

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: P884262

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884262
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-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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22664 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

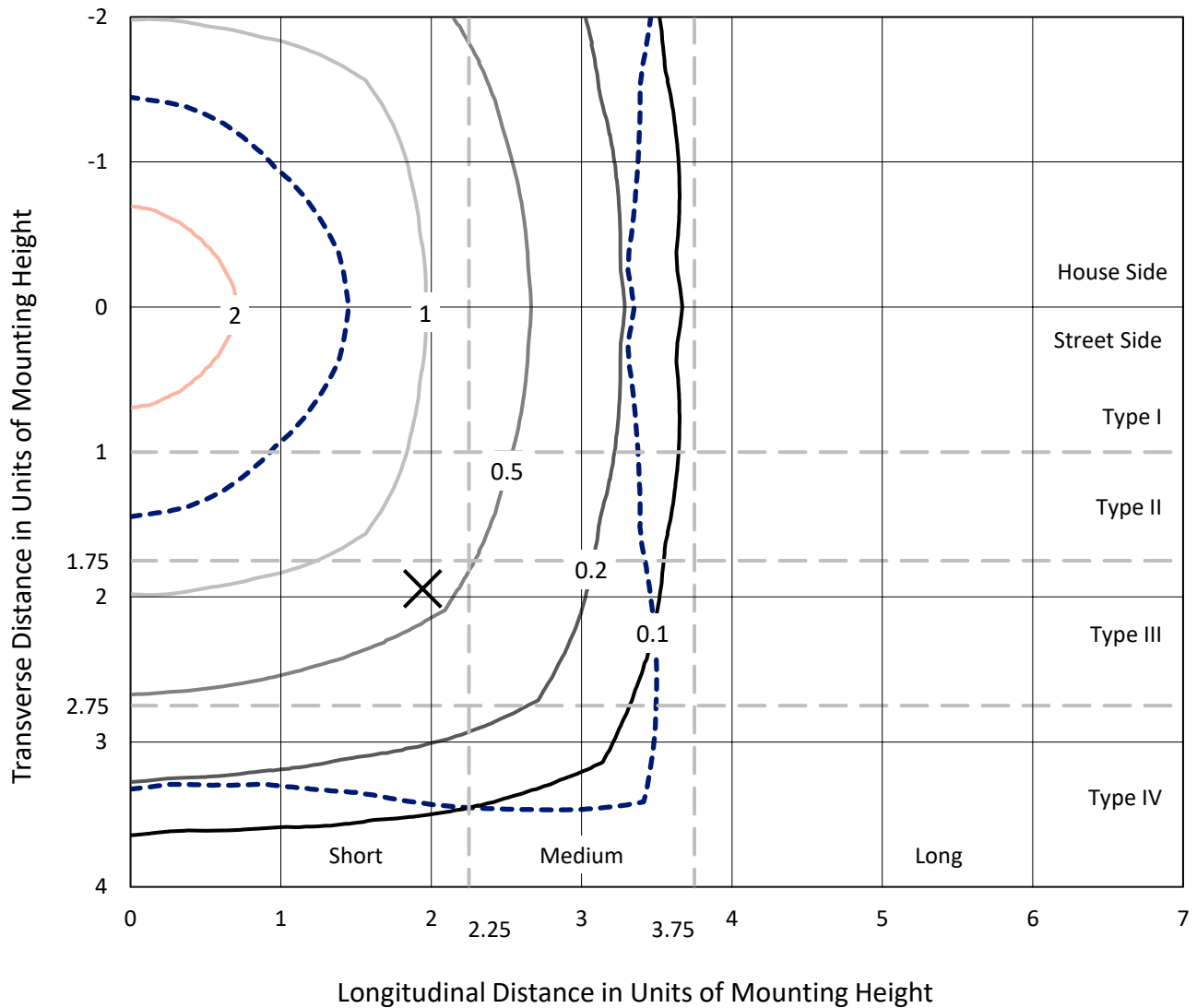
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

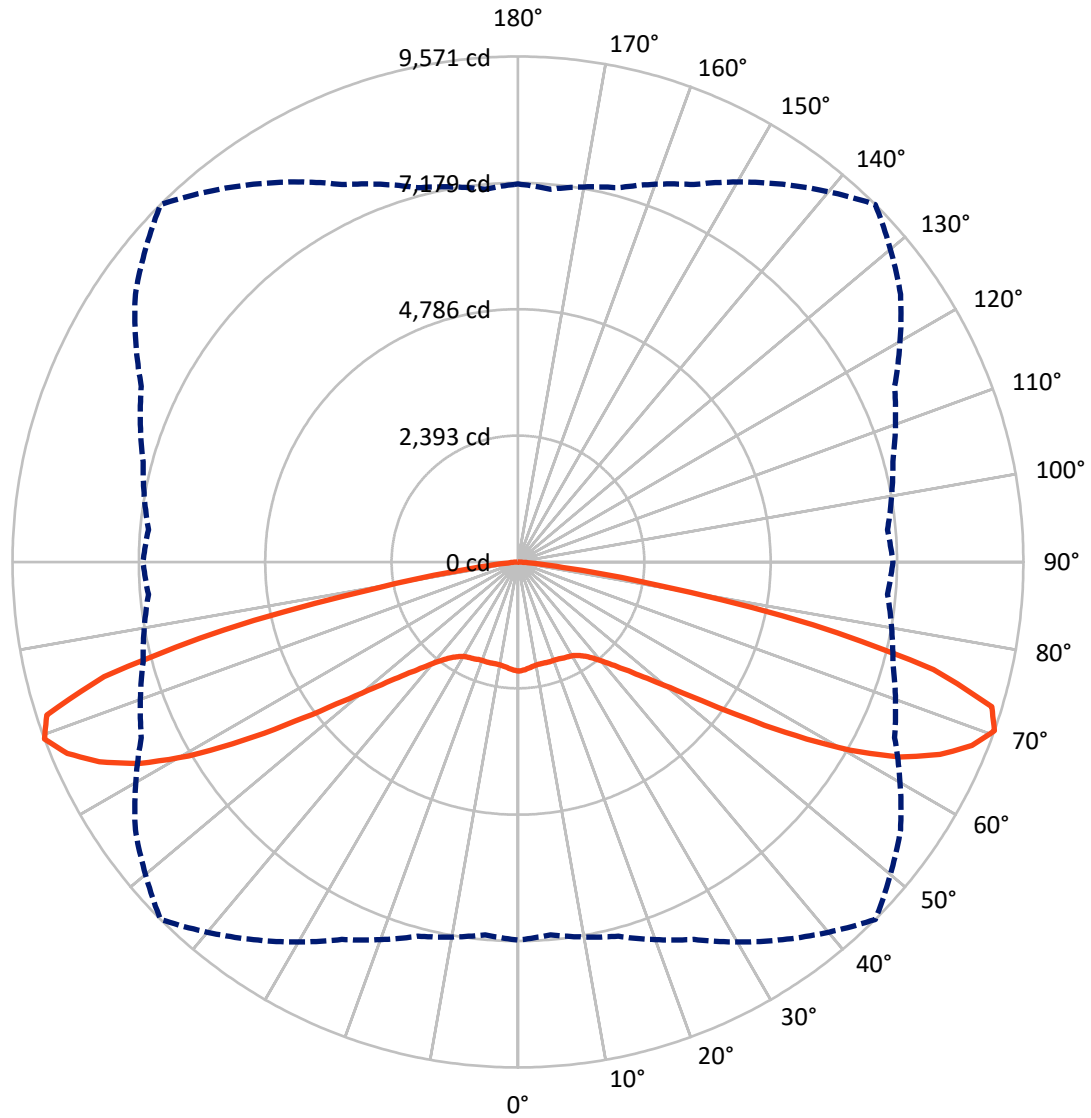
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	11332.0	0.0	11332.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11332.0	0.0	11332.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22664.0	0.0	22664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	0.8
10°-20°	564.7	2.5
20°-30°	939.7	4.1
30°-40°	1421.2	6.3
40°-50°	2361.6	10.4
50°-60°	4456.3	19.7
60°-70°	7524.7	33.2
70°-80°	4944.5	21.8
80°-90°	259.0	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°	22664.0	100.0
0°-180°	22664.0	100.0

Coefficient of Utilization



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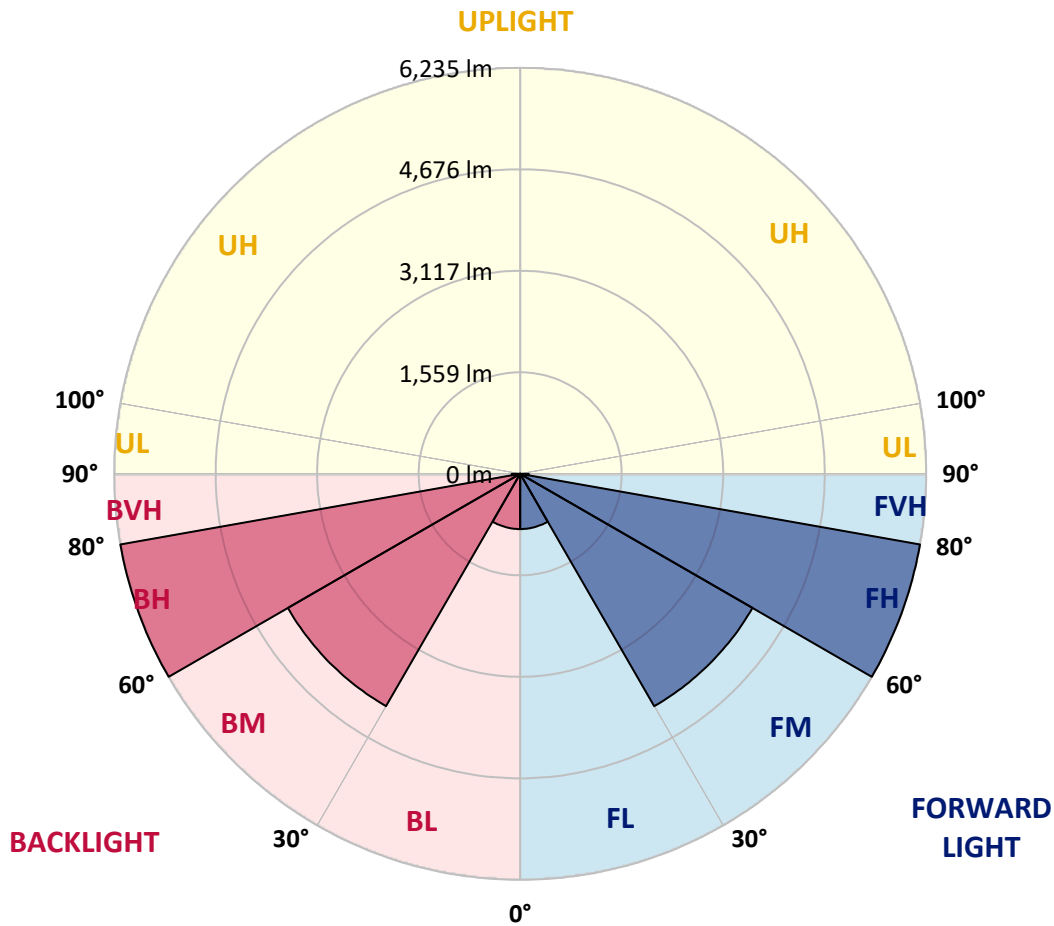
