

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: P881695

Luminaire Tested: **NAV-SB1B-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881695
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-SB1B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4443 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

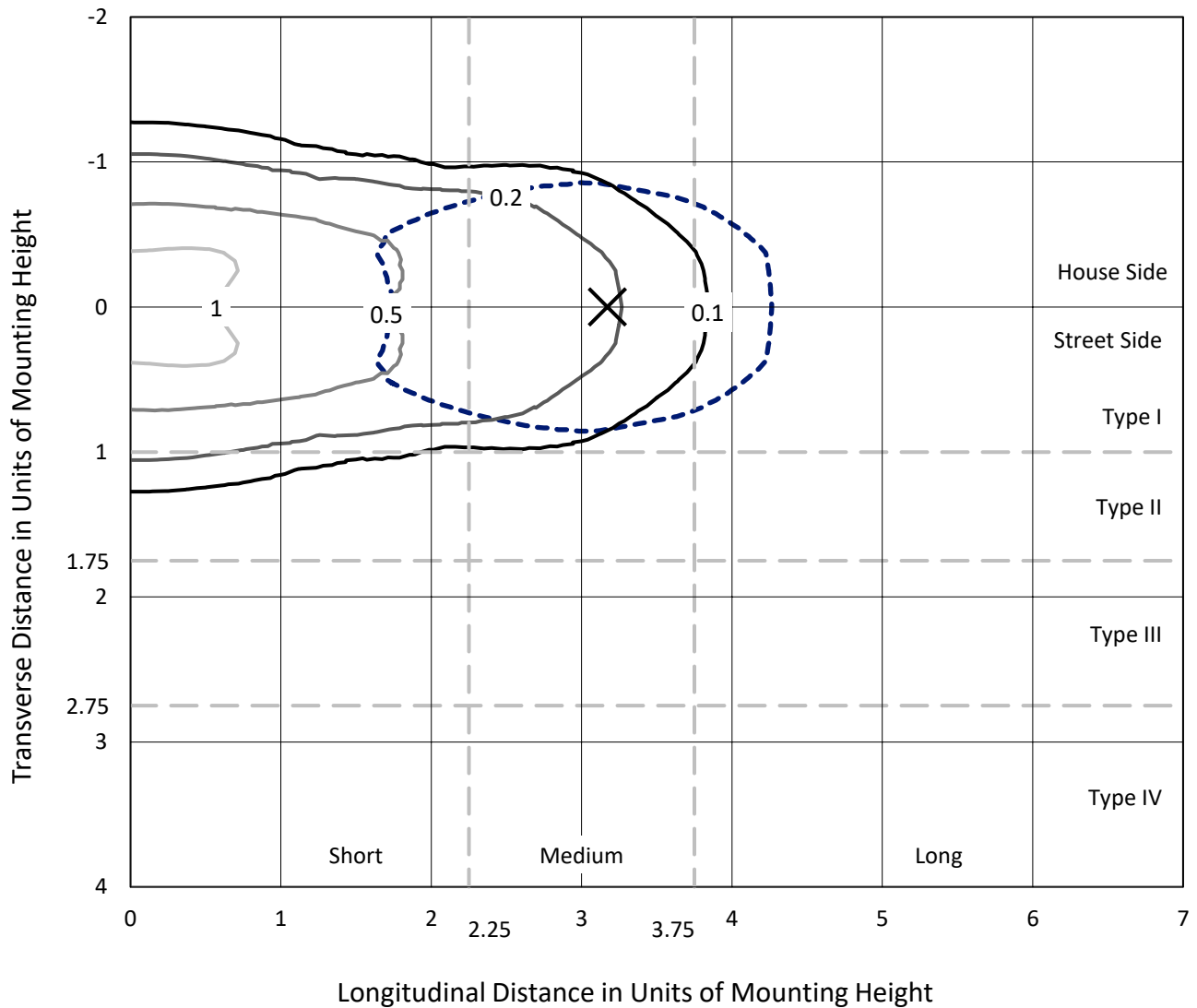
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

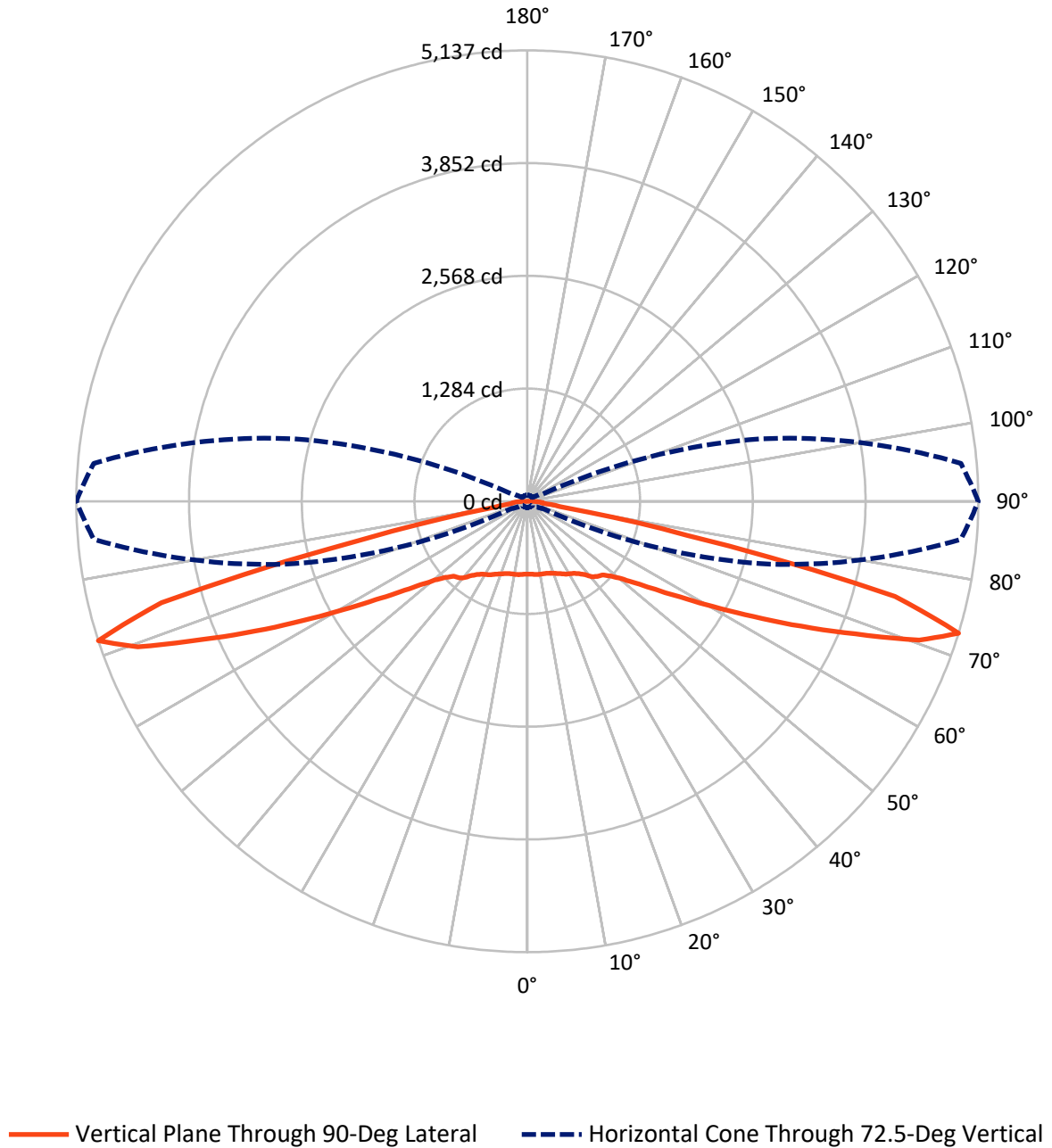
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	2221.5	0.0	2221.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2221.5	0.0	2221.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4443.0	0.0	4443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.8
10°-20°	246.1	5.5
20°-30°	410.4	9.2
30°-40°	564.4	12.7
40°-50°	689.3	15.5
50°-60°	797.3	17.9
60°-70°	950.6	21.4
70°-80°	663.5	14.9
80°-90°	40.8	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°	4443.0	100.0
0°-180°	4443.0	100.0

Coefficient of Utilization



