

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: P882252

Luminaire Tested: **NAV-SB2A-750-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882252
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-SB2A-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9970 lumens
Efficiency: N/A
Efficacy: 174.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

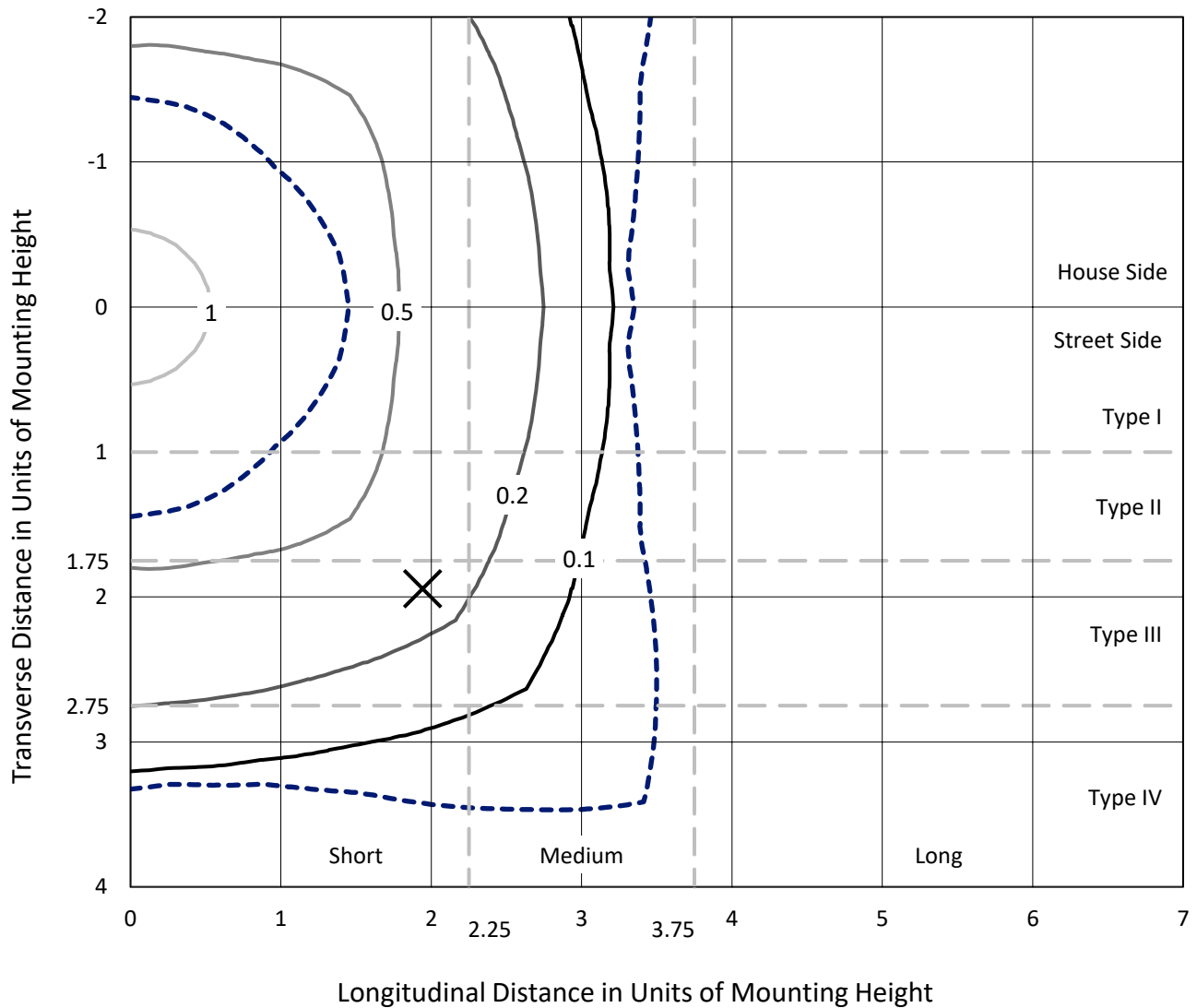
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

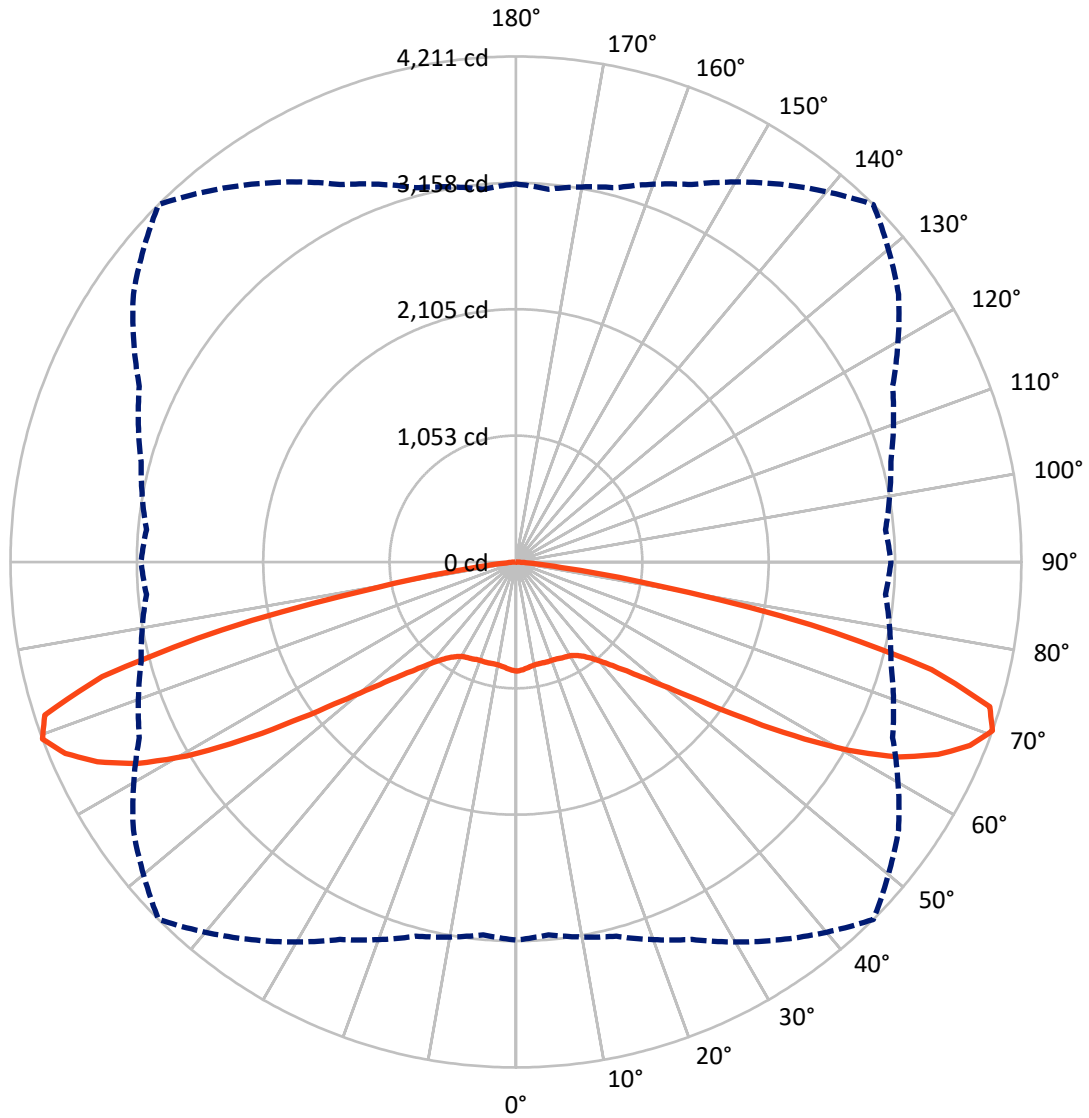
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	4985.0	0.0	4985.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4985.0	0.0	4985.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9970.0	0.0	9970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	0.8
10°-20°	248.4	2.5
20°-30°	413.4	4.1
30°-40°	625.2	6.3
40°-50°	1038.9	10.4
50°-60°	1960.3	19.7
60°-70°	3310.1	33.2
70°-80°	2175.1	21.8
80°-90°	114.0	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°	9970.0	100.0
0°-180°	9970.0	100.0



