

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: P882565

Luminaire Tested: **NAV-SB2C-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882565
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-SB2C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14864 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

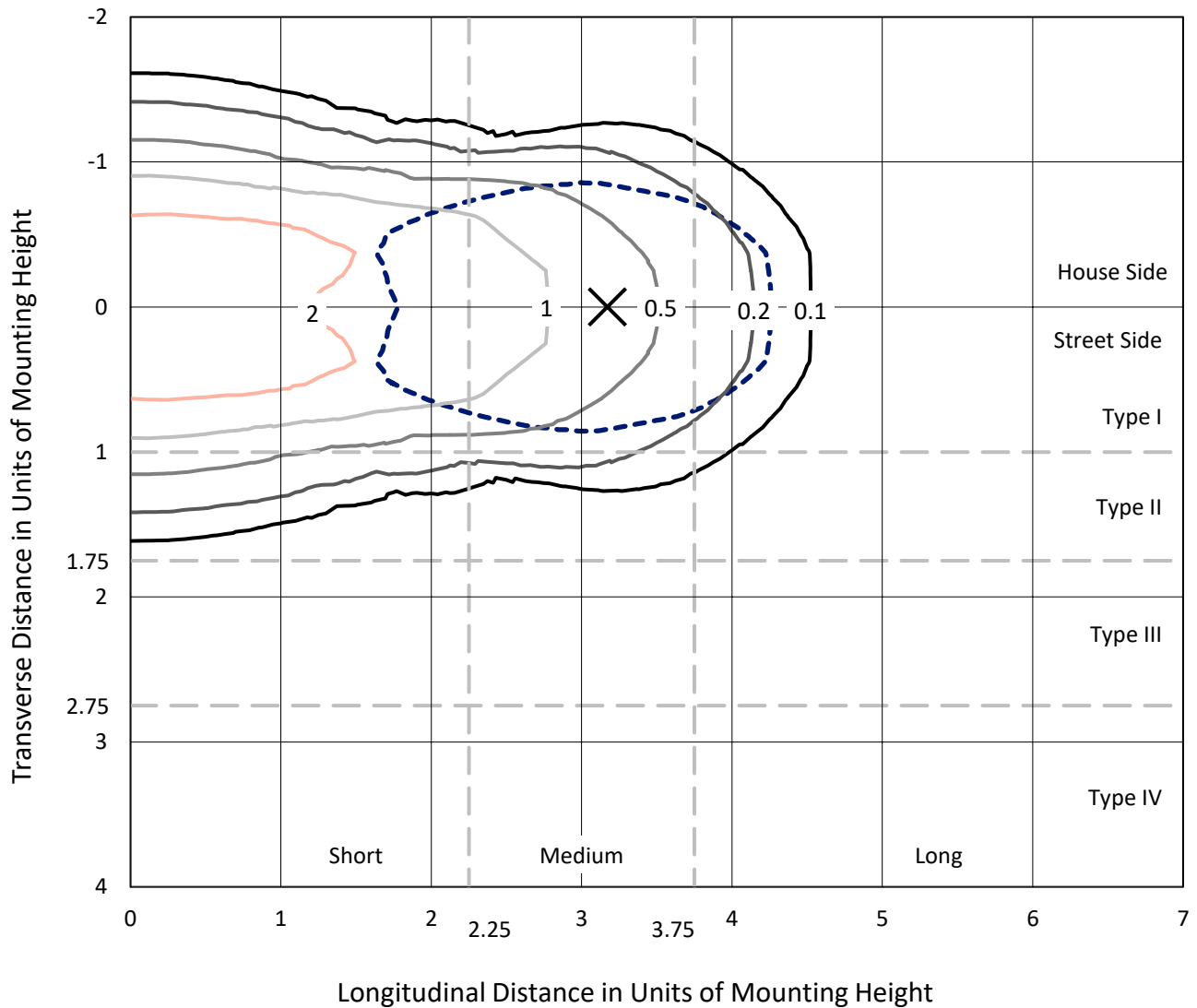
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

