

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: P967683

Luminaire Tested: **NAV-SB5A-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967683
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-SB5A-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 23493 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

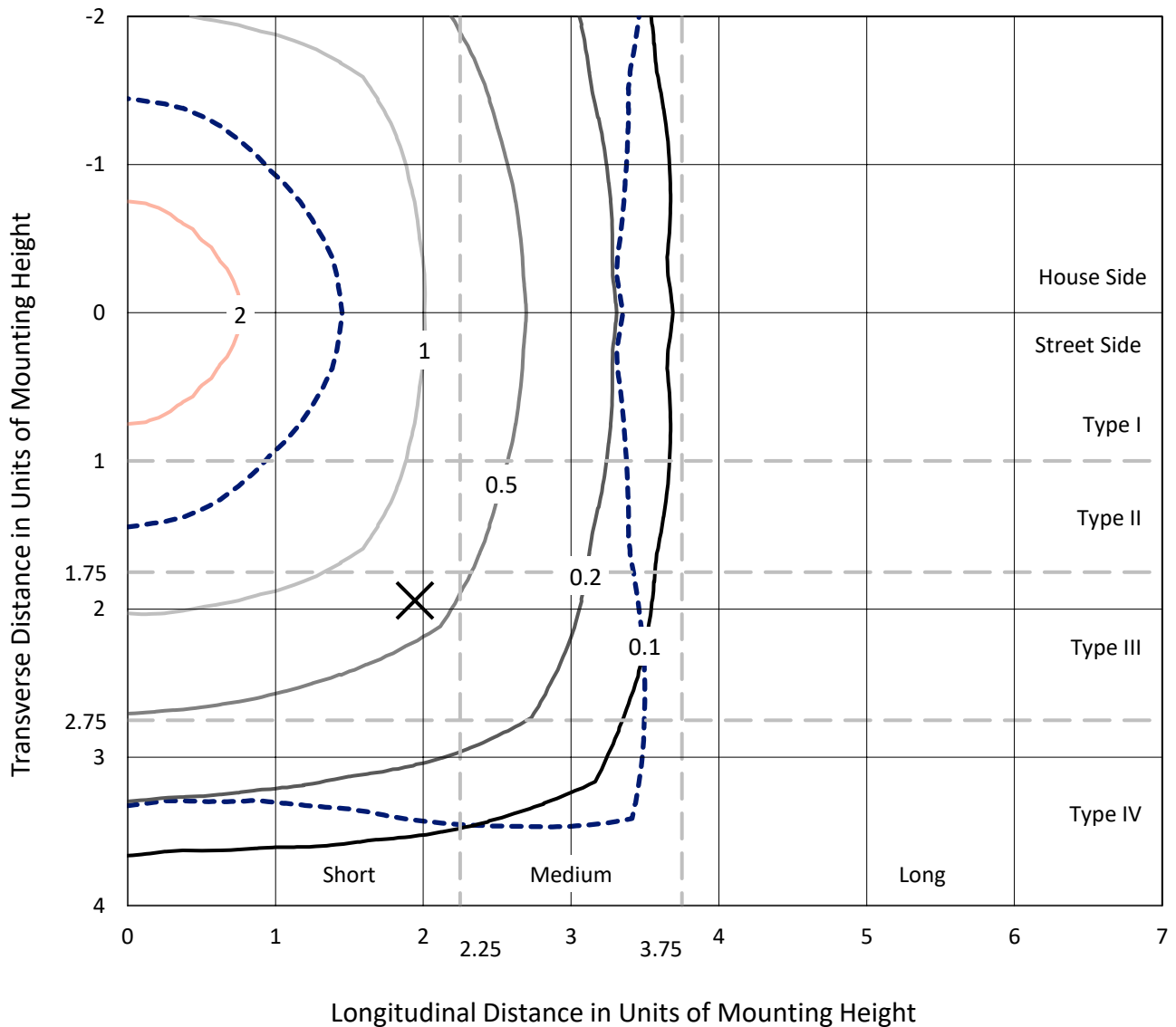
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

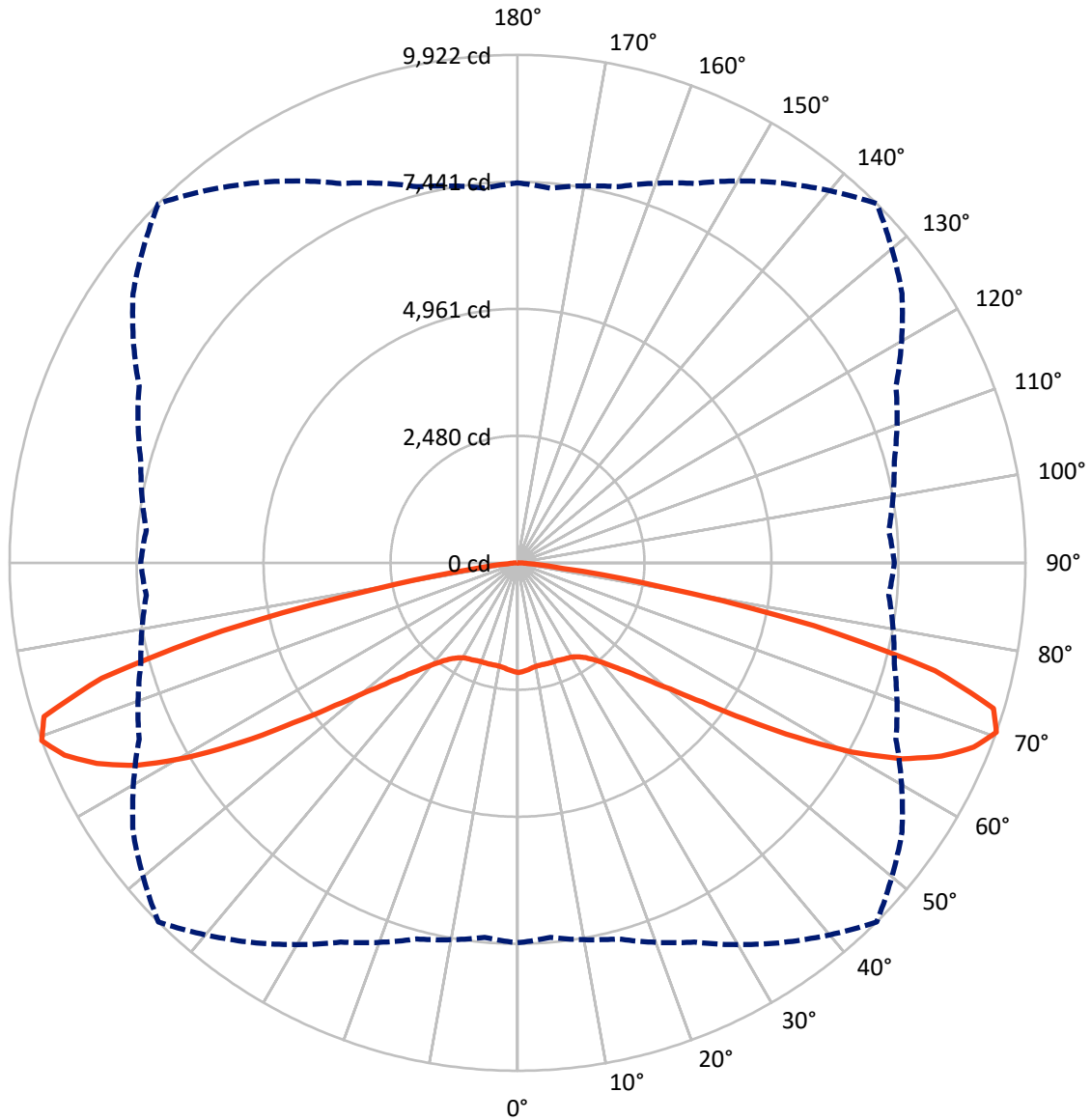
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	11746.5	0.0	11746.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11746.5	0.0	11746.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23493.0	0.0	23493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	0.8
10°-20°	585.4	2.5
20°-30°	974.1	4.1
30°-40°	1473.1	6.3
40°-50°	2448.0	10.4
50°-60°	4619.3	19.7
60°-70°	7799.9	33.2
70°-80°	5125.3	21.8
80°-90°	268.5	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°	23493.0	100.0
0°-180°	23493.0	100.0

Coefficient of Utilization



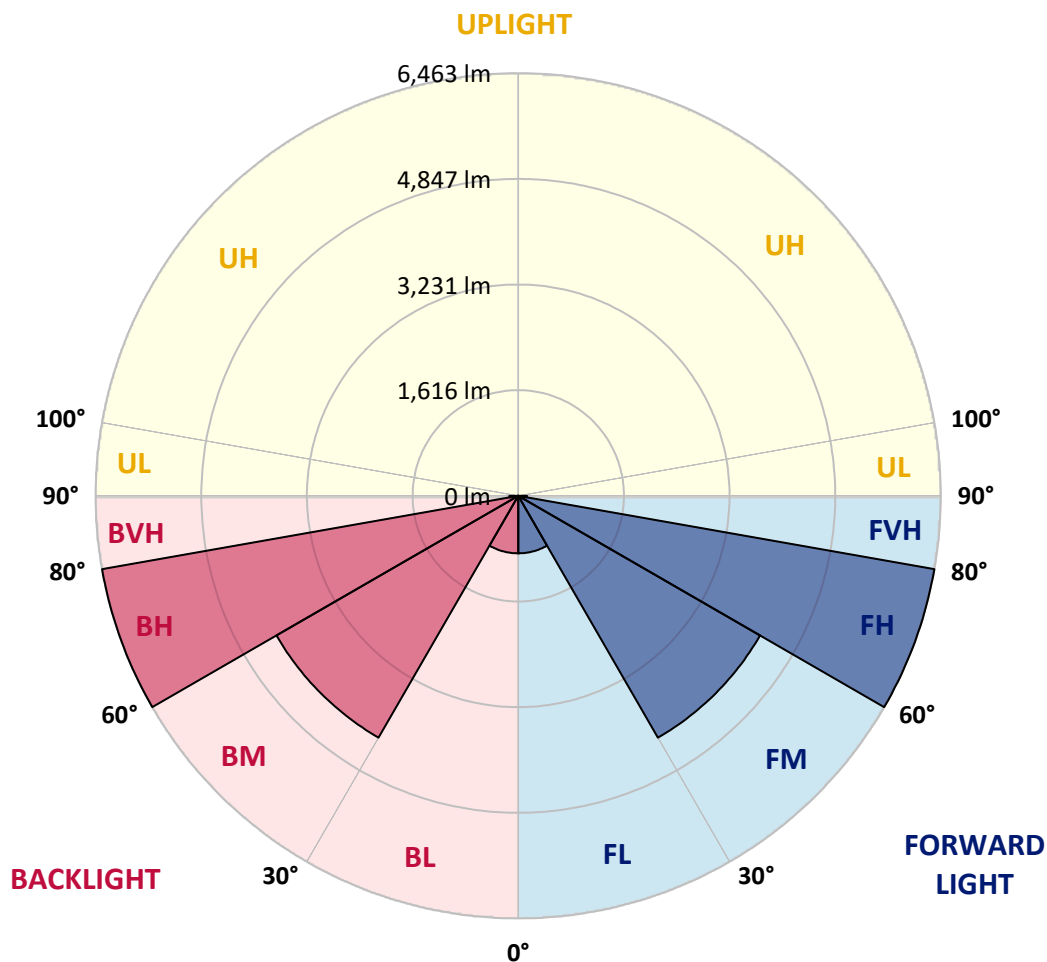
