

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: P884245

Luminaire Tested: **NAV-SB5A-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884245
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-SB5A-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17944 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

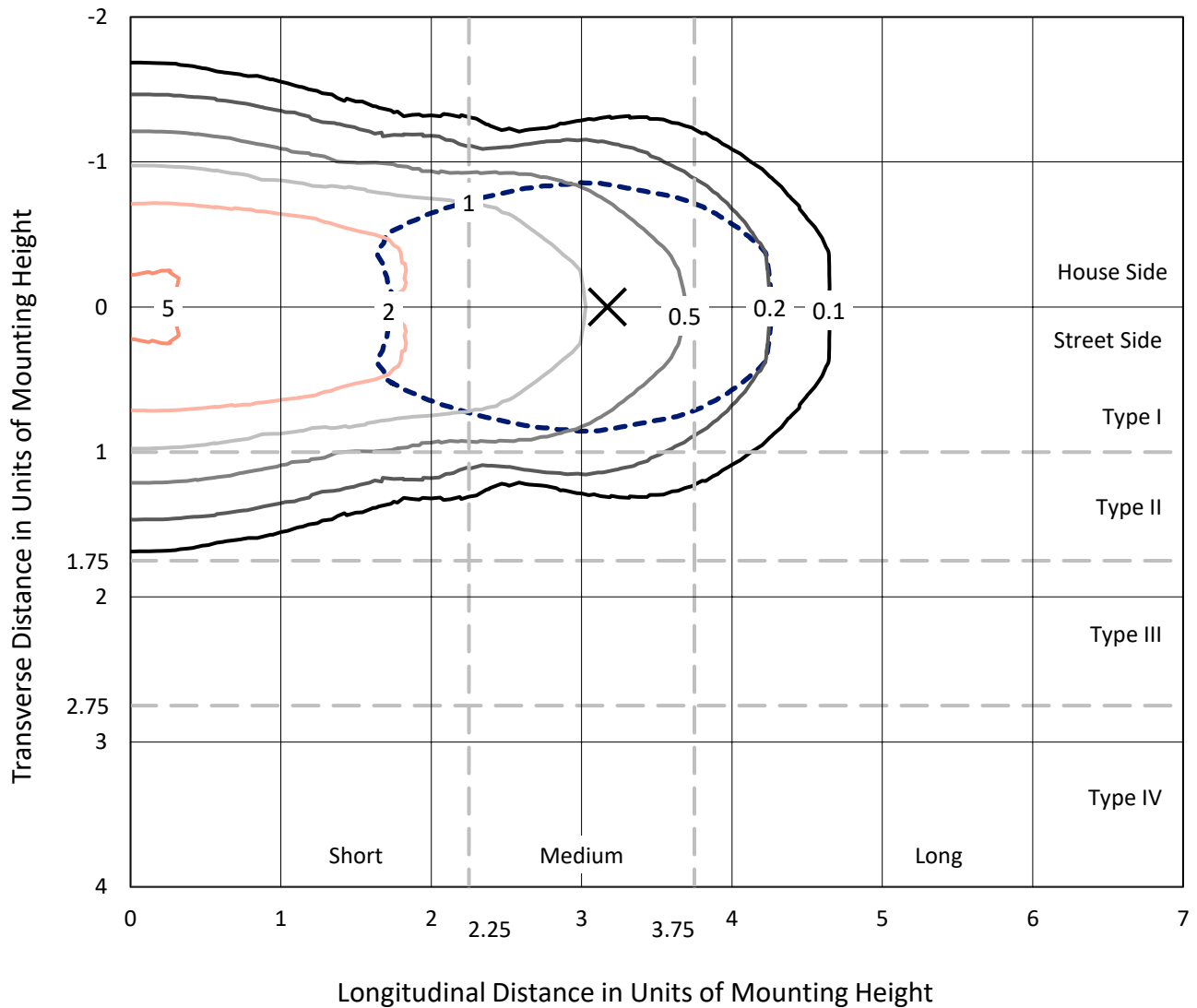
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

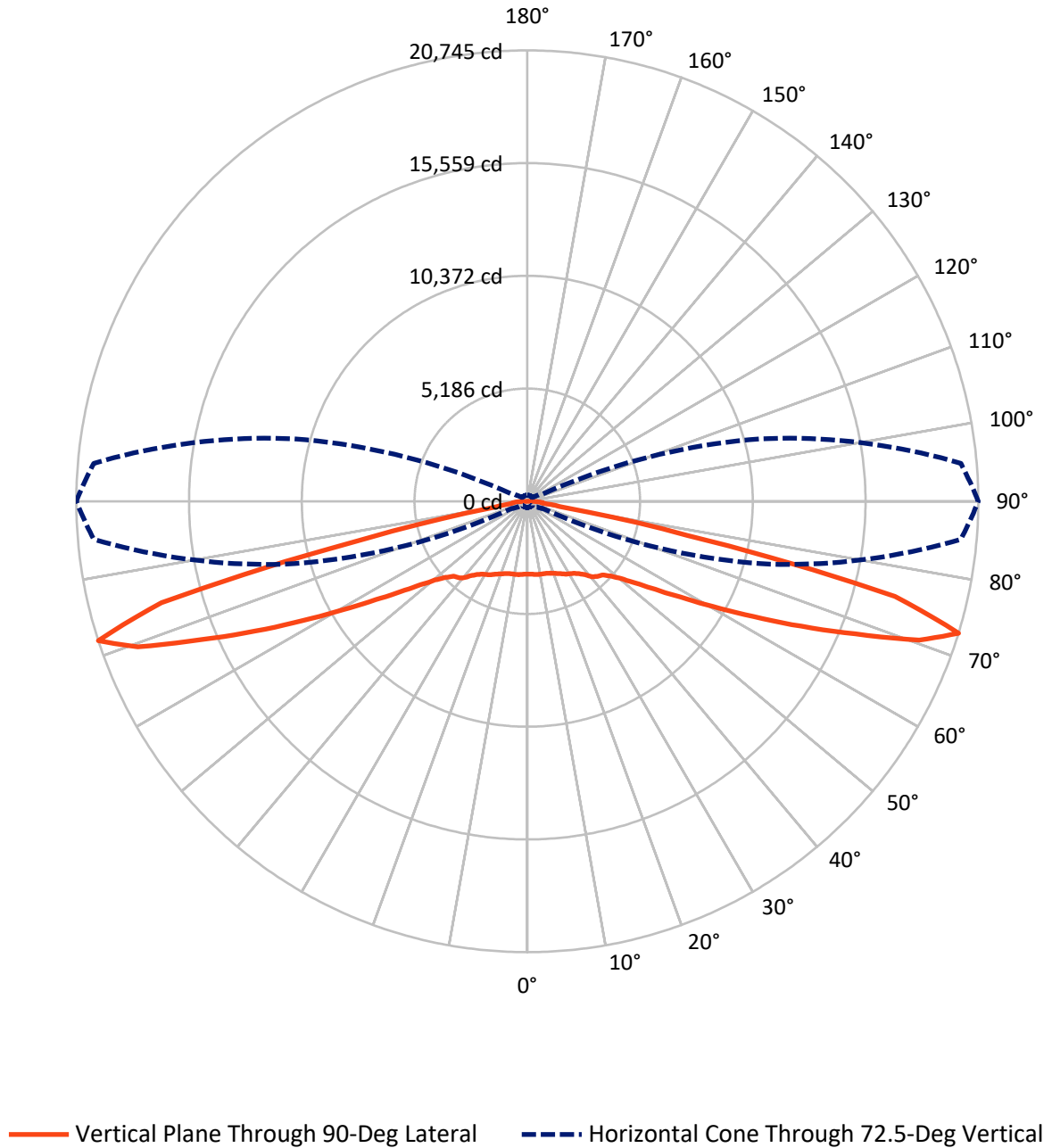
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	8972.0	0.0	8972.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8972.0	0.0	8972.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17944.0	0.0	17944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.1	1.8
10°-20°	994.1	5.5
20°-30°	1657.5	9.2
30°-40°	2279.6	12.7
40°-50°	2784.0	15.5
50°-60°	3220.0	17.9
60°-70°	3839.4	21.4
70°-80°	2679.6	14.9
80°-90°	164.6	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°	17944.0	100.0
0°-180°	17944.0	100.0

Coefficient of Utilization



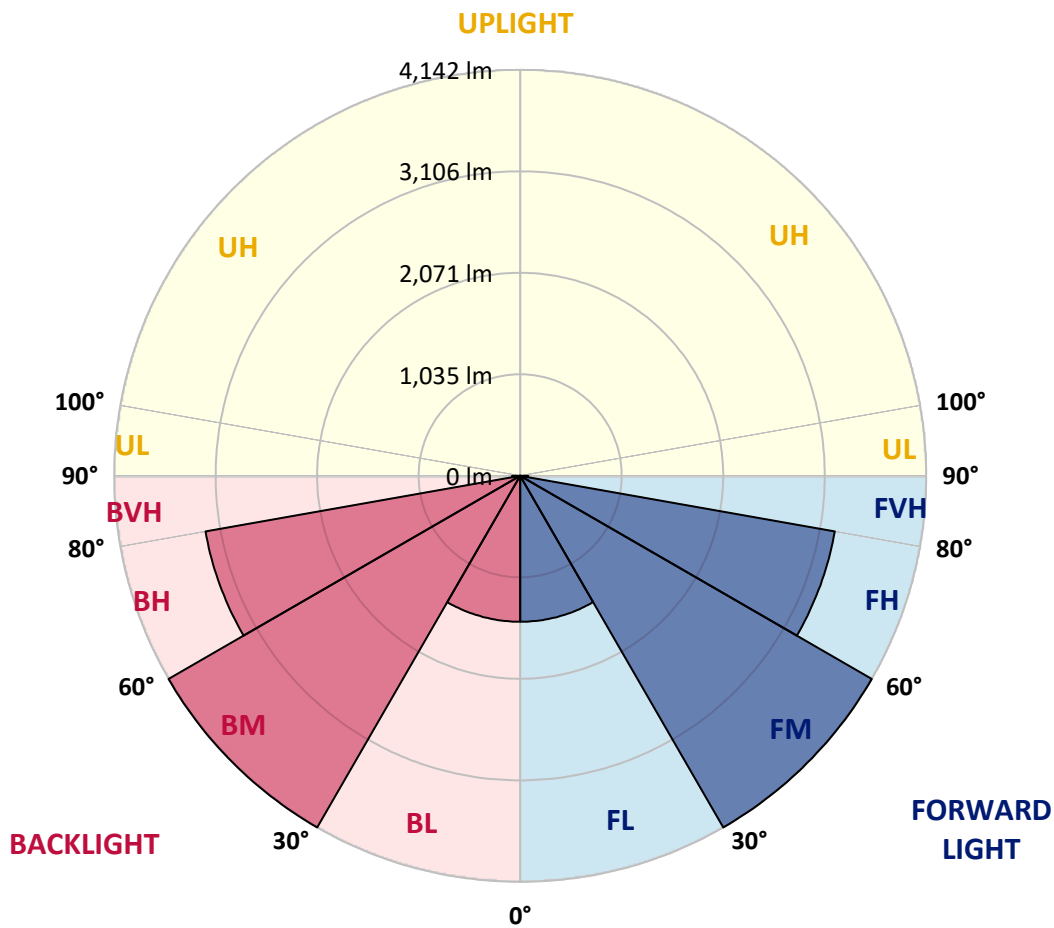
