

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: LUMARK

Report Number: P883655

Luminaire Tested: **NAV-SB4A-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15174 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

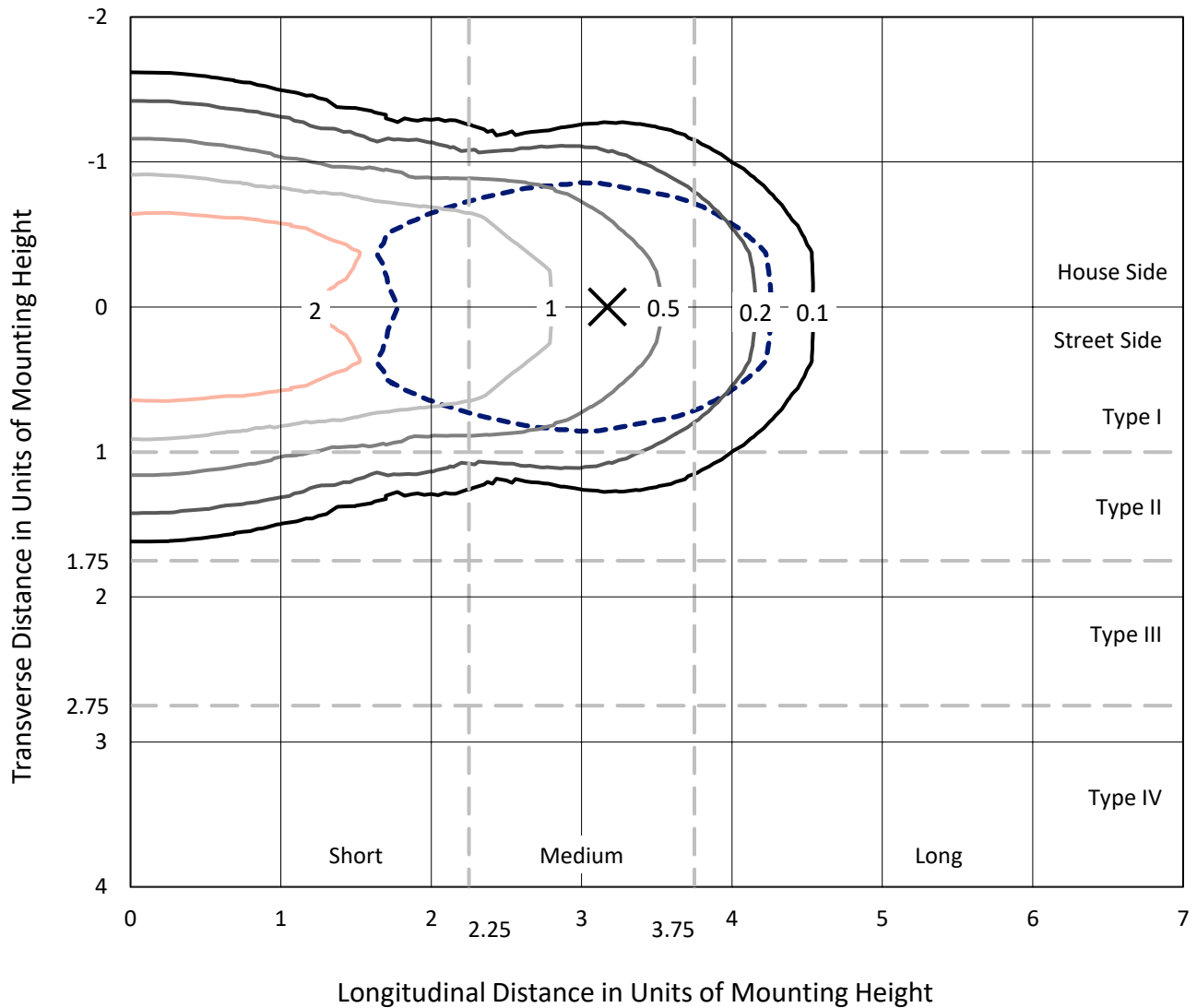
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

