

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: P882772

Luminaire Tested: **NAV-SB2D-760-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882772
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-SB2D-760-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22617 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

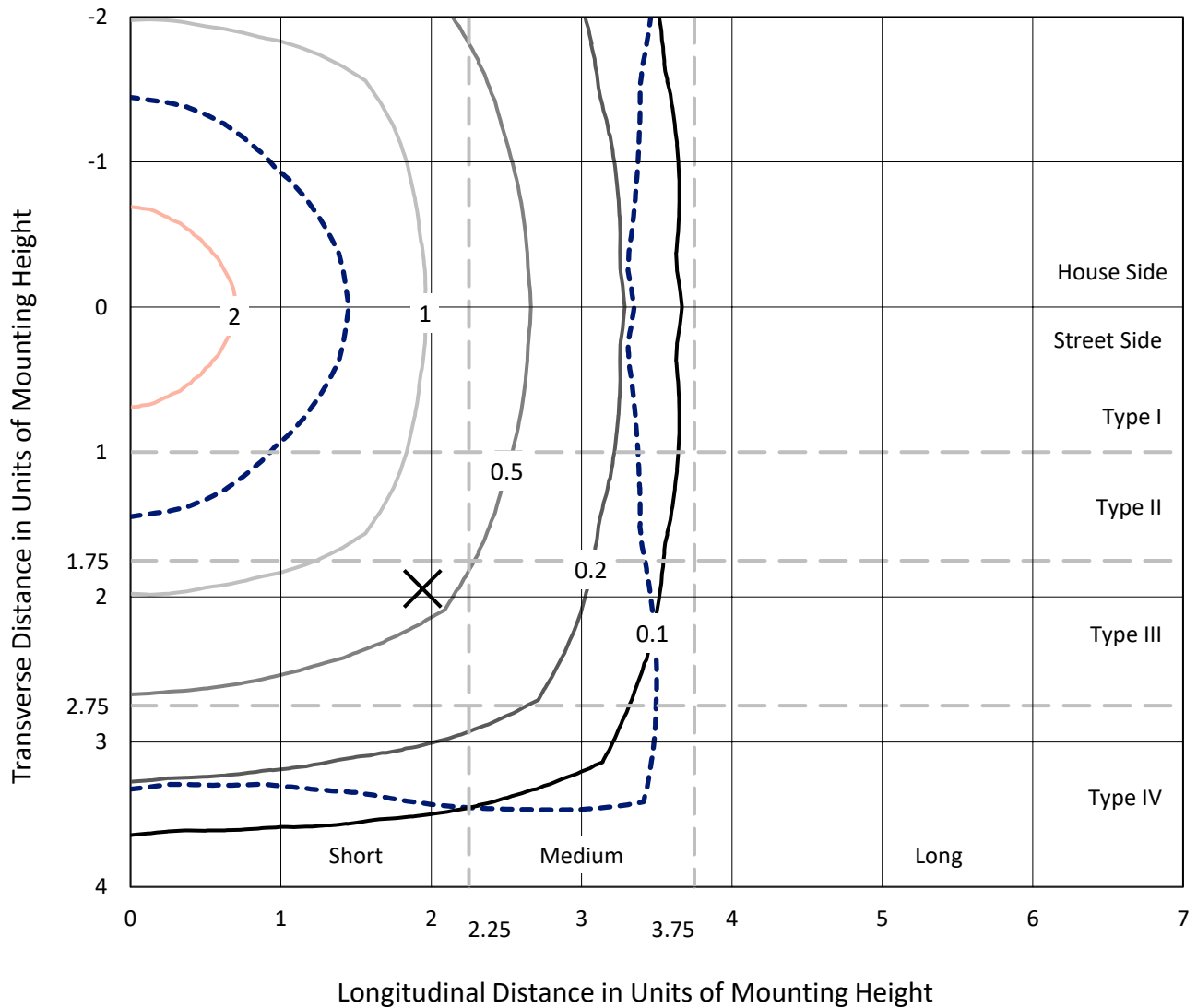
Input Watts (W): 147.6
Input Voltage (V): 120.0
Input Current (Ain): 1.234
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

