

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: P963997

Luminaire Tested: **NAV-SB3B-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17833 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

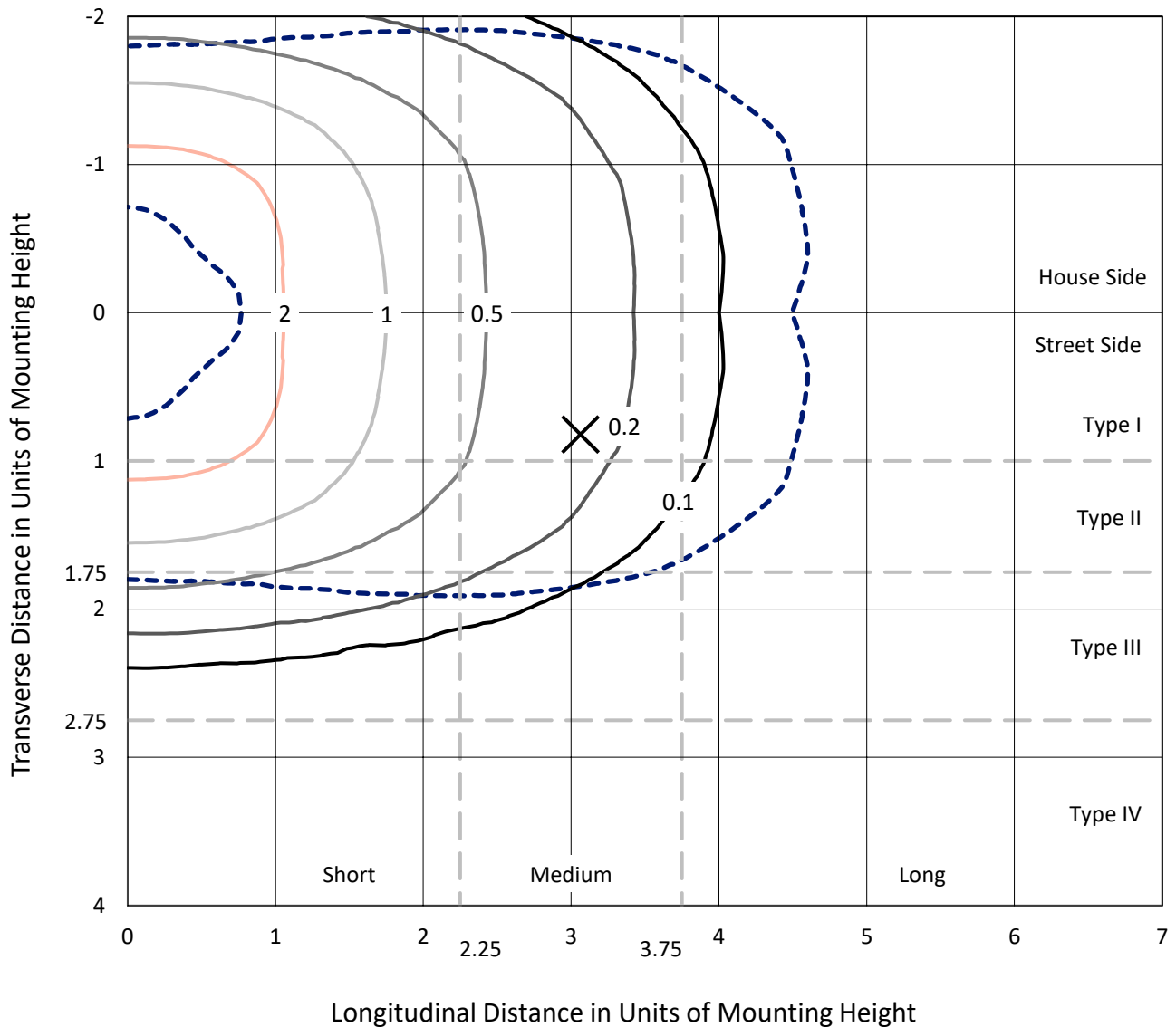
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

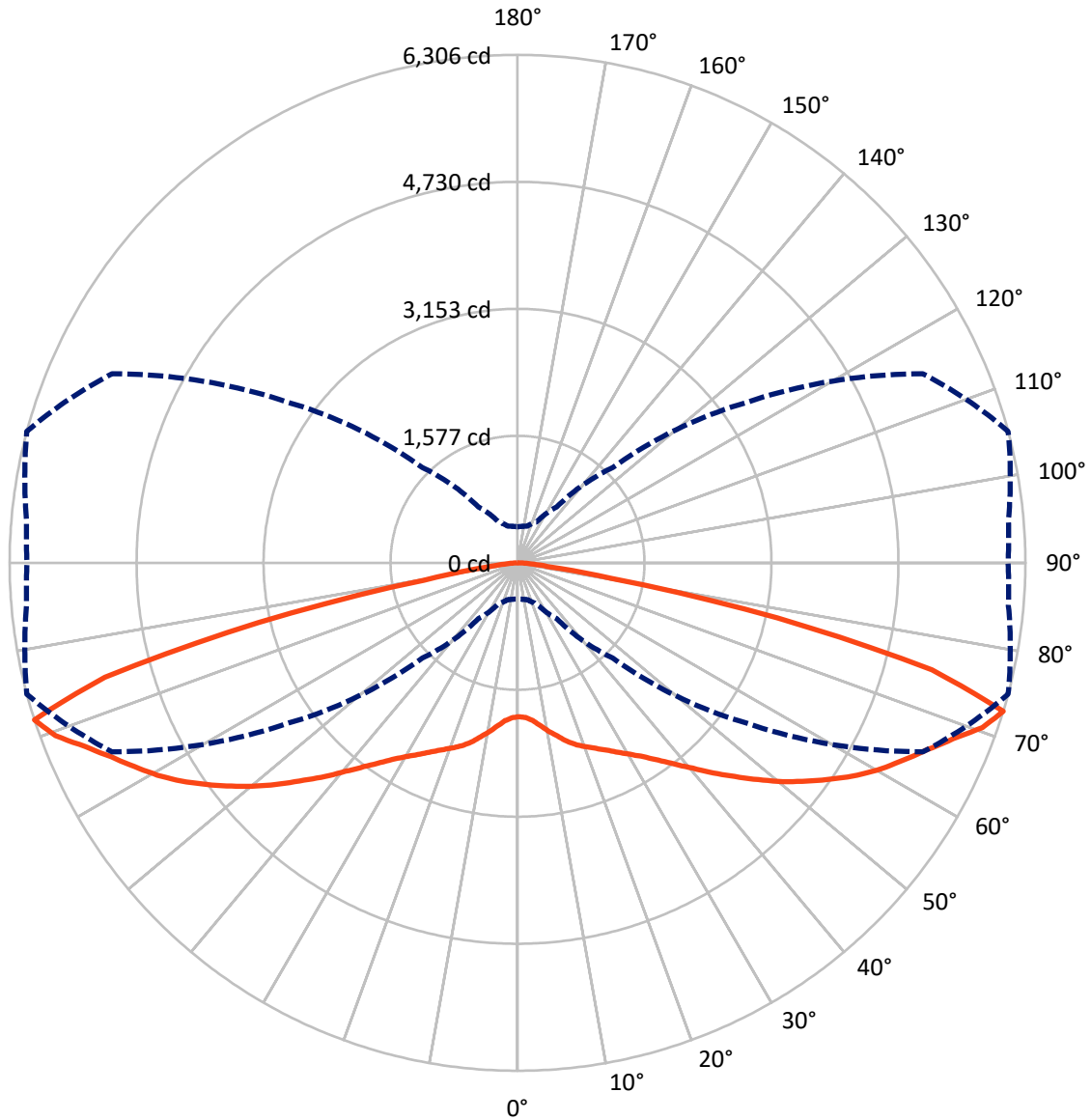
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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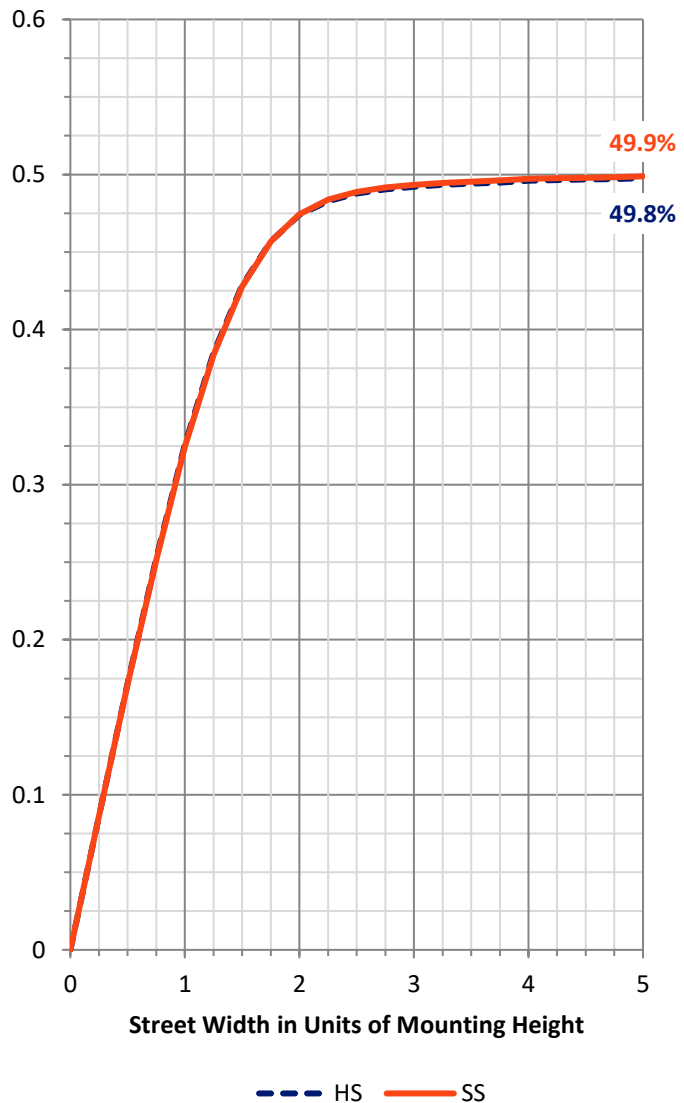
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8916.5	0.0	8916.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8916.5	0.0	8916.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17833.0	0.0	17833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.0
10°-20°	617.2	3.5
20°-30°	1192.5	6.7
30°-40°	2013.7	11.3
40°-50°	3193.5	17.9
50°-60°	4275.7	24.0