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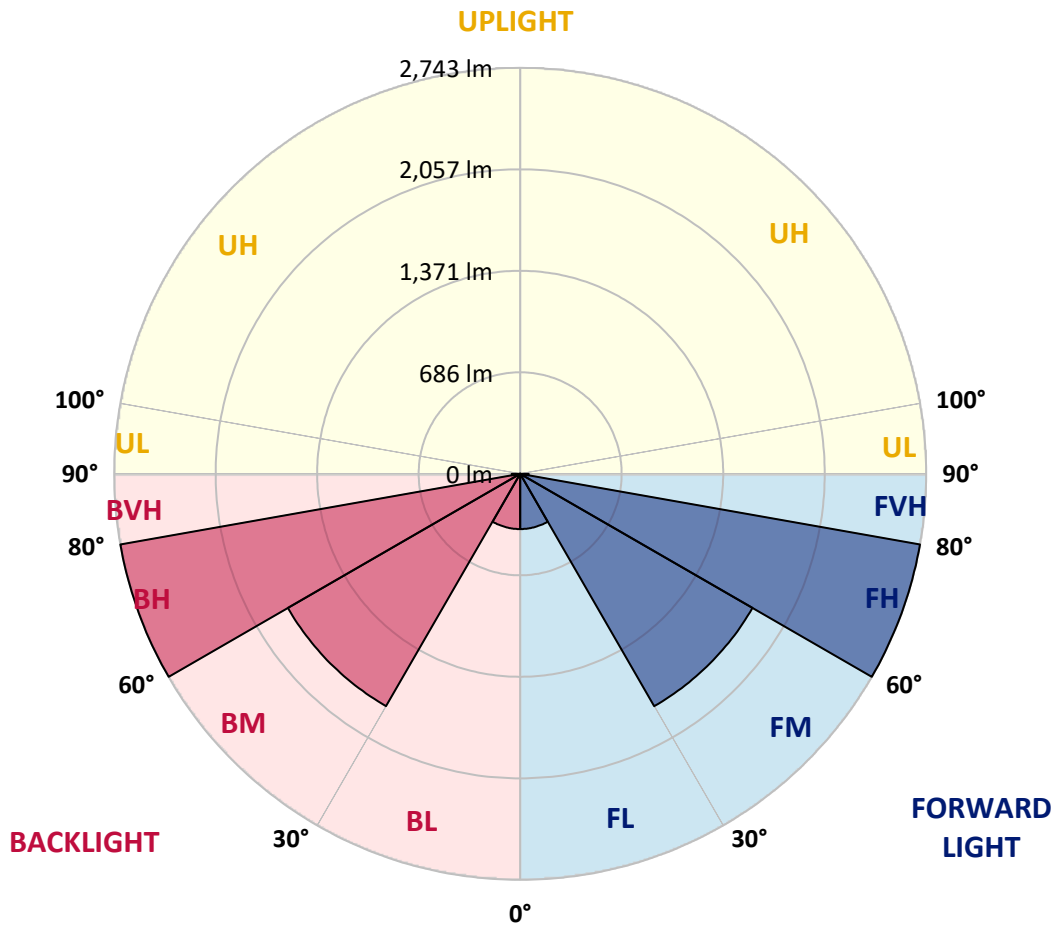
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.2	3.7			
FM (30°-60°)	1812.2	18.2			
FH (60°-80°)	2742.6	27.5			G2/5000
FVH (80°-90°)	57.0	0.6			G1/100
BL (0°-30°)	373.2	3.7	B1/500		
BM (30°-60°)	1812.2	18.2	B2/2500		
BH (60°-80°)	2742.6	27.5	B4/5000		G2/5000
BVH (80°-90°)	57.0	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°	909.5	909.5	909.5	909.5	909.5	909.5	909.5	909.5	909.5	909.5	909.5
2.5°	903.8	906.4	905.3	903.2	903.2	901.7	903.2	904.3	905.8	906.9	906.4
5°	891.8	893.9	893.4	891.8	892.4	890.8	891.8	893.4	894.4	895.0	895.0
7.5°	881.5	883.6	882.5	879.9	879.9	878.4	878.9	880.4	882.0	882.5	882.5
10°	878.9	881.0	877.9	873.7	872.2	870.1	870.6	872.2	875.3	876.8	876.8
12.5°	879.9	881.5	878.4	872.2	870.6	868.5	868.5	870.1	874.2	876.3	876.8
15°	883.0	884.6	879.9	873.2	871.6	870.1	869.6	871.6	876.3	879.9	880.4
17.5°	888.7	890.3	883.0	873.7	871.6	872.2	871.6	873.2	880.4	887.2	887.2
20°	893.9	895.0	885.1	873.7	871.6	872.2	871.6	874.7	884.1	893.4	893.9
