

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: P882372

Luminaire Tested: **NAV-SB2B-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9251 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

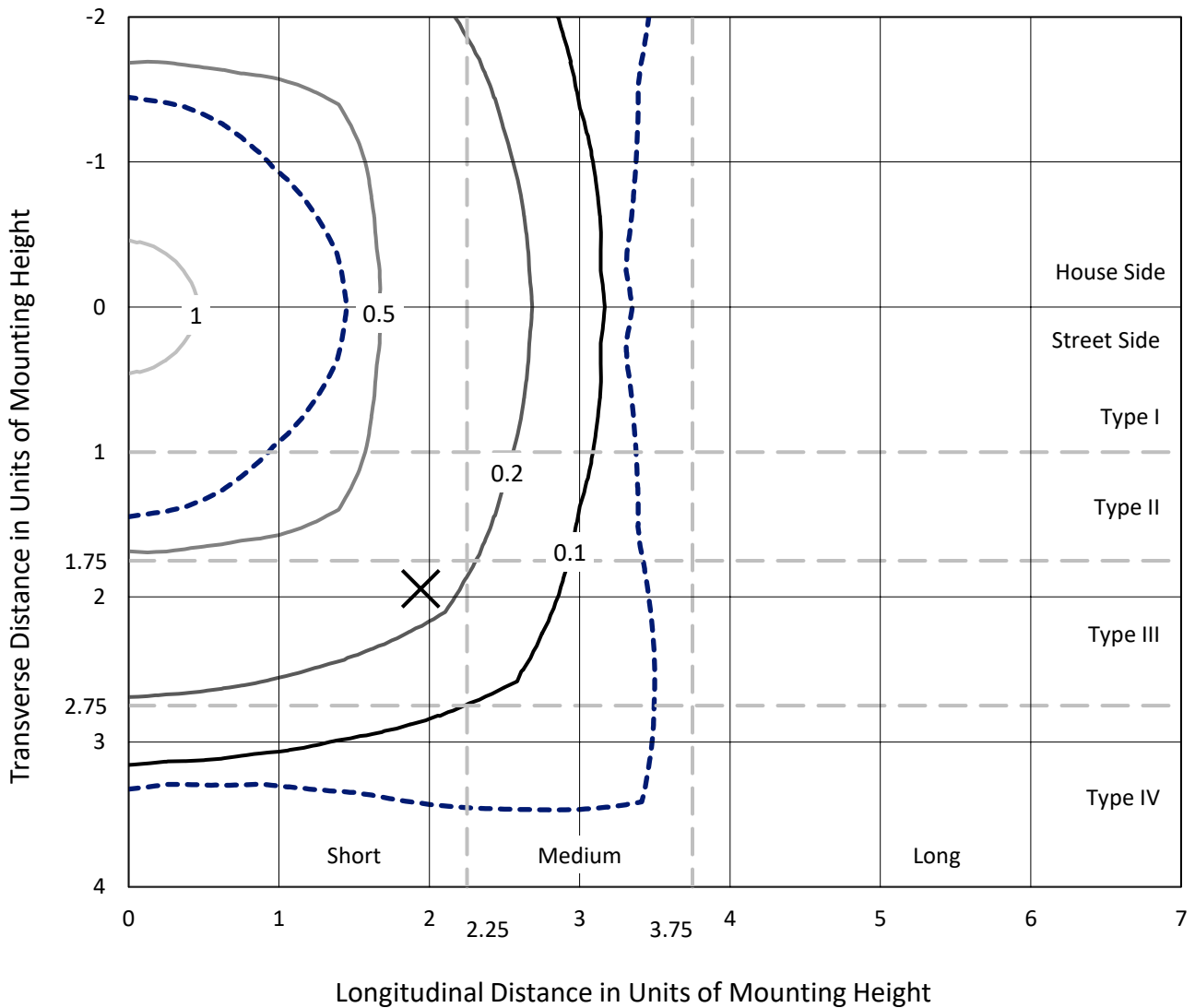
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

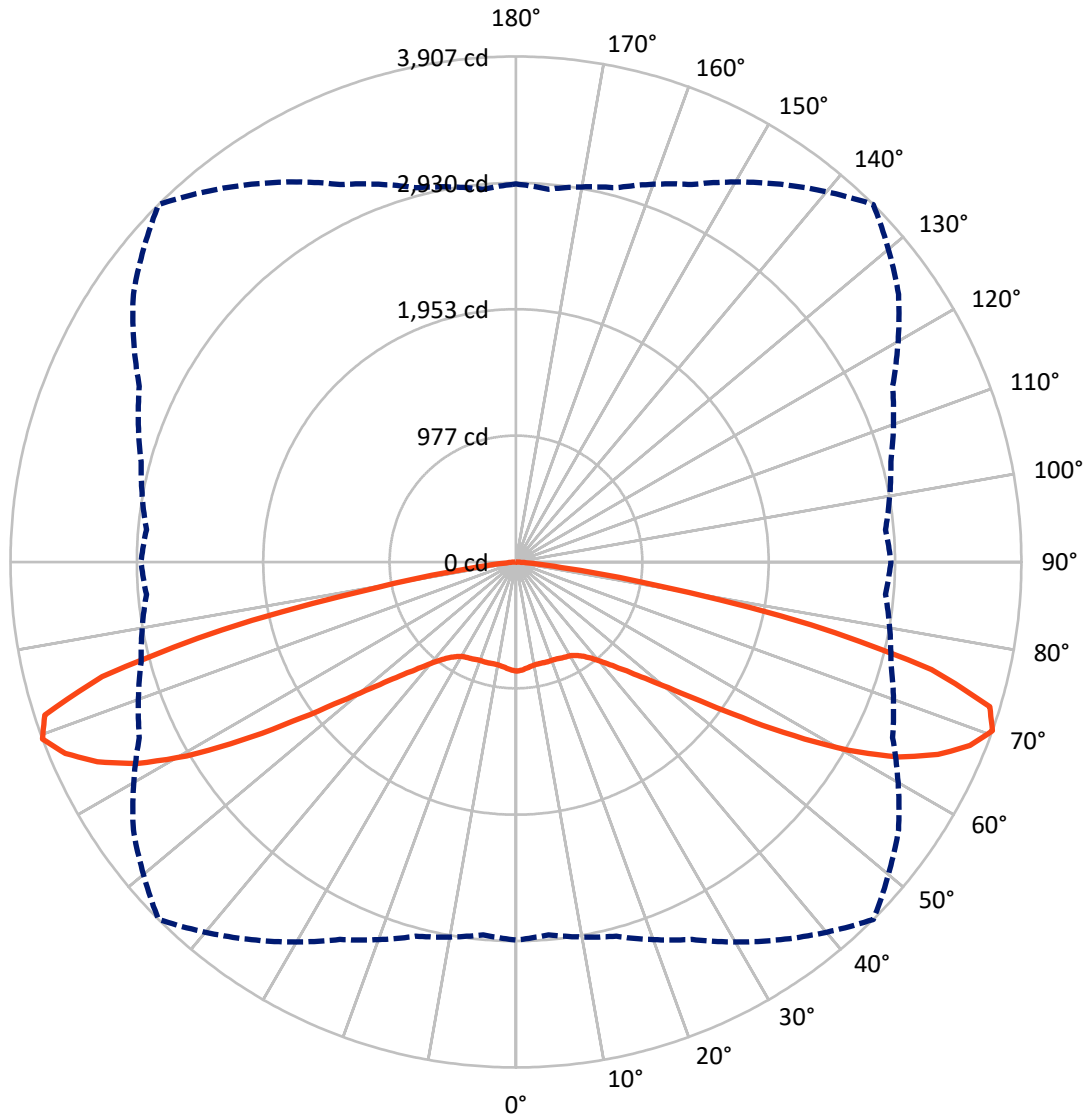
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4625.5	0.0	4625.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4625.5	0.0	4625.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9251.0	0.0	9251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	0.8
10°-20°	230.5	2.5
20°-30°	383.6	4.1
30°-40°	580.1	6.3
40°-50°	964.0	10.4
50°-60°	1819.0	19.7
60°-70°	3071.4	33.2
70°-80°	2018.2	21.8
80°-90°	105.7	1.1
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°	9251.0	100.0
0°-180°	9251.0	100.0

Coefficient of Utilization



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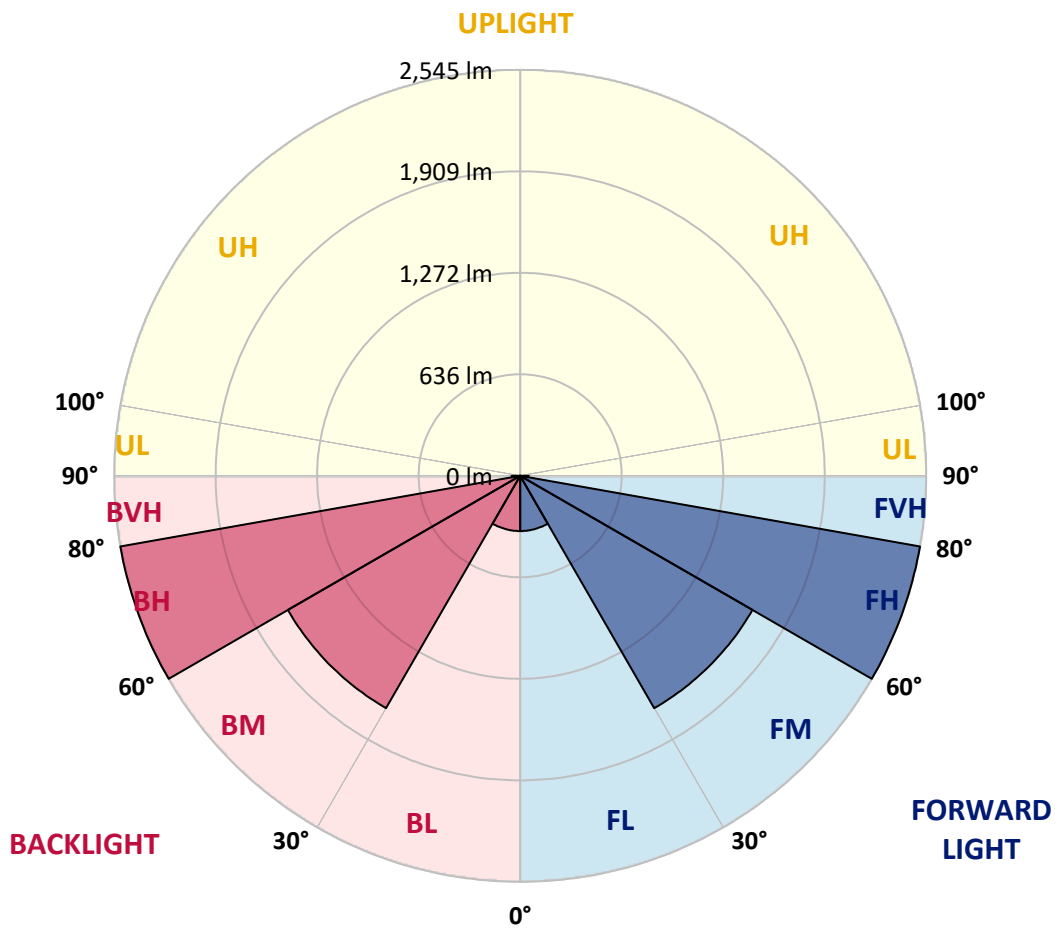
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.3	3.7			
