

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: P883905

Luminaire Tested: **NAV-SB4C-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883905
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-SB4C-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23926 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

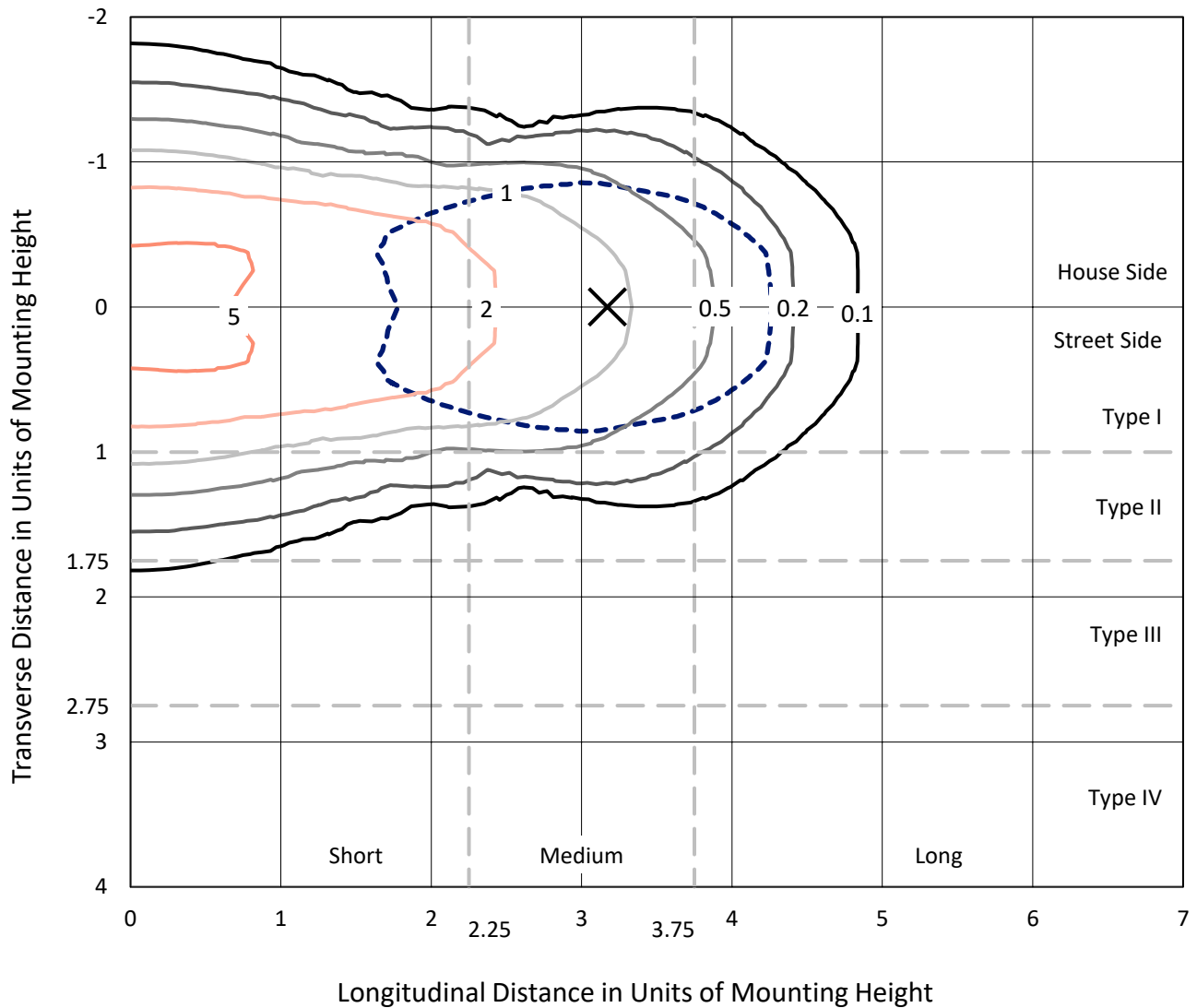
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

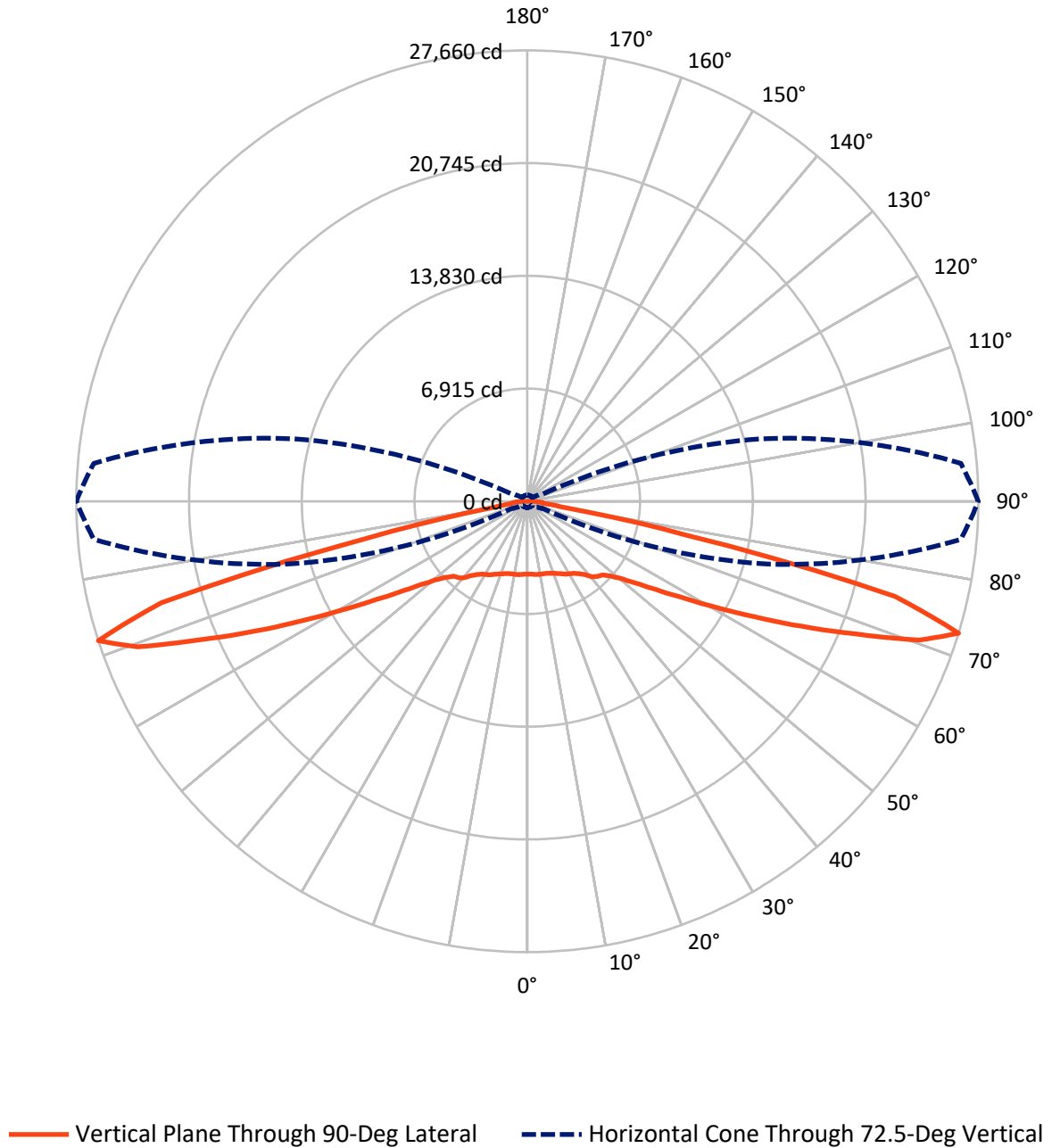
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	11963.0	0.0	11963.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11963.0	0.0	11963.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23926.0	0.0	23926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.5	1.8
10°-20°	1325.5	5.5
20°-30°	2210.1	9.2
30°-40°	3039.6	12.7
40°-50°	3712.2	15.5
50°-60°	4293.5	17.9
60°-70°	5119.3	21.4
70°-80°	3572.9	14.9
80°-90°	219.4	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°	23926.0	100.0
0°-180°	23926.0	100.0



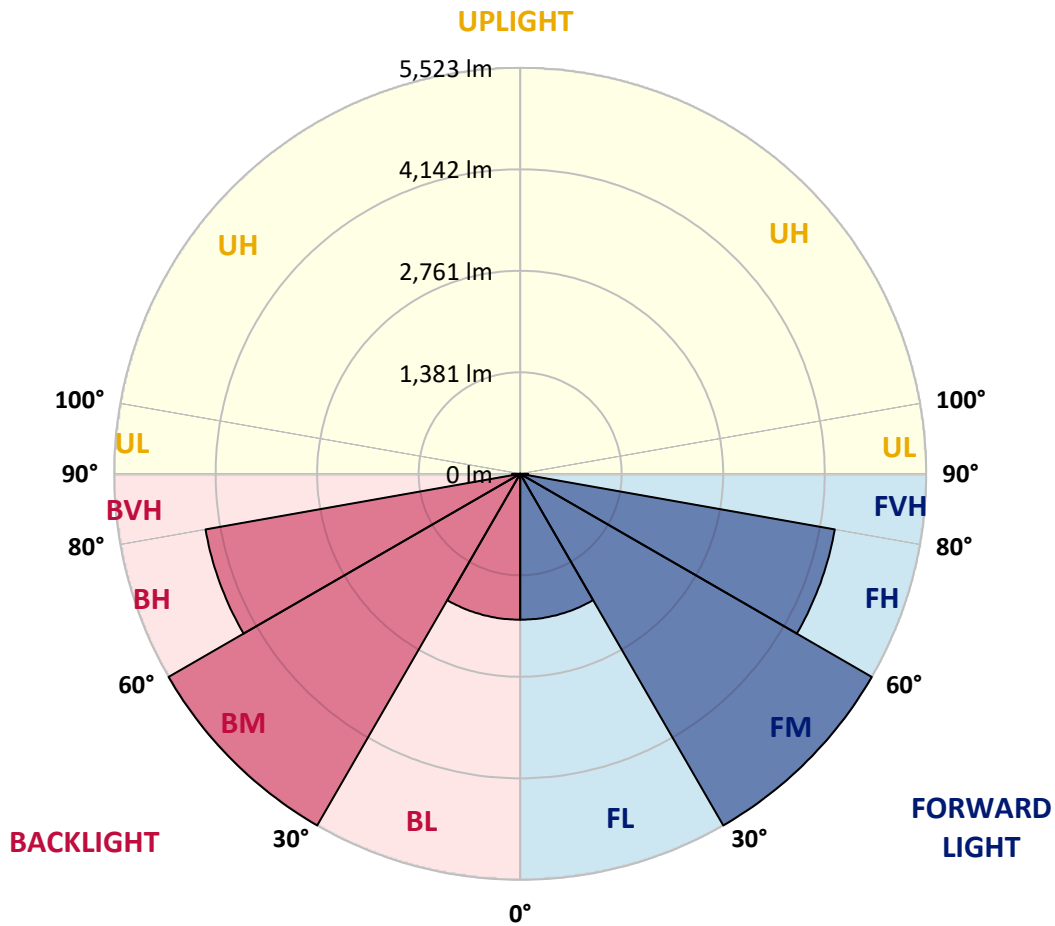
REPORT NUMBER: P883905
