

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: P884412

Luminaire Tested: **NAV-SB5B-722-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884412  
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-SB5B-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

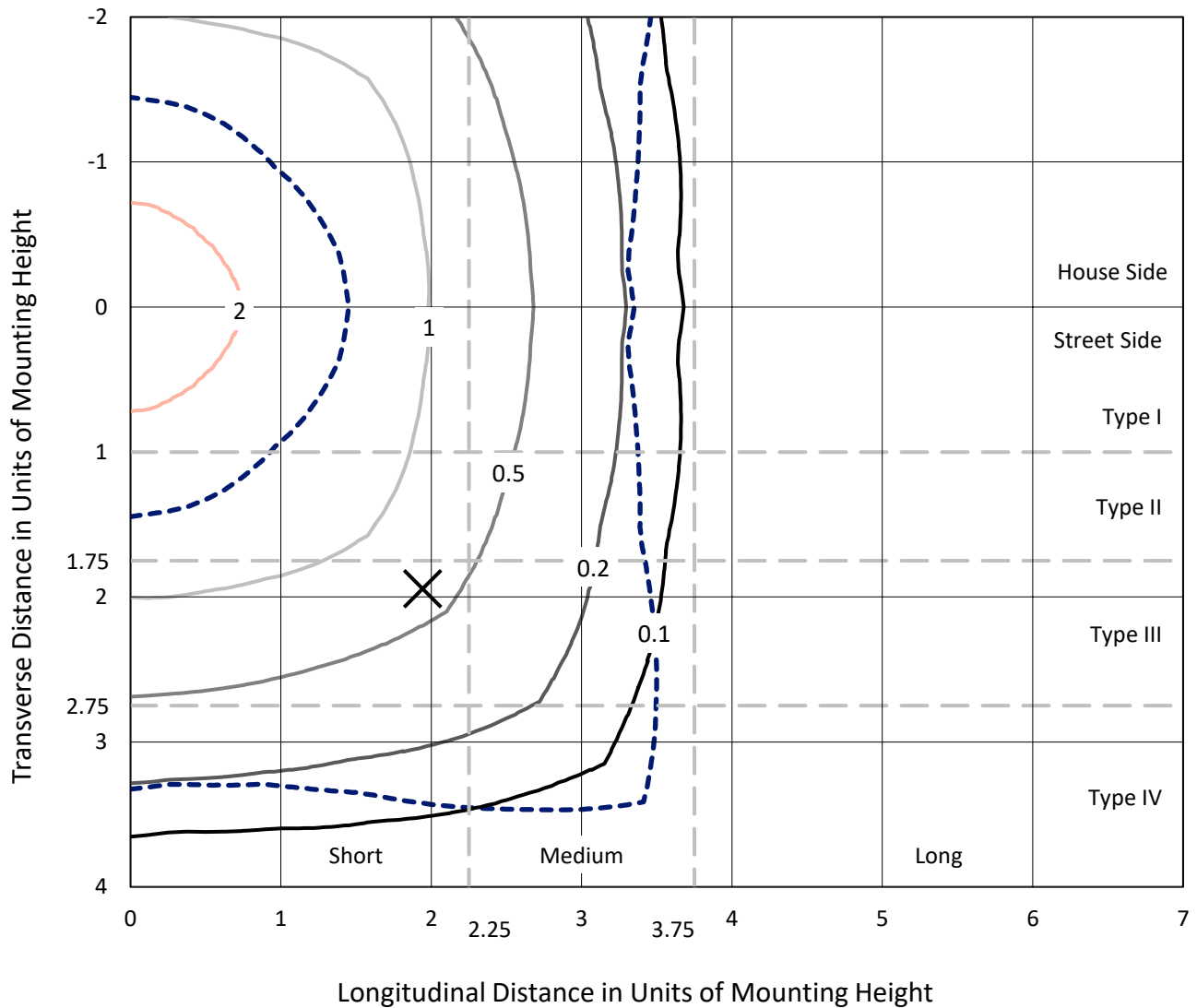
Lumens per Lamp: N/A  
Luminaire Lumens: 23032 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.547  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 11.125  
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

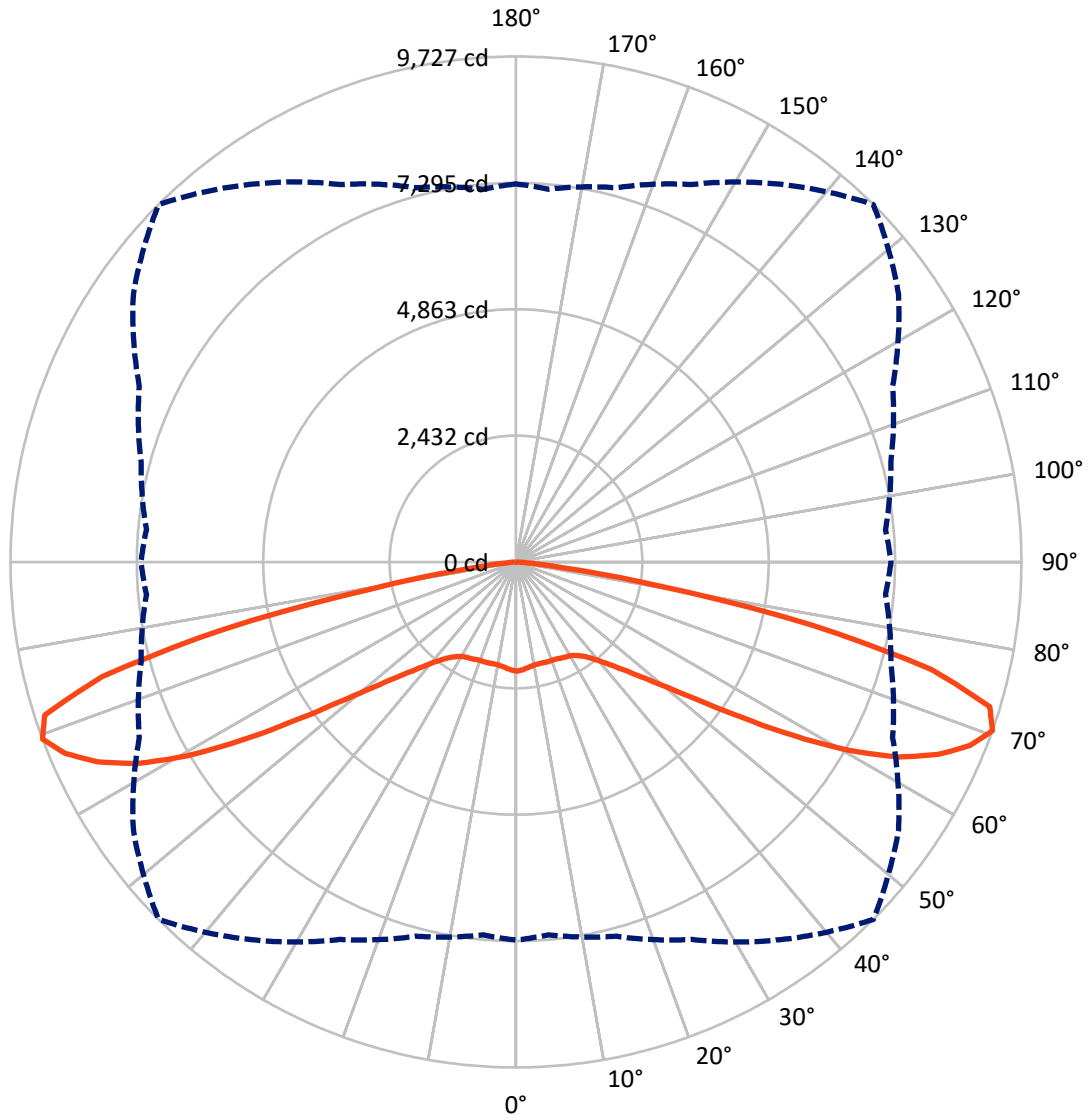
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	11516.0	0.0	11516.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11516.0	0.0	11516.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23032.0	0.0	23032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	0.8
10°-20°	573.9	2.5
20°-30°	955.0	4.1
30°-40°	1444.2	6.3
40°-50°	2400.0	10.4
50°-60°	4528.7	19.7
60°-70°	7646.8	33.2
70°-80°	5024.8	21.8
80°-90°	263.2	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°	23032.0	100.0
0°-180°	23032.0	100.0



