

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: P965578

Luminaire Tested: **NAV-SB4A-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965578
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-SB4A-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18975.8 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

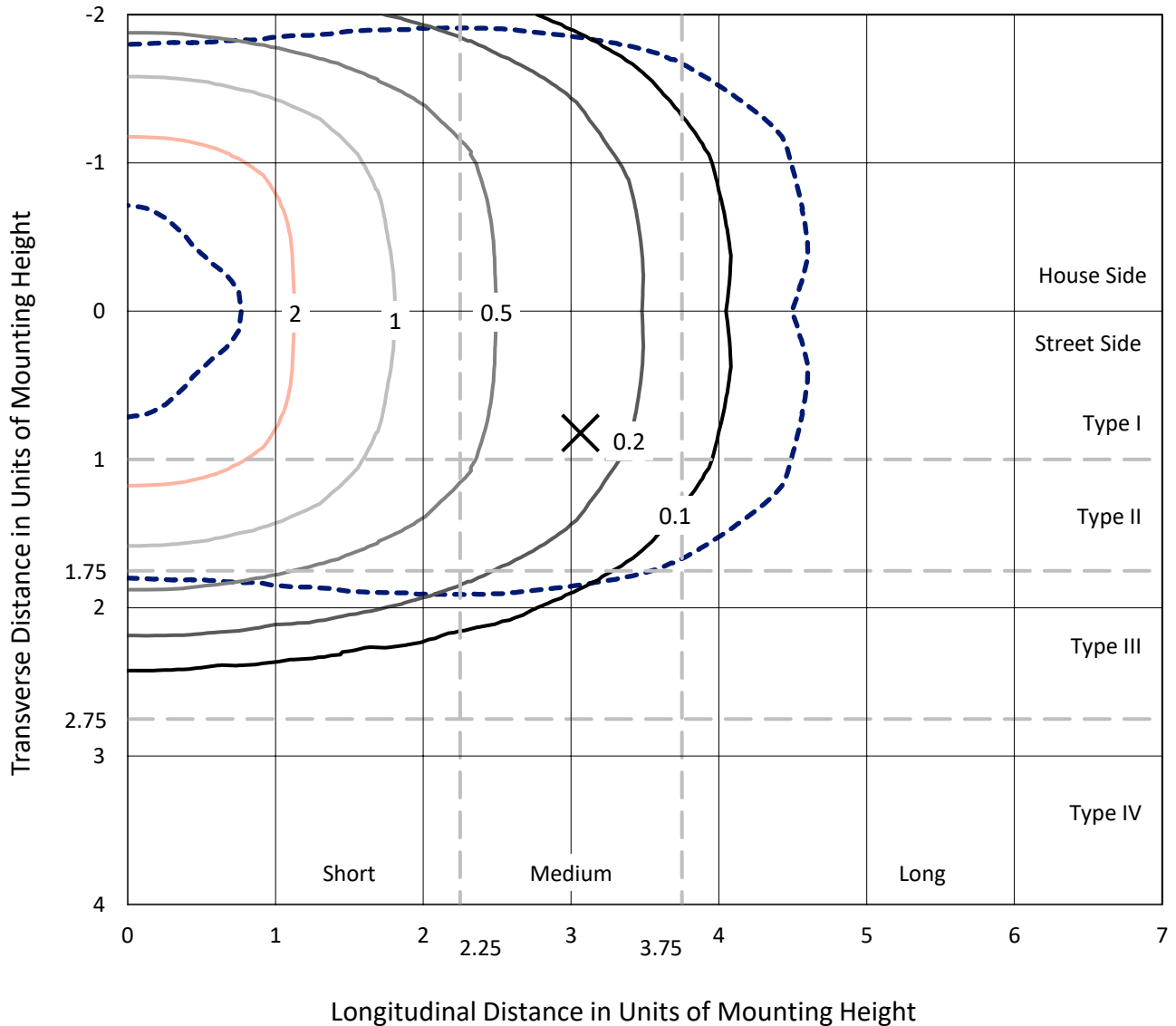
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

