

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: P966038

Luminaire Tested: **NAV-SB4B-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966038
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-SB4B-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20012.1 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

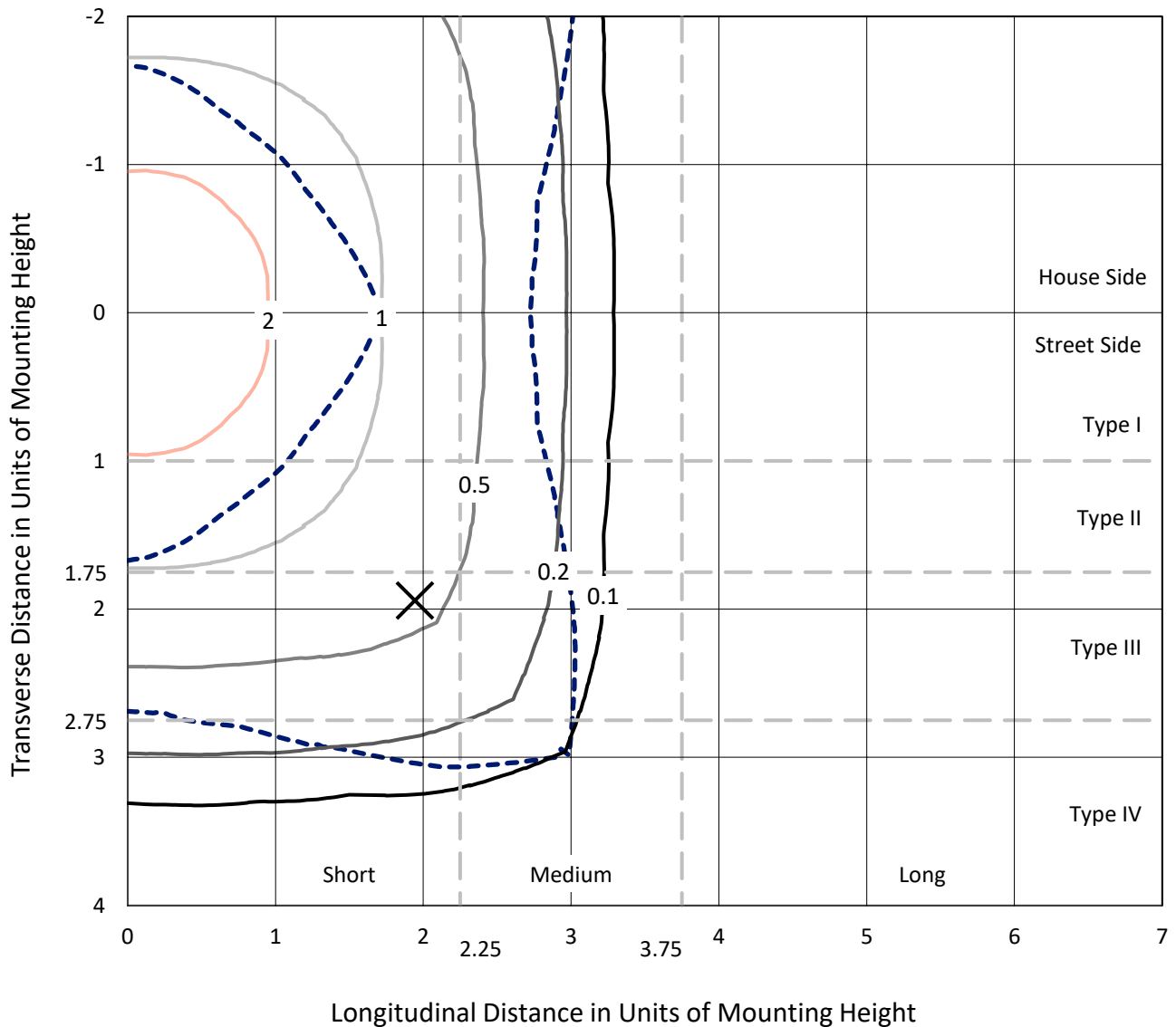
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

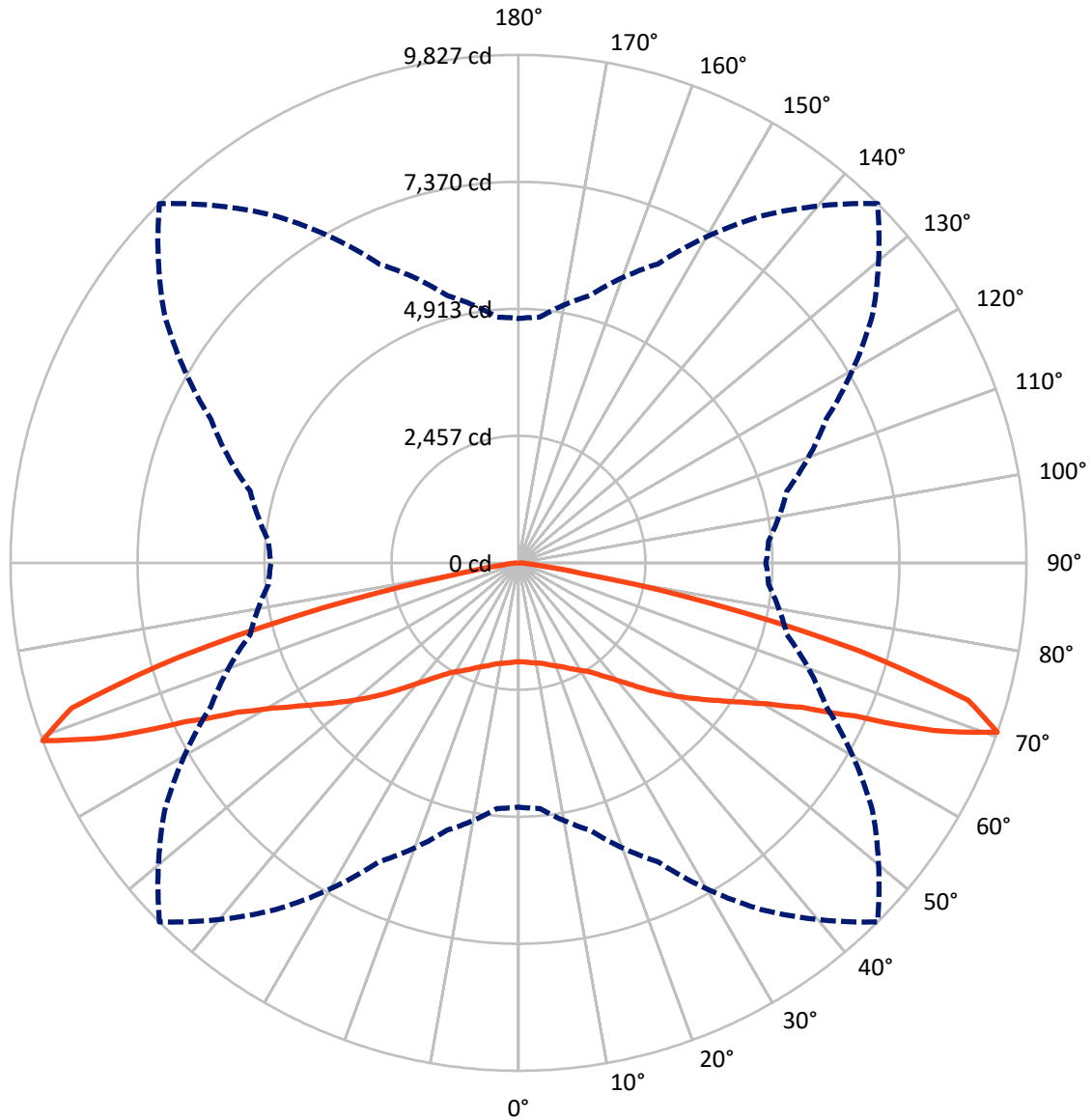
✕ Max cd
 - - - 1/2 Max cd



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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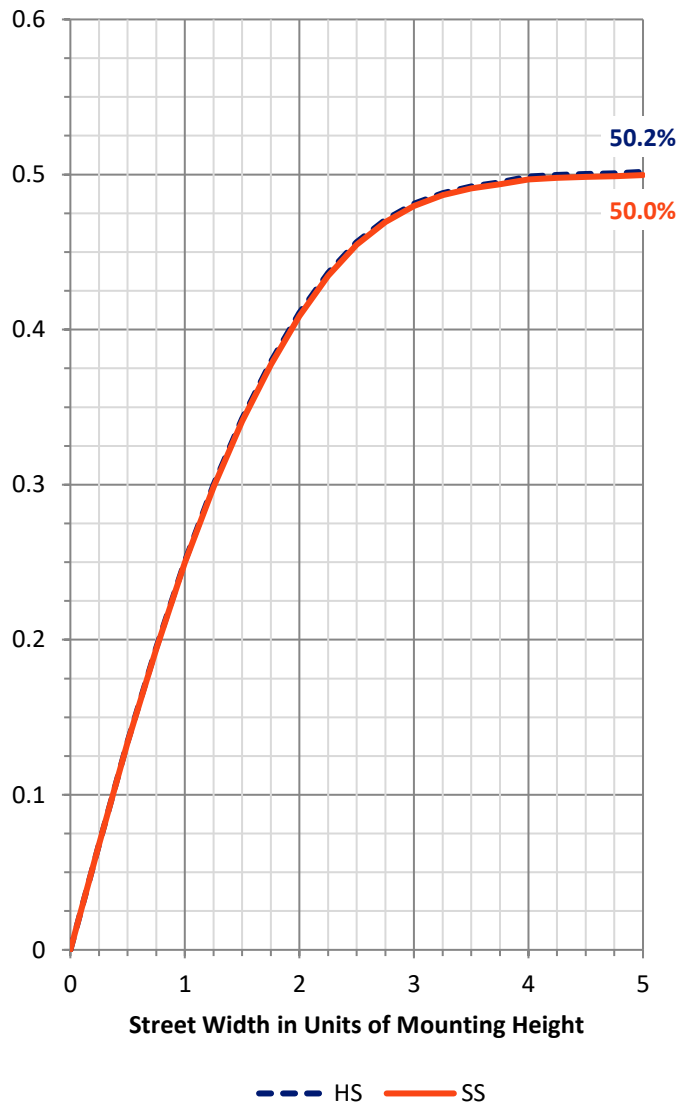
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10006.1	0.0	10006.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10006.1	0.0	10006.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20012.1	0.0	20012.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	0.9
