

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: P951218

Luminaire Tested: **GALN-SB5B-940-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951218
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-SB5B-940-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21225 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

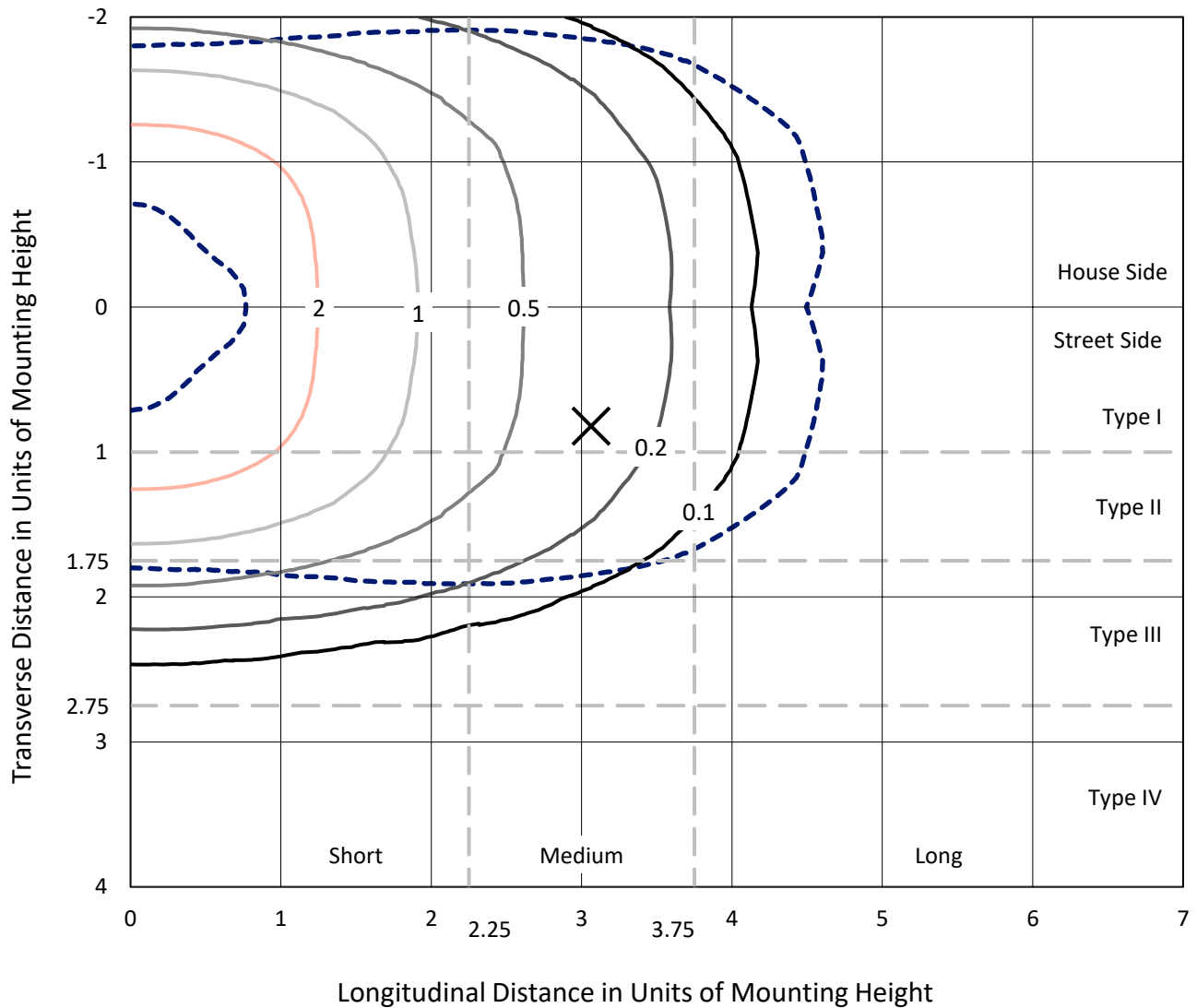
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