FM (30°-60°)	1681.5	18.2			
FH (60°-80°)	2544.8	27.5			G2/5000
FVH (80°-90°)	52.9	0.6			G1/100
BL (0°-30°)	346.3	3.7	B1/500		
BM (30°-60°)	1681.5	18.2	B2/2500		
BH (60°-80°)	2544.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	52.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	843.9	843.9	843.9	843.9	843.9	843.9	843.9	843.9	843.9	843.9	843.9
2.5°	838.6	841.0	840.0	838.1	838.1	836.7	838.1	839.1	840.5	841.5	841.0
5°	827.5	829.5	829.0	827.5	828.0	826.6	827.5	829.0	829.9	830.4	830.4
7.5°	817.9	819.8	818.9	816.5	816.5	815.0	815.5	817.0	818.4	818.9	818.9
10°	815.5	817.4	814.5	810.7	809.3	807.3	807.8	809.3	812.1	813.6	813.6
12.5°	816.5	817.9	815.0	809.3	807.8	805.9	805.9	807.3	811.2	813.1	813.6
15°	819.4	820.8	816.5	810.2	808.8	807.3	806.9	808.8	813.1	816.5	817.0
17.5°	824.6	826.1	819.4	810.7	808.8	809.3	808.8	810.2	817.0	823.2	823.2
20°	829.5	830.4	821.3	810.7	808.8	809.3	808.8	811.7	820.3	829.0	829.5
22.5°	830.9	831.9	823.2	814.1	812.6	813.1	812.6	815.5	823.7	832.3	832.3
