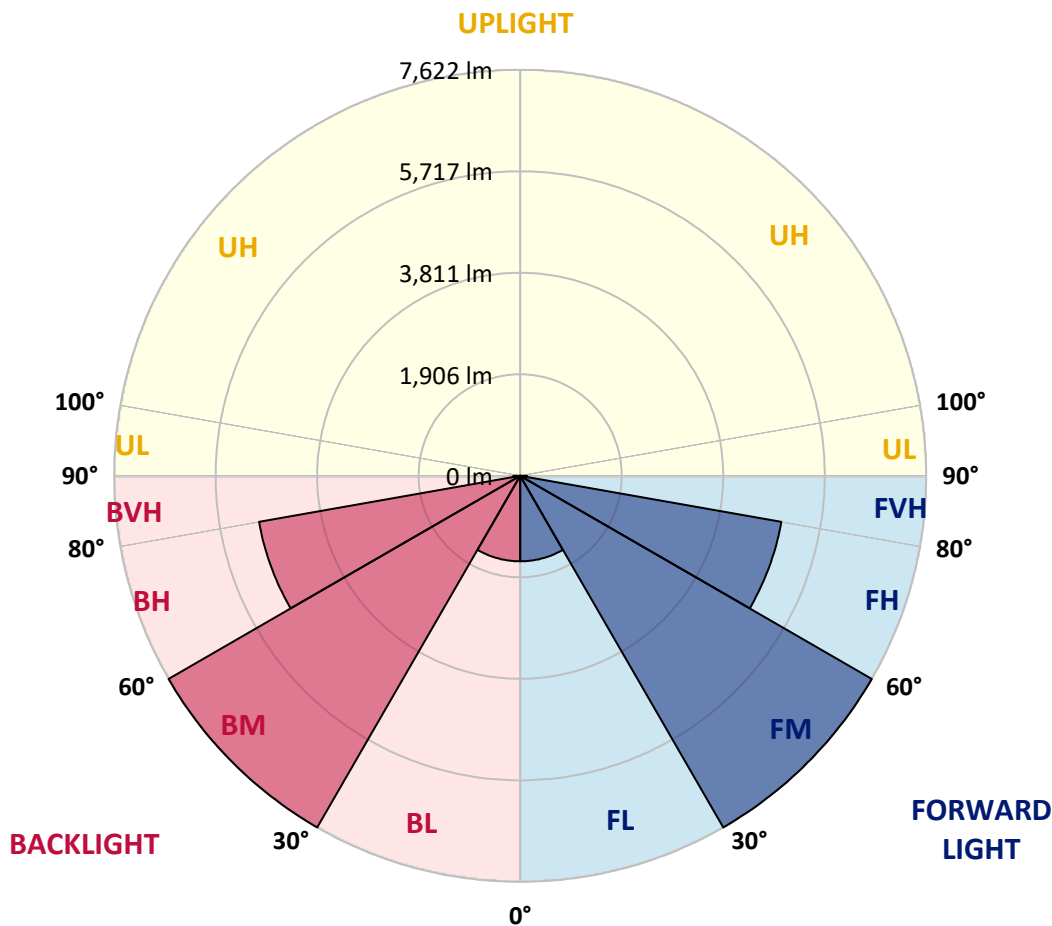
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1605.1	5.6			
FM	(30°-60°)	7622.3	26.6			
FH	(60°-80°)	4977.5	17.4			G2/5000
FVH	(80°-90°)	129.2	0.5			G2/225
BL	(0°-30°)	1605.1	5.6	B3/2500		
BM	(30°-60°)	7622.3	26.6	B4/8500		
BH	(60°-80°)	4977.5	17.4	B4/5000		G4/5000
BVH	(80°-90°)	129.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9
2.5°	3070.9	3067.9	3070.9	3073.8	3072.3	3072.3	3079.6	3084.0	3092.8	3091.3	3089.9
5°	3050.4	3048.9	3060.6	3073.8	3084.0	3101.6	3123.5	3139.7	3160.1	3164.5	3164.5
7.5°	3040.1	3035.7	3056.2	3079.6	3111.8	3155.8	3198.2	3242.1	3277.2	3288.9	3291.9
10°	3047.4	3048.9	3076.7	3120.6	3171.9	3233.3	3293.3	3368.0	3417.8	3429.5	3441.2
12.5°	3081.1	3078.2	3125.0	3195.3	3265.5	3343.1	3413.4	3495.3	3549.5	3577.3	3589.0
15°	3142.6	3136.7	3202.6	3306.5	3409.0	3499.7	3556.8	3634.4	3697.3	3732.5	3745.6
17.5°	3215.8	3218.7	3305.0	3439.7	3574.4	3676.8	3731.0	3770.5	3818.8	3849.5	3864.2
20°	3344.6	3350.4	3447.0	3606.6	3760.3	3877.4	3921.3	3906.6	3919.8	3943.2	3960.8
22.5°	3517.3	3520.2	3628.5	3801.2	3962.3	4091.1	4120.3	4060.3	4023.7	4039.8	4051.5
25°	3717.8	3736.8	3845.2	4022.3	4187.7	4310.6	4323.8	4233.0	4142.3	4146.7	4154.0
27.5°	3962.3	3979.8	4089.6	4265.2	4433.6	4540.4	4539.0	4417.5	4284.3	4250.6	4260.8
30°	4227.2	4246.2	4358.9	4540.4	4697.0	4790.7	4770.2	4625.3	4435.0	4372.1	4379.4
32.5°	4541.9	4553.6	4667.8	4849.3	4994.2	5068.8	5026.4	4847.8	4610.7	4539.0	4556.5
35°	4922.4	4940.0	5024.9	5196.2	5323.5	5385.0	5313.3	5102.5	4836.1	4755.6	4767.3
37.5°	5357.2	5345.5	5442.1	5594.3	5699.7	5737.7	5639.7	5389.4	5093.7	4998.6	5016.1