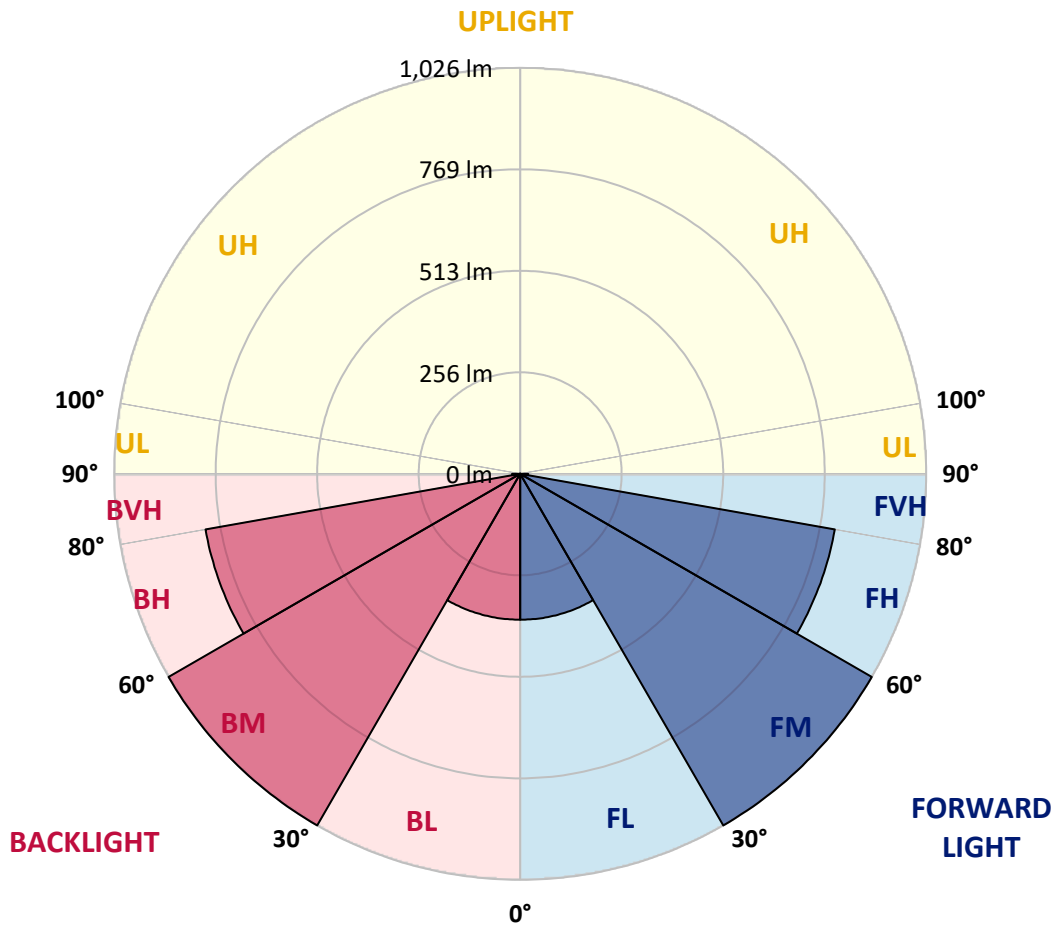
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.5	8.3			
FM (30°-60°)	1025.5	23.1			
FH (60°-80°)	807.1	18.2			G1/1800
FVH (80°-90°)	20.4	0.5			G1/100
BL (0°-30°)	368.5	8.3	B1/500		
BM (30°-60°)	1025.5	23.1	B2/2500		
BH (60°-80°)	807.1	18.2	B2/1000		G2/1000
BVH (80°-90°)	20.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	830.2	830.2	830.2	830.2	830.2	830.2	830.2	830.2	830.2	830.2	830.2
2.5°	830.9	831.9	831.9	831.2	832.8	831.4	831.4	830.7	831.4	830.7	830.7
5°	835.2	836.4	836.8	836.6	838.7	837.5	837.5	836.6	836.8	836.1	836.1
7.5°	843.2	844.9	845.8	847.0	850.1	848.6	847.7	844.9	843.7	841.8	841.8
10°	845.8	847.7	850.8	856.9	864.0	864.2	861.4	854.3	848.9	844.6	843.9
12.5°	837.8	840.4	846.8	859.3	875.1	881.5	877.0	865.2	854.5	847.0	845.8
15°	827.6	830.5	840.1	859.0	882.4	897.3	896.8	881.2	864.2	852.4	850.5
17.5°	811.8	814.6	828.6	855.0	888.1	912.6	919.2	903.2	879.3	863.5	860.9
20°	783.2	785.8	805.2	842.3	890.0	928.9	946.2	932.0	902.2	880.8	876.7
