

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: P885275

Luminaire Tested: **NAV-SB6C-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885275
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-SB6C-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40753 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

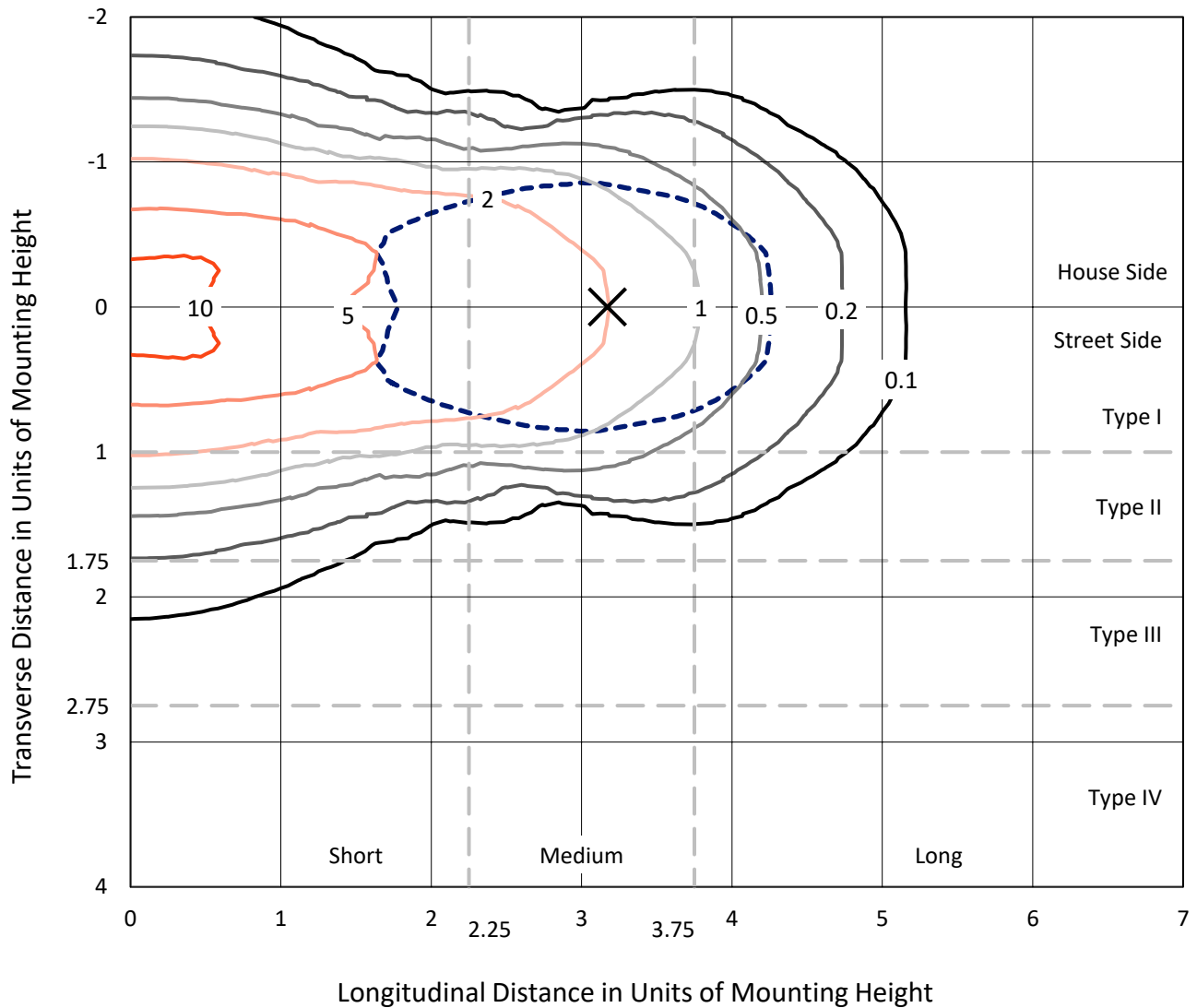
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

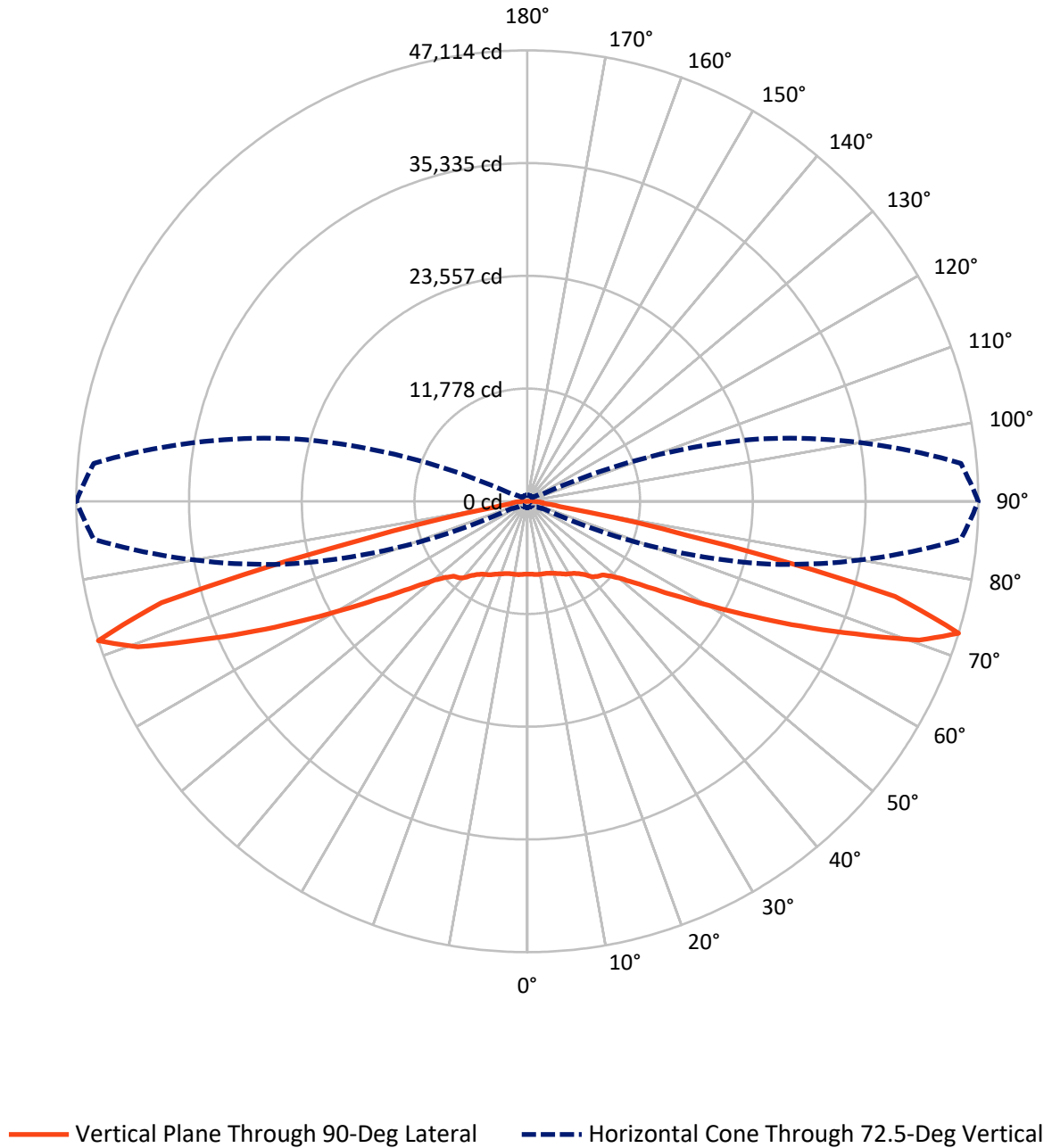
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	20376.5	0.0	20376.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20376.5	0.0	20376.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40753.0	0.0	40753.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.4	1.8
10°-20°	2257.7	5.5
20°-30°	3764.5	9.2
30°-40°	5177.3	12.7
40°-50°	6322.9	15.5
50°-60°	7313.1	17.9
60°-70°	8719.7	21.4
70°-80°	6085.8	14.9
80°-90°	373.8	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°	40753.0	100.0
0°-180°	40753.0	100.0



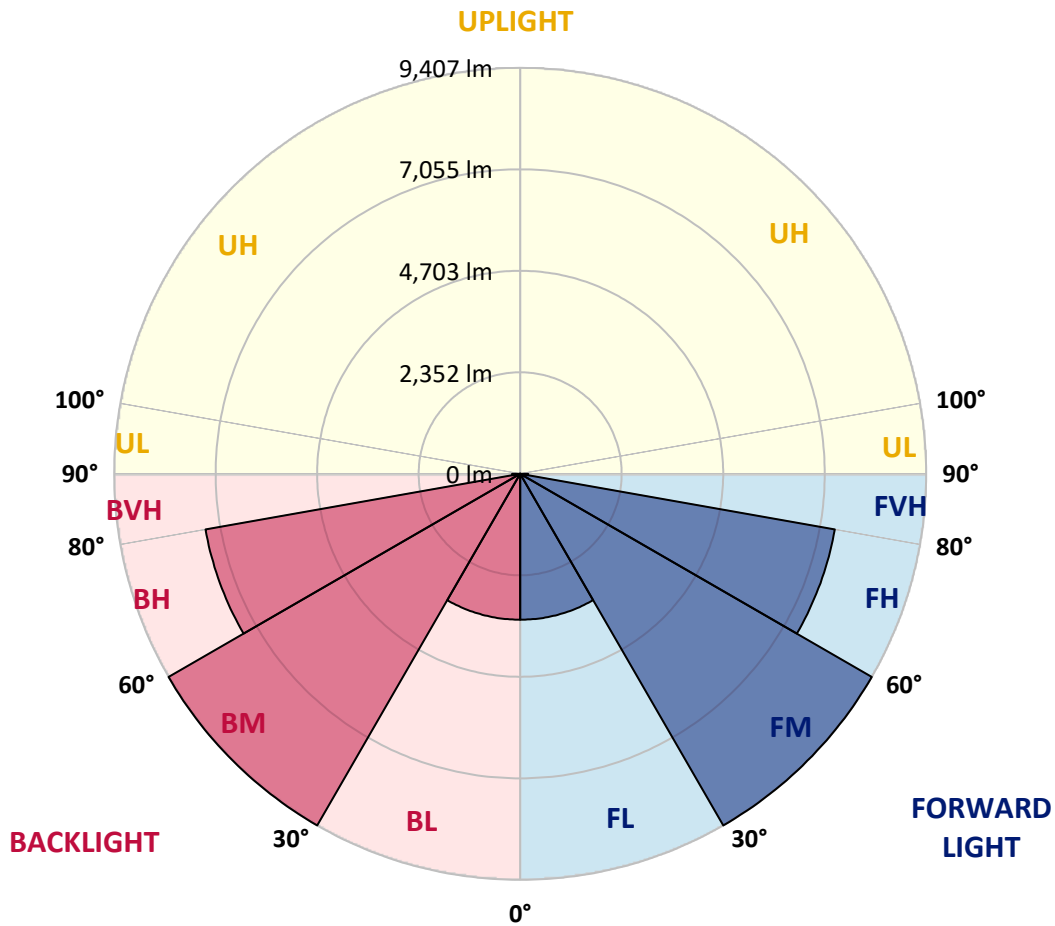
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.3	8.3			
