

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: P963002

Luminaire Tested: **NAV-SB2D-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963002
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-SB2D-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22322.5 lumens
Efficiency: N/A
Efficacy: 151.2 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): 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

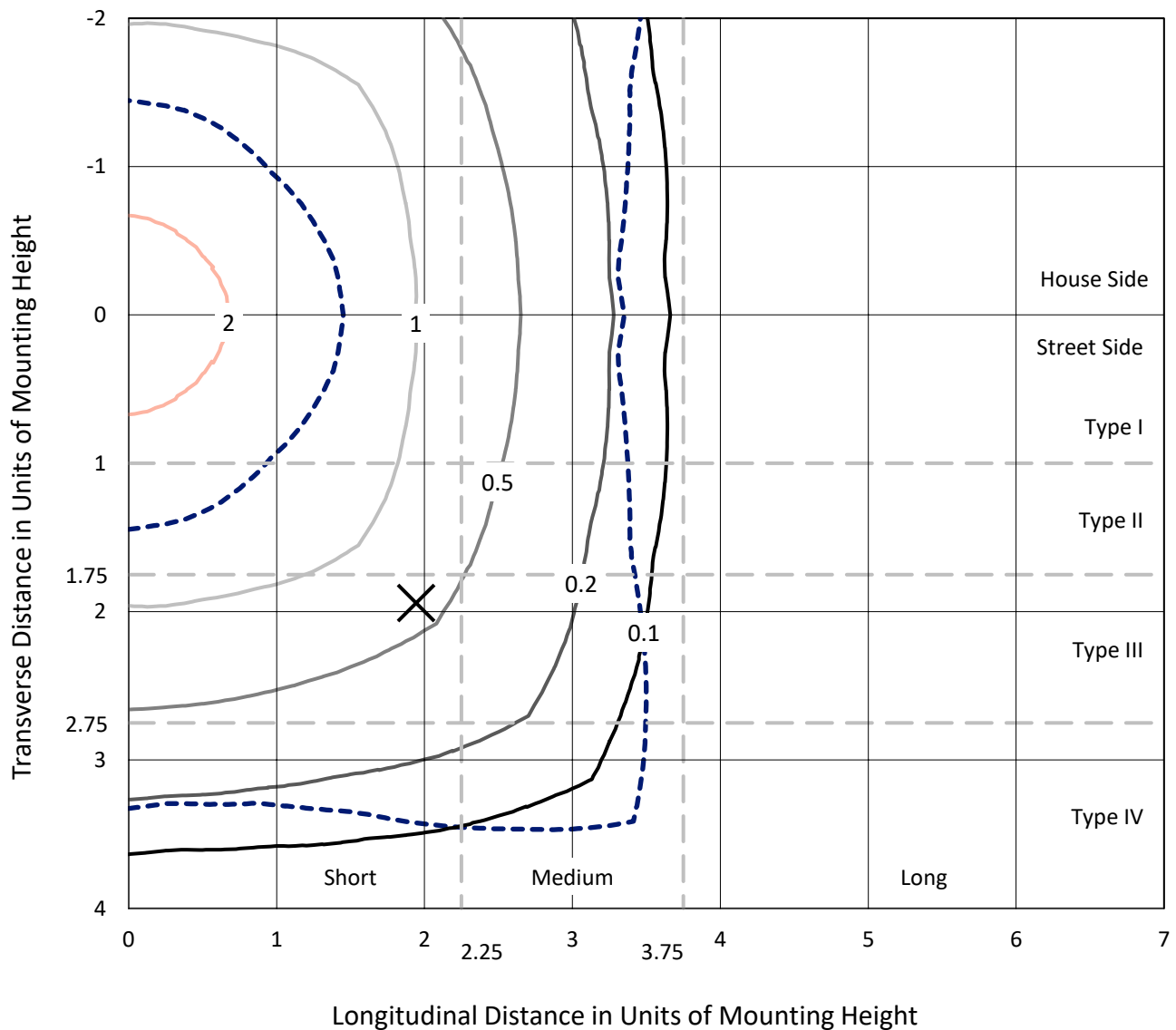


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Iso-Footcandle Lines of Horizontal Illumination

