

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: P961359

Luminaire Tested: **NAV-SB2A-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9300.8 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

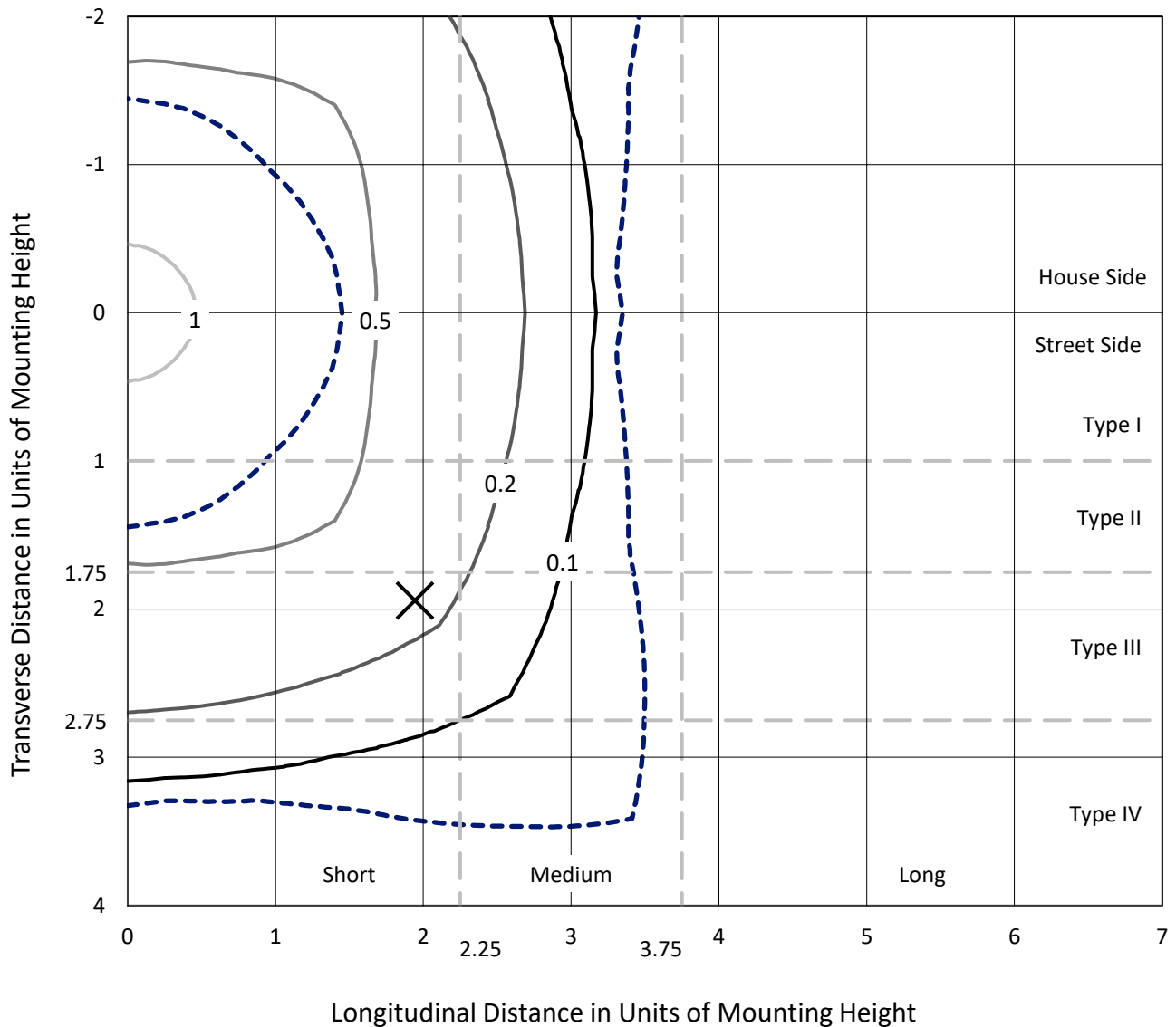
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