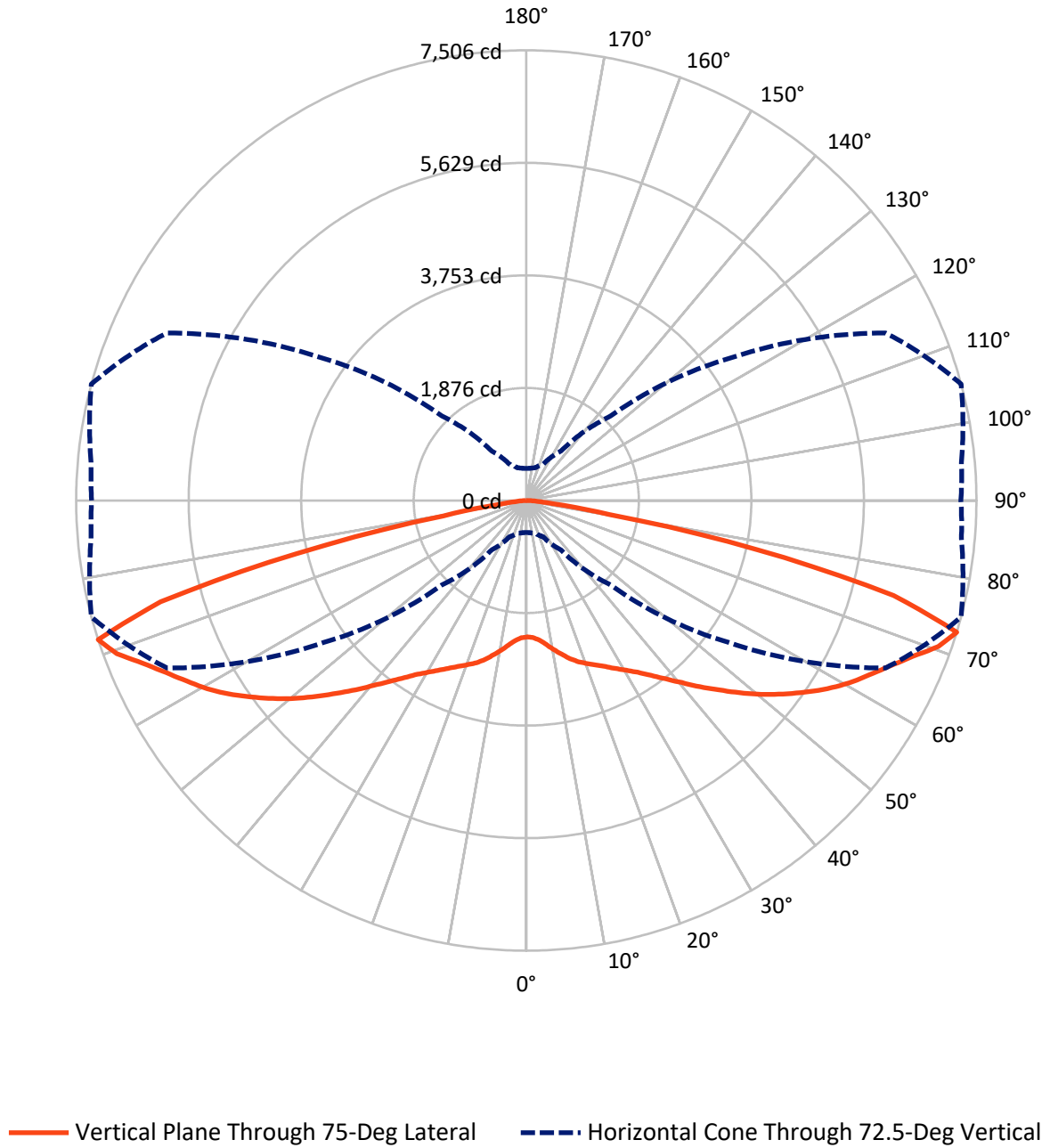
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

REPORT NUMBER: P951218
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10612.5	0.0	10612.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10612.5	0.0	10612.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21225.0	0.0	21225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.0
10°-20°	734.6	3.5
20°-30°	1419.4	6.7
30°-40°	2396.7	11.3
40°-50°	3800.9	17.9
50°-60°	5089.0	24.0
60°-70°	4843.1	22.8
70°-80°	2527.2	11.9
80°-90°	191.3	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°	21225.0	100.0
0°-180°	21225.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951218