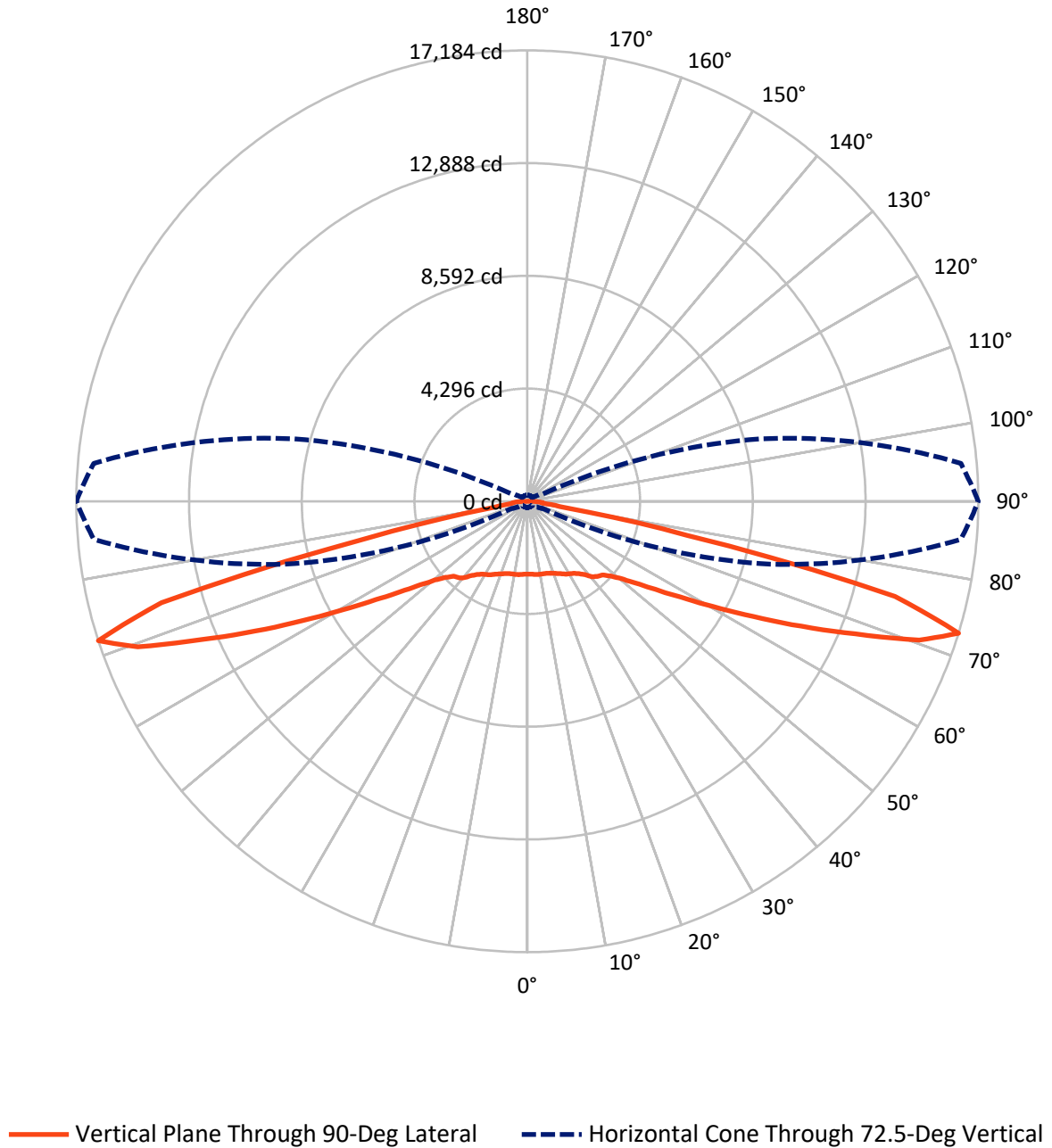
× Max cd
 - - - 1/2 Max cd



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	7432.0	0.0	7432.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7432.0	0.0	7432.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14864.0	0.0	14864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	1.8
10°-20°	823.4	5.5
20°-30°	1373.0	9.2
30°-40°	1888.3	12.7
40°-50°	2306.2	15.5
50°-60°	2667.3	17.9
60°-70°	3180.4	21.4
70°-80°	2219.7	14.9
80°-90°	136.3	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°	14864.0	100.0
0°-180°	14864.0	100.0