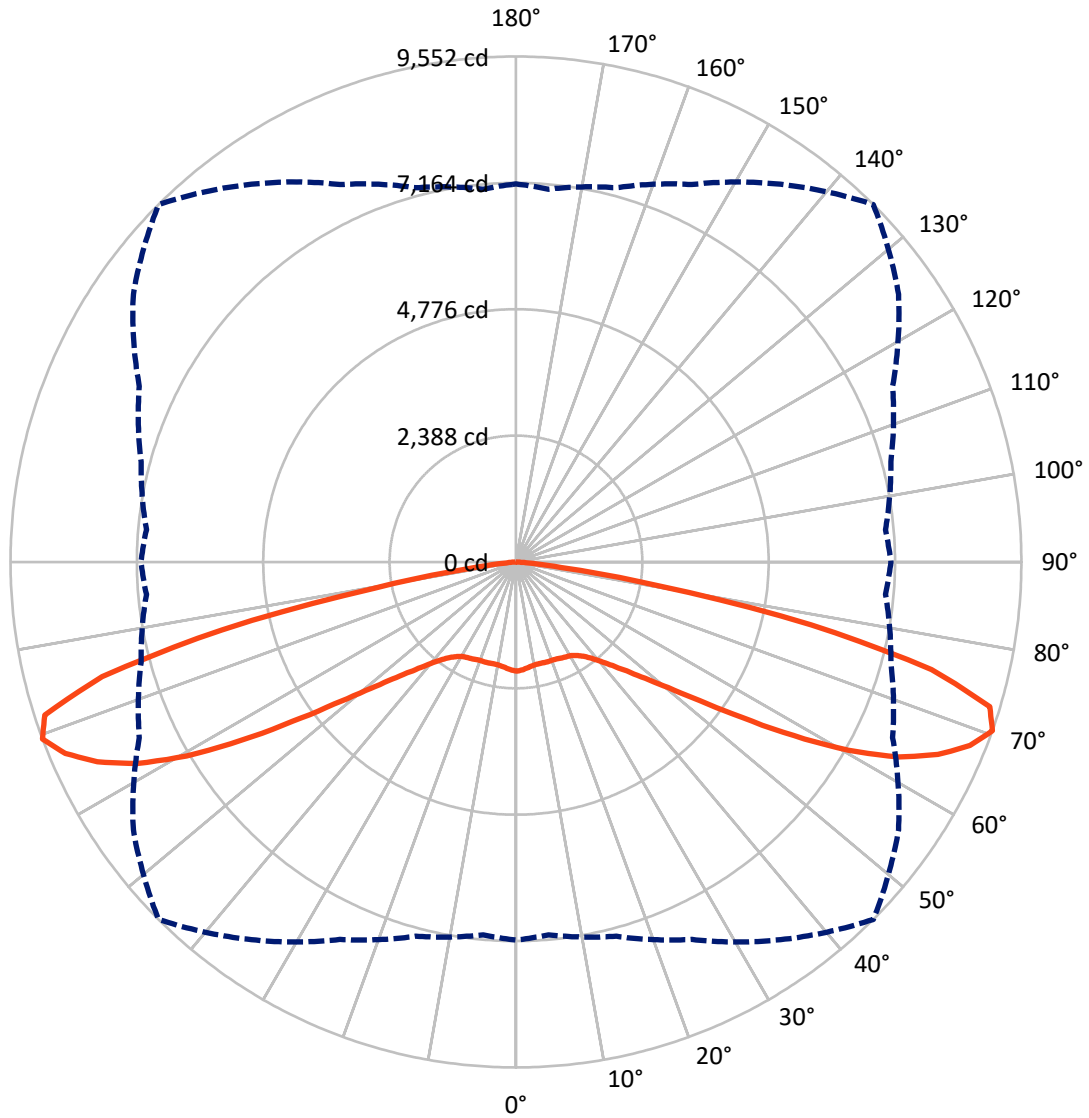
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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CATALOG NUMBER: NAV-SB2D-760-U-5WQ

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	11308.5	0.0	11308.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11308.5	0.0	11308.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22617.0	0.0	22617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	0.8
10°-20°	563.5	2.5
20°-30°	937.8	4.1
30°-40°	1418.2	6.3
40°-50°	2356.7	10.4
50°-60°	4447.1	19.7
60°-70°	7509.0	33.2
70°-80°	4934.2	21.8
80°-90°	258.5	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°	22617.0	100.0
0°-180°	22617.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882772