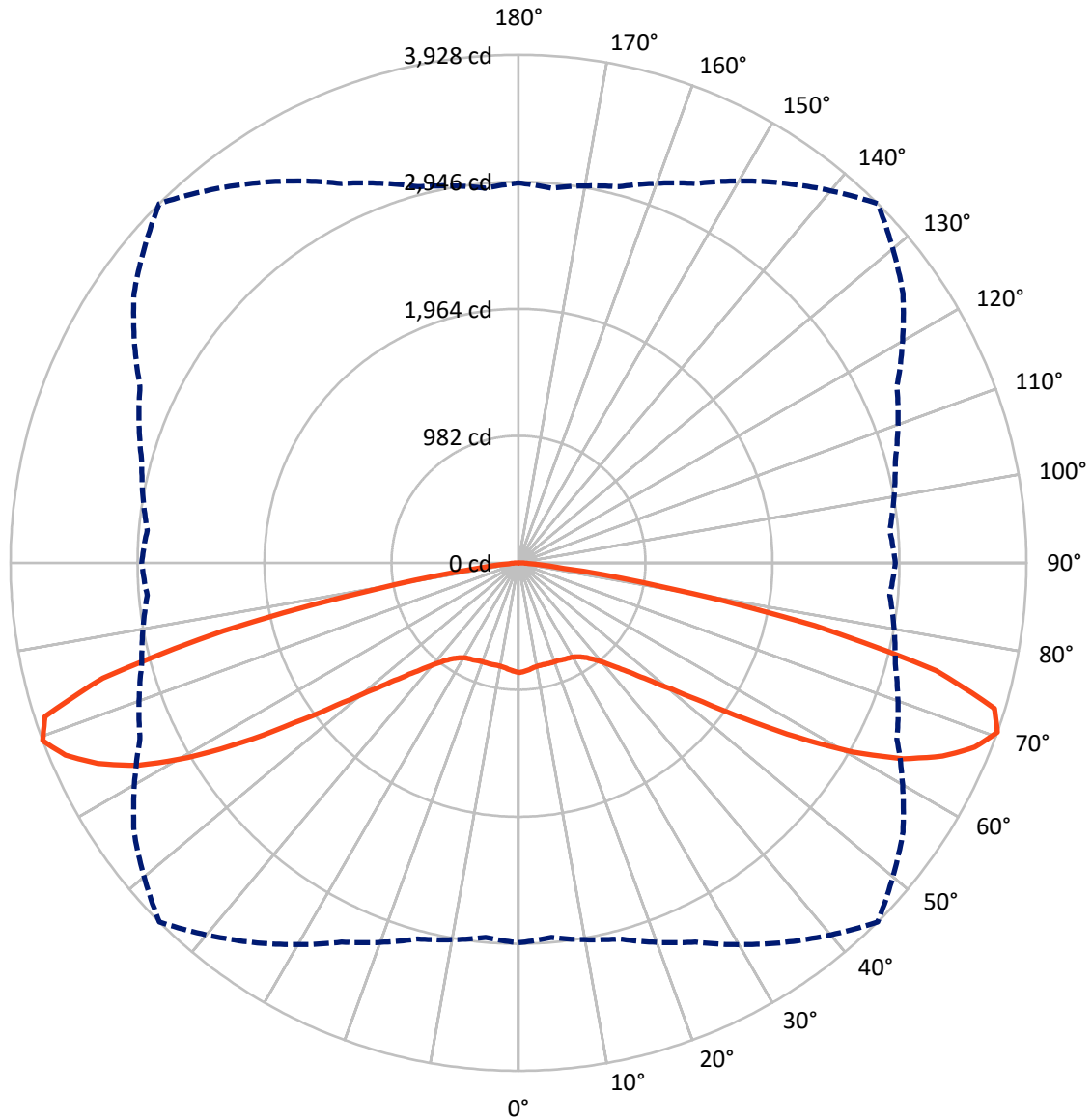
✕ Max cd
 - - - 1/2 Max cd



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	4650.4	0.0	4650.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4650.4	0.0	4650.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9300.8	0.0	9300.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	0.8
10°-20°	231.7	2.5
20°-30°	385.6	4.1
30°-40°	583.2	6.3
40°-50°	969.2	10.4
50°-60°	1828.8	19.7
60°-70°	3088.0	33.2
70°-80°	2029.1	21.8
80°-90°	106.3	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°	9300.8	100.0
0°-180°	9300.8	100.0

