

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: P949979

Luminaire Tested: **GALN-SB4C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949979
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-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26876 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

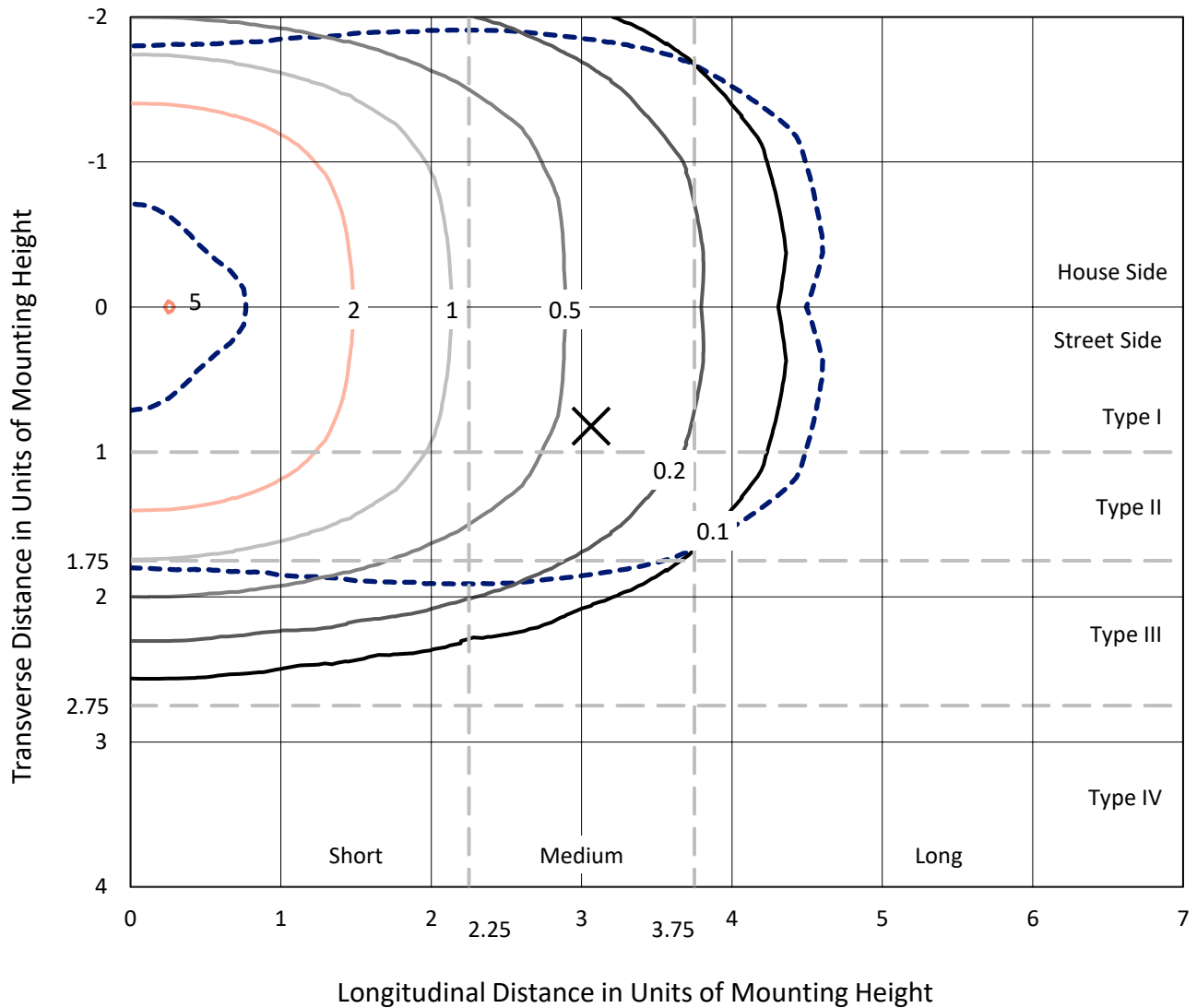
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