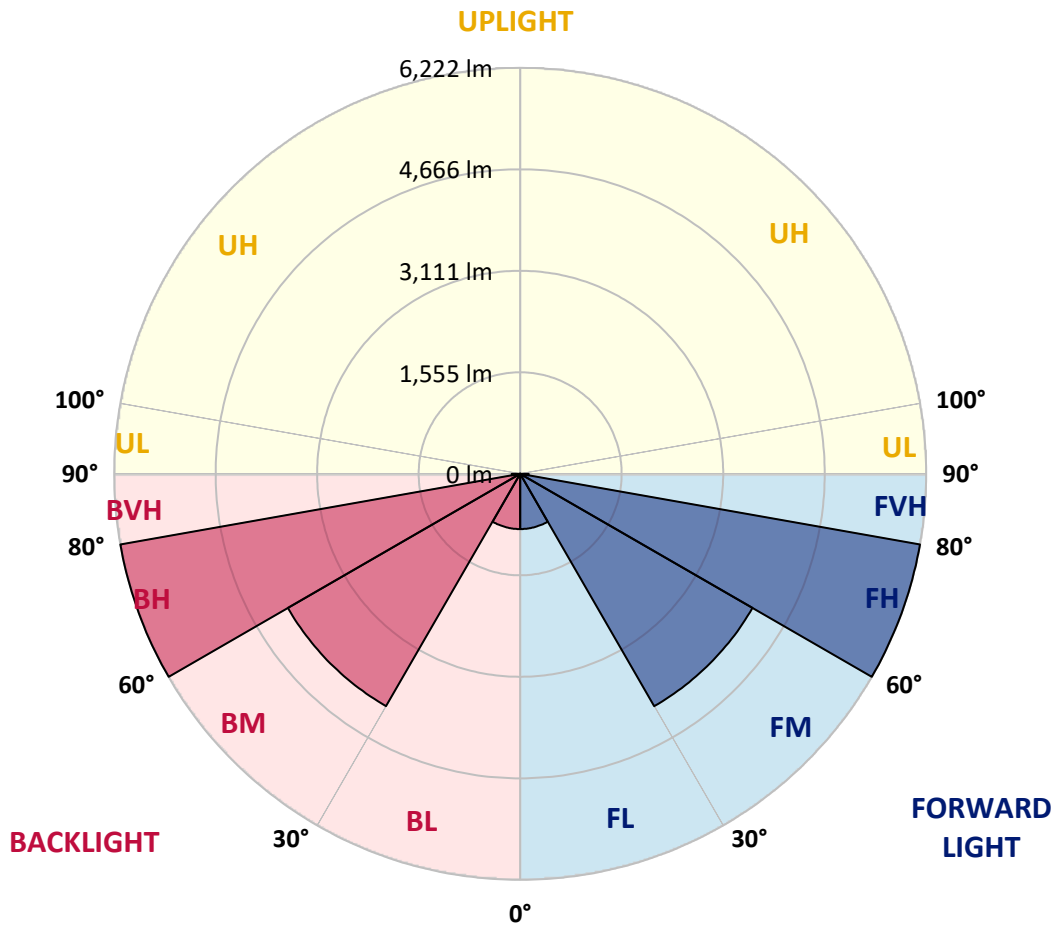
CATALOG NUMBER: NAV-SB2D-760-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.6	3.7			
FM (30°-60°)	4111.0	18.2			
FH (60°-80°)	6221.6	27.5			G3/7500
FVH (80°-90°)	129.2	0.6			G2/225
BL (0°-30°)	846.6	3.7	B2/1000		
BM (30°-60°)	4111.0	18.2	B3/5000		
BH (60°-80°)	6221.6	27.5	B5		G3/7500
BVH (80°-90°)	129.2	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