10°-20°	577.5	2.9
20°-30°	1032.0	5.2
30°-40°	1672.9	8.4
40°-50°	2724.9	13.6
50°-60°	4154.5	20.8
60°-70°	6180.6	30.9
70°-80°	3368.7	16.8
80°-90°	114.7	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°	20012.1	100.0
0°-180°	20012.1	100.0

Coefficient of Utilization



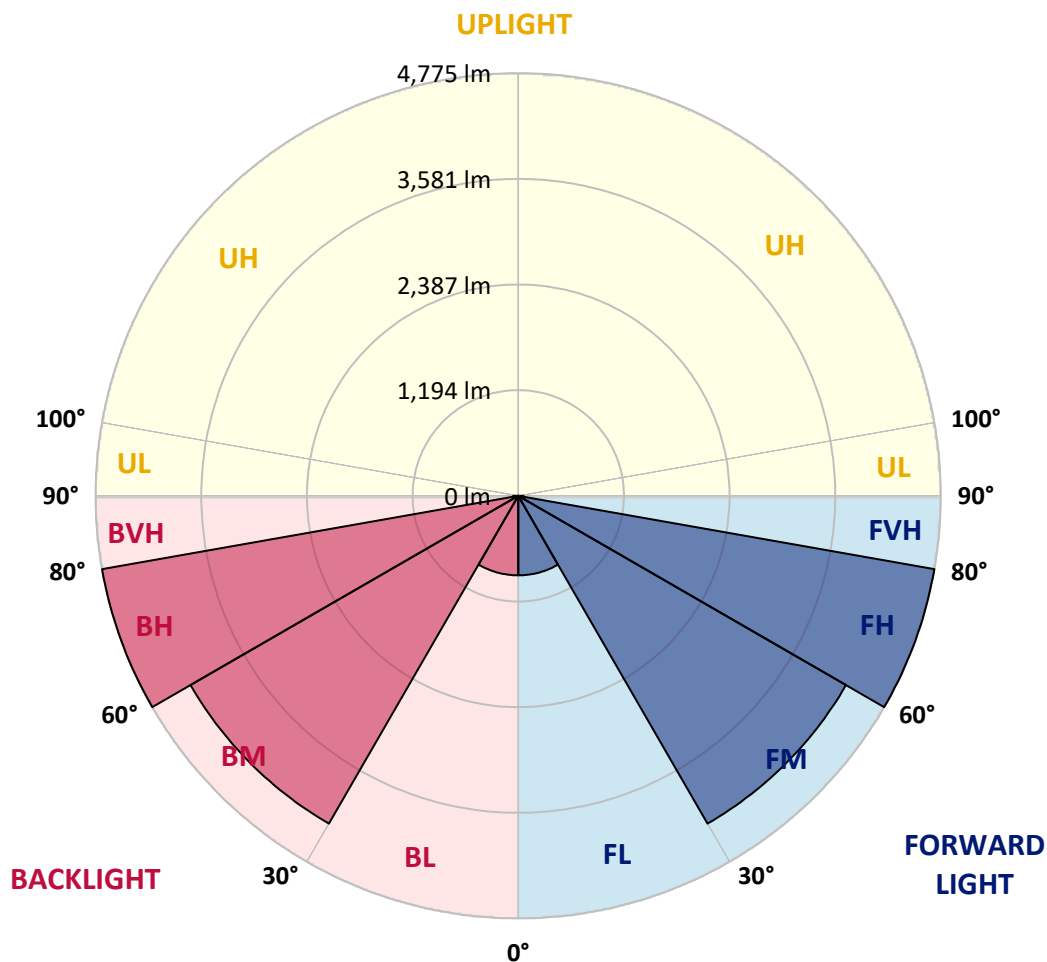
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.9	4.5			
FM (30°-60°)	4276.2	21.4			
FH (60°-80°)	4774.7	23.9			G2/5000
FVH (80°-90°)	57.4	0.3			G1/100
BL (0°-30°)	897.9	4.5	B2/1000		
BM (30°-60°)	4276.2	21.4	B3/5000		
BH (60°-80°)	4774.7	23.9	B4/5000		G2/5000
BVH (80°-90°)	57.4	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°	1917.0	1917.0	1917.0	1917.0	1917.0	1917.0	1917.0	1917.0	1917.0	1917.0	1917.0
2.5°	1926.0	1928.0	1924.0	1922.0	1919.9	1917.0	1918.0	1923.0	1927.0	1926.0	1927.0
5°	1942.1	1944.1	1941.0	1940.0	1936.0	1935.0	1935.0	1940.0	1943.1	1941.0	1942.1