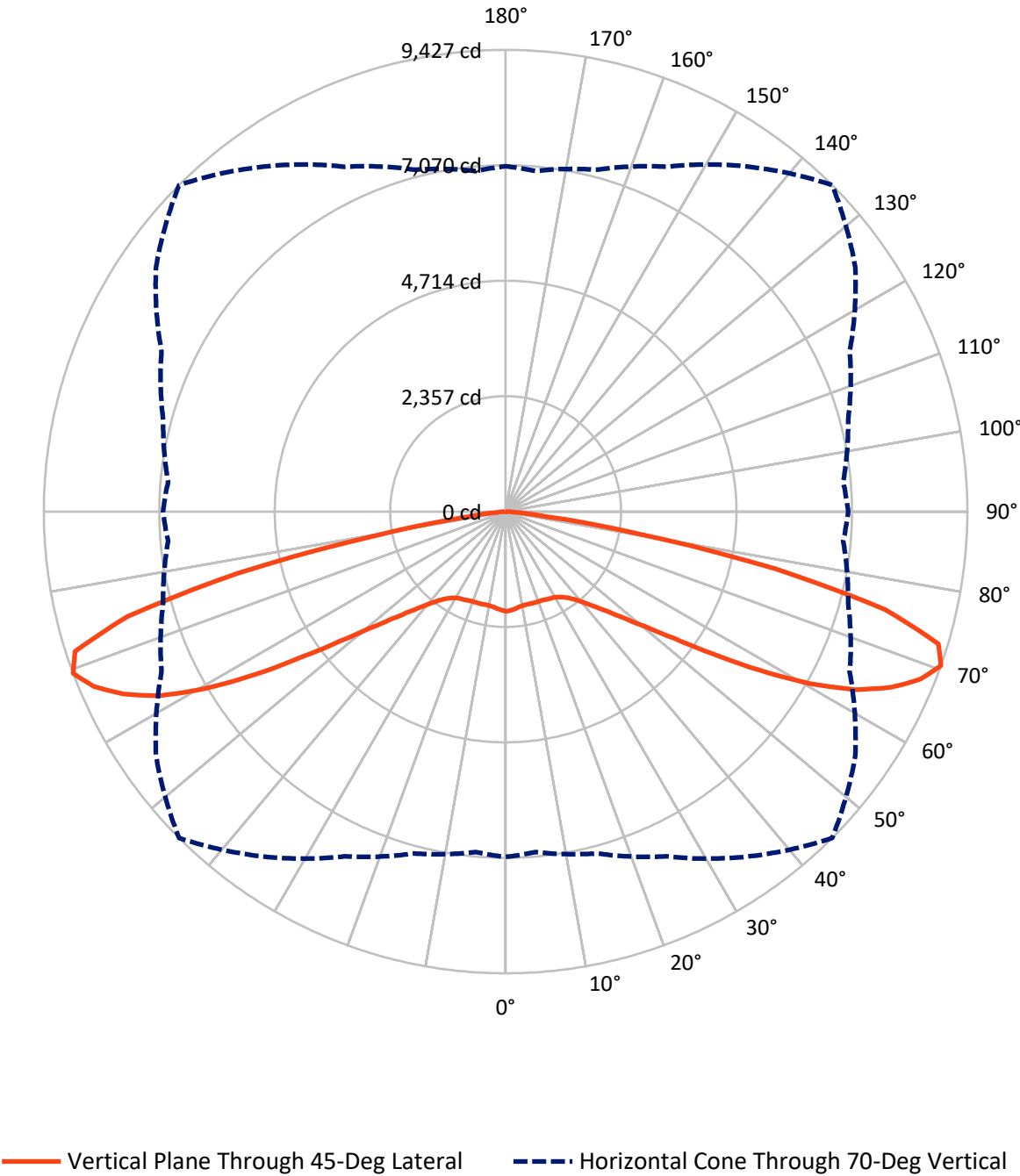
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11161.2	0.0	11161.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11161.2	0.0	11161.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	22322.5	0.0	22322.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	0.8
10°-20°	556.2	2.5
20°-30°	925.6	4.1
30°-40°	1399.7	6.3
40°-50°	2326.0	10.4
50°-60°	4389.2	19.7
60°-70°	7411.3	33.2
70°-80°	4870.0	21.8
80°-90°	255.1	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°	22322.5	100.0
0°-180°	22322.5	100.0