 CATALOG NUMBER: NAV-SB4C-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.5	8.3			
FM (30°-60°)	5522.6	23.1			
FH (60°-80°)	4346.1	18.2			G2/5000
FVH (80°-90°)	109.7	0.5			G2/225
BL (0°-30°)	1984.5	8.3	B3/2500		
BM (30°-60°)	5522.6	23.1	B4/8500		
BH (60°-80°)	4346.1	18.2	B4/5000		G4/5000
BVH (80°-90°)	109.7	0.5			G2/225
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°	4470.8	4470.8	4470.8	4470.8	4470.8	4470.8	4470.8	4470.8	4470.8	4470.8	4470.8
2.5°	4474.6	4479.7	4479.7	4475.9	4484.8	4477.2	4477.2	4473.4	4477.2	4473.4	4473.4
5°	4497.5	4503.9	4506.4	4505.2	4516.6	4510.2	4510.2	4505.2	4506.4	4502.6	4502.6
7.5°	4540.8	4549.7	4554.7	4561.1	4577.6	4570.0	4564.9	4549.7	4543.3	4533.1	4533.1
10°	4554.7	4564.9	4581.5	4614.5	4652.7	4653.9	4638.7	4600.5	4571.3	4548.4	4544.6
12.5°	4511.5	4525.5	4559.8	4627.2	4712.4	4746.8	4722.6	4659.0	4601.8	4561.1	4554.7
15°	4456.8	4472.1	4524.2	4626.0	4751.8	4832.0	4829.4	4745.5	4653.9	4590.4	4580.2
17.5°	4371.6	4386.9	4461.9	4604.3	4782.4	4914.6	4950.2	4863.7	4735.3	4650.1	4636.1
20°	4217.8	4231.8	4336.0	4535.7	4792.5	5002.3	5095.2	5018.9	4858.7	4742.9	4721.3
