

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: P883752

Luminaire Tested: **NAV-SB4B-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883752
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-SB4B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 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: 22723 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

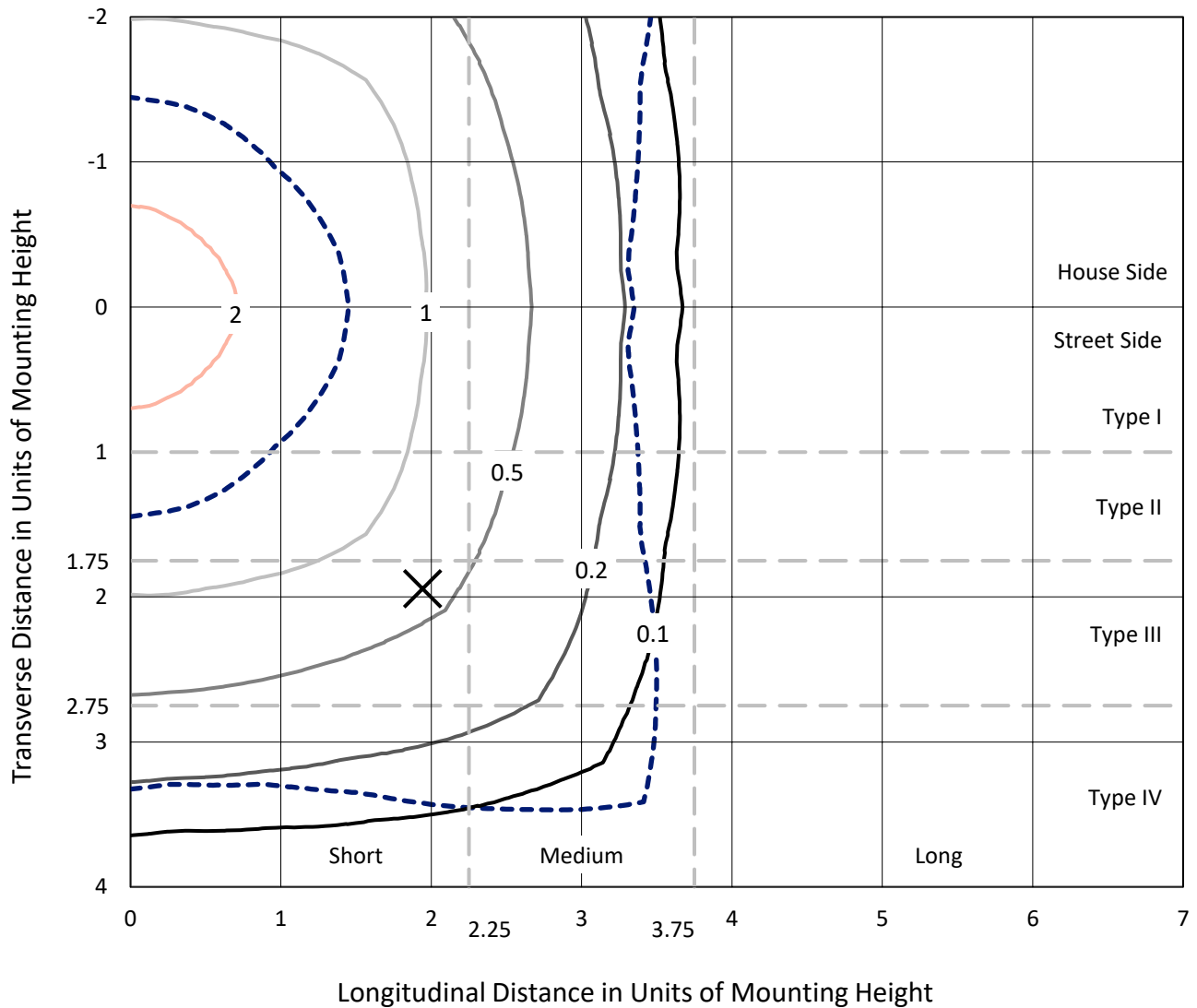
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

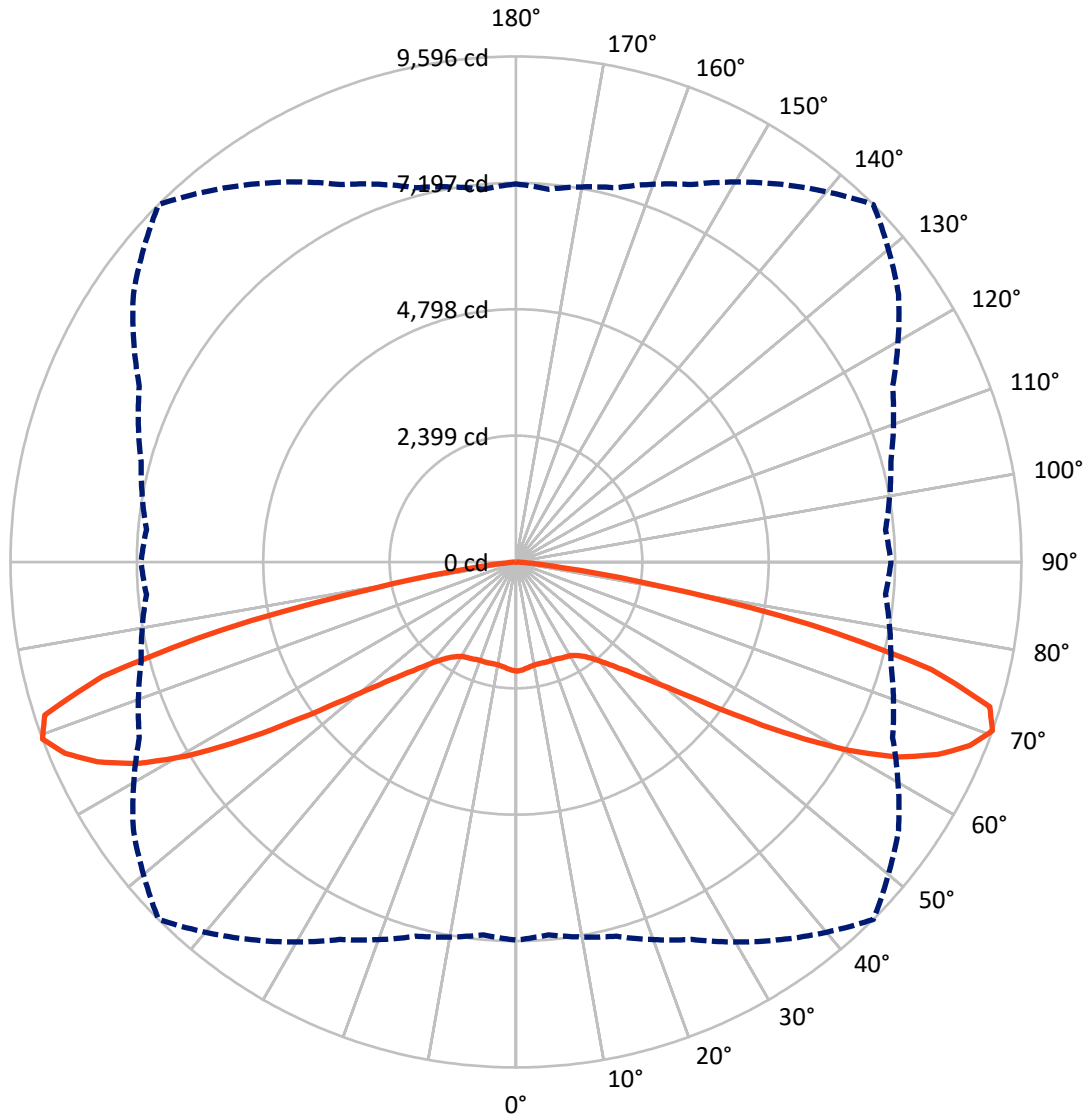
✕ Max cd
 - - - 1/2 Max cd



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	11361.5	0.0	11361.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11361.5	0.0	11361.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22723.0	0.0	22723.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	0.8
10°-20°	566.2	2.5
20°-30°	942.2	4.1
30°-40°	1424.9	6.3
40°-50°	2367.8	10.4
50°-60°	4467.9	19.7
60°-70°	7544.2	33.2
70°-80°	4957.3	21.8
80°-90°	259.7	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°	22723.0	100.0
0°-180°	22723.0	100.0



