

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: P884585

Luminaire Tested: **NAV-SB5C-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884585
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-SB5C-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 29958 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

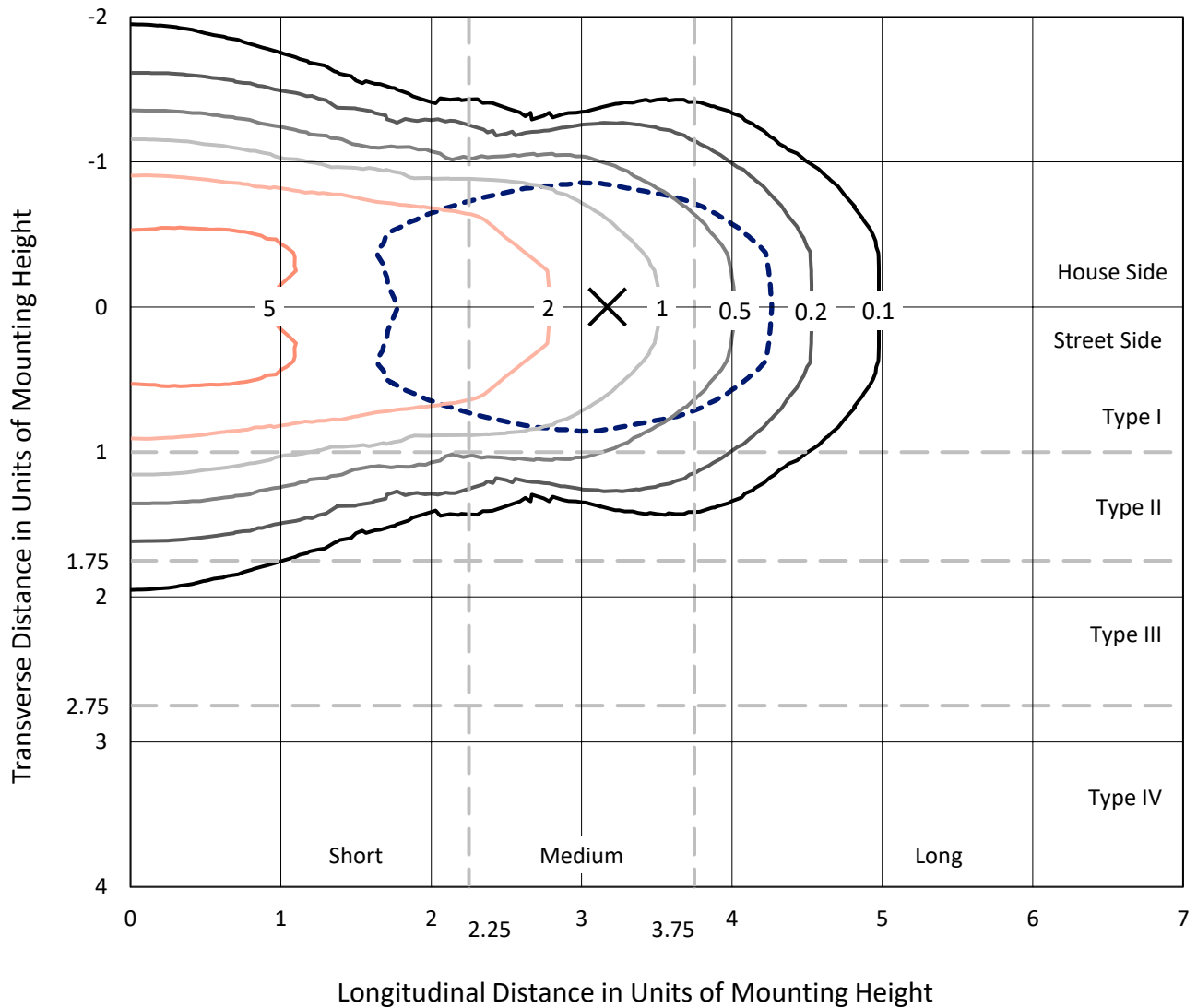
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