REPORT NUMBER: P882772

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2063.1	2063.1	2063.1	2063.1	2063.1	2063.1	2063.1	2063.1	2063.1	2063.1	2063.1
2.5°	2050.2	2056.1	2053.7	2049.0	2049.0	2045.5	2049.0	2051.4	2054.9	2057.2	2056.1
5°	2023.2	2027.9	2026.7	2023.2	2024.3	2020.8	2023.2	2026.7	2029.0	2030.2	2030.2
7.5°	1999.6	2004.3	2002.0	1996.1	1996.1	1992.6	1993.8	1997.3	2000.8	2002.0	2002.0
10°	1993.8	1998.5	1991.4	1982.0	1978.5	1973.8	1975.0	1978.5	1985.5	1989.1	1989.1
12.5°	1996.1	1999.6	1992.6	1978.5	1975.0	1970.3	1970.3	1973.8	1983.2	1987.9	1989.1
15°	2003.2	2006.7	1996.1	1980.8	1977.3	1973.8	1972.6	1977.3	1987.9	1996.1	1997.3
17.5°	2016.1	2019.6	2003.2	1982.0	1977.3	1978.5	1977.3	1980.8	1997.3	2012.6	2012.6
20°	2027.9	2030.2	2007.9	1982.0	1977.3	1978.5	1977.3	1984.4	2005.5	2026.7	2027.9
22.5°	2031.4	2033.7	2012.6	1990.2	1986.7	1987.9	1986.7	1993.8	2013.8	2034.9	2034.9
25°	2032.6	2036.1	2019.6	2002.0	2007.9	2010.2	2007.9	2009.0	2024.3	2043.1	2042.0
27.5°	2050.2	2054.9	2039.6	2024.3	2027.9	2026.7	2030.2	2033.7	2045.5	2064.3	2059.6
30°	2086.6	2090.2	2077.2	2062.0	2059.6	2051.4	2062.0	2073.7	2086.6	2103.1	2099.6
32.5°	2146.6	2153.6	2137.2	2120.7	2110.1	2105.4	2113.7	2133.7	2151.3	2168.9	2161.9
35°	2246.5	2251.2	2235.9	2205.4	2186.6	2186.6	2193.6	2219.5	2247.7	2270.0	2261.8
37.5°	2387.6	2393.5	2366.4	2330.0	2301.8	2301.8	2311.2	2338.2	2380.5	2412.3	2400.5
40°	2559.2	2567.4	2533.4	2495.7	2468.7	2464.0	2475.8	2506.3	2546.3	2586.3	2573.3
42.5°	2766.1	2775.5	2730.8	2697.9	2676.8	2676.8	2682.7	2710.9	2747.3	2796.7	2793.2
45°	3030.6	3047.1	2985.9	2953.0	2933.0	2937.8	2941.3	2966.0	2998.9	3055.3	3053.0
47.5°	3345.7	3362.1	3297.5	3263.4	3259.9	3282.2	3268.1	3285.7	3303.4	3368.0	3349.2
50°	3703.0	3731.3	3686.6	3684.2	3691.3	3732.4	3699.5	3708.9	3688.9	3730.1	3705.4
52.5°	4140.4	4181.5	4173.3	4187.4	4266.1	4350.8	4275.5	4242.6	4167.4	4180.3	4136.8
55°	4670.5	4732.8	4744.6	4829.2	5007.9	5180.7	5020.9	4888.0	4728.1	4698.8	4652.9
57.5°	5273.6	5323.0	5379.4	5552.2	5886.1	6192.9	5886.1	5592.2	5340.6	5280.7	5238.3
60°	5922.5	5983.7	6037.7	6292.8	6788.9	7220.4	6779.5	6312.8	5980.1	5899.0	5828.5
62.5°	6619.6	6698.4	6736.0	7019.3	7597.7	8112.6	7605.9	7040.5	6671.4	6584.4	6513.8
65°	7288.5	7353.2	7395.5	7697.6	8250.2	8766.2	8287.8	7730.5	7350.8	7236.8	7180.4
67.5°	7600.1	7635.3	7738.8	8080.9	8664.0	9252.9	8762.7	8117.3	7692.9	7493.1	7495.4
70°	7143.9	7072.2	7321.5	7869.3	8713.3	9551.5	8826.2	7852.8	7333.2	7008.7	7086.3
72.5°	5520.5	5397.0	5829.7	6766.6	8149.1	9361.1	8205.5	6819.5	6098.9	5440.5	5603.9
75°	3003.6	2863.7	3460.9	4645.9	6498.6	8113.8	6647.8	4778.7	3853.5	2981.2	3175.2
77.5°	847.6	794.7	1276.7	2247.7	3908.8	5696.8	4059.2	2297.1	1514.1	898.1	998.1
80°	259.8	251.6	340.9	677.1	1659.9	2728.5	1595.2	685.4	433.8	273.9	289.2
82.5°	154.0	141.1	169.3	246.9	423.2	857.0	411.4	257.4	206.9	138.7	150.5
85°	88.2	82.3	99.9	119.9	142.2	182.2	118.7	122.3	110.5	74.1	77.6
87.5°	36.4	32.9	38.8	37.6	32.9	42.3	31.7	37.6	44.7	29.4	27.0
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)