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.4	3.7			
FM (30°-60°)	4270.2	18.2			
FH (60°-80°)	6462.6	27.5			G3/7500
FVH (80°-90°)	134.3	0.6			G2/225
BL (0°-30°)	879.4	3.7	B2/1000		
BM (30°-60°)	4270.2	18.2	B3/5000		
BH (60°-80°)	6462.6	27.5	B5		G3/7500
BVH (80°-90°)	134.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1
2.5°	2129.6	2135.7	2133.2	2128.4	2128.4	2124.7	2128.4	2130.9	2134.5	2136.9	2135.7
5°	2101.6	2106.4	2105.1	2101.6	2102.8	2099.1	2101.6	2105.1	2107.6	2108.8	2108.8
7.5°	2077.1	2082.0	2079.5	2073.5	2073.5	2069.8	2071.0	2074.7	2078.3	2079.5	2079.5
10°	2071.0	2075.8	2068.6	2058.8	2055.1	2050.2	2051.4	2055.1	2062.4	2066.1	2066.1
12.5°	2073.5	2077.1	2069.8	2055.1	2051.4	2046.6	2046.6	2050.2	2060.0	2064.9	2066.1
15°	2080.8	2084.4	2073.5	2057.6	2053.9	2050.2	2049.0	2053.9	2064.9	2073.5	2074.7
17.5°	2094.2	2097.9	2080.8	2058.8	2053.9	2055.1	2053.9	2057.6	2074.7	2090.5	2090.5
20°	2106.4	2108.8	2085.7	2058.8	2053.9	2055.1	2053.9	2061.2	2083.2	2105.1	2106.4
22.5°	2110.1	2112.5	2090.5	2067.3	2063.6	2064.9	2063.6	2071.0	2091.7	2113.8	2113.8