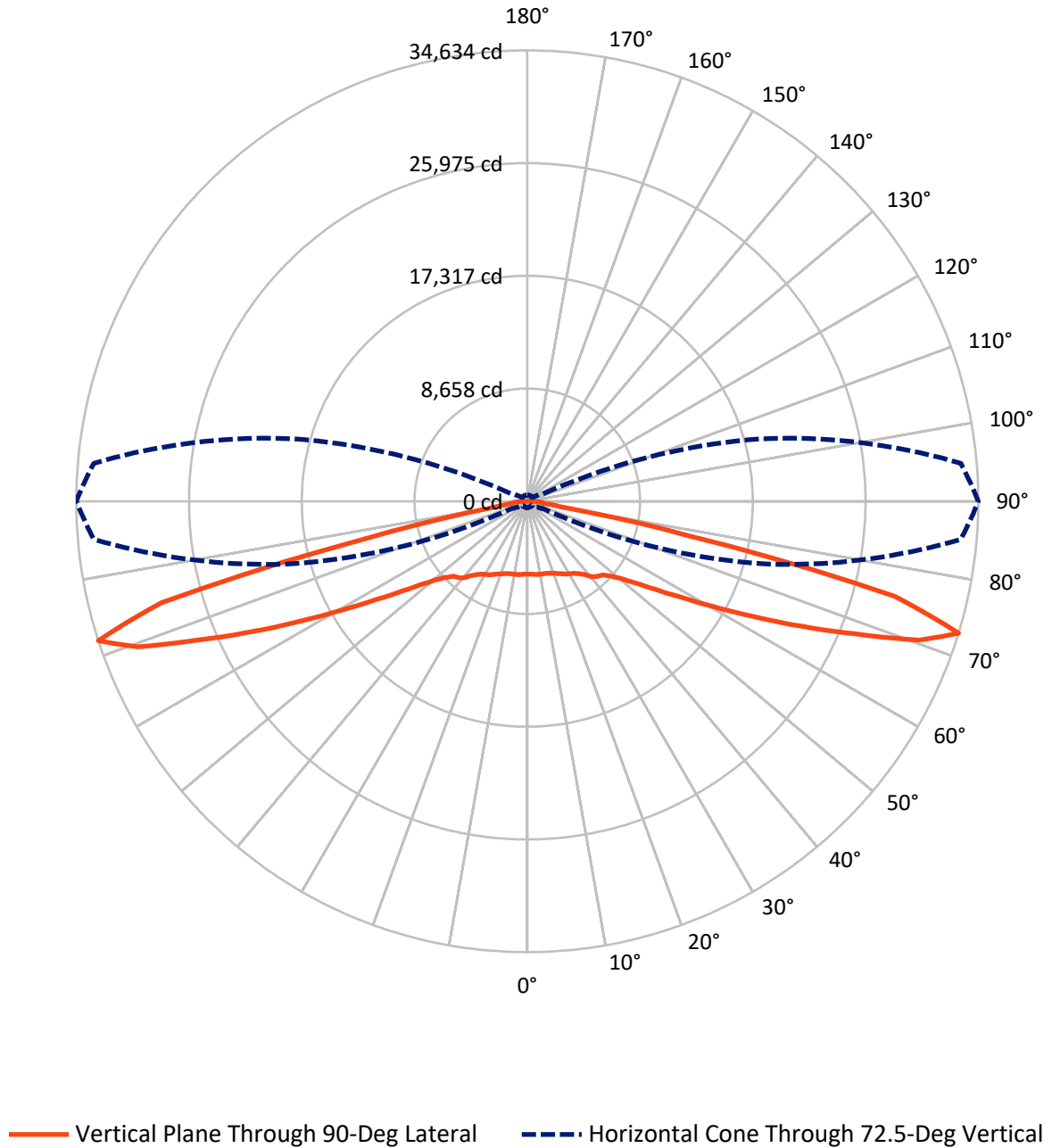
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	14979.0	0.0	14979.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14979.0	0.0	14979.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29958.0	0.0	29958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.8	1.8
10°-20°	1659.6	5.5
20°-30°	2767.3	9.2
30°-40°	3805.9	12.7
40°-50°	4648.0	15.5
50°-60°	5375.9	17.9
60°-70°	6409.9	21.4
70°-80°	4473.7	14.9
80°-90°	274.8	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°	29958.0	100.0
0°-180°	29958.0	100.0