7.5°	1960.1	1963.2	1958.2	1957.1	1955.1	1953.1	1952.1	1957.1	1960.1	1960.1	1960.1
10°	1977.2	1980.2	1976.2	1973.2	1971.2	1971.2	1969.2	1973.2	1978.2	1977.2	1977.2
12.5°	1995.4	1997.3	1993.3	1991.3	1991.3	1994.3	1991.3	1993.3	1997.3	1995.4	1994.3
15°	2017.4	2018.4	2017.4	2020.5	2025.5	2035.5	2026.4	2024.5	2026.4	2021.4	2021.4
17.5°	2047.5	2049.6	2053.6	2060.7	2067.6	2085.8	2069.7	2064.7	2064.7	2054.6	2054.6
20°	2084.7	2087.7	2093.8	2105.9	2114.9	2132.0	2115.9	2108.8	2105.9	2092.7	2092.7
22.5°	2123.9	2128.9	2137.9	2154.0	2170.1	2186.2	2170.1	2158.0	2149.0	2132.0	2131.0
25°	2169.1	2175.2	2189.2	2215.3	2237.5	2260.5	2241.5	2217.4	2199.2	2175.2	2174.1
27.5°	2233.5	2240.4	2257.6	2289.6	2317.8	2337.9	2319.9	2288.7	2263.6	2234.4	2233.5
30°	2323.9	2330.8	2350.9	2385.2	2404.2	2417.3	2405.3	2381.1	2350.9	2317.8	2317.8
32.5°	2440.4	2449.4	2471.6	2503.7	2507.7	2509.7	2505.7	2493.6	2471.6	2431.4	2432.3