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.4	3.7			
FM (30°-60°)	4119.5	18.2			
FH (60°-80°)	6234.6	27.5			G3/7500
FVH (80°-90°)	129.5	0.6			G2/225
BL (0°-30°)	848.4	3.7	B2/1000		
BM (30°-60°)	4119.5	18.2	B3/5000		
BH (60°-80°)	6234.6	27.5	B5		G3/7500
BVH (80°-90°)	129.5	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°	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4
2.5°	2054.5	2060.3	2058.0	2053.3	2053.3	2049.7	2053.3	2055.6	2059.2	2061.5	2060.3
5°	2027.4	2032.1	2030.9	2027.4	2028.5	2025.0	2027.4	2030.9	2033.3	2034.4	2034.4
7.5°	2003.8	2008.5	2006.2	2000.3	2000.3	1996.7	1997.9	2001.4	2005.0	2006.2	2006.2
10°	1997.9	2002.6	1995.6	1986.1	1982.6	1977.9	1979.1	1982.6	1989.7	1993.2	1993.2
12.5°	2000.3	2003.8	1996.7	1982.6	1979.1	1974.4	1974.4	1977.9	1987.3	1992.0	1993.2
15°	2007.3	2010.9	2000.3	1985.0	1981.4	1977.9	1976.7	1981.4	1992.0	2000.3	2001.4
17.5°	2020.3	2023.8	2007.3	1986.1	1981.4	1982.6	1981.4	1985.0	2001.4	2016.8	2016.8
20°	2032.1	2034.4	2012.0	1986.1	1981.4	1982.6	1981.4	1988.5	2009.7	2030.9	2032.1