Coefficient of Utilization

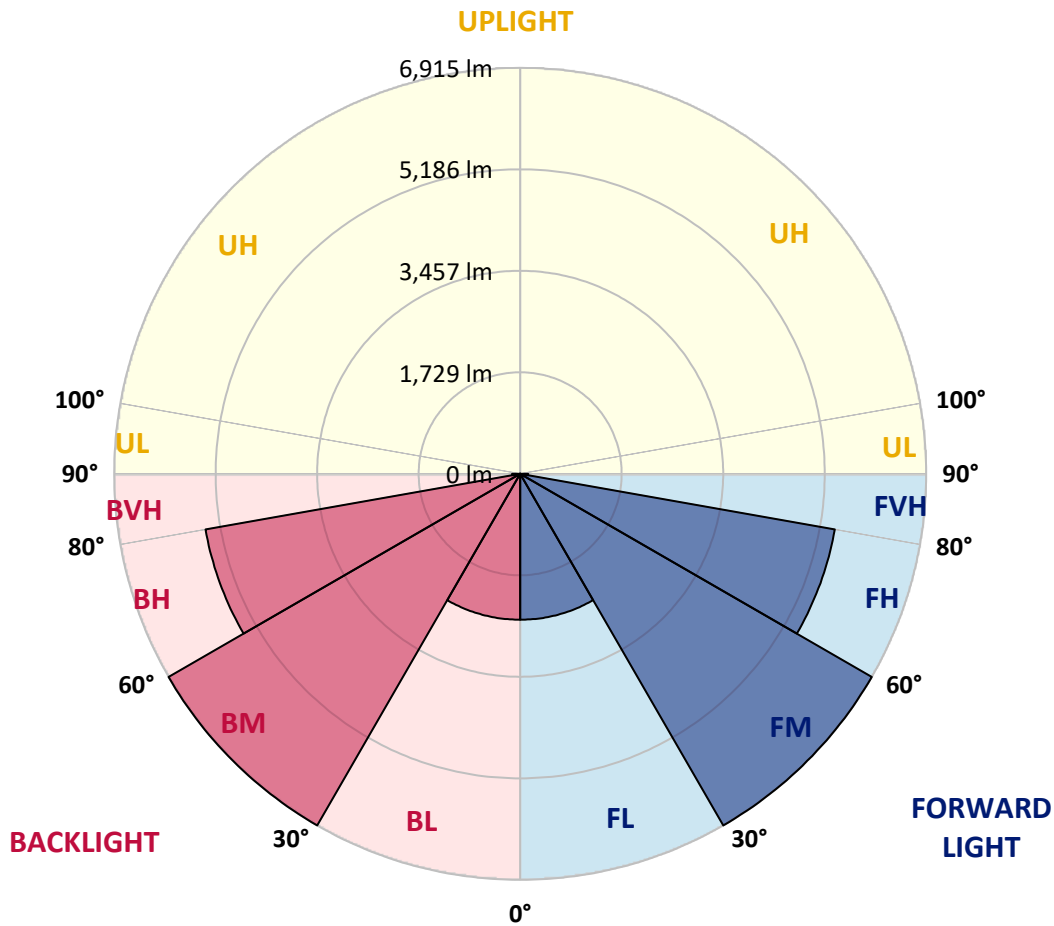


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2484.9	8.3			
FM (30°-60°)	6914.9	23.1			
FH (60°-80°)	5441.8	18.2			G3/7500
FVH (80°-90°)	137.4	0.5			G2/225
BL (0°-30°)	2484.9	8.3	B3/2500		
BM (30°-60°)	6914.9	23.1	B4/8500		
BH (60°-80°)	5441.8	18.2	B5		G5
BVH (80°-90°)	137.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5598.0	5598.0	5598.0	5598.0	5598.0	5598.0	5598.0	5598.0	5598.0	5598.0	5598.0
2.5°	5602.7	5609.1	5609.1	5604.3	5615.5	5605.9	5605.9	5601.2	5605.9	5601.2	5601.2
5°	5631.4	5639.4	5642.5	5641.0	5655.3	5647.3	5647.3	5641.0	5642.5	5637.8	5637.8
7.5°	5685.5	5696.7	5703.0	5711.0	5731.7	5722.2	5715.8	5696.7	5688.7	5676.0	5676.0
10°	5703.0	5715.8	5736.5	5777.9	5825.6	5827.2	5808.1	5760.4	5723.7	5695.1	5690.3
12.5°	5648.9	5666.4	5709.4	5793.8	5900.5	5943.5	5913.2	5833.6	5762.0	5711.0	5703.0
15°	5580.5	5599.6	5664.8	5792.2	5949.8	6050.1	6047.0	5941.9	5827.2	5747.6	5734.9
17.5°	5473.8	5492.9	5586.8	5765.1	5988.0	6153.6	6198.2	6089.9	5929.1	5822.5	5804.9
20°	5281.1	5298.6	5429.2	5679.2	6000.8	6263.5	6379.7	6284.2	6083.6	5938.7	5911.6
22.5°	5031.2	5058.2	5211.1	5531.1	5970.5	6378.1	6586.7	6521.4	6263.5	6062.9	6026.3
25°	4763.7	4792.3	4970.7	5349.6	5892.5	6460.9	6831.9	6790.5	6467.3	6217.3	6166.4
27.5°	4532.8	4563.1	4757.3	5169.7	5771.5	6492.8	7073.9	7094.6	6714.1	6387.7	6333.5
30°	4351.3	4380.0	4587.0	5024.8	5615.5	6460.9	7285.6	7428.9	6965.6	6535.7	6457.7
32.5°	4152.3	4188.9	4407.0	4848.1	5430.8	6384.5	7470.3	7790.3	7257.0	6695.0	6596.2
35°	3900.7	3934.2	4163.4	4606.1	5188.8	6261.9	7624.8	8191.6	7674.1	6937.0	6827.1
37.5°	3595.1	3626.9	3854.6	4303.6	4948.4	6089.9	7742.6	8643.7	8170.9	7285.6	7139.2
