

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: P882412

Luminaire Tested: **NAV-SB2B-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882412
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-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 12515 lumens
Efficiency: N/A
Efficacy: 169.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

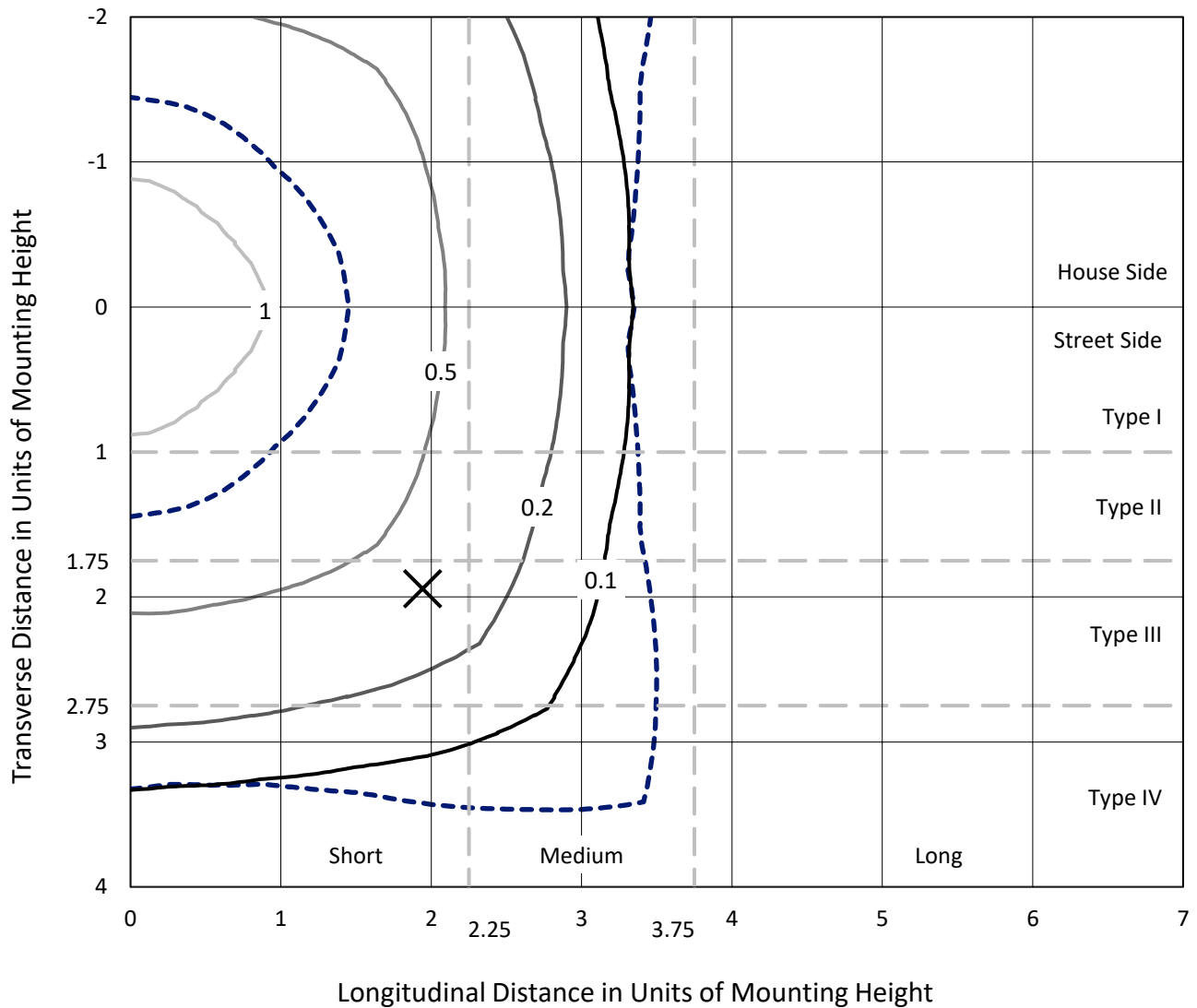
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

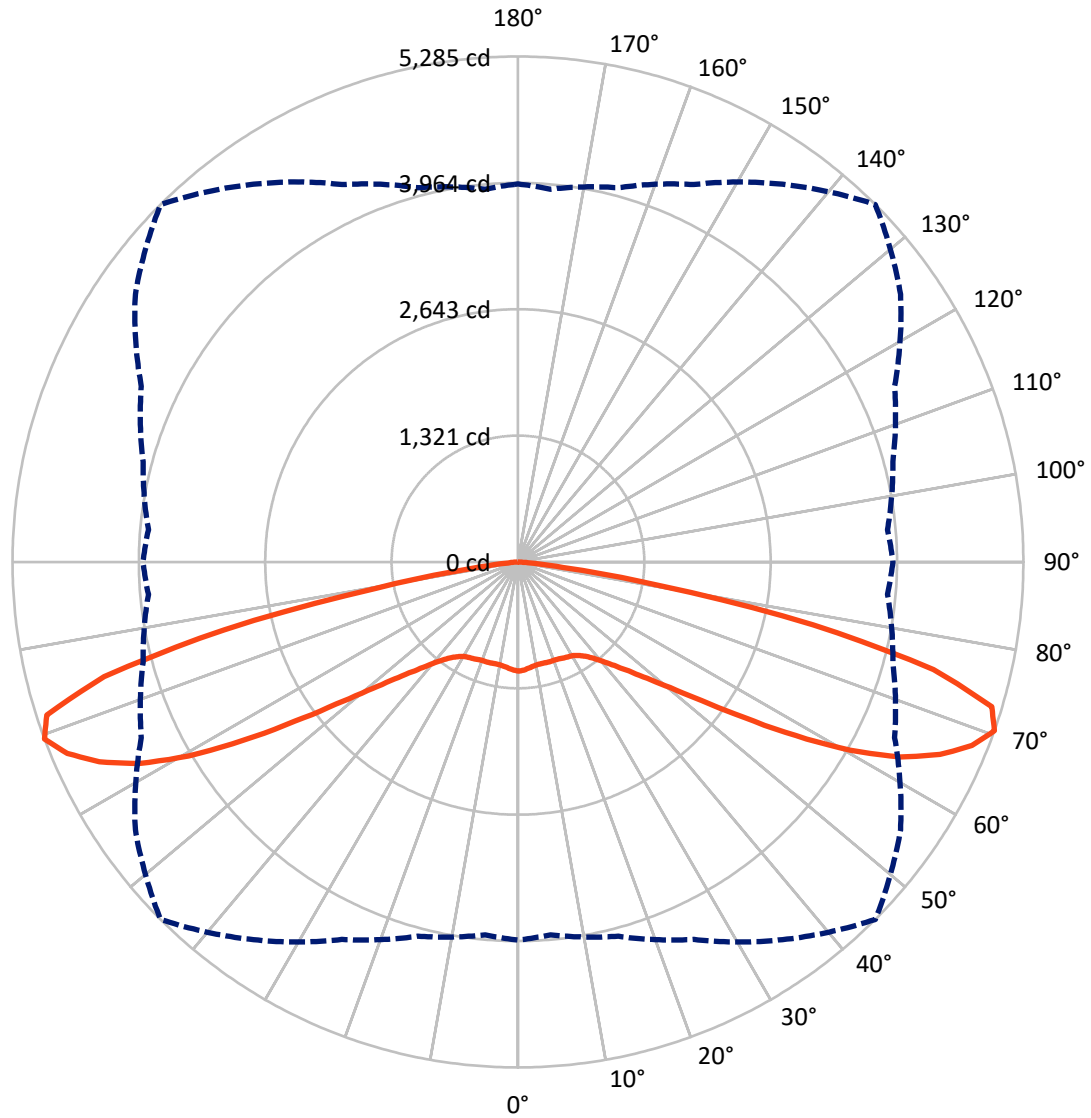
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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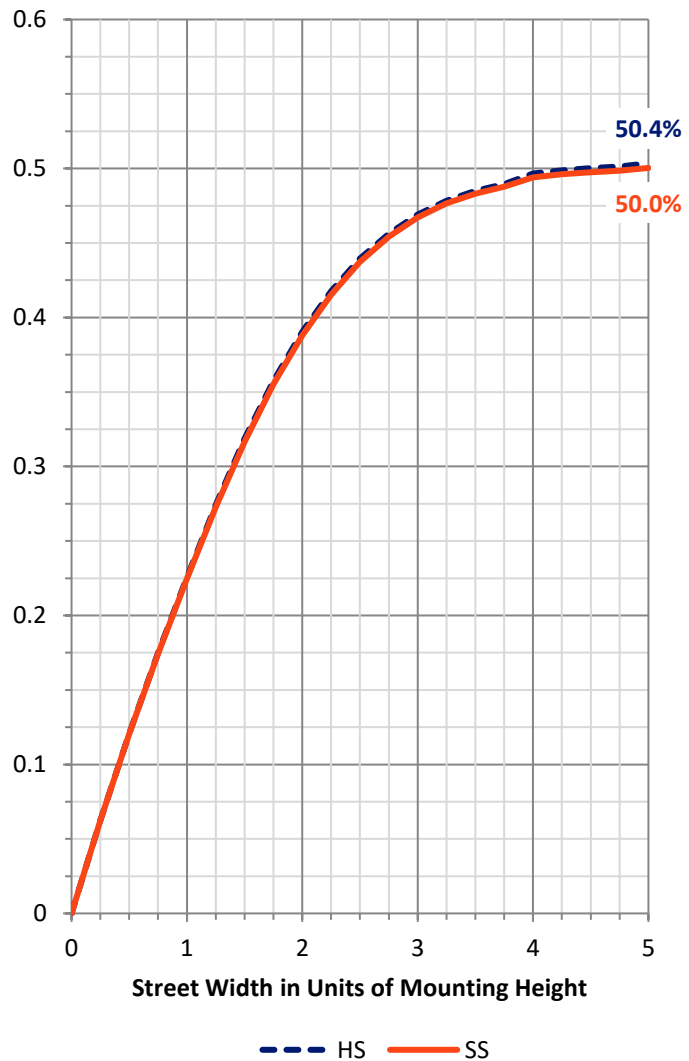
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6257.5	0.0	6257.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6257.5	0.0	6257.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12515.0	0.0	12515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	0.8