35°	2588.1	2598.2	2623.3	2649.4	2645.3	2649.4	2643.4	2639.4	2623.3	2577.1	2577.1
37.5°	2768.9	2781.0	2807.1	2827.2	2817.1	2812.1	2813.1	2814.1	2805.1	2753.9	2753.9
40°	2979.0	2994.9	3014.1	3035.1	3018.1	3003.0	3013.1	3021.1	3013.1	2960.8	2960.8
42.5°	3194.9	3218.0	3238.1	3268.2	3254.2	3235.1	3249.1	3258.2	3241.2	3184.9	3188.9
45°	3435.1	3457.1	3483.3	3528.5	3518.4	3498.3	3518.4	3520.5	3491.4	3425.0	3432.0
47.5°	3683.2	3706.3	3745.5	3805.7	3801.7	3779.7	3805.7	3791.7	3754.6	3675.1	3670.1
50°	3918.3	3950.5	4010.7	4095.1	4103.2	4076.0	4111.2	4084.1	4021.8	3922.4	3920.3
52.5°	4139.4	4173.5	4268.9	4383.5	4412.6	4377.5	4424.6	4377.5	4284.0	4156.4	4144.4
55°	4371.4	4409.5	4523.1	4672.9	4731.1	4705.0	4749.1	4677.9	4545.3	4390.5	4369.4
57.5°	4644.7	4667.7	4803.5	4981.3	5079.7	5085.7	5105.8	4985.3	4824.6	4648.7	4624.6
60°	4941.1	4973.2	5120.9	5333.9	5489.6	5539.9	5518.8	5339.9	5153.1	4951.2	4919.0
