

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: P967619

Luminaire Tested: **NAV-SB5A-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20093.1 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

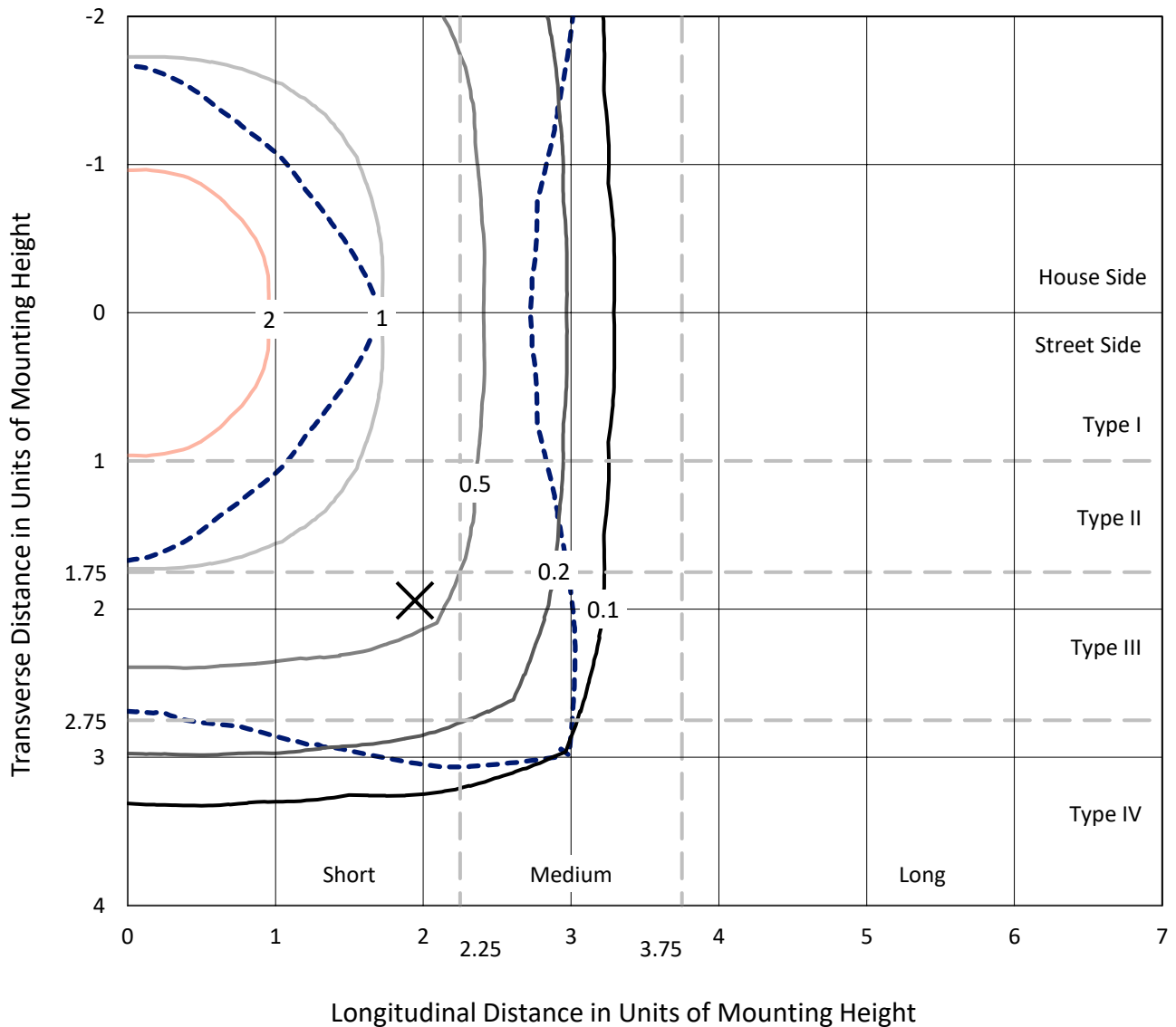
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

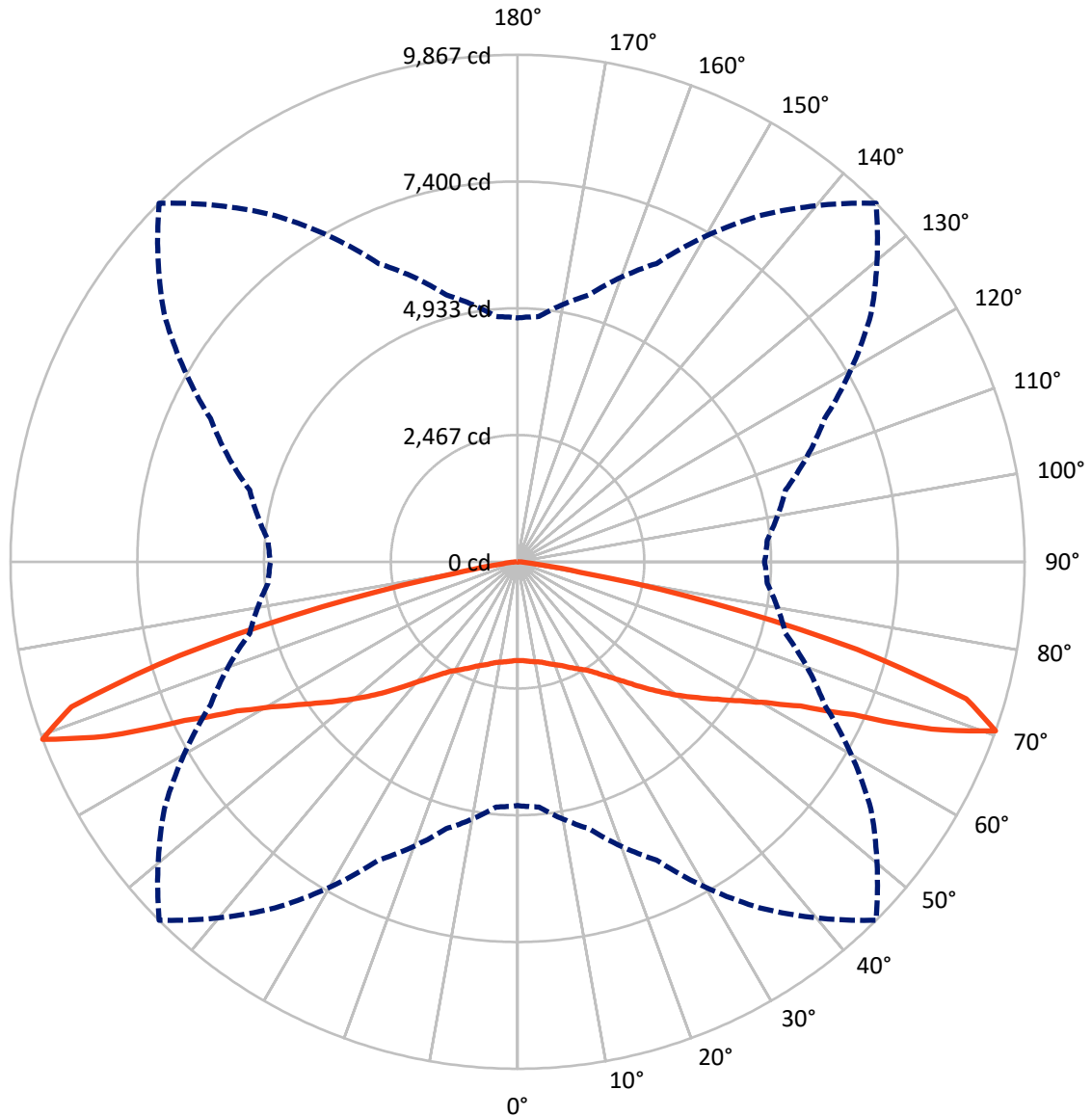
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	10046.5	0.0	10046.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10046.5	0.0	10046.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20093.1	0.0	20093.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	0.9
10°-20°	579.8	2.9
20°-30°	1036.2	5.2
30°-40°	1679.7	8.4
40°-50°	2735.9	13.6
50°-60°	4171.4	20.8
60°-70°	6205.7	30.9
70°-80°	3382.3	16.8
80°-90°	115.2	0.6
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°	20093.1	100.0
0°-180°	20093.1	100.0

Coefficient of Utilization



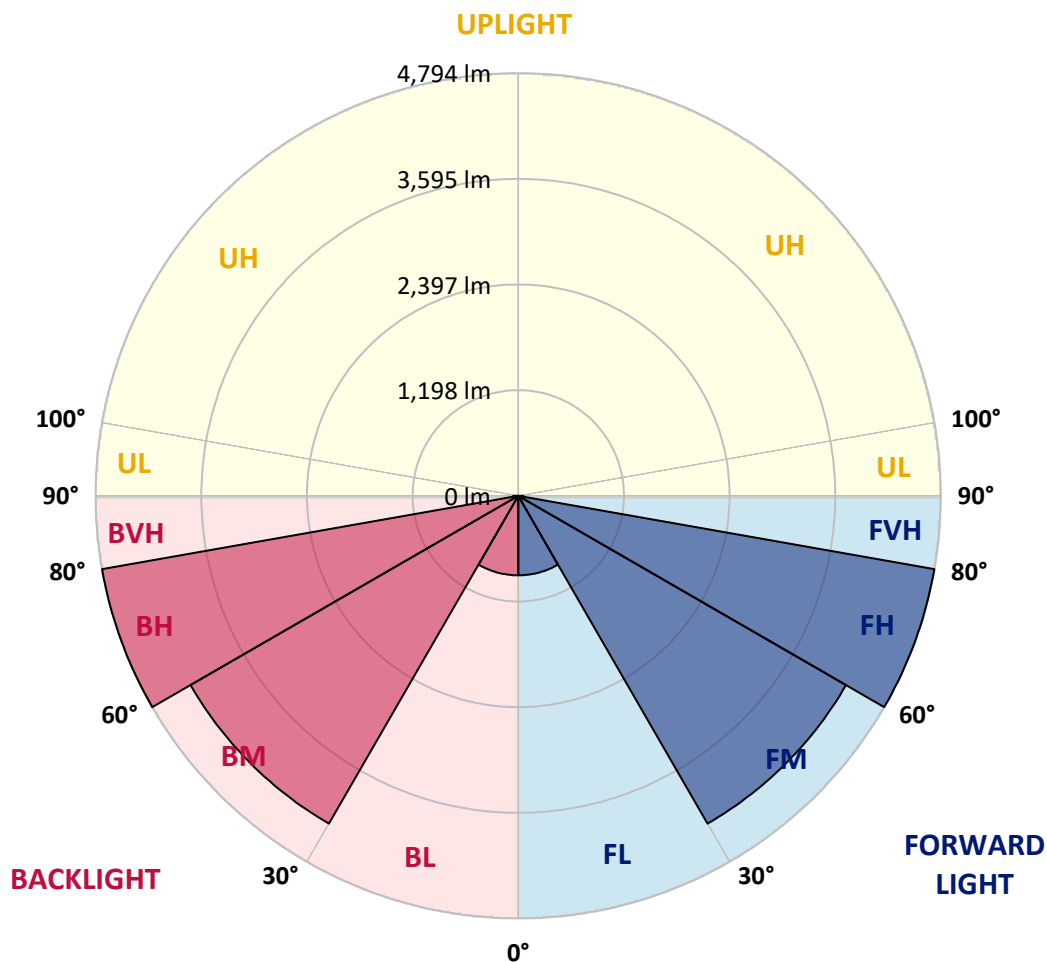
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.5	4.5			
FM (30°-60°)	4293.5	21.4			