FM (30°-60°)	9406.6	23.1			
FH (60°-80°)	7402.7	18.2			G3/7500
FVH (80°-90°)	186.9	0.5			G2/225
BL (0°-30°)	3380.3	8.3	B4/5000		
BM (30°-60°)	9406.6	23.1	B5		
BH (60°-80°)	7402.7	18.2	B5		G5
BVH (80°-90°)	186.9	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°	7615.1	7615.1	7615.1	7615.1	7615.1	7615.1	7615.1	7615.1	7615.1	7615.1	7615.1
2.5°	7621.6	7630.3	7630.3	7623.8	7639.0	7626.0	7626.0	7619.5	7626.0	7619.5	7619.5
5°	7660.6	7671.4	7675.8	7673.6	7693.1	7682.3	7682.3	7673.6	7675.8	7669.3	7669.3
7.5°	7734.2	7749.4	7758.1	7768.9	7797.1	7784.1	7775.4	7749.4	7738.6	7721.3	7721.3
10°	7758.1	7775.4	7803.6	7859.9	7924.8	7927.0	7901.0	7836.0	7786.2	7747.2	7740.7
12.5°	7684.4	7708.3	7766.7	7881.5	8026.6	8085.1	8044.0	7935.7	7838.2	7768.9	7758.1
15°	7591.3	7617.3	7706.1	7879.4	8093.8	8230.2	8225.9	8083.0	7927.0	7818.7	7801.4
17.5°	7446.2	7472.2	7600.0	7842.5	8145.8	8371.0	8431.7	8284.4	8065.6	7920.5	7896.7
20°	7184.1	7207.9	7385.5	7725.6	8163.1	8520.5	8678.6	8548.6	8275.7	8078.6	8041.8
22.5°	6844.1	6880.9	7088.8	7524.2	8121.9	8676.4	8960.1	8871.3	8520.5	8247.6	8197.7