40°	5810.9	5805.1	5910.4	6056.8	6113.9	6137.3	5992.4	5718.7	5390.8	5288.4	5322.0
42.5°	6222.2	6217.8	6359.8	6522.3	6591.1	6564.7	6381.8	6068.5	5734.8	5617.7	5647.0
45°	6551.5	6545.7	6719.9	6948.2	7082.9	7039.0	6793.1	6454.9	6083.2	5961.7	5989.5
47.5°	6804.8	6807.7	6995.1	7277.5	7513.2	7529.3	7213.1	6848.7	6466.7	6329.1	6370.1
50°	6987.7	6996.5	7197.0	7510.3	7832.3	7974.3	7642.0	7252.7	6863.3	6708.2	6755.0
52.5°	7033.1	7049.2	7290.7	7658.1	8037.2	8308.0	8078.2	7640.5	7239.5	7091.7	7129.7
55°	6791.6	6823.8	7129.7	7646.4	8163.1	8527.6	8461.7	8034.3	7618.6	7466.4	7508.8
57.5°	6236.9	6282.2	6639.4	7314.1	8135.3	8678.3	8758.8	8411.9	7997.7	7851.3	7885.0
60°	5459.6	5513.8	5856.3	6592.5	7743.0	8733.9	8968.1	8779.3	8346.1	8204.1	8234.8
62.5°	4287.2	4357.5	4767.3	5630.9	6914.5	8474.9	9146.7	9111.6	8659.3	8482.2	8502.7
65°	2750.3	2825.0	3256.7	4277.0	5809.5	7681.5	9202.3	9435.1	8990.1	8742.7	8773.5
67.5°	1658.4	1692.0	1905.7	2592.2	4246.2	6485.7	8731.0	9793.7	9376.5	9069.1	9092.5
70°	1061.2	1080.2	1207.6	1522.3	2400.5	4732.2	7563.0	9861.0	9844.9	9404.3	9401.4
72.5°	720.1	726.0	759.7	901.6	1358.3	2688.8	5578.2	8927.1	10137.6	9836.1	9789.3
75°	526.9	559.1	613.3	638.2	771.4	1343.7	3196.7	6272.0	8543.7	8675.4	8356.3
77.5°	392.3	393.7	468.4	497.7	550.4	715.8	1352.5	3501.2	5304.5	5569.4	4967.8
80°	332.3	314.7	313.2	401.1	414.2	446.4	604.5	1209.0	1899.9	1151.9	870.9
82.5°	276.6	257.6	232.7	313.2	282.5	273.7	262.0	491.8	604.5	297.1	253.2
85°	193.2	184.4	175.6	204.9	161.0	137.6	125.9	229.8	254.7	125.9	111.2
87.5°	83.4	86.4	87.8	90.7	67.3	48.3	48.3	64.4	64.4	49.8	36.6
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)