40°	3287.8	3318.0	3531.4	3966.0	4660.2	5870.2	7784.0	9086.3	8740.9	7764.9	7608.8
42.5°	3006.0	3033.0	3228.9	3633.3	4337.0	5590.0	7729.8	9471.6	9251.9	8099.2	7898.6
45°	2746.4	2770.3	2943.9	3321.2	4001.1	5249.3	7567.4	9885.6	9860.1	8338.0	8067.4
47.5°	2450.3	2474.2	2654.1	3018.7	3665.1	4849.7	7292.0	10293.2	10705.6	8879.4	8567.3
50°	2088.9	2109.6	2294.3	2670.0	3316.4	4424.6	6909.9	10613.2	11772.3	9699.3	9307.7
52.5°	1660.6	1682.9	1862.8	2238.6	2902.5	3967.6	6406.8	10821.8	13004.6	10896.6	10414.2
55°	1235.5	1251.4	1407.5	1745.0	2389.8	3447.0	5776.3	10880.7	14402.5	12533.3	11929.9
57.5°	896.4	905.9	1006.2	1257.8	1811.9	2795.8	5010.5	10727.8	16066.3	14631.8	13872.3
60°	726.0	729.2	759.5	870.9	1259.4	2060.2	4085.4	10202.4	17871.8	17336.8	16379.9
62.5°	659.1	659.1	667.1	697.4	851.8	1359.7	2966.2	9113.4	19807.8	20755.2	19473.5
65°	613.0	613.0	616.2	630.5	671.9	866.1	1872.4	7339.8	21439.8	24759.4	23138.6
67.5°	571.6	573.2	571.6	576.4	600.2	640.0	1085.8	5069.4	22318.6	28908.5	27158.7
70°	528.6	531.8	523.8	523.8	542.9	544.5	679.8	2779.9	21589.4	32385.7	31925.6
72.5°	477.6	482.4	469.7	466.5	480.8	474.5	511.1	1334.2	18535.7	33423.8	34633.8
75°	433.1	439.4	410.8	402.8	402.8	398.0	415.5	684.6	12030.2	27265.4	29163.3
77.5°	393.3	406.0	359.8	334.3	328.0	313.7	339.1	418.7	5262.0	12800.8	12534.9
80°	324.8	342.3	296.1	265.9	254.7	238.8	267.5	293.0	1565.1	2972.5	2846.7
82.5°	242.0	250.0	210.2	189.5	179.9	168.8	200.6	203.8	509.5	1052.4	1189.3
85°	154.4	157.6	129.0	111.4	106.7	101.9	127.4	111.4	194.2	773.8	1124.1
87.5°	54.1	62.1	49.4	44.6	47.8	39.8	58.9	33.4	54.1	546.1	676.7
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)