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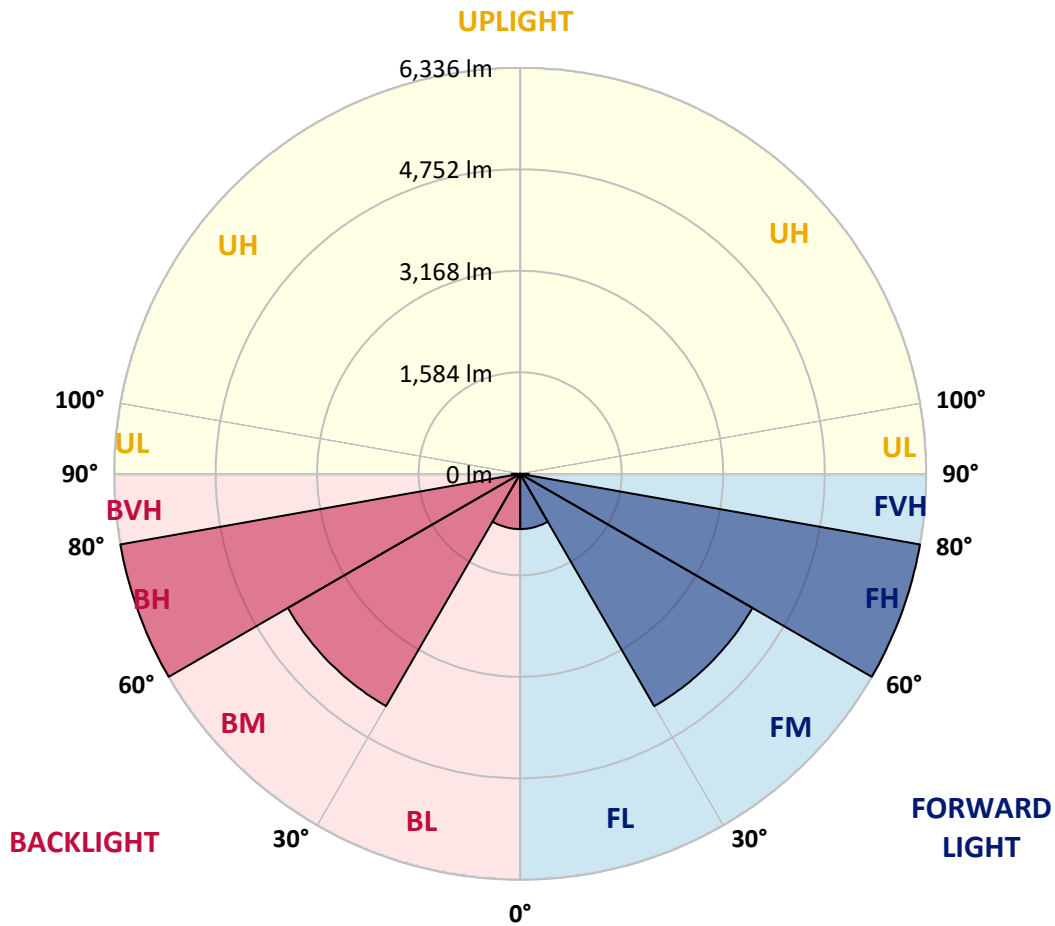
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.1	3.7			
FM (30°-60°)	4186.4	18.2			
FH (60°-80°)	6335.8	27.5			G3/7500
FVH (80°-90°)	131.6	0.6			G2/225
BL (0°-30°)	862.1	3.7	B2/1000		
BM (30°-60°)	4186.4	18.2	B3/5000		
BH (60°-80°)	6335.8	27.5	B5		G3/7500
BVH (80°-90°)	131.6	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°	2101.0	2101.0	2101.0	2101.0	2101.0	2101.0	2101.0	2101.0	2101.0	2101.0	2101.0
2.5°	2087.8	2093.8	2091.4	2086.6	2086.6	2083.0	2086.6	2089.0	2092.6	2095.0	2093.8
5°	2060.3	2065.1	2063.9	2060.3	2061.5	2057.9	2060.3	2063.9	2066.3	2067.5	2067.5
7.5°	2036.3	2041.1	2038.7	2032.7	2032.7	2029.2	2030.4	2033.9	2037.5	2038.7	2038.7
10°	2030.4	2035.1	2028.0	2018.4	2014.8	2010.0	2011.2	2014.8	2022.0	2025.6	2025.6
12.5°	2032.7	2036.3	2029.2	2014.8	2011.2	2006.4	2006.4	2010.0	2019.6	2024.4	2025.6
15°	2039.9	2043.5	2032.7	2017.2	2013.6	2010.0	2008.8	2013.6	2024.4	2032.7	2033.9
17.5°	2053.1	2056.7	2039.9	2018.4	2013.6	2014.8	2013.6	2017.2	2033.9	2049.5	2049.5
20°	2065.1	2067.5	2044.7	2018.4	2013.6	2014.8	2013.6	2020.8	2042.3	2063.9	2065.1