22.5°	4018.1	4039.8	4161.8	4417.4	4768.4	5093.9	5260.5	5208.3	5002.3	4842.1	4812.9
25°	3804.5	3827.4	3969.8	4272.5	4706.1	5160.0	5456.3	5423.2	5165.1	4965.5	4924.8
27.5°	3620.1	3644.3	3799.4	4128.8	4609.4	5185.4	5649.6	5666.1	5362.2	5101.5	5058.3
30°	3475.2	3498.1	3663.4	4013.1	4484.8	5160.0	5818.7	5933.1	5563.1	5219.8	5157.5
32.5°	3316.2	3345.5	3519.7	3871.9	4337.3	5099.0	5966.2	6221.8	5795.8	5346.9	5268.1
35°	3115.3	3142.0	3325.1	3678.6	4144.0	5001.1	6089.5	6542.2	6128.9	5540.2	5452.5
37.5°	2871.2	2896.6	3078.5	3437.0	3952.0	4863.7	6183.6	6903.3	6525.7	5818.7	5701.7
40°	2625.8	2649.9	2820.3	3167.5	3721.9	4688.3	6216.7	7256.8	6980.9	6201.4	6076.8
42.5°	2400.7	2422.3	2578.7	2901.7	3463.7	4464.5	6173.5	7564.5	7389.1	6468.5	6308.2
45°	2193.5	2212.5	2351.1	2652.5	3195.4	4192.4	6043.8	7895.2	7874.8	6659.2	6443.0
47.5°	1956.9	1976.0	2119.7	2410.9	2927.1	3873.2	5823.8	8220.7	8550.0	7091.5	6842.3
50°	1668.3	1684.8	1832.3	2132.4	2648.7	3533.7	5518.6	8476.3	9402.0	7746.4	7433.6
52.5°	1326.2	1344.0	1487.7	1787.8	2318.1	3168.7	5116.8	8642.8	10386.2	8702.6	8317.3