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.4	8.3			
FM (30°-60°)	4141.8	23.1			
FH (60°-80°)	3259.5	18.2			G2/5000
FVH (80°-90°)	82.3	0.5			G1/100
BL (0°-30°)	1488.4	8.3	B3/2500		
BM (30°-60°)	4141.8	23.1	B3/5000		
BH (60°-80°)	3259.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	82.3	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°	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0
2.5°	3355.9	3359.7	3359.7	3356.8	3363.5	3357.8	3357.8	3354.9	3357.8	3354.9	3354.9
5°	3373.1	3377.8	3379.7	3378.8	3387.4	3382.6	3382.6	3378.8	3379.7	3376.9	3376.9
7.5°	3405.5	3412.2	3416.0	3420.7	3433.1	3427.4	3423.6	3412.2	3407.4	3399.8	3399.8
10°	3416.0	3423.6	3436.0	3460.8	3489.4	3490.4	3478.9	3450.3	3428.4	3411.2	3408.3
12.5°	3383.5	3394.0	3419.8	3470.3	3534.2	3560.0	3541.8	3494.2	3451.3	3420.7	3416.0
15°	3342.5	3354.0	3393.1	3469.4	3563.8	3623.9	3622.0	3559.0	3490.4	3442.7	3435.0
17.5°	3278.6	3290.1	3346.4	3453.2	3586.7	3685.8	3712.6	3647.7	3551.4	3487.5	3477.0
20°	3163.2	3173.7	3251.9	3401.7	3594.3	3751.7	3821.3	3764.0	3643.9	3557.1	3540.9