22.5°	2068.7	2071.1	2049.5	2026.8	2023.2	2024.4	2023.2	2030.4	2050.7	2072.3	2072.3
25°	2069.9	2073.4	2056.7	2038.7	2044.7	2047.1	2044.7	2045.9	2061.5	2080.6	2079.4
27.5°	2087.8	2092.6	2077.0	2061.5	2065.1	2063.9	2067.5	2071.1	2083.0	2102.2	2097.4
30°	2124.9	2128.5	2115.3	2099.8	2097.4	2089.0	2099.8	2111.8	2124.9	2141.7	2138.1
32.5°	2186.0	2193.2	2176.4	2159.6	2148.9	2144.1	2152.5	2172.8	2190.8	2208.7	2201.5
35°	2287.7	2292.5	2277.0	2245.8	2226.7	2226.7	2233.9	2260.2	2288.9	2311.7	2303.3
37.5°	2431.4	2437.4	2409.8	2372.7	2344.0	2344.0	2353.6	2381.1	2424.2	2456.5	2444.6
40°	2606.2	2614.6	2579.8	2541.5	2514.0	2509.2	2521.2	2552.3	2593.0	2633.7	2620.5
42.5°	2816.9	2826.4	2781.0	2747.4	2725.9	2725.9	2731.9	2760.6	2797.7	2848.0	2844.4
45°	3086.2	3103.0	3040.7	3007.2	2986.9	2991.7	2995.2	3020.4	3053.9	3111.4	3109.0
47.5°	3407.1	3423.8	3358.0	3323.3	3319.7	3342.4	3328.1	3346.0	3364.0	3429.8	3410.7
50°	3771.0	3799.7	3754.2	3751.8	3759.0	3800.9	3767.4	3777.0	3756.6	3798.5	3773.4
52.5°	4216.3	4258.2	4249.8	4264.2	4344.4	4430.6	4354.0	4320.5	4243.9	4257.0	4212.7