Coefficient of Utilization



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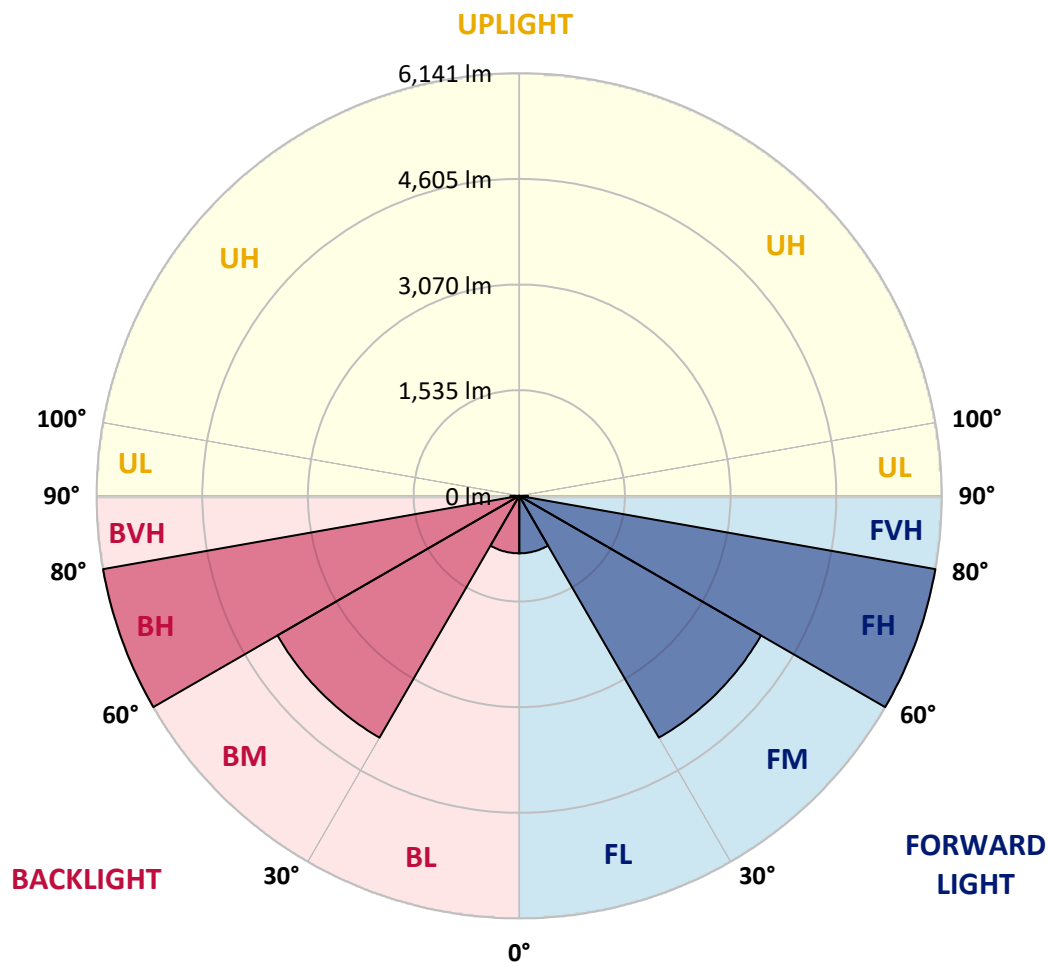
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.6	3.7			
FM	(30°-60°)	4057.5	18.2			
FH	(60°-80°)	6140.6	27.5			G3/7500
FVH	(80°-90°)	127.6	0.6			G2/225
BL	(0°-30°)	835.6	3.7	B2/1000		
BM	(30°-60°)	4057.5	18.2	B3/5000		
BH	(60°-80°)	6140.6	27.5	B5		G3/7500
BVH	(80°-90°)	127.6	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°	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3	2036.3
2.5°	2023.5	2029.3	2026.9	2022.3	2022.3	2018.8	2022.3	2024.7	2028.2	2030.4	2029.3
5°	1996.8	2001.4	2000.3	1996.8	1997.9	1994.4	1996.8	2000.3	2002.6	2003.8	2003.8
7.5°	1973.6	1978.2	1975.9	1970.2	1970.2	1966.7	1967.8	1971.3	1974.8	1975.9	1975.9
10°	1967.8	1972.4	1965.4	1956.2	1952.7	1948.1	1949.2	1952.7	1959.7	1963.2	1963.2
12.5°	1970.2	1973.6	1966.7	1952.7	1949.2	1944.6	1944.6	1948.1	1957.3	1962.0	1963.2
15°	1977.1	1980.6	1970.2	1955.1	1951.6	1948.1	1946.9	1951.6	1962.0	1970.2	1971.3
17.5°	1989.8	1993.3	1977.1	1956.2	1951.6	1952.7	1951.6	1955.1	1971.3	1986.3	1986.3
20°	2001.4	2003.8	1981.7	1956.2	1951.6	1952.7	1951.6	1958.6	1979.4	2000.3	2001.4
22.5°	2004.9	2007.3	1986.3	1964.3	1960.8	1962.0	1960.8	1967.8	1987.5	2008.4	2008.4
25°	2006.1	2009.6	1993.3	1975.9	1981.7	1984.1	1981.7	1982.9	1997.9	2016.5	2015.4
27.5°	2023.5	2028.2	2013.1	1997.9	2001.4	2000.3	2003.8	2007.3	2018.8	2037.4	2032.8
30°	2059.4	2062.9	2050.2	2035.1	2032.8	2024.7	2035.1	2046.7	2059.4	2075.7	2072.2
32.5°	2118.7	2125.6	2109.3	2093.2	2082.7	2078.0	2086.2	2105.9	2123.3	2140.7	2133.7
35°	2217.3	2221.9	2206.8	2176.7	2158.0	2158.0	2165.0	2190.5	2218.4	2240.4	2232.3