25°	2111.3	2115.0	2097.9	2079.5	2085.7	2088.1	2085.7	2086.9	2102.8	2122.3	2121.0
27.5°	2129.6	2134.5	2118.6	2102.8	2106.4	2105.1	2108.8	2112.5	2124.7	2144.3	2139.4
30°	2167.5	2171.2	2157.7	2141.8	2139.4	2130.9	2141.8	2154.0	2167.5	2184.6	2180.9
32.5°	2229.7	2237.1	2219.9	2202.8	2191.9	2187.0	2195.5	2216.3	2234.6	2253.0	2245.6
35°	2333.5	2338.4	2322.5	2290.8	2271.3	2271.3	2278.6	2305.4	2334.7	2357.9	2349.4
37.5°	2480.1	2486.1	2458.1	2420.2	2390.9	2390.9	2400.7	2428.7	2472.7	2505.7	2493.5
40°	2658.3	2666.8	2631.5	2592.4	2564.3	2559.4	2571.6	2603.4	2644.9	2686.4	2673.0
42.5°	2873.3	2883.0	2836.6	2802.5	2780.4	2780.4	2786.6	2815.9	2853.7	2905.0	2901.4
45°	3148.0	3165.1	3101.6	3067.4	3046.6	3051.5	3055.2	3080.8	3115.1	3173.6	3171.2
47.5°	3475.3	3492.4	3425.2	3389.8	3386.1	3409.4	3394.7	3412.9	3431.3	3498.4	3479.0
50°	3846.5	3875.7	3829.4	3826.9	3834.2	3877.0	3842.8	3852.6	3831.9	3874.6	3848.9
52.5°	4300.7	4343.4	4334.9	4349.6	4431.4	4519.3	4441.1	4407.0	4328.8	4342.2	4297.1
55°	4851.4	4916.2	4928.4	5016.2	5201.9	5381.4	5215.3	5077.3	4911.3	4880.7	4833.1