60°-70°	4069.1	22.8
70°-80°	2123.3	11.9
80°-90°	160.7	0.9
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°	17833.0	100.0
0°-180°	17833.0	100.0

Coefficient of Utilization

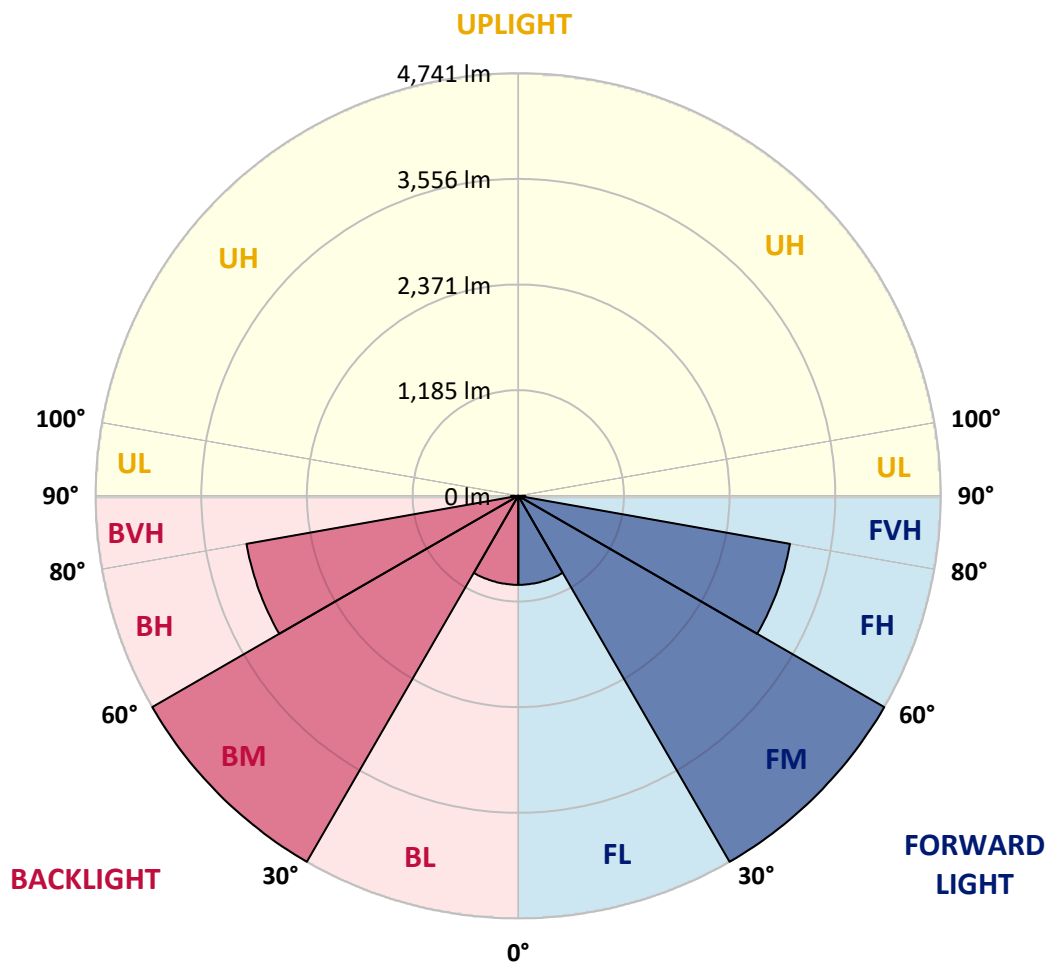


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.4	5.6			
FM (30°-60°)	4741.5	26.6			
FH (60°-80°)	3096.2	17.4			G2/5000
FVH (80°-90°)	80.4	0.5			G1/100
BL (0°-30°)	998.4	5.6	B2/1000		
BM (30°-60°)	4741.5	26.6	B3/5000		
BH (60°-80°)	3096.2	17.4	B4/5000		G4/5000
BVH (80°-90°)	80.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2	1910.2	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1910.2	1908.4	1910.2	1912.0	1911.1	1911.1	1915.7	1918.4	1923.9	1923.0	1922.1
5°	1897.5	1896.6	1903.8	1912.0	1918.4	1929.4	1943.0	1953.0	1965.7	1968.5	1968.5
7.5°	1891.1	1888.4	1901.2	1915.7	1935.7	1963.1	1989.4	2016.8	2038.6	2045.9	2047.7