22.5°	2035.6	2038.0	2016.8	1994.4	1990.8	1992.0	1990.8	1997.9	2017.9	2039.1	2039.1
25°	2036.8	2040.3	2023.8	2006.2	2012.0	2014.4	2012.0	2013.2	2028.5	2047.4	2046.2
27.5°	2054.5	2059.2	2043.9	2028.5	2032.1	2030.9	2034.4	2038.0	2049.7	2068.6	2063.9
30°	2091.0	2094.5	2081.5	2066.2	2063.9	2055.6	2066.2	2078.0	2091.0	2107.5	2103.9
32.5°	2151.1	2158.1	2141.6	2125.1	2114.5	2109.8	2118.1	2138.1	2155.8	2173.4	2166.4
35°	2251.2	2255.9	2240.6	2210.0	2191.1	2191.1	2198.2	2224.1	2252.4	2274.7	2266.5
37.5°	2392.5	2398.4	2371.3	2334.8	2306.5	2306.5	2316.0	2343.1	2385.5	2417.3	2405.5
40°	2564.5	2572.8	2538.6	2500.9	2473.8	2469.1	2480.9	2511.5	2551.6	2591.6	2578.7
42.5°	2771.9	2781.3	2736.5	2703.5	2682.3	2682.3	2688.2	2716.5	2753.0	2802.5	2799.0
45°	3036.9	3053.4	2992.2	2959.2	2939.1	2943.9	2947.4	2972.1	3005.1	3061.7	3059.3
47.5°	3352.6	3369.1	3304.3	3270.2	3266.6	3289.0	3274.9	3292.5	3310.2	3375.0	3356.2
50°	3710.7	3739.0	3694.2	3691.9	3699.0	3740.2	3707.2	3716.6	3696.6	3737.8	3713.1
52.5°	4149.0	4190.2	4181.9	4196.1	4275.0	4359.8	4284.4	4251.4	4176.1	4189.0	4145.4
55°	4680.2	4742.7	4754.5	4839.3	5018.3	5191.5	5031.3	4898.2	4738.0	4708.5	4662.6