25°	6480.2	6519.2	6761.8	7277.3	8015.8	8789.0	9293.7	9237.3	8797.7	8457.6	8388.3
27.5°	6166.2	6207.3	6471.6	7032.5	7851.2	8832.3	9622.9	9651.0	9133.4	8689.4	8615.8
30°	5919.3	5958.3	6239.8	6835.4	7639.0	8789.0	9910.9	10105.9	9475.6	8890.8	8784.7
32.5°	5648.5	5698.4	5995.1	6595.0	7387.7	8685.1	10162.2	10597.5	9871.9	9107.4	8973.1
35°	5306.3	5351.8	5663.7	6265.8	7058.5	8518.3	10372.3	11143.3	10439.4	9436.6	9287.2
37.5°	4890.5	4933.8	5243.5	5854.3	6731.5	8284.4	10532.5	11758.4	11115.1	9910.9	9711.7
40°	4472.5	4513.6	4803.9	5395.1	6339.4	7985.5	10588.8	12360.5	11890.5	10562.8	10350.6
42.5°	4089.1	4125.9	4392.3	4942.5	5899.8	7604.3	10515.2	12884.6	12585.8	11017.7	10744.8
45°	3736.1	3768.6	4004.7	4518.0	5442.8	7140.8	10294.3	13447.8	13413.1	11342.6	10974.4
47.5°	3333.2	3365.7	3610.5	4106.5	4985.8	6597.2	9919.6	14002.2	14563.2	12078.9	11654.4
50°	2841.6	2869.8	3121.0	3632.1	4511.5	6018.9	9399.8	14437.6	16014.3	13194.4	12661.6
52.5°	2259.0	2289.3	2534.0	3045.2	3948.3	5397.3	8715.4	14721.3	17690.7	14823.1	14166.8
55°	1680.7	1702.4	1914.6	2373.8	3250.9	4689.1	7857.7	14801.4	19592.3	17049.6	16228.7