10°	1895.6	1896.6	1913.9	1941.1	1973.0	2011.3	2048.7	2095.1	2126.1	2133.3	2140.6
12.5°	1916.6	1914.8	1943.9	1987.6	2031.3	2079.6	2123.3	2174.2	2208.0	2225.3	2232.6
15°	1954.9	1951.2	1992.2	2056.9	2120.5	2177.0	2212.6	2260.7	2299.9	2321.7	2329.9
17.5°	2000.4	2002.2	2055.9	2139.7	2223.4	2287.2	2320.9	2345.4	2375.5	2394.6	2403.7
20°	2080.4	2084.1	2144.2	2243.5	2339.0	2411.9	2439.2	2430.2	2438.3	2452.9	2463.8
22.5°	2188.0	2189.7	2257.2	2364.6	2464.7	2544.9	2563.0	2525.7	2502.9	2513.0	2520.3
25°	2312.7	2324.5	2391.8	2502.0	2604.9	2681.4	2689.6	2633.1	2576.7	2579.4	2584.0
27.5°	2464.7	2475.7	2543.9	2653.2	2757.9	2824.4	2823.5	2747.9	2665.0	2644.1	2650.4
30°	2629.5	2641.3	2711.4	2824.4	2921.8	2980.1	2967.3	2877.2	2758.8	2719.6	2724.2
32.5°	2825.3	2832.6	2903.6	3016.5	3106.7	3153.1	3126.7	3015.5	2868.1	2823.5	2834.4
35°	3062.0	3073.0	3125.7	3232.2	3311.5	3349.7	3305.1	3174.0	3008.3	2958.3	2965.5