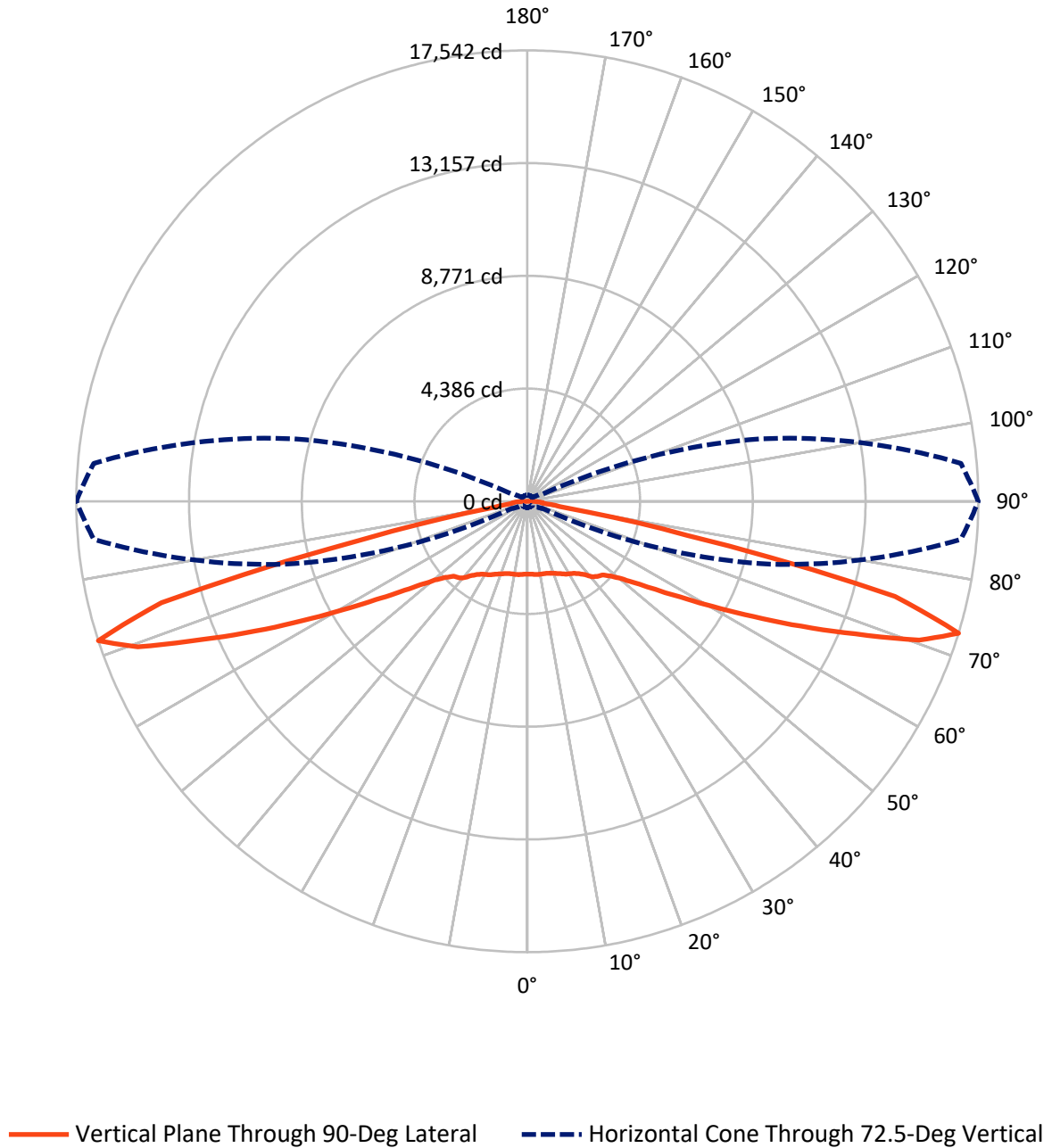
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7587.0	0.0	7587.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7587.0	0.0	7587.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15174.0	0.0	15174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	1.8
10°-20°	840.6	5.5
20°-30°	1401.7	9.2
30°-40°	1927.7	12.7
40°-50°	2354.3	15.5
50°-60°	2723.0	17.9
60°-70°	3246.7	21.4
70°-80°	2266.0	14.9
80°-90°	139.2	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°	15174.0	100.0
0°-180°	15174.0	100.0