FH (60°-80°)	4794.0	23.9			G2/5000
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	901.5	4.5	B2/1000		
BM (30°-60°)	4293.5	21.4	B3/5000		
BH (60°-80°)	4794.0	23.9	B4/5000		G2/5000
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7
2.5°	1933.8	1935.8	1931.8	1929.8	1927.7	1924.7	1925.7	1930.8	1934.8	1933.8	1934.8
5°	1950.0	1951.9	1948.9	1947.9	1943.9	1942.9	1942.9	1947.9	1951.0	1948.9	1950.0
7.5°	1968.1	1971.1	1966.1	1965.0	1963.1	1961.0	1960.0	1965.0	1968.1	1968.1	1968.1
10°	1985.2	1988.3	1984.2	1981.2	1979.2	1979.2	1977.1	1981.2	1986.2	1985.2	1985.2
12.5°	2003.4	2005.4	2001.4	1999.4	1999.4	2002.3	1999.4	2001.4	2005.4	2003.4	2002.3
15°	2025.6	2026.6	2025.6	2028.6	2033.7	2043.7	2034.6	2032.7	2034.6	2029.6	2029.6
17.5°	2055.8	2057.9	2061.9	2069.0	2076.0	2094.2	2078.1	2073.0	2073.0	2062.9	2062.9
20°	2093.2	2096.2	2102.3	2114.4	2123.4	2140.6	2124.4	2117.3	2114.4	2101.2	2101.2
22.5°	2132.5	2137.5	2146.7	2162.8	2178.9	2195.0	2178.9	2166.8	2157.7	2140.6	2139.6
25°	2177.9	2184.0	2198.1	2224.4	2246.5	2269.7	2250.5	2226.3	2208.2	2184.0	2182.9