37.5°	3332.4	3325.1	3385.3	3480.0	3545.5	3569.2	3508.2	3352.5	3168.6	3109.3	3120.3
40°	3614.7	3611.1	3676.6	3767.7	3803.2	3817.7	3727.6	3557.4	3353.4	3289.6	3310.5
42.5°	3870.5	3867.8	3956.1	4057.2	4100.0	4083.6	3969.8	3775.0	3567.3	3494.5	3512.7
45°	4075.4	4071.7	4180.1	4322.1	4405.9	4378.6	4225.7	4015.3	3784.0	3708.4	3725.8
47.5°	4232.9	4234.7	4351.2	4527.0	4673.6	4683.6	4486.9	4260.2	4022.6	3937.0	3962.4
50°	4346.7	4352.2	4476.9	4671.7	4872.1	4960.4	4753.7	4511.5	4269.3	4172.8	4202.0
52.5°	4374.9	4385.0	4535.2	4763.7	4999.5	5167.9	5025.1	4752.8	4503.3	4411.4	4435.1
55°	4224.7	4244.7	4435.1	4756.4	5077.8	5304.6	5263.6	4997.7	4739.2	4644.5	4670.8
57.5°	3879.6	3907.9	4130.0	4549.8	5060.5	5398.4	5448.4	5232.6	4974.9	4883.9	4904.8
60°	3396.1	3429.9	3643.0	4100.9	4816.6	5432.9	5578.7	5461.2	5191.6	5103.4	5122.4