57.5°	5284.6	5334.0	5390.6	5563.8	5898.3	6205.8	5898.3	5603.8	5351.7	5291.6	5249.2
60°	5934.8	5996.1	6050.3	6305.9	6803.0	7235.4	6793.6	6325.9	5992.6	5911.3	5840.6
62.5°	6633.4	6712.3	6750.0	7033.9	7613.5	8129.5	7621.7	7055.1	6685.2	6598.1	6527.4
65°	7303.7	7368.5	7410.9	7713.6	8267.3	8784.4	8305.0	7746.6	7366.1	7251.8	7195.3
67.5°	7615.9	7651.2	7754.9	8097.7	8682.0	9272.1	8780.9	8134.2	7708.9	7508.7	7511.0
70°	7158.8	7086.9	7336.7	7885.6	8731.4	9571.4	8844.5	7869.1	7348.4	7023.3	7101.1
72.5°	5531.9	5408.3	5841.8	6780.6	8166.0	9380.5	8222.5	6833.7	6111.5	5451.8	5615.6
75°	3009.8	2869.6	3468.1	4655.5	6512.1	8130.6	6661.7	4788.6	3861.5	2987.4	3181.8
77.5°	849.3	796.3	1279.3	2252.4	3916.9	5708.7	4067.7	2301.8	1517.3	900.0	1000.1
80°	260.3	252.1	341.6	678.5	1663.4	2734.2	1598.6	686.8	434.7	274.5	289.8
82.5°	154.3	141.4	169.6	247.4	424.1	858.8	412.3	258.0	207.3	139.0	150.8
85°	88.4	82.5	100.1	120.2	142.5	182.6	119.0	122.5	110.7	74.2	77.7
87.5°	36.5	33.0	38.9	37.7	33.0	42.4	31.8	37.7	44.8	29.5	27.1
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)