22.5°	895.5	896.5	887.2	877.3	875.8	876.3	875.8	878.9	887.7	897.0	897.0
25°	896.0	897.5	890.3	882.5	885.1	886.1	885.1	885.6	892.4	900.7	900.1
27.5°	903.8	905.8	899.1	892.4	893.9	893.4	895.0	896.5	901.7	910.0	907.9
30°	919.8	921.4	915.7	908.9	907.9	904.3	908.9	914.1	919.8	927.1	925.5
32.5°	946.3	949.4	942.1	934.9	930.2	928.1	931.7	940.6	948.3	956.1	953.0
35°	990.3	992.4	985.6	972.2	963.9	963.9	967.0	978.4	990.8	1000.7	997.0
37.5°	1052.5	1055.1	1043.2	1027.1	1014.7	1014.7	1018.8	1030.7	1049.4	1063.4	1058.2
40°	1128.2	1131.8	1116.8	1100.2	1088.2	1086.2	1091.4	1104.8	1122.5	1140.1	1134.4
42.5°	1219.4	1223.5	1203.8	1189.3	1180.0	1180.0	1182.6	1195.0	1211.1	1232.8	1231.3
45°	1336.0	1343.2	1316.3	1301.8	1292.9	1295.0	1296.6	1307.5	1322.0	1346.8	1345.8
47.5°	1474.8	1482.1	1453.6	1438.6	1437.0	1446.9	1440.6	1448.4	1456.2	1484.7	1476.4
50°	1632.4	1644.8	1625.1	1624.1	1627.2	1645.3	1630.8	1635.0	1626.2	1644.3	1633.4
52.5°	1825.1	1843.3	1839.7	1845.9	1880.6	1917.9	1884.7	1870.2	1837.1	1842.8	1823.6
55°	2058.9	2086.3	2091.5	2128.8	2207.6	2283.8	2213.3	2154.7	2084.3	2071.3	2051.1