57.5°	5477.9	5529.2	5587.8	5767.3	6114.0	6432.8	6114.0	5808.8	5547.5	5485.2	5441.2
60°	6151.9	6215.4	6271.6	6536.5	7051.9	7500.0	7042.1	6557.3	6211.7	6127.4	6054.3
62.5°	6876.0	6957.8	6997.0	7291.2	7892.0	8426.8	7900.5	7313.2	6929.7	6839.4	6766.1
65°	7570.9	7638.0	7682.0	7995.8	8569.7	9105.8	8608.8	8030.0	7635.5	7517.1	7458.5
67.5°	7894.4	7931.0	8038.6	8393.8	8999.5	9611.3	9102.1	8431.8	7990.9	7783.3	7785.8
70°	7420.6	7346.2	7605.0	8174.1	9050.9	9921.5	9168.0	8156.9	7617.3	7280.2	7360.8
72.5°	5734.3	5606.0	6055.5	7028.6	8464.7	9723.7	8523.3	7083.6	6335.1	5651.2	5821.0
75°	3119.9	2974.7	3594.9	4825.8	6750.2	8428.1	6905.3	4963.8	4002.7	3096.7	3298.2
77.5°	880.4	825.4	1326.1	2334.7	4060.1	5917.4	4216.4	2386.0	1572.8	933.0	1036.7
80°	269.9	261.3	354.1	703.4	1724.2	2834.2	1657.0	711.9	450.6	284.5	300.4
82.5°	160.0	146.6	175.8	256.5	439.6	890.2	427.4	267.4	214.9	144.1	156.3
85°	91.5	85.5	103.8	124.5	147.7	189.3	123.3	127.0	114.8	77.0	80.6
87.5°	37.8	34.2	40.3	39.1	34.2	44.0	33.0	39.1	46.4	30.5	28.1
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)