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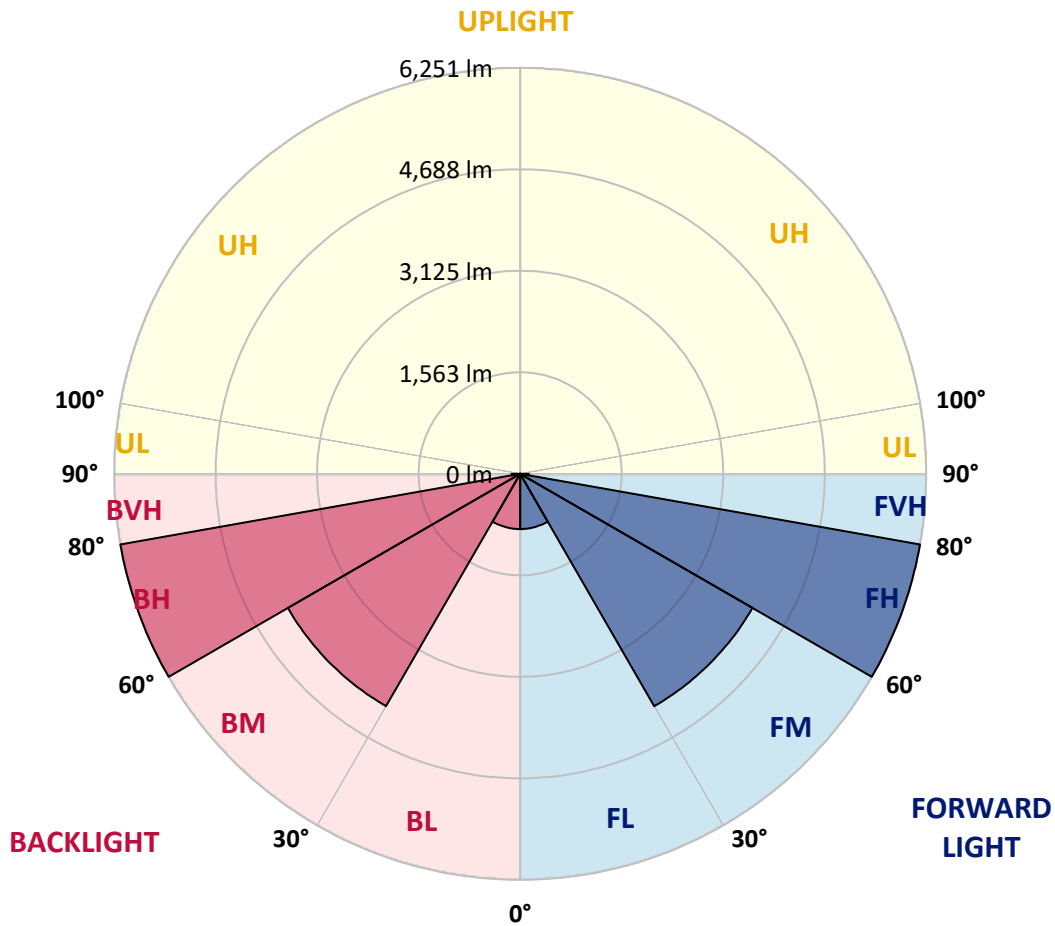
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.6	3.7			
FM (30°-60°)	4130.3	18.2			
FH (60°-80°)	6250.8	27.5			G3/7500
FVH (80°-90°)	129.9	0.6			G2/225
BL (0°-30°)	850.6	3.7	B2/1000		
BM (30°-60°)	4130.3	18.2	B3/5000		
BH (60°-80°)	6250.8	27.5	B5		G3/7500
BVH (80°-90°)	129.9	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°	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8
2.5°	2059.8	2065.7	2063.3	2058.6	2058.6	2055.1	2058.6	2061.0	2064.5	2066.9	2065.7
5°	2032.6	2037.4	2036.2	2032.6	2033.8	2030.3	2032.6	2036.2	2038.5	2039.7	2039.7
7.5°	2009.0	2013.7	2011.4	2005.5	2005.5	2001.9	2003.1	2006.7	2010.2	2011.4	2011.4
10°	2003.1	2007.8	2000.7	1991.3	1987.8	1983.0	1984.2	1987.8	1994.8	1998.4	1998.4
12.5°	2005.5	2009.0	2001.9	1987.8	1984.2	1979.5	1979.5	1983.0	1992.5	1997.2	1998.4
15°	2012.6	2016.1	2005.5	1990.1	1986.6	1983.0	1981.9	1986.6	1997.2	2005.5	2006.7
17.5°	2025.6	2029.1	2012.6	1991.3	1986.6	1987.8	1986.6	1990.1	2006.7	2022.0	2022.0
20°	2037.4	2039.7	2017.3	1991.3	1986.6	1987.8	1986.6	1993.7	2014.9	2036.2	2037.4