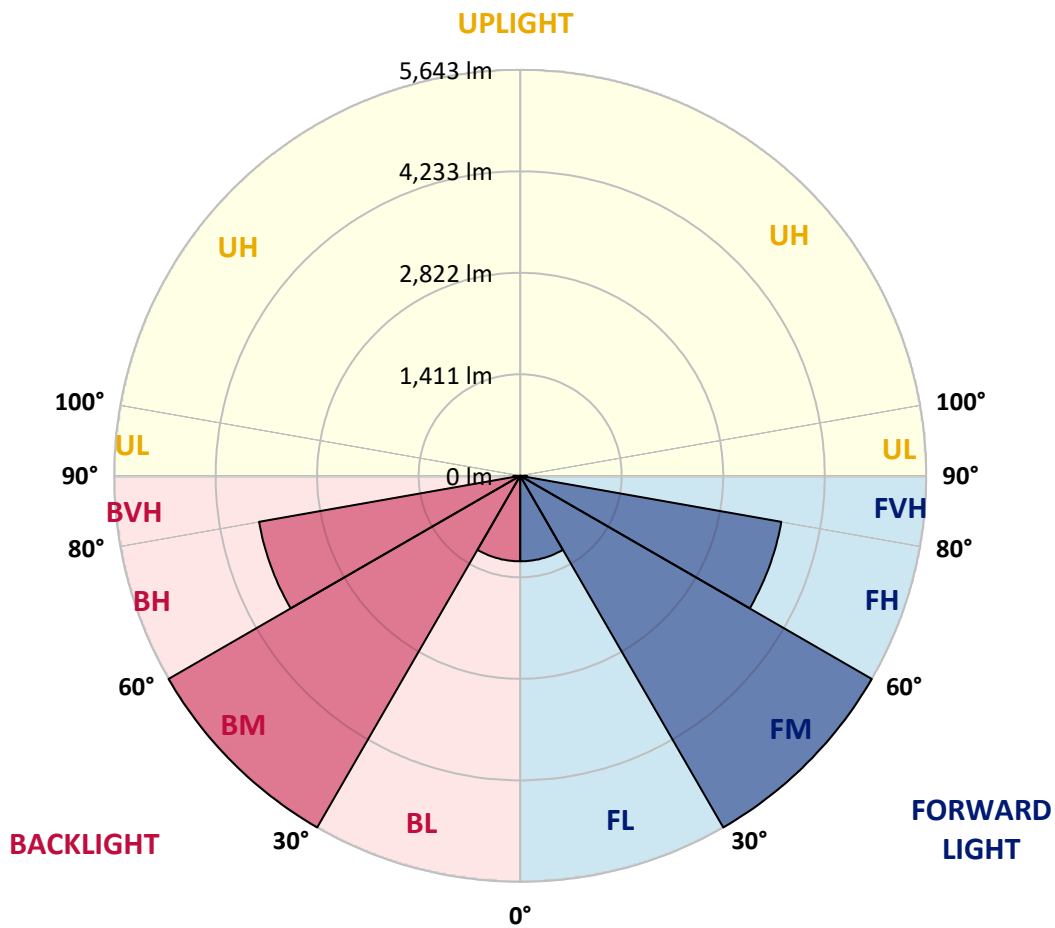
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.3	5.6			
FM (30°-60°)	5643.4	26.6			
FH (60°-80°)	3685.2	17.4			G2/5000
FVH (80°-90°)	95.6	0.5			G1/100
BL (0°-30°)	1188.3	5.6	B3/2500		
BM (30°-60°)	5643.4	26.6	B4/8500		
BH (60°-80°)	3685.2	17.4	B4/5000		G4/5000
BVH (80°-90°)	95.6	0.5			G1/100
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°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	2273.6	2271.4	2273.6	2275.7	2274.7	2274.7	2280.1	2283.3	2289.8	2288.7
5°	2258.4	2257.3	2266.0	2275.7	2283.3	2296.3	2312.6	2324.5	2339.7	2342.9
7.5°	2250.8	2247.6	2262.7	2280.1	2303.9	2336.4	2367.9	2400.4	2426.4	2435.0
10°	2256.2	2257.3	2277.9	2310.4	2348.4	2393.9	2438.3	2493.6	2530.4	2539.1
12.5°	2281.2	2279.0	2313.7	2365.7	2417.7	2475.1	2527.2	2587.8	2627.9	2648.5
15°	2326.7	2322.3	2371.1	2448.1	2523.9	2591.1	2633.4	2690.8	2737.4	2763.4
17.5°	2380.9	2383.0	2447.0	2546.7	2646.4	2722.2	2762.3	2791.6	2827.3	2850.1
20°	2476.2	2480.6	2552.1	2670.2	2784.0	2870.7	2903.2	2892.4	2902.1	2919.5
22.5°	2604.1	2606.3	2686.5	2814.3	2933.5	3028.9	3050.6	3006.2	2979.1	2991.0
25°	2752.6	2766.7	2846.8	2978.0	3100.4	3191.5	3201.2	3134.0	3066.8	3070.1
27.5°	2933.5	2946.5	3027.8	3157.9	3282.5	3361.6	3360.5	3270.6	3172.0	3147.0
30°	3129.7	3143.8	3227.2	3361.6	3477.6	3546.9	3531.7	3424.5	3283.6	3237.0
32.5°	3362.7	3371.4	3455.9	3590.3	3697.5	3752.8	3721.4	3589.2	3413.6	3360.5
35°	3644.4	3657.4	3720.3	3847.1	3941.4	3986.9	3933.8	3777.7	3580.5	3520.9
37.5°	3966.3	3957.6	4029.2	4141.9	4219.9	4248.1	4175.4	3990.1	3771.2	3700.8
40°	4302.2	4297.9	4375.9	4484.3	4526.6	4543.9	4436.6	4234.0	3991.2	3915.4