Coefficient of Utilization



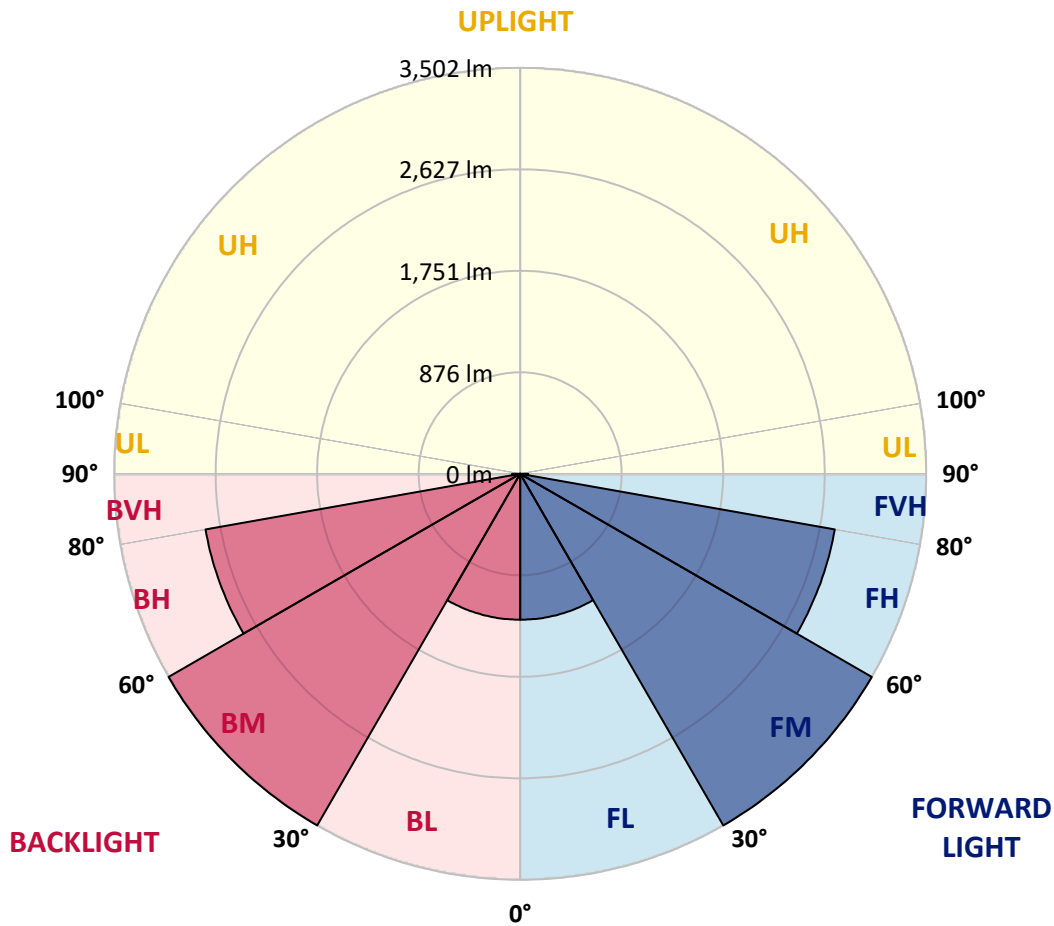
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.6	8.3			
FM (30°-60°)	3502.5	23.1			
FH (60°-80°)	2756.3	18.2			G2/5000
FVH (80°-90°)	69.6	0.5			G1/100
BL (0°-30°)	1258.6	8.3	B3/2500		
BM (30°-60°)	3502.5	23.1	B3/5000		
BH (60°-80°)	2756.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	69.6	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2835.4	2835.4	2835.4	2835.4	2835.4	2835.4	2835.4	2835.4	2835.4	2835.4	2835.4
2.5°	2837.8	2841.1	2841.1	2838.6	2844.3	2839.5	2839.5	2837.0	2839.5	2837.0	2837.0
5°	2852.4	2856.4	2858.0	2857.2	2864.5	2860.4	2860.4	2857.2	2858.0	2855.6	2855.6
7.5°	2879.8	2885.4	2888.6	2892.7	2903.2	2898.3	2895.1	2885.4	2881.4	2874.9	2874.9
10°	2888.6	2895.1	2905.6	2926.5	2950.7	2951.5	2941.9	2917.7	2899.1	2884.6	2882.2
12.5°	2861.2	2870.1	2891.9	2934.6	2988.6	3010.4	2995.1	2954.8	2918.5	2892.7	2888.6
15°	2826.6	2836.2	2869.3	2933.8	3013.6	3064.4	3062.8	3009.6	2951.5	2911.2	2904.8
17.5°	2772.5	2782.2	2829.8	2920.1	3033.0	3116.9	3139.4	3084.6	3003.2	2949.1	2940.3
20°	2674.9	2683.8	2749.9	2876.6	3039.4	3172.5	3231.4	3183.0	3081.4	3008.0	2994.3
22.5°	2548.3	2562.0	2639.5	2801.6	3024.1	3230.6	3336.2	3303.2	3172.5	3070.9	3052.4
25°	2412.9	2427.4	2517.7	2709.6	2984.6	3272.5	3460.4	3439.4	3275.7	3149.1	3123.3
27.5°	2295.9	2311.2	2409.6	2618.5	2923.3	3288.6	3583.0	3593.5	3400.7	3235.4	3208.0
30°	2204.0	2218.5	2323.3	2545.1	2844.3	3272.5	3690.2	3762.8	3528.1	3310.4	3270.9
32.5°	2103.2	2121.7	2232.2	2455.6	2750.7	3233.8	3783.8	3945.9	3675.7	3391.1	3341.1
35°	1975.8	1992.7	2108.8	2333.0	2628.2	3171.7	3862.0	4149.1	3887.0	3513.6	3458.0