27.5°	2242.5	2249.6	2266.7	2299.0	2327.2	2347.4	2329.2	2297.9	2272.7	2243.5	2242.5
30°	2333.2	2340.3	2360.5	2394.8	2414.0	2427.1	2415.0	2390.7	2360.5	2327.2	2327.2
32.5°	2450.3	2459.4	2481.5	2513.8	2517.8	2519.9	2515.9	2503.8	2481.5	2441.2	2442.2
35°	2598.6	2608.6	2633.8	2660.1	2656.1	2660.1	2654.0	2650.0	2633.8	2587.5	2587.5
37.5°	2780.1	2792.2	2818.4	2838.6	2828.6	2823.5	2824.5	2825.5	2816.5	2765.0	2765.0
40°	2991.0	3007.1	3026.3	3047.4	3030.3	3015.1	3025.3	3033.3	3025.3	2972.8	2972.8
42.5°	3207.8	3231.0	3251.2	3281.5	3267.4	3248.2	3262.4	3271.4	3254.3	3197.8	3201.8
45°	3448.9	3471.2	3497.4	3542.7	3532.7	3512.5	3532.7	3534.7	3505.4	3438.9	3445.9
47.5°	3698.1	3721.3	3760.6	3821.2	3817.1	3795.0	3821.2	3807.1	3769.7	3690.0	3685.0
50°	3934.2	3966.4	4026.9	4111.7	4119.8	4092.5	4127.9	4100.6	4038.1	3938.2	3936.2
52.5°	4156.1	4190.4	4286.2	4401.2	4430.5	4395.2	4442.6	4395.2	4301.3	4173.2	4161.1
55°	4389.2	4427.4	4541.5	4691.7	4750.3	4724.0	4768.4	4696.8	4563.6	4408.2	4387.1