Coefficient of Utilization

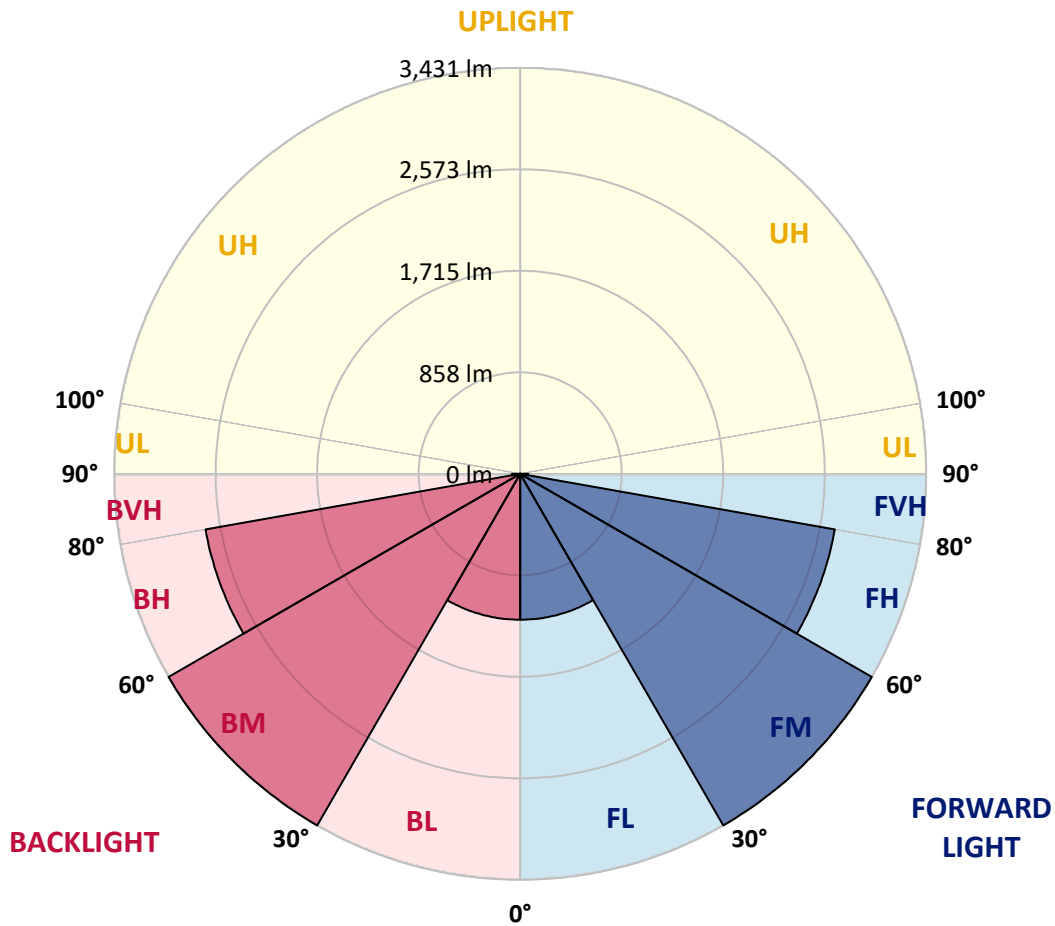


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.9	8.3			
FM (30°-60°)	3430.9	23.1			
FH (60°-80°)	2700.0	18.2			G2/5000
FVH (80°-90°)	68.2	0.5			G1/100
BL (0°-30°)	1232.9	8.3	B3/2500		
BM (30°-60°)	3430.9	23.1	B3/5000		
BH (60°-80°)	2700.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	68.2	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°	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5
2.5°	2779.9	2783.0	2783.0	2780.7	2786.2	2781.4	2781.4	2779.1	2781.4	2779.1	2779.1
5°	2794.1	2798.0	2799.6	2798.8	2805.9	2802.0	2802.0	2798.8	2799.6	2797.2	2797.2
7.5°	2820.9	2826.5	2829.6	2833.6	2843.9	2839.1	2836.0	2826.5	2822.5	2816.2	2816.2
10°	2829.6	2836.0	2846.2	2866.8	2890.5	2891.2	2881.8	2858.1	2839.9	2825.7	2823.3
12.5°	2802.8	2811.5	2832.8	2874.7	2927.6	2948.9	2933.9	2894.4	2858.9	2833.6	2829.6
15°	2768.8	2778.3	2810.7	2873.9	2952.1	3001.8	3000.3	2948.1	2891.2	2851.8	2845.4
17.5°	2715.9	2725.4	2772.0	2860.4	2971.0	3053.2	3075.3	3021.6	2941.8	2888.9	2880.2
20°	2620.3	2629.0	2693.8	2817.8	2977.4	3107.7	3165.4	3118.0	3018.4	2946.5	2933.1
22.5°	2496.3	2509.7	2585.5	2744.3	2962.3	3164.6	3268.1	3235.7	3107.7	3008.2	2990.0
25°	2363.6	2377.8	2466.3	2654.3	2923.6	3205.7	3389.7	3369.2	3208.8	3084.8	3059.5
27.5°	2249.0	2264.0	2360.4	2565.0	2863.6	3221.5	3509.8	3520.1	3331.3	3169.3	3142.5
30°	2159.0	2173.2	2275.9	2493.1	2786.2	3205.7	3614.9	3685.9	3456.1	3242.8	3204.1
32.5°	2060.2	2078.4	2186.6	2405.4	2694.5	3167.7	3706.5	3865.3	3600.6	3321.8	3272.8
35°	1935.4	1952.0	2065.7	2285.4	2574.5	3106.9	3783.1	4064.3	3807.6	3441.9	3387.3