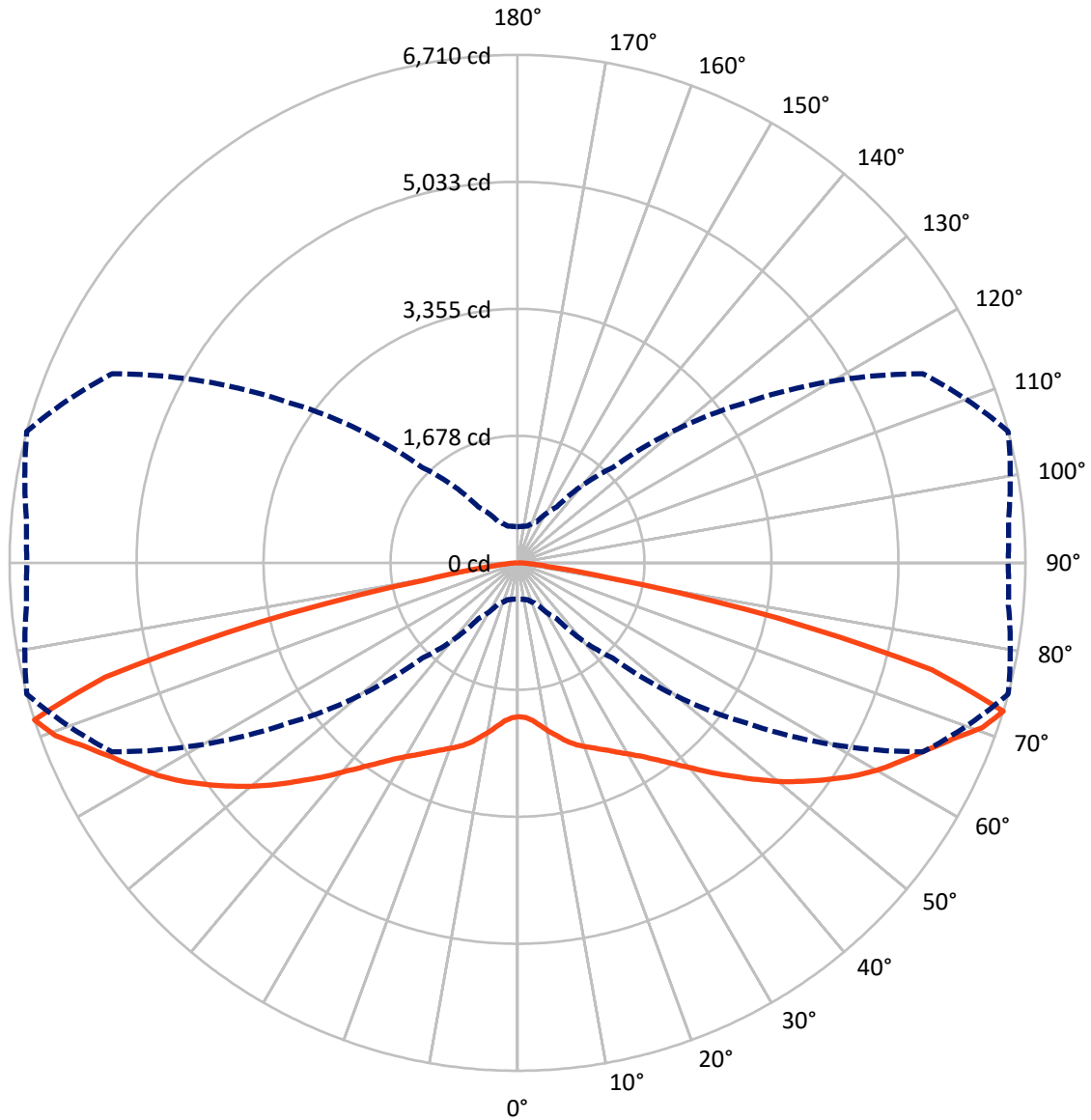
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	9487.9	0.0	9487.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9487.9	0.0	9487.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	18975.8	0.0	18975.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.0
10°-20°	656.7	3.5
20°-30°	1269.0	6.7
30°-40°	2142.7	11.3
40°-50°	3398.2	17.9
50°-60°	4549.7	24.0
60°-70°	4329.9	22.8
70°-80°	2259.4	11.9
80°-90°	171.0	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°	18975.8	100.0
0°-180°	18975.8	100.0