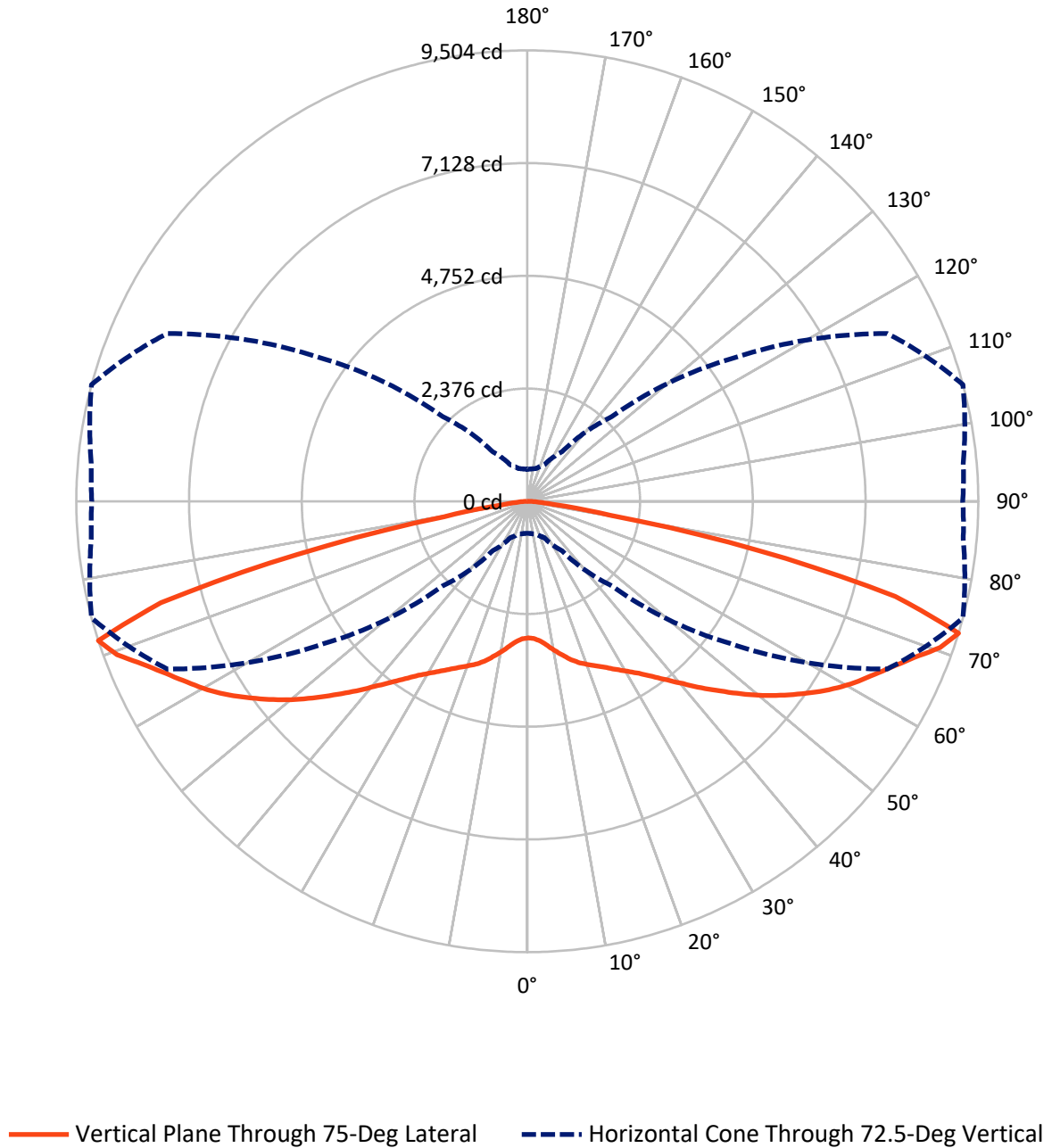
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	13438.0	0.0	13438.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13438.0	0.0	13438.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26876.0	0.0	26876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	1.0
10°-20°	930.1	3.5
20°-30°	1797.3	6.7
30°-40°	3034.8	11.3
40°-50°	4812.9	17.9
50°-60°	6443.9	24.0
60°-70°	6132.6	22.8
70°-80°	3200.1	11.9
80°-90°	242.2	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°	26876.0	100.0
0°-180°	26876.0	100.0