22.5°	3013.5	3029.7	3121.3	3313.0	3576.2	3820.3	3945.2	3906.1	3751.7	3631.5	3609.6
25°	2853.3	2870.5	2977.3	3204.3	3529.5	3869.9	4092.1	4067.3	3873.7	3724.0	3693.5
27.5°	2715.0	2733.2	2849.5	3096.5	3457.0	3889.0	4237.1	4249.5	4021.5	3826.0	3793.6
30°	2606.3	2623.5	2747.5	3009.7	3363.5	3869.9	4363.9	4449.7	4172.2	3914.7	3868.0
32.5°	2487.1	2509.0	2639.7	2903.9	3252.9	3824.1	4474.5	4666.2	4346.7	4010.1	3951.0
35°	2336.4	2356.5	2493.8	2758.9	3107.9	3750.7	4567.0	4906.5	4596.6	4155.0	4089.2
37.5°	2153.3	2172.4	2308.8	2577.7	2963.9	3647.7	4637.6	5177.4	4894.1	4363.9	4276.2
40°	1969.3	1987.4	2115.2	2375.5	2791.3	3516.1	4662.4	5442.5	5235.5	4650.9	4557.5
42.5°	1800.5	1816.7	1934.0	2176.2	2597.7	3348.3	4630.0	5673.3	5541.6	4851.2	4731.0
45°	1645.0	1659.3	1763.3	1989.3	2396.5	3144.2	4532.7	5921.2	5905.9	4994.3	4832.1
47.5°	1467.7	1482.0	1589.7	1808.1	2195.3	2904.8	4367.7	6165.3	6412.3	5318.5	5131.6
50°	1251.2	1263.6	1374.2	1599.3	1986.4	2650.2	4138.8	6357.0	7051.3	5809.6	5575.0
52.5°	994.7	1008.0	1115.8	1340.8	1738.5	2376.5	3837.5	6481.9	7789.4	6526.8	6237.8
