

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: P883635

Luminaire Tested: **NAV-SB4A-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883635
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-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14612 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

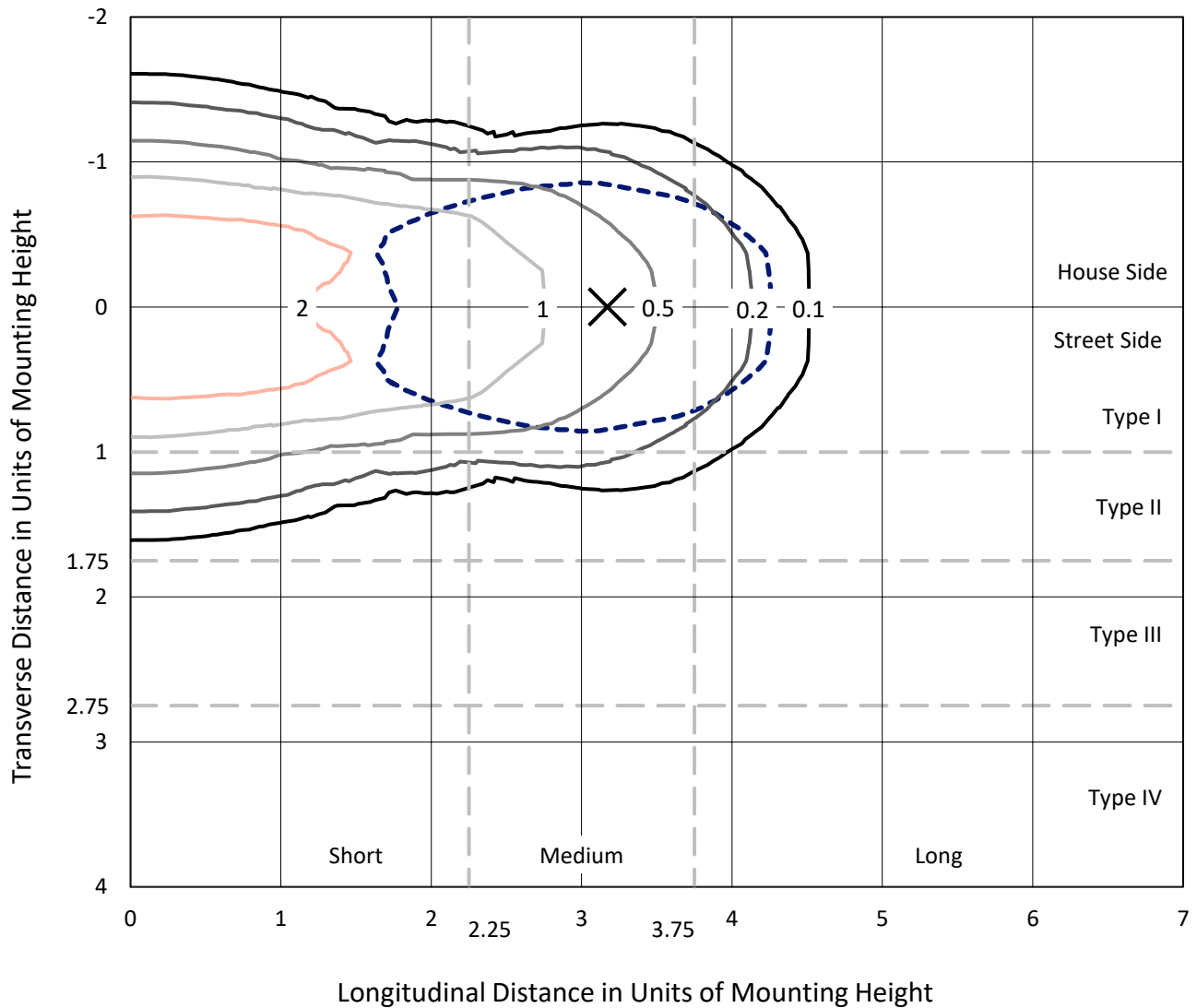
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

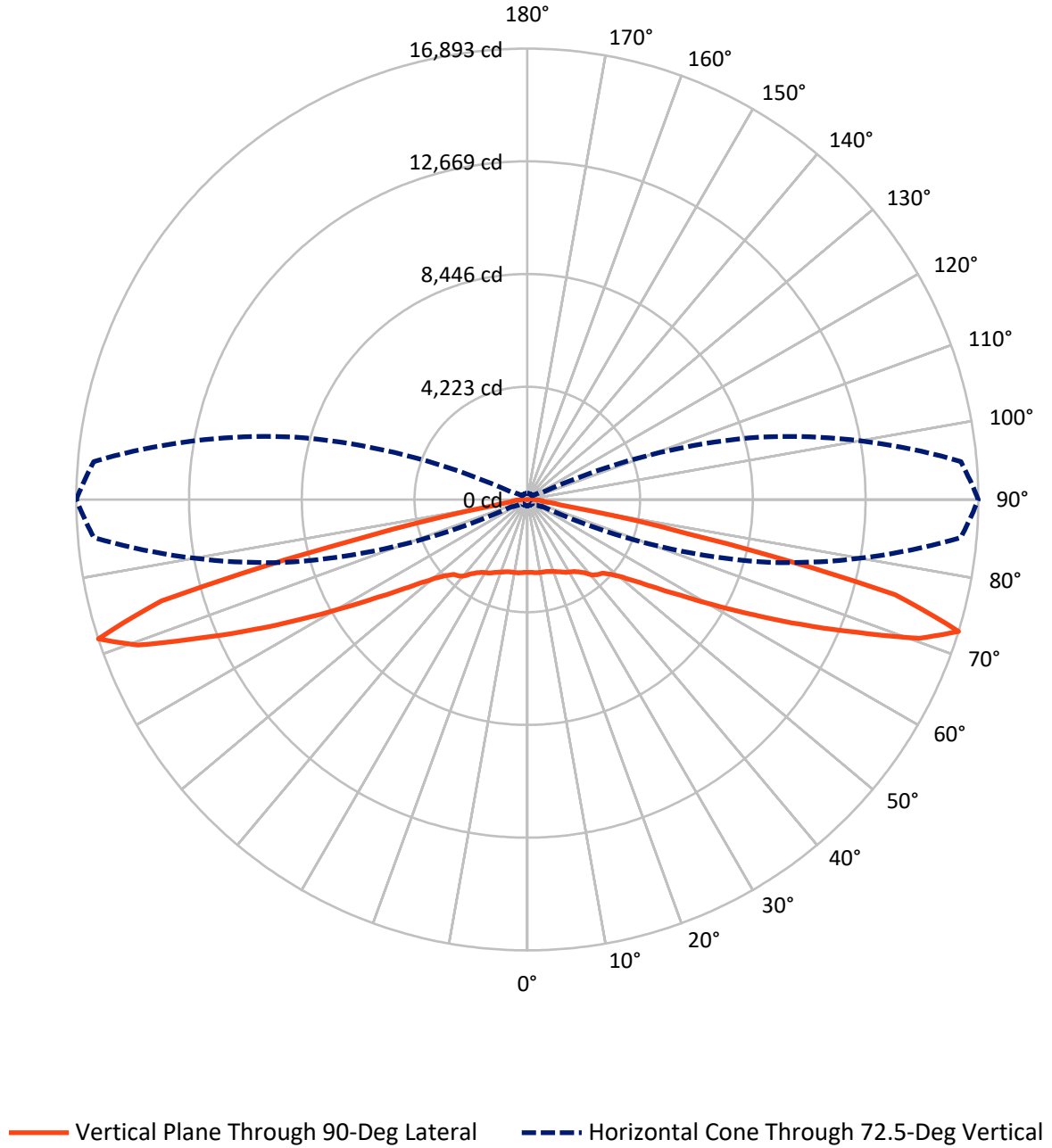
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	7306.0	0.0	7306.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7306.0	0.0	7306.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14612.0	0.0	14612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.8
10°-20°	809.5	5.5
20°-30°	1349.8	9.2
30°-40°	1856.3	12.7
40°-50°	2267.1	15.5
50°-60°	2622.1	17.9
60°-70°	3126.4	21.4
70°-80°	2182.1	14.9
80°-90°	134.0	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°	14612.0	100.0
0°-180°	14612.0	100.0

Coefficient of Utilization



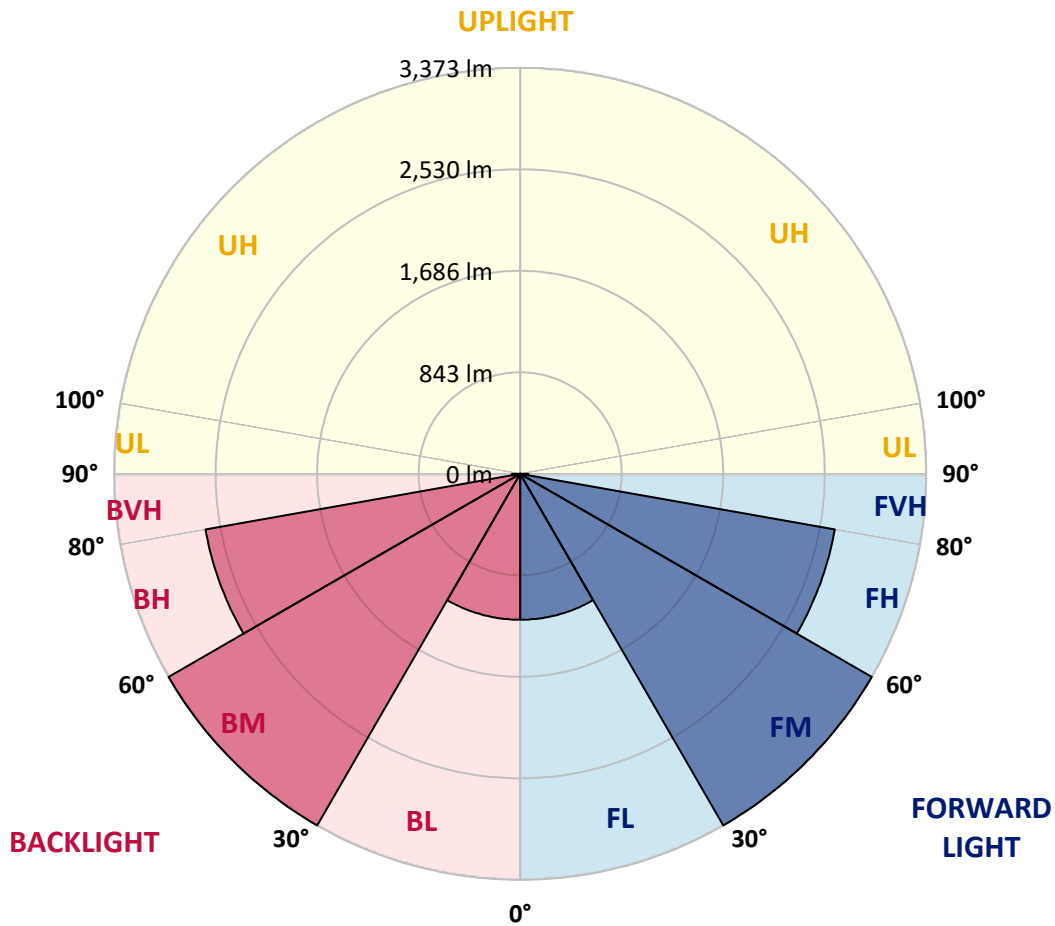