10°-20°	311.8	2.5
20°-30°	518.9	4.1
30°-40°	784.8	6.3
40°-50°	1304.1	10.4
50°-60°	2460.8	19.7
60°-70°	4155.1	33.2
70°-80°	2730.3	21.8
80°-90°	143.0	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°	12515.0	100.0
0°-180°	12515.0	100.0



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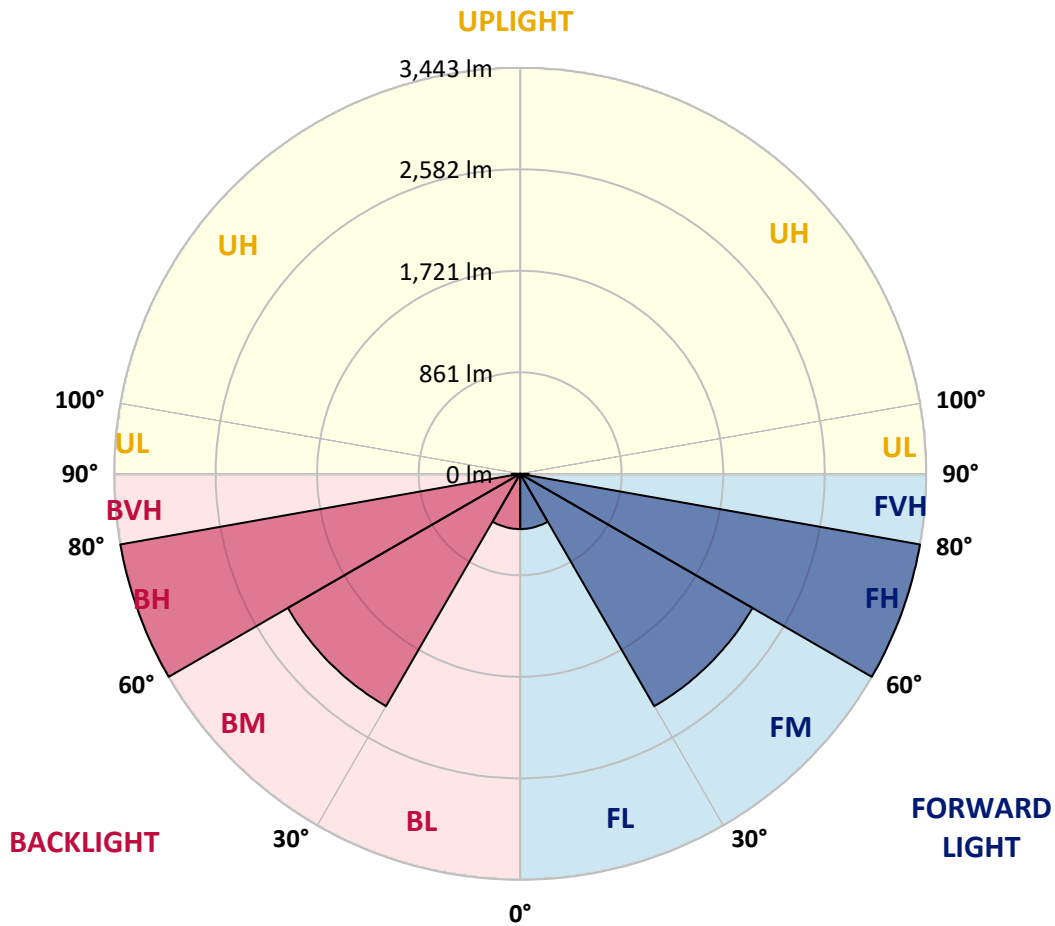
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.5	3.7			
FM (30°-60°)	2274.8	18.2			
FH (60°-80°)	3442.7	27.5			G2/5000
FVH (80°-90°)	71.5	0.6			G1/100
BL (0°-30°)	468.5	3.7	B1/500		
BM (30°-60°)	2274.8	18.2	B2/2500		
BH (60°-80°)	3442.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	71.5	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°	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1134.5	1137.7	1136.4	1133.8	1133.8	1131.9	1133.8	1135.1	1137.1	1138.4	1137.7
5°	1119.5	1122.1	1121.5	1119.5	1120.2	1118.2	1119.5	1121.5	1122.8	1123.4	1123.4