Coefficient of Utilization



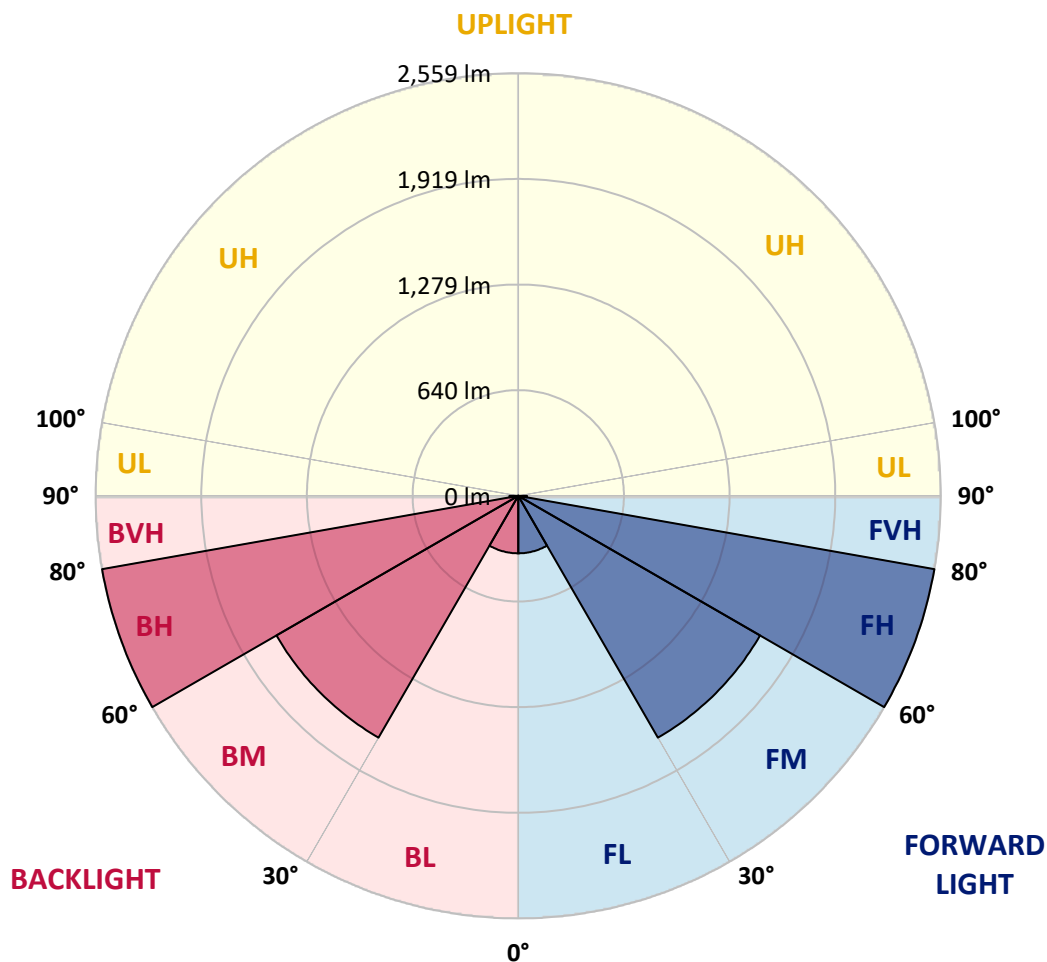
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.2	3.7			
FM (30°-60°)	1690.6	18.2			
FH (60°-80°)	2558.5	27.5			G2/5000
FVH (80°-90°)	53.1	0.6			G1/100
BL (0°-30°)	348.2	3.7	B1/500		
BM (30°-60°)	1690.6	18.2	B2/2500		
BH (60°-80°)	2558.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	53.1	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°	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4
2.5°	843.1	845.5	844.6	842.7	842.7	841.2	842.7	843.6	845.0	846.0	845.5
5°	832.0	833.9	833.4	832.0	832.5	831.1	832.0	833.4	834.5	834.9	834.9
7.5°	822.4	824.2	823.3	820.8	820.8	819.4	819.9	821.3	822.8	823.3	823.3
10°	819.9	821.8	819.0	815.1	813.6	811.7	812.2	813.6	816.5	817.9	817.9
12.5°	820.8	822.4	819.4	813.6	812.2	810.3	810.3	811.7	815.6	817.4	817.9
15°	823.8	825.2	820.8	814.6	813.1	811.7	811.2	813.1	817.4	820.8	821.3
17.5°	829.1	830.6	823.8	815.1	813.1	813.6	813.1	814.6	821.3	827.7	827.7
20°	833.9	834.9	825.7	815.1	813.1	813.6	813.1	816.0	824.7	833.4	833.9
22.5°	835.4	836.3	827.7	818.5	817.0	817.4	817.0	819.9	828.1	836.8	836.8
25°	835.9	837.3	830.6	823.3	825.7	826.7	825.7	826.2	832.5	840.2	839.7
27.5°	843.1	845.0	838.8	832.5	833.9	833.4	834.9	836.3	841.2	848.9	847.0
30°	858.1	859.6	854.2	848.0	847.0	843.6	848.0	852.8	858.1	864.9	863.5
32.5°	882.7	885.6	878.8	872.1	867.8	865.8	869.2	877.4	884.7	892.0	889.0
35°	923.8	925.8	919.5	906.9	899.2	899.2	902.1	912.8	924.3	933.5	930.1
37.5°	981.8	984.3	973.1	958.2	946.6	946.6	950.4	961.6	979.0	992.0	987.2