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.0	8.3			
FM (30°-60°)	3372.8	23.1			
FH (60°-80°)	2654.2	18.2			G2/5000
FVH (80°-90°)	67.0	0.5			G1/100
BL (0°-30°)	1212.0	8.3	B3/2500		
BM (30°-60°)	3372.8	23.1	B3/5000		
BH (60°-80°)	2654.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	67.0	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°	2730.4	2730.4	2730.4	2730.4	2730.4	2730.4	2730.4	2730.4	2730.4	2730.4	2730.4
2.5°	2732.7	2735.8	2735.8	2733.5	2738.9	2734.3	2734.3	2732.0	2734.3	2732.0	2732.0
5°	2746.7	2750.6	2752.2	2751.4	2758.4	2754.5	2754.5	2751.4	2752.2	2749.8	2749.8
7.5°	2773.1	2778.6	2781.7	2785.5	2795.6	2791.0	2787.9	2778.6	2774.7	2768.5	2768.5
10°	2781.7	2787.9	2798.0	2818.2	2841.5	2842.2	2832.9	2809.6	2791.8	2777.8	2775.4
12.5°	2755.3	2763.8	2784.8	2825.9	2878.0	2898.9	2884.2	2845.3	2810.4	2785.5	2781.7
15°	2721.9	2731.2	2763.0	2825.1	2902.0	2951.0	2949.4	2898.1	2842.2	2803.4	2797.2
17.5°	2669.8	2679.2	2725.0	2811.9	2920.7	3001.4	3023.2	2970.4	2891.9	2839.9	2831.4
20°	2575.9	2584.4	2648.1	2770.0	2926.9	3055.0	3111.7	3065.1	2967.3	2896.6	2883.4