7.5°	1106.5	1109.1	1107.8	1104.5	1104.5	1102.6	1103.2	1105.2	1107.1	1107.8	1107.8
10°	1103.2	1105.8	1101.9	1096.7	1094.8	1092.2	1092.8	1094.8	1098.7	1100.6	1100.6
12.5°	1104.5	1106.5	1102.6	1094.8	1092.8	1090.2	1090.2	1092.2	1097.4	1100.0	1100.6
15°	1108.4	1110.4	1104.5	1096.1	1094.1	1092.2	1091.5	1094.1	1100.0	1104.5	1105.2
17.5°	1115.6	1117.6	1108.4	1096.7	1094.1	1094.8	1094.1	1096.1	1105.2	1113.6	1113.6
20°	1122.1	1123.4	1111.0	1096.7	1094.1	1094.8	1094.1	1098.0	1109.7	1121.5	1122.1
22.5°	1124.1	1125.4	1113.6	1101.3	1099.3	1100.0	1099.3	1103.2	1114.3	1126.0	1126.0
25°	1124.7	1126.7	1117.6	1107.8	1111.0	1112.3	1111.0	1111.7	1120.2	1130.6	1129.9
27.5°	1134.5	1137.1	1128.6	1120.2	1122.1	1121.5	1123.4	1125.4	1131.9	1142.3	1139.7
30°	1154.6	1156.6	1149.4	1141.0	1139.7	1135.1	1141.0	1147.5	1154.6	1163.7	1161.8
32.5°	1187.8	1191.7	1182.6	1173.5	1167.6	1165.0	1169.6	1180.6	1190.4	1200.2	1196.3