57.5°	2324.7	2346.5	2371.3	2447.5	2594.7	2729.9	2594.7	2465.1	2354.2	2327.8	2309.2
60°	2610.8	2637.7	2661.5	2774.0	2992.7	3182.9	2988.5	2782.8	2636.2	2600.4	2569.3
62.5°	2918.1	2952.8	2969.4	3094.3	3349.2	3576.2	3352.8	3103.6	2940.9	2902.5	2871.4
65°	3212.9	3241.4	3260.1	3393.3	3636.8	3864.3	3653.4	3407.8	3240.4	3190.1	3165.2
67.5°	3350.3	3365.8	3411.4	3562.2	3819.2	4078.9	3862.8	3578.3	3391.2	3303.1	3304.1
70°	3149.2	3117.6	3227.4	3468.9	3841.0	4210.5	3890.7	3461.7	3232.6	3089.6	3123.8
72.5°	2433.5	2379.1	2569.8	2982.8	3592.3	4126.5	3617.1	3006.2	2688.5	2398.3	2470.3
75°	1324.0	1262.4	1525.6	2048.0	2864.7	3576.7	2930.5	2106.5	1698.7	1314.2	1399.7
77.5°	373.6	350.3	562.8	990.8	1723.1	2511.3	1789.4	1012.6	667.5	395.9	440.0
80°	114.5	110.9	150.3	298.5	731.7	1202.8	703.2	302.1	191.2	120.7	127.5
82.5°	67.9	62.2	74.6	108.8	186.6	377.8	181.4	113.5	91.2	61.1	66.3
85°	38.9	36.3	44.0	52.9	62.7	80.3	52.3	53.9	48.7	32.6	34.2
87.5°	16.1	14.5	17.1	16.6	14.5	18.7	14.0	16.6	19.7	13.0	11.9
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)