22.5°	2453.9	2467.2	2541.7	2697.8	2912.1	3110.9	3212.7	3180.8	3055.0	2957.2	2939.3
25°	2323.5	2337.5	2424.4	2609.3	2874.1	3151.3	3332.2	3312.1	3154.4	3032.5	3007.6
27.5°	2210.9	2225.6	2320.4	2521.5	2815.1	3166.8	3450.3	3460.4	3274.8	3115.6	3089.2
30°	2122.4	2136.3	2237.3	2450.8	2738.9	3151.3	3553.6	3623.5	3397.5	3187.8	3149.8
32.5°	2025.3	2043.1	2149.5	2364.6	2648.9	3114.0	3643.6	3799.7	3539.6	3265.5	3217.3
35°	1902.6	1918.9	2030.7	2246.6	2530.8	3054.2	3719.0	3995.4	3743.0	3383.5	3329.9
37.5°	1753.5	1769.0	1880.1	2099.1	2413.6	2970.4	3776.4	4216.0	3985.3	3553.6	3482.1
40°	1603.6	1618.4	1722.4	1934.4	2273.0	2863.2	3796.6	4431.9	4263.3	3787.3	3711.2
42.5°	1466.2	1479.4	1574.9	1772.1	2115.4	2726.5	3770.2	4619.8	4512.6	3950.4	3852.5
45°	1339.6	1351.2	1435.9	1619.9	1951.5	2560.3	3691.0	4821.7	4809.3	4066.9	3934.9
47.5°	1195.1	1206.8	1294.5	1472.4	1787.7	2365.4	3556.7	5020.5	5221.6	4330.9	4178.7
50°	1018.9	1029.0	1119.0	1302.3	1617.6	2158.1	3370.3	5176.6	5741.9	4730.8	4539.8
52.5°	810.0	820.8	908.6	1091.9	1415.7	1935.2	3124.9	5278.3	6343.0	5314.8	5079.5