35°	1243.1	1245.7	1237.2	1220.3	1209.9	1209.9	1213.8	1228.1	1243.7	1256.1	1251.6
37.5°	1321.2	1324.4	1309.4	1289.3	1273.7	1273.7	1278.9	1293.8	1317.3	1334.8	1328.3
40°	1416.1	1420.7	1401.8	1381.0	1366.0	1363.4	1369.9	1386.9	1409.0	1431.1	1423.9
42.5°	1530.6	1535.8	1511.1	1492.9	1481.2	1481.2	1484.4	1500.0	1520.2	1547.5	1545.6
45°	1677.0	1686.1	1652.3	1634.0	1623.0	1625.6	1627.5	1641.2	1659.4	1690.6	1689.3
47.5°	1851.3	1860.4	1824.6	1805.8	1803.8	1816.2	1808.4	1818.1	1827.9	1863.7	1853.3
50°	2049.1	2064.7	2040.0	2038.7	2042.6	2065.3	2047.1	2052.3	2041.3	2064.0	2050.4
52.5°	2291.0	2313.8	2309.3	2317.1	2360.6	2407.5	2365.9	2347.6	2306.0	2313.2	2289.1
55°	2584.4	2618.9	2625.4	2672.2	2771.1	2866.7	2778.3	2704.8	2616.3	2600.0	2574.7
57.5°	2918.1	2945.4	2976.7	3072.3	3257.0	3426.8	3257.0	3094.4	2955.2	2922.0	2898.6
60°	3277.2	3311.0	3340.9	3482.1	3756.6	3995.3	3751.4	3493.2	3309.1	3264.2	3225.2