55°	986.7	999.5	1124.1	1393.6	1908.6	2752.9	4613.2	8689.9	11502.6	10009.8	9527.8
57.5°	715.9	723.5	803.6	1004.5	1447.0	2232.9	4001.6	8567.8	12831.4	11685.7	11079.2
60°	579.8	582.4	606.5	695.5	1005.8	1645.4	3262.8	8148.2	14273.3	13846.1	13081.9
62.5°	526.4	526.4	532.8	556.9	680.3	1085.9	2368.9	7278.4	15819.6	16576.1	15552.5
65°	489.6	489.6	492.1	503.5	536.6	691.7	1495.4	5861.9	17122.9	19774.1	18479.7
67.5°	456.5	457.8	456.5	460.3	479.4	511.2	867.2	4048.7	17824.8	23087.8	21690.4
70°	422.2	424.7	418.3	418.3	433.6	434.9	543.0	2220.2	17242.4	25864.9	25497.4
72.5°	381.5	385.3	375.1	372.6	384.0	378.9	408.2	1065.6	14803.6	26694.0	27660.4
75°	345.9	351.0	328.1	321.7	321.7	317.9	331.9	546.8	9608.0	21775.6	23291.3
77.5°	314.1	324.2	287.4	267.0	261.9	250.5	270.8	334.4	4202.5	10223.4	10011.0
80°	259.4	273.4	236.5	212.4	203.5	190.7	213.6	234.0	1249.9	2374.0	2273.6
82.5°	193.3	199.6	167.8	151.3	143.7	134.8	160.2	162.8	406.9	840.5	949.9
85°	123.3	125.9	103.0	89.0	85.2	81.4	101.7	89.0	155.1	618.0	897.7
87.5°	43.2	49.6	39.4	35.6	38.1	31.8	47.0	26.7	43.2	436.1	540.4
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)