37.5°	1783.7	1799.5	1912.5	2135.3	2455.2	3021.6	3841.6	4288.7	4054.1	3614.9	3542.2
40°	1631.3	1646.3	1752.1	1967.8	2312.2	2912.6	3862.1	4508.3	4336.9	3852.6	3775.2
42.5°	1491.4	1504.9	1602.0	1802.7	2151.8	2773.5	3835.3	4699.5	4590.5	4018.5	3919.0
45°	1362.7	1374.5	1460.6	1647.9	1985.2	2604.5	3754.7	4904.9	4892.2	4137.0	4002.7
47.5°	1215.7	1227.6	1316.9	1497.8	1818.5	2406.2	3618.0	5107.1	5311.7	4405.6	4250.8
50°	1036.4	1046.7	1138.3	1324.8	1645.5	2195.3	3428.4	5265.9	5841.0	4812.4	4618.1
52.5°	823.9	835.0	924.3	1110.7	1440.1	1968.6	3178.8	5369.4	6452.4	5406.5	5167.1
55°	613.0	620.9	698.3	865.8	1185.7	1710.3	2866.0	5398.6	7146.0	6218.6	5919.2
57.5°	444.7	449.5	499.3	624.1	899.0	1387.2	2486.0	5322.7	7971.5	7259.7	6882.9
60°	360.2	361.8	376.8	432.1	624.9	1022.2	2027.0	5062.1	8867.3	8601.9	8127.1
62.5°	327.0	327.0	331.0	346.0	422.6	674.6	1471.7	4521.7	9827.9	10297.9	9662.0
65°	304.1	304.1	305.7	312.8	333.4	429.7	929.0	3641.7	10637.6	12284.7	11480.5
67.5°	283.6	284.4	283.6	286.0	297.8	317.6	538.8	2515.2	11073.6	14343.3	13475.1
70°	262.3	263.8	259.9	259.9	269.4	270.2	337.3	1379.3	10711.8	16068.6	15840.3
72.5°	237.0	239.4	233.0	231.5	238.6	235.4	253.6	662.0	9196.7	16583.6	17184.0
75°	214.9	218.0	203.8	199.9	199.9	197.5	206.2	339.7	5968.9	13528.0	14469.7
77.5°	195.1	201.4	178.5	165.9	162.7	155.6	168.3	207.8	2610.8	6351.3	6219.3
80°	161.2	169.8	146.9	131.9	126.4	118.5	132.7	145.4	776.5	1474.9	1412.4
82.5°	120.1	124.0	104.3	94.0	89.3	83.7	99.5	101.1	252.8	522.2	590.1
85°	76.6	78.2	64.0	55.3	52.9	50.6	63.2	55.3	96.4	383.9	557.7
87.5°	26.9	30.8	24.5	22.1	23.7	19.7	29.2	16.6	26.9	271.0	335.7
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)