Coefficient of Utilization

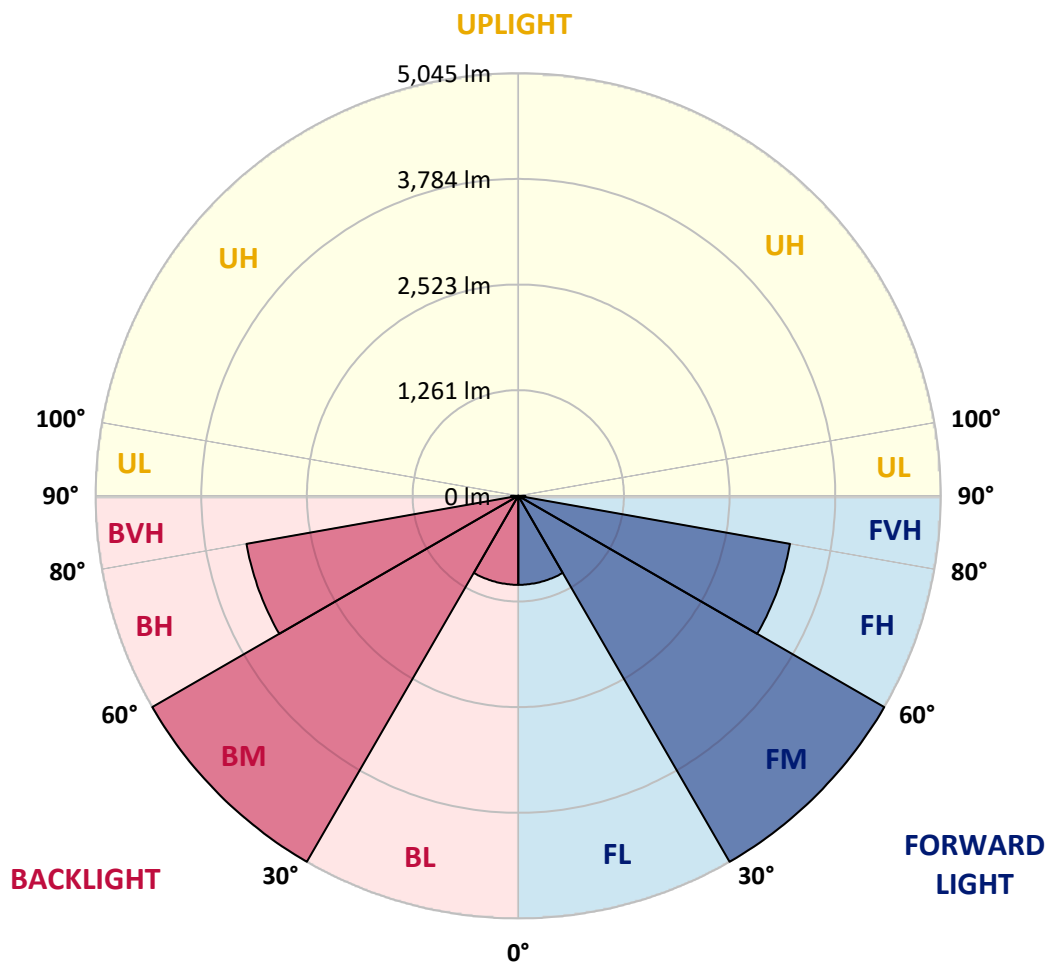


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.4	5.6			
FM (30°-60°)	5045.3	26.6			
FH (60°-80°)	3294.7	17.4			G2/5000
FVH (80°-90°)	85.5	0.5			G1/100
BL (0°-30°)	1062.4	5.6	B3/2500		
BM (30°-60°)	5045.3	26.6	B4/8500		
BH (60°-80°)	3294.7	17.4	B4/5000		G4/5000
BVH (80°-90°)	85.5	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°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2032.7	2030.7	2032.7	2034.6	2033.6	2033.6	2038.4	2041.4	2047.2	2046.2	2045.3
5°	2019.0	2018.1	2025.9	2034.6	2041.4	2053.0	2067.5	2078.2	2091.7	2094.7	2094.7
7.5°	2012.3	2009.4	2022.9	2038.4	2059.7	2088.8	2116.9	2146.0	2169.2	2177.0	2178.9
10°	2017.2	2018.1	2036.6	2065.6	2099.5	2140.2	2179.9	2229.4	2262.3	2270.1	2277.8
12.5°	2039.4	2037.5	2068.4	2115.0	2161.5	2212.9	2259.4	2313.6	2349.5	2367.9	2375.6
15°	2080.1	2076.2	2119.8	2188.7	2256.4	2316.5	2354.3	2405.7	2447.3	2470.6	2479.3
17.5°	2128.6	2130.5	2187.7	2276.8	2365.9	2433.8	2469.6	2495.8	2527.8	2548.0	2557.8
20°	2213.8	2217.7	2281.6	2387.2	2489.0	2566.5	2595.5	2585.9	2594.6	2610.1	2621.7
22.5°	2328.2	2330.1	2401.8	2516.1	2622.7	2707.9	2727.3	2687.5	2663.4	2674.0	2681.8
25°	2460.9	2473.4	2545.2	2662.4	2771.9	2853.3	2862.0	2801.9	2741.9	2744.7	2749.6
27.5°	2622.7	2634.4	2706.9	2823.3	2934.7	3005.4	3004.4	2924.0	2835.9	2813.5	2820.3
30°	2798.0	2810.7	2885.3	3005.4	3109.0	3171.0	3157.5	3061.6	2935.6	2894.0	2898.8
32.5°	3006.3	3014.1	3089.7	3209.8	3305.7	3355.1	3327.0	3208.9	3051.8	3004.4	3016.1
35°	3258.3	3269.9	3326.0	3439.4	3523.7	3564.4	3517.0	3377.4	3201.1	3147.8	3155.6