25°	831.4	832.8	826.1	818.9	821.3	822.2	821.3	821.8	828.0	835.7	835.2
27.5°	838.6	840.5	834.3	828.0	829.5	829.0	830.4	831.9	836.7	844.4	842.4
30°	853.5	854.9	849.6	843.4	842.4	839.1	843.4	848.2	853.5	860.2	858.8
32.5°	878.0	880.9	874.2	867.4	863.1	861.2	864.6	872.7	879.9	887.2	884.3
35°	918.9	920.8	914.6	902.1	894.4	894.4	897.3	907.8	919.4	928.5	925.1
37.5°	976.6	979.0	967.9	953.0	941.5	941.5	945.3	956.4	973.7	986.7	981.9
40°	1046.8	1050.2	1036.2	1020.8	1009.8	1007.8	1012.7	1025.2	1041.5	1057.9	1052.6
42.5°	1131.4	1135.3	1117.0	1103.5	1094.9	1094.9	1097.3	1108.8	1123.7	1143.9	1142.5
45°	1239.6	1246.3	1221.3	1207.9	1199.7	1201.6	1203.1	1213.2	1226.6	1249.7	1248.7
47.5°	1368.5	1375.2	1348.8	1334.8	1333.4	1342.5	1336.7	1344.0	1351.2	1377.6	1369.9
50°	1514.7	1526.2	1507.9	1507.0	1509.8	1526.7	1513.2	1517.1	1508.9	1525.7	1515.6
52.5°	1693.5	1710.4	1707.0	1712.8	1745.0	1779.6	1748.8	1735.4	1704.6	1709.9	1692.1
55°	1910.4	1935.9	1940.7	1975.3	2048.4	2119.1	2053.7	1999.3	1933.9	1921.9	1903.2