62.5°	3662.9	3706.5	3727.3	3884.1	4204.2	4489.1	4208.7	3895.8	3691.6	3643.4	3604.4
65°	4033.1	4068.9	4092.3	4259.4	4565.2	4850.7	4586.0	4277.7	4067.5	4004.5	3973.2
67.5°	4205.5	4225.0	4282.2	4471.5	4794.2	5120.1	4848.8	4491.7	4256.8	4146.3	4147.6
70°	3953.1	3913.4	4051.3	4354.4	4821.5	5285.3	4883.9	4345.3	4057.8	3878.3	3921.2
72.5°	3054.7	2986.4	3225.8	3744.3	4509.2	5179.9	4540.5	3773.5	3374.8	3010.5	3100.9
75°	1662.0	1584.6	1915.1	2570.8	3595.9	4489.7	3678.6	2644.3	2132.3	1649.7	1757.0
77.5°	469.0	439.7	706.4	1243.7	2162.9	3152.3	2246.2	1271.1	837.8	497.0	552.3
80°	143.8	139.2	188.6	374.7	918.5	1509.8	882.7	379.2	240.0	151.6	160.0
82.5°	85.2	78.1	93.7	136.6	234.2	474.2	227.7	142.5	114.5	76.8	83.3
85°	48.8	45.5	55.3	66.4	78.7	100.8	65.7	67.7	61.1	41.0	42.9
87.5°	20.2	18.2	21.5	20.8	18.2	23.4	17.6	20.8	24.7	16.3	15.0
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)