62.5°	2666.8	2710.5	2965.5	3502.7	4301.2	5271.8	5689.7	5667.8	5386.5	5276.4	5289.1
65°	1710.8	1757.3	2025.9	2660.5	3613.7	4778.3	5724.3	5869.0	5592.3	5438.4	5457.5
67.5°	1031.6	1052.6	1185.5	1612.5	2641.3	4034.4	5431.2	6092.2	5832.7	5641.5	5656.1
70°	660.1	672.0	751.1	946.9	1493.2	2943.6	4704.5	6134.0	6124.1	5850.0	5848.1
72.5°	447.9	451.6	472.5	560.9	844.9	1672.6	3469.9	5553.1	6306.1	6118.5	6089.4
75°	327.8	347.8	381.5	397.0	479.8	835.9	1988.5	3901.5	5314.6	5396.5	5198.1
77.5°	244.1	245.0	291.4	309.5	342.3	445.3	841.3	2177.9	3299.7	3464.5	3090.3
80°	206.6	195.8	194.9	249.5	257.7	277.7	376.1	752.0	1181.8	716.6	541.7
82.5°	172.1	160.2	144.7	194.9	175.7	170.3	163.0	306.0	376.1	184.8	157.5
85°	120.2	114.7	109.3	127.5	100.1	85.6	78.3	143.0	158.5	78.3	69.2
87.5°	51.9	53.7	54.6	56.5	41.9	30.0	30.0	40.1	40.1	31.0	22.8
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)