55°	740.0	749.6	843.0	1045.2	1431.4	2064.6	3459.8	6517.2	8626.7	7507.1	7145.7
57.5°	536.9	542.6	602.7	753.4	1085.3	1674.6	3001.1	6425.7	9623.3	8764.0	8309.1
60°	434.9	436.8	454.9	521.6	754.3	1234.0	2447.1	6111.0	10704.7	10384.3	9811.1
62.5°	394.8	394.8	399.6	417.7	510.2	814.4	1776.6	5458.7	11864.3	12431.8	11664.1
65°	367.2	367.2	369.1	377.6	402.4	518.8	1121.5	4396.3	12841.8	14830.2	13859.4
67.5°	342.4	343.3	342.4	345.2	359.5	383.4	650.4	3036.4	13368.2	17315.4	16267.3
70°	316.6	318.5	313.8	313.8	325.2	326.1	407.2	1665.1	12931.5	19398.2	19122.5
72.5°	286.1	289.0	281.3	279.4	288.0	284.2	306.1	799.2	11102.4	20019.9	20744.7
75°	259.4	263.2	246.0	241.3	241.3	238.4	248.9	410.1	7205.8	16331.2	17468.0
77.5°	235.6	243.2	215.5	200.3	196.5	187.9	203.1	250.8	3151.8	7667.3	7508.1
80°	194.5	205.0	177.4	159.3	152.6	143.0	160.2	175.5	937.4	1780.5	1705.1
82.5°	145.0	149.7	125.9	113.5	107.8	101.1	120.2	122.1	305.2	630.4	712.4
85°	92.5	94.4	77.2	66.8	63.9	61.0	76.3	66.8	116.3	463.5	673.3
87.5°	32.4	37.2	29.6	26.7	28.6	23.8	35.3	20.0	32.4	327.1	405.3
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)