37.5°	1820.9	1837.1	1952.4	2179.8	2506.4	3084.6	3921.7	4378.1	4138.6	3690.2	3616.1
40°	1665.3	1680.6	1788.7	2008.8	2360.4	2973.3	3942.7	4602.3	4427.3	3933.0	3853.9
42.5°	1522.5	1536.3	1635.4	1840.3	2196.7	2831.4	3915.2	4797.5	4686.2	4102.3	4000.7
45°	1391.1	1403.2	1491.1	1682.2	2026.6	2658.8	3833.0	5007.1	4994.2	4223.3	4086.2
47.5°	1241.1	1253.2	1344.3	1529.0	1856.4	2456.4	3693.5	5213.6	5422.5	4497.5	4339.4
50°	1058.0	1068.5	1162.1	1352.4	1679.8	2241.1	3499.9	5375.7	5962.8	4912.8	4714.4
52.5°	841.1	852.4	943.5	1133.8	1470.1	2009.6	3245.1	5481.3	6587.0	5519.2	5274.9
55°	625.8	633.9	712.9	883.9	1210.5	1745.9	2925.7	5511.2	7295.0	6348.2	6042.6
57.5°	454.0	458.9	509.7	637.1	917.7	1416.1	2537.8	5433.8	8137.7	7411.1	7026.5
60°	367.7	369.3	384.7	441.1	637.9	1043.5	2069.3	5167.6	9052.2	8781.3	8296.6
62.5°	333.9	333.9	337.9	353.2	431.4	688.7	1502.4	4616.0	10032.8	10512.7	9863.5
65°	310.5	310.5	312.1	319.3	340.3	438.7	948.4	3717.7	10859.4	12540.9	11719.9
67.5°	289.5	290.3	289.5	291.9	304.0	324.2	550.0	2567.7	11304.6	14642.4	13756.2
70°	267.7	269.3	265.3	265.3	275.0	275.8	344.3	1408.0	10935.2	16403.7	16170.6
72.5°	241.9	244.3	237.9	236.3	243.5	240.3	258.9	675.8	9388.5	16929.5	17542.4
75°	219.4	222.6	208.1	204.0	204.0	201.6	210.5	346.8	6093.4	13810.2	14771.5
77.5°	199.2	205.6	182.3	169.4	166.1	158.9	171.8	212.1	2665.3	6483.7	6349.1
80°	164.5	173.4	150.0	134.7	129.0	121.0	135.5	148.4	792.7	1505.6	1441.9
82.5°	122.6	126.6	106.4	96.0	91.1	85.5	101.6	103.2	258.1	533.1	602.4
85°	78.2	79.8	65.3	56.5	54.0	51.6	64.5	56.5	98.4	391.9	569.3
87.5°	27.4	31.5	25.0	22.6	24.2	20.2	29.8	16.9	27.4	276.6	342.7
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)