55°	4756.2	4819.7	4831.7	4917.9	5099.8	5275.8	5113.0	4977.7	4814.9	4785.0	4738.3
57.5°	5370.4	5420.7	5478.1	5654.1	5994.1	6306.5	5994.1	5694.8	5438.6	5377.6	5334.5
60°	6031.2	6093.4	6148.5	6408.3	6913.5	7352.8	6903.9	6428.6	6089.9	6007.3	5935.4
62.5°	6741.1	6821.3	6859.6	7148.1	7737.1	8261.5	7745.5	7169.7	6793.8	6705.2	6633.4
65°	7422.3	7488.1	7531.2	7838.9	8401.5	8927.1	8439.8	7872.4	7485.7	7369.6	7312.1
67.5°	7739.5	7775.4	7880.8	8229.1	8822.9	9422.7	8923.5	8266.3	7834.1	7630.6	7633.0
70°	7275.0	7202.0	7455.8	8013.7	8873.2	9726.8	8988.1	7996.9	7467.8	7137.4	7216.4
72.5°	5621.8	5496.1	5936.6	6890.7	8298.6	9532.8	8356.0	6944.6	6210.8	5540.4	5706.8
75°	3058.7	2916.2	3524.4	4731.1	6617.8	8262.7	6769.8	4866.4	3924.2	3035.9	3233.5
77.5°	863.1	809.3	1300.1	2288.9	3980.5	5801.3	4133.7	2339.2	1541.9	914.6	1016.4
80°	264.6	256.2	347.2	689.6	1690.4	2778.6	1624.5	697.9	441.7	278.9	294.5
82.5°	156.8	143.7	172.4	251.4	431.0	872.7	419.0	262.2	210.7	141.3	153.2
85°	89.8	83.8	101.8	122.1	144.9	185.6	120.9	124.5	112.5	75.4	79.0
87.5°	37.1	33.5	39.5	38.3	33.5	43.1	32.3	38.3	45.5	29.9	27.5
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)