Coefficient of Utilization



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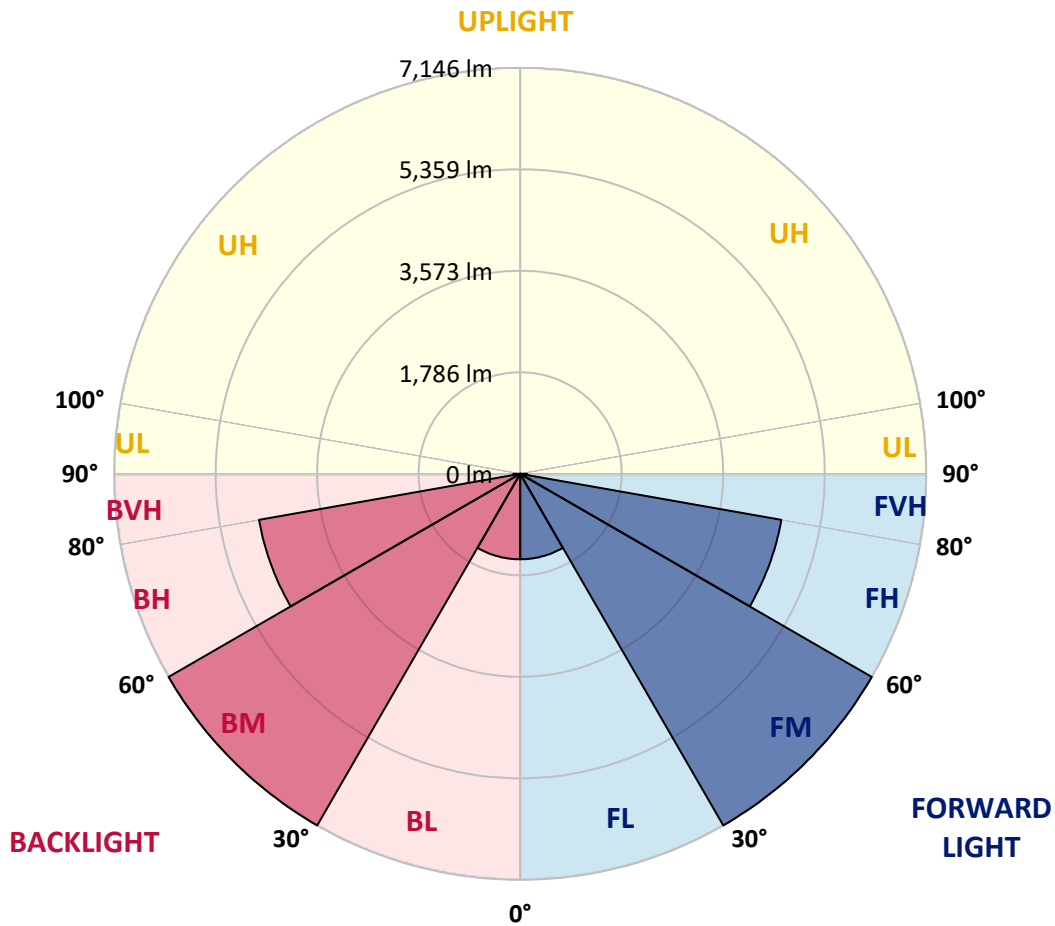
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.7	5.6			
FM (30°-60°)	7145.8	26.6			
FH (60°-80°)	4666.3	17.4			G2/5000
FVH (80°-90°)	121.1	0.5			G2/225
BL (0°-30°)	1504.7	5.6	B3/2500		
BM (30°-60°)	7145.8	26.6	B4/8500		
BH (60°-80°)	4666.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	121.1	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°
0°	2878.9	2878.9	2878.9	2878.9	2878.9	2878.9	2878.9	2878.9	2878.9	2878.9
2.5°	2878.9	2876.2	2878.9	2881.6	2880.3	2880.3	2887.1	2891.3	2899.5	2898.1
5°	2859.7	2858.3	2869.3	2881.6	2891.3	2907.7	2928.3	2943.4	2962.6	2966.7
7.5°	2850.1	2846.0	2865.2	2887.1	2917.3	2958.5	2998.3	3039.4	3072.4	3083.4
10°	2856.9	2858.3	2884.4	2925.6	2973.6	3031.2	3087.5	3157.5	3204.1	3215.1
12.5°	2888.5	2885.8	2929.7	2995.5	3061.4	3134.1	3200.0	3276.8	3327.6	3353.7
15°	2946.1	2940.7	3002.4	3099.8	3195.9	3281.0	3334.5	3407.2	3466.2	3499.1
17.5°	3014.7	3017.5	3098.5	3224.7	3350.9	3447.0	3497.8	3534.8	3580.1	3608.9
20°	3135.5	3141.0	3231.6	3381.1	3525.2	3635.0	3676.2	3662.4	3674.8	3696.7
22.5°	3297.4	3300.2	3401.7	3563.6	3714.6	3835.3	3862.8	3806.5	3772.2	3787.3
25°	3485.4	3503.3	3604.8	3770.8	3925.9	4041.2	4053.5	3968.4	3883.4	3887.5
27.5°	3714.6	3731.0	3834.0	3998.6	4156.4	4256.6	4255.2	4141.3	4016.5	3984.9
30°	3962.9	3980.8	4086.4	4256.6	4403.4	4491.2	4472.0	4336.2	4157.8	4098.8
32.5°	4258.0	4269.0	4376.0	4546.1	4682.0	4752.0	4712.2	4544.8	4322.5	4255.2
35°	4614.7	4631.2	4710.8	4871.4	4990.7	5048.4	4981.1	4783.5	4533.8	4458.3
37.5°	5022.3	5011.3	5101.9	5244.6	5343.4	5379.1	5287.1	5052.5	4775.3	4686.1