22.5°	2040.9	2043.3	2022.0	1999.6	1996.0	1997.2	1996.0	2003.1	2023.2	2044.4	2044.4
25°	2042.1	2045.6	2029.1	2011.4	2017.3	2019.6	2017.3	2018.5	2033.8	2052.7	2051.5
27.5°	2059.8	2064.5	2049.2	2033.8	2037.4	2036.2	2039.7	2043.3	2055.1	2074.0	2069.3
30°	2096.4	2100.0	2087.0	2071.6	2069.3	2061.0	2071.6	2083.4	2096.4	2113.0	2109.4
32.5°	2156.7	2163.7	2147.2	2130.7	2120.0	2115.3	2123.6	2143.7	2161.4	2179.1	2172.0
35°	2257.0	2261.8	2246.4	2215.7	2196.8	2196.8	2203.9	2229.9	2258.2	2280.7	2272.4
37.5°	2398.8	2404.7	2377.5	2340.9	2312.6	2312.6	2322.0	2349.2	2391.7	2423.6	2411.8
40°	2571.2	2579.5	2545.2	2507.4	2480.3	2475.5	2487.4	2518.1	2558.2	2598.4	2585.4
42.5°	2779.1	2788.5	2743.6	2710.6	2689.3	2689.3	2695.2	2723.6	2760.2	2809.8	2806.2
45°	3044.8	3061.4	2999.9	2966.9	2946.8	2951.5	2955.1	2979.9	3012.9	3069.6	3067.3
47.5°	3361.4	3377.9	3312.9	3278.7	3275.1	3297.6	3283.4	3301.1	3318.8	3383.8	3364.9
50°	3720.4	3748.7	3703.9	3701.5	3708.6	3749.9	3716.9	3726.3	3706.2	3747.6	3722.8
52.5°	4159.8	4201.1	4192.8	4207.0	4286.1	4371.2	4295.6	4262.5	4186.9	4199.9	4156.2