42.5°	4606.8	4603.5	4708.6	4828.9	4879.8	4860.3	4724.9	4493.0	4245.9	4159.2
45°	4850.6	4846.3	4975.2	5144.3	5244.0	5211.5	5029.4	4779.1	4503.8	4413.9
47.5°	5038.1	5040.2	5178.9	5388.1	5562.6	5574.5	5340.4	5070.6	4787.7	4685.9
50°	5173.5	5180.0	5328.5	5560.4	5798.8	5903.9	5657.9	5369.7	5081.4	4966.5
52.5°	5207.1	5219.0	5397.9	5669.9	5950.5	6151.0	5980.9	5656.9	5359.9	5250.5
55°	5028.3	5052.2	5278.6	5661.2	6043.7	6313.6	6264.8	5948.4	5640.6	5527.9
57.5°	4617.6	4651.2	4915.6	5415.2	6023.1	6425.2	6484.8	6228.0	5921.3	5812.9
60°	4042.2	4082.3	4335.8	4880.9	5732.7	6466.4	6639.8	6500.0	6179.2	6074.1
62.5°	3174.1	3226.1	3529.6	4168.9	5119.3	6274.6	6772.0	6746.0	6411.1	6280.0
65°	2036.2	2091.5	2411.2	3166.5	4301.2	5687.2	6813.1	6985.5	6656.0	6472.9
67.5°	1227.8	1252.7	1411.0	1919.2	3143.8	4801.8	6464.2	7251.0	6942.1	6714.5
70°	785.7	799.8	894.0	1127.0	1777.2	3503.6	5599.4	7300.8	7288.9	6962.7
72.5°	533.2	537.5	562.4	667.6	1005.7	1990.7	4129.9	6609.4	7505.6	7282.4
75°	390.1	414.0	454.1	472.5	571.1	994.8	2366.8	4643.6	6325.5	6423.0
77.5°	290.4	291.5	346.8	368.5	407.5	529.9	1001.3	2592.2	3927.3	4123.4
80°	246.0	233.0	231.9	296.9	306.7	330.5	447.6	895.1	1406.6	852.9
82.5°	204.8	190.7	172.3	231.9	209.2	202.6	194.0	364.1	447.6	220.0
85°	143.0	136.5	130.0	151.7	119.2	101.9	93.2	170.1	188.6	93.2
87.5°	61.8	63.9	65.0	67.2	49.8	35.8	35.8	47.7	47.7	36.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2273.6
2287.7
2342.9
2437.2
2547.8
2657.2
2773.2
2860.9
2932.5
2999.6
3075.5
3154.6
3242.4
3373.5
3529.6
3713.8
3940.3
4180.9
4434.5
4716.2
5001.2
5278.6
5559.3
5837.8
6096.8
6295.1
6495.6
6731.9
6960.5
7247.7
6186.8
3678.0
644.8
187.5
82.4
27.1
0.0

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