40°	5447.7	5442.2	5541.0	5678.2	5731.7	5753.7	5617.8	5361.2	5053.9	4957.8
42.5°	5833.3	5829.2	5962.3	6114.6	6179.1	6154.4	5982.8	5689.2	5376.3	5266.5
45°	6142.0	6136.5	6299.8	6513.9	6640.1	6599.0	6368.4	6051.5	5702.9	5589.0
47.5°	6379.4	6382.2	6557.8	6822.6	7043.6	7058.7	6762.3	6420.6	6062.4	5933.4
50°	6550.9	6559.2	6747.2	7040.8	7342.7	7475.8	7164.3	6799.3	6434.3	6288.8
52.5°	6593.5	6608.6	6835.0	7179.4	7534.8	7788.7	7573.2	7162.9	6787.0	6648.4
55°	6367.1	6397.3	6684.0	7168.4	7652.8	7994.5	7932.8	7532.1	7142.4	6999.7
57.5°	5847.0	5889.5	6224.4	6856.9	7626.8	8135.8	8211.3	7886.1	7497.8	7360.5
60°	5118.4	5169.1	5490.2	6180.4	7259.0	8188.0	8407.5	8230.5	7824.4	7691.2
62.5°	4019.2	4085.1	4469.3	5278.9	6482.3	7945.1	8575.0	8542.0	8118.0	7952.0
65°	2578.4	2648.4	3053.2	4009.6	5446.3	7201.4	8627.1	8845.3	8428.1	8196.2
67.5°	1554.7	1586.3	1786.6	2430.2	3980.8	6080.3	8185.2	9181.5	8790.4	8502.2
70°	994.9	1012.7	1132.1	1427.1	2250.4	4436.4	7090.2	9244.6	9229.5	8816.5
72.5°	675.1	680.6	712.2	845.3	1273.4	2520.8	5229.5	8369.1	9503.9	9221.3
75°	494.0	524.2	575.0	598.3	723.2	1259.7	2996.9	5879.9	8009.6	8133.1
77.5°	367.8	369.1	439.1	466.6	516.0	671.0	1267.9	3282.3	4972.9	5221.3
80°	311.5	295.0	293.7	376.0	388.3	418.5	566.7	1133.4	1781.1	1079.9
82.5°	259.3	241.5	218.2	293.7	264.8	256.6	245.6	461.1	566.7	278.6
85°	181.1	172.9	164.7	192.1	150.9	129.0	118.0	215.4	238.8	118.0
87.5°	78.2	81.0	82.3	85.1	63.1	45.3	45.3	60.4	60.4	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2878.9
2896.7
2966.7
3086.1
3226.1
3364.7
3511.5
3622.6
3713.2
3798.3
3894.3
3994.5
4105.7
4271.7
4469.3
4702.6
4989.4
5294.0
5615.1
5971.9
6332.8
6684.0
7039.4
7392.1
7720.1
7971.2
8225.0
8524.2
8813.7
9177.4
7834.0
4657.3
816.5
237.4
104.3
34.3
0.0

OF REPORT)