55°	4692.4	4755.0	4766.8	4851.9	5031.4	5205.0	5044.4	4910.9	4750.3	4720.8	4674.7
57.5°	5298.3	5347.9	5404.6	5578.2	5913.7	6221.9	5913.7	5618.4	5365.6	5305.4	5262.9
60°	5950.3	6011.7	6066.0	6322.3	6820.7	7254.2	6811.3	6342.4	6008.2	5926.7	5855.8
62.5°	6650.7	6729.8	6767.6	7052.2	7633.3	8150.6	7641.6	7073.5	6702.6	6615.2	6544.4
65°	7322.7	7387.7	7430.2	7733.7	8288.8	8807.3	8326.6	7766.8	7385.3	7270.7	7214.0
67.5°	7635.7	7671.1	7775.0	8118.7	8704.6	9296.3	8803.8	8155.4	7729.0	7528.2	7530.6
70°	7177.4	7105.4	7355.8	7906.1	8754.2	9596.3	8867.5	7889.6	7367.6	7041.6	7119.5
72.5°	5546.4	5422.3	5857.0	6798.3	8187.2	9404.9	8243.9	6851.4	6127.4	5466.0	5630.2
75°	3017.7	2877.1	3477.1	4667.6	6529.0	8151.8	6679.0	4801.1	3871.6	2995.2	3190.1
77.5°	851.6	798.4	1282.7	2258.2	3927.1	5723.5	4078.3	2307.8	1521.2	902.3	1002.7
80°	261.0	252.8	342.5	680.3	1667.7	2741.3	1602.7	688.6	435.8	275.2	290.5
82.5°	154.7	141.7	170.1	248.0	425.2	861.0	413.4	258.7	207.9	139.4	151.2
85°	88.6	82.7	100.4	120.5	142.9	183.1	119.3	122.8	111.0	74.4	78.0
87.5°	36.6	33.1	39.0	37.8	33.1	42.5	31.9	37.8	44.9	29.5	27.2
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)