57.5°	4663.4	4686.7	4822.8	5001.4	5100.3	5106.3	5126.5	5005.5	4844.0	4667.5	4643.4
60°	4961.1	4993.4	5141.6	5355.5	5511.8	5562.3	5541.2	5361.6	5173.9	4971.1	4938.9
62.5°	5342.4	5377.7	5555.2	5811.4	6058.6	6183.7	6101.0	5840.7	5608.7	5365.6	5323.2
65°	5658.1	5697.5	6018.3	6475.2	6925.1	7176.3	6968.5	6489.4	6071.7	5728.7	5672.2
67.5°	5429.1	5477.6	5980.9	6820.2	7938.9	8688.4	7977.3	6923.1	6105.0	5640.0	5570.4
70°	4745.2	4790.5	5377.7	6403.6	8224.4	9866.6	8395.9	6592.2	5396.8	4876.3	4806.7
72.5°	3150.3	3296.6	3890.8	5121.4	7343.7	9130.3	7416.4	5017.6	3609.3	3143.3	3041.4
75°	1045.1	1162.0	1567.6	2655.1	4918.7	6828.2	4682.6	2349.4	1241.8	893.8	845.3
77.5°	263.3	303.6	418.6	759.6	1962.1	3887.7	1766.4	620.4	337.9	236.1	210.8
80°	128.1	141.2	201.7	253.2	491.3	1235.7	461.0	238.1	159.4	123.1	113.0
82.5°	70.6	71.6	114.0	143.2	182.6	319.8	189.6	139.2	91.8	74.6	74.6
85°	43.4	42.3	60.5	76.7	76.7	114.0	90.8	76.7	52.5	46.4	48.4
87.5°	17.1	17.1	22.2	24.2	21.2	29.2	23.2	25.2	20.2	19.2	20.2
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)