62.5°	5320.9	5356.0	5532.8	5788.1	6034.2	6158.7	6076.4	5817.2	5586.0	5343.9	5301.7
65°	5635.3	5674.5	5994.0	6449.1	6897.2	7147.4	6940.4	6463.1	6047.2	5705.7	5649.4
67.5°	5407.3	5455.5	5956.8	6792.7	7907.0	8653.5	7945.1	6895.2	6080.4	5617.2	5547.9
70°	4726.1	4771.3	5356.0	6377.8	8191.3	9826.9	8362.1	6565.6	5375.1	4856.7	4787.4
72.5°	3137.6	3283.4	3875.1	5100.8	7314.2	9093.5	7386.5	4997.4	3594.8	3130.7	3029.2
75°	1040.9	1157.4	1561.3	2644.4	4898.9	6800.8	4663.8	2340.0	1236.8	890.1	841.9
77.5°	262.2	302.4	417.0	756.6	1954.2	3872.0	1759.2	617.9	336.6	235.1	210.0
80°	127.6	140.6	200.9	252.2	489.3	1230.7	459.1	237.1	158.8	122.6	112.5
82.5°	70.3	71.3	113.6	142.7	181.8	318.5	188.9	138.7	91.4	74.3	74.3
85°	43.2	42.2	60.3	76.4	76.4	113.6	90.4	76.4	52.3	46.2	48.2
87.5°	17.1	17.1	22.1	24.1	21.1	29.1	23.1	25.1	20.1	19.1	20.1
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)