40°	1052.5	1055.9	1041.8	1026.3	1015.2	1013.3	1018.1	1030.6	1047.1	1063.5	1058.2
42.5°	1137.5	1141.3	1123.0	1109.5	1100.7	1100.7	1103.2	1114.8	1129.8	1150.0	1148.6
45°	1246.3	1253.1	1227.9	1214.4	1206.1	1208.1	1209.5	1219.8	1233.3	1256.4	1255.5
47.5°	1375.9	1382.6	1356.1	1342.0	1340.6	1349.7	1344.0	1351.2	1358.4	1385.1	1377.3
50°	1522.8	1534.4	1516.1	1515.1	1518.0	1534.9	1521.4	1525.2	1517.0	1533.9	1523.8
52.5°	1702.6	1719.5	1716.2	1722.0	1754.4	1789.1	1758.3	1744.8	1713.8	1719.1	1701.2
55°	1920.6	1946.3	1951.1	1985.9	2059.4	2130.5	2064.8	2010.1	1944.3	1932.3	1913.5
57.5°	2168.7	2189.0	2212.2	2283.3	2420.5	2546.7	2420.5	2299.7	2196.3	2171.6	2154.1
60°	2435.5	2460.7	2483.0	2587.8	2791.8	2969.2	2788.0	2596.0	2459.2	2425.9	2396.9
62.5°	2722.2	2754.6	2770.1	2886.6	3124.4	3336.2	3127.8	2895.3	2743.5	2707.7	2678.7
65°	2997.3	3023.9	3041.3	3165.5	3392.7	3604.9	3408.2	3179.0	3022.9	2976.0	2952.8
67.5°	3125.4	3139.9	3182.4	3323.2	3562.9	3805.1	3603.5	3338.1	3163.6	3081.4	3082.4
70°	2937.9	2908.3	3010.8	3236.1	3583.2	3927.9	3629.6	3229.4	3015.7	2882.2	2914.2
72.5°	2270.2	2219.4	2397.4	2782.7	3351.1	3849.6	3374.4	2804.4	2508.1	2237.4	2304.5
75°	1235.1	1177.6	1423.2	1910.5	2672.4	3336.7	2733.8	1965.1	1584.6	1226.0	1305.7
77.5°	348.6	326.8	525.0	924.3	1607.4	2342.7	1669.3	944.6	622.7	369.3	410.4
80°	106.8	103.4	140.2	278.5	682.6	1122.1	656.0	281.9	178.4	112.6	118.9
82.5°	63.3	58.0	69.6	101.5	174.0	352.4	169.2	105.9	85.1	57.1	61.9
85°	36.3	33.8	41.1	49.3	58.5	74.9	48.8	50.3	45.4	30.4	31.9
87.5°	15.0	13.5	16.0	15.5	13.5	17.4	13.0	15.5	18.3	12.1	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)