22.5°	746.2	750.2	772.8	820.3	885.5	945.9	976.9	967.2	928.9	899.2	893.7
25°	706.5	710.7	737.2	793.4	873.9	958.2	1013.2	1007.1	959.1	922.1	914.5
27.5°	672.3	676.7	705.5	766.7	856.0	962.9	1049.1	1052.2	995.7	947.3	939.3
30°	645.3	649.6	680.3	745.2	832.8	958.2	1080.5	1101.8	1033.1	969.3	957.7
32.5°	615.8	621.2	653.6	719.0	805.4	946.9	1107.9	1155.4	1076.3	992.9	978.3
35°	578.5	583.5	617.5	683.1	769.5	928.7	1130.8	1214.9	1138.1	1028.8	1012.5
37.5°	533.2	537.9	571.7	638.3	733.9	903.2	1148.3	1281.9	1211.8	1080.5	1058.8
40°	487.6	492.1	523.7	588.2	691.1	870.6	1154.4	1347.6	1296.3	1151.6	1128.4
42.5°	445.8	449.8	478.9	538.8	643.2	829.0	1146.4	1404.7	1372.1	1201.2	1171.4
45°	407.3	410.9	436.6	492.6	593.4	778.5	1122.3	1466.1	1462.3	1236.6	1196.5
47.5°	363.4	366.9	393.6	447.7	543.6	719.2	1081.5	1526.6	1587.7	1316.9	1270.6
50°	309.8	312.9	340.3	396.0	491.9	656.2	1024.8	1574.0	1745.9	1438.5	1380.4
52.5°	246.3	249.6	276.3	332.0	430.5	588.4	950.2	1605.0	1928.7	1616.1	1544.5