57.5°	1219.4	1232.4	1368.8	1711.0	2464.7	3803.2	6815.9	14593.5	21855.6	19904.2	18871.1
60°	987.6	992.0	1033.1	1184.7	1713.2	2802.6	5557.6	13878.8	24311.7	23583.9	22282.3
62.5°	896.7	896.7	907.5	948.6	1158.7	1849.6	4035.0	12397.3	26945.3	28234.0	26490.5
65°	833.9	833.9	838.2	857.7	914.0	1178.2	2547.0	9984.6	29165.3	33681.1	31476.3
67.5°	777.5	779.7	777.5	784.0	816.5	870.7	1477.1	6896.1	30360.9	39325.3	36945.1
70°	719.1	723.4	712.6	712.6	738.6	740.7	924.8	3781.6	29368.9	44055.6	43429.6
72.5°	649.8	656.3	638.9	634.6	654.1	645.4	695.2	1815.0	25214.8	45467.7	47113.7
75°	589.1	597.8	558.8	548.0	548.0	541.5	565.3	931.3	16365.2	37090.2	39671.9
77.5°	535.0	552.3	489.5	454.8	446.2	426.7	461.3	569.6	7158.1	17413.4	17051.7
80°	441.8	465.7	402.8	361.7	346.5	324.9	363.9	398.5	2129.0	4043.6	3872.5
82.5°	329.2	340.0	285.9	257.7	244.7	229.6	272.9	277.2	693.1	1431.6	1617.9
85°	210.1	214.4	175.4	151.6	145.1	138.6	173.3	151.6	264.2	1052.6	1529.1
87.5°	73.6	84.5	67.1	60.6	65.0	54.1	80.1	45.5	73.6	742.9	920.5
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)