57.5°	2157.1	2177.3	2200.3	2271.0	2407.6	2533.1	2407.6	2287.4	2184.5	2159.9	2142.6
60°	2422.5	2447.5	2469.6	2573.9	2776.9	2953.3	2773.0	2582.1	2446.0	2412.9	2384.0
62.5°	2707.6	2739.8	2755.2	2871.1	3107.7	3318.3	3111.0	2879.8	2728.8	2693.2	2664.3
65°	2981.2	3007.7	3025.0	3148.6	3374.5	3585.6	3389.9	3162.0	3006.7	2960.1	2937.0
67.5°	3108.6	3123.1	3165.4	3305.3	3543.8	3784.7	3584.2	3320.2	3146.6	3064.9	3065.8
70°	2922.1	2892.7	2994.7	3218.8	3564.0	3906.8	3610.2	3212.0	2999.5	2866.8	2898.5
72.5°	2258.0	2207.5	2384.5	2767.7	3333.2	3828.9	3356.3	2789.4	2494.6	2225.3	2292.2
75°	1228.6	1171.3	1415.6	1900.3	2658.1	3318.8	2719.2	1954.6	1576.2	1219.4	1298.8
77.5°	346.7	325.0	522.2	919.4	1598.8	2330.2	1660.3	939.6	619.3	367.4	408.2
80°	106.3	102.9	139.4	277.0	678.9	1116.0	652.5	280.3	177.4	112.0	118.3
82.5°	63.0	57.7	69.2	101.0	173.1	350.5	168.3	105.3	84.6	56.7	61.5
85°	36.1	33.7	40.9	49.0	58.2	74.5	48.6	50.0	45.2	30.3	31.7
87.5°	14.9	13.5	15.9	15.4	13.5	17.3	13.0	15.4	18.3	12.0	11.1
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)