55°	183.2	185.6	208.7	258.8	354.4	511.2	856.7	1613.7	2136.0	1858.8	1769.3
57.5°	132.9	134.4	149.2	186.5	268.7	414.6	743.1	1591.0	2382.8	2170.0	2057.4
60°	107.7	108.1	112.6	129.2	186.8	305.5	605.9	1513.1	2650.5	2571.2	2429.3
62.5°	97.8	97.8	98.9	103.4	126.3	201.7	439.9	1351.6	2937.7	3078.1	2888.1
65°	90.9	90.9	91.4	93.5	99.6	128.5	277.7	1088.5	3179.7	3672.0	3431.6
67.5°	84.8	85.0	84.8	85.5	89.0	94.9	161.0	751.8	3310.0	4287.4	4027.8
70°	78.4	78.9	77.7	77.7	80.5	80.8	100.8	412.3	3201.9	4803.1	4734.8
72.5°	70.8	71.5	69.7	69.2	71.3	70.4	75.8	197.9	2749.0	4957.0	5136.5
75°	64.2	65.2	60.9	59.7	59.7	59.0	61.6	101.5	1784.2	4043.7	4325.1
77.5°	58.3	60.2	53.4	49.6	48.6	46.5	50.3	62.1	780.4	1898.5	1859.0
80°	48.2	50.8	43.9	39.4	37.8	35.4	39.7	43.4	232.1	440.8	422.2
82.5°	35.9	37.1	31.2	28.1	26.7	25.0	29.8	30.2	75.6	156.1	176.4
85°	22.9	23.4	19.1	16.5	15.8	15.1	18.9	16.5	28.8	114.8	166.7
87.5°	8.0	9.2	7.3	6.6	7.1	5.9	8.7	5.0	8.0	81.0	100.4
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)