37.5°	2356.5	2362.3	2335.6	2299.6	2271.8	2271.8	2281.0	2307.8	2349.5	2380.9	2369.3
40°	2525.9	2534.0	2500.4	2463.3	2436.5	2431.9	2443.5	2473.6	2513.1	2552.6	2539.8
42.5°	2730.1	2739.4	2695.2	2662.8	2641.9	2641.9	2647.7	2675.6	2711.5	2760.2	2756.7
45°	2991.2	3007.4	2947.1	2914.6	2894.8	2899.5	2903.0	2927.3	2959.8	3015.5	3013.2
47.5°	3302.1	3318.3	3254.6	3220.9	3217.4	3239.4	3225.6	3242.9	3260.3	3324.2	3305.6
50°	3654.8	3682.6	3638.5	3636.3	3643.3	3683.8	3651.4	3660.6	3640.9	3681.5	3657.1
52.5°	4086.5	4127.1	4119.0	4132.8	4210.6	4294.1	4219.8	4187.3	4113.1	4125.9	4083.0
55°	4609.7	4671.2	4682.8	4766.4	4942.8	5113.3	4955.5	4824.4	4666.5	4637.5	4592.3
57.5°	5205.0	5253.6	5309.4	5480.0	5809.4	6112.3	5809.4	5519.3	5271.1	5211.9	5170.1
60°	5845.4	5905.7	5959.1	6210.9	6700.5	7126.3	6691.2	6230.6	5902.3	5822.2	5752.6
62.5°	6533.5	6611.1	6648.3	6927.9	7498.8	8007.0	7506.9	6948.8	6584.5	6498.6	6429.0
65°	7193.7	7257.4	7299.2	7597.4	8142.7	8652.0	8179.8	7629.9	7255.2	7142.6	7086.8
67.5°	7501.1	7535.9	7638.0	7975.6	8551.2	9132.4	8648.5	8011.6	7592.8	7395.5	7397.8
70°	7050.9	6980.1	7226.1	7766.7	8599.9	9427.1	8711.3	7750.5	7237.7	6917.5	6994.1
72.5°	5448.6	5326.7	5753.7	6678.5	8043.0	9239.1	8098.6	6730.7	6019.4	5369.7	5531.0
75°	2964.5	2826.4	3415.8	4585.3	6413.9	8008.1	6561.2	4716.4	3803.4	2942.5	3133.8
77.5°	836.5	784.3	1260.0	2218.4	3857.9	5622.6	4006.4	2267.2	1494.4	886.4	985.0
80°	256.5	248.3	336.5	668.3	1638.3	2693.0	1574.5	676.4	428.1	270.3	285.5
82.5°	152.0	139.2	167.1	243.6	417.7	845.8	406.1	254.1	204.2	136.9	148.5
85°	87.0	81.2	98.6	118.4	140.4	179.9	117.2	120.6	109.1	73.1	76.6
87.5°	36.0	32.5	38.3	37.1	32.5	41.8	31.4	37.1	44.1	29.0	26.6
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)