55°	602.6	610.4	686.5	851.1	1165.6	1681.3	2817.4	5307.1	7024.8	6113.1	5818.8
57.5°	437.2	441.9	490.8	613.5	883.7	1363.7	2443.9	5232.5	7836.3	7136.6	6766.2
60°	354.1	355.7	370.4	424.8	614.3	1004.9	1992.7	4976.2	8717.0	8456.0	7989.3
62.5°	321.5	321.5	325.4	340.1	415.5	663.2	1446.7	4445.1	9661.3	10123.3	9498.2
65°	299.0	299.0	300.5	307.5	327.7	422.5	913.2	3580.0	10457.2	12076.4	11285.8
67.5°	278.8	279.6	278.8	281.1	292.8	312.2	529.6	2472.6	10885.9	14100.1	13246.7
70°	257.8	259.4	255.5	255.5	264.8	265.6	331.6	1355.9	10530.2	15796.1	15571.7
72.5°	233.0	235.3	229.1	227.5	234.5	231.4	249.3	650.8	9040.8	16302.5	16892.6
75°	211.2	214.3	200.4	196.5	196.5	194.1	202.7	333.9	5867.7	13298.7	14224.4
77.5°	191.8	198.0	175.5	163.1	160.0	153.0	165.4	204.2	2566.6	6243.6	6113.9
80°	158.4	167.0	144.4	129.7	124.3	116.5	130.5	142.9	763.4	1449.8	1388.5
82.5°	118.0	121.9	102.5	92.4	87.8	82.3	97.8	99.4	248.5	513.3	580.1
85°	75.3	76.9	62.9	54.4	52.0	49.7	62.1	54.4	94.7	377.4	548.3
87.5°	26.4	30.3	24.1	21.7	23.3	19.4	28.7	16.3	26.4	266.4	330.0
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)