37.5°	3546.0	3538.2	3602.2	3702.9	3772.7	3797.9	3732.9	3567.3	3371.6	3308.6	3320.3
40°	3846.3	3842.4	3912.2	4009.1	4046.9	4062.4	3966.4	3785.3	3568.2	3500.5	3522.7
42.5°	4118.6	4115.7	4209.7	4317.2	4362.7	4345.3	4224.2	4016.9	3796.0	3718.5	3737.9
45°	4336.6	4332.7	4448.0	4599.2	4688.2	4659.2	4496.5	4272.6	4026.5	3946.1	3964.5
47.5°	4504.2	4506.1	4630.1	4817.1	4973.1	4983.8	4774.4	4533.3	4280.4	4189.3	4216.4
50°	4625.3	4631.2	4763.9	4971.1	5184.3	5278.3	5058.4	4800.7	4542.9	4440.2	4471.3
52.5°	4655.3	4666.0	4825.8	5069.0	5320.0	5499.2	5347.1	5057.5	4792.0	4694.1	4719.3
55°	4495.4	4516.8	4719.3	5061.2	5403.3	5644.6	5600.9	5318.0	5042.9	4942.1	4970.2
57.5°	4128.3	4158.3	4394.7	4841.4	5384.8	5744.3	5797.6	5568.0	5293.8	5197.0	5219.2
60°	3613.8	3649.6	3876.3	4363.7	5125.2	5781.1	5936.2	5811.1	5524.4	5430.4	5450.7
62.5°	2837.8	2884.2	3155.6	3727.2	4576.8	5609.6	6054.4	6031.1	5731.7	5614.5	5628.1
65°	1820.5	1869.9	2155.7	2830.9	3845.4	5084.5	6091.2	6245.2	5950.6	5786.9	5807.3
67.5°	1097.7	1120.0	1261.5	1715.8	2810.7	4293.0	5779.2	6482.6	6206.5	6003.0	6018.5
70°	702.4	715.0	799.3	1007.6	1589.0	3132.3	5006.1	6527.2	6516.5	6224.8	6223.0
72.5°	476.6	480.5	502.9	596.9	899.1	1779.8	3692.3	5909.0	6710.3	6510.7	6479.6
75°	348.8	370.1	405.9	422.4	510.6	889.4	2116.0	4151.6	5655.2	5742.4	5531.2
77.5°	259.6	260.7	310.1	329.4	364.3	473.8	895.2	2317.5	3511.1	3686.5	3288.3
80°	220.0	208.3	207.4	265.5	274.2	295.5	400.2	800.3	1257.6	762.5	576.5
82.5°	183.1	170.6	154.1	207.4	187.0	181.2	173.4	325.5	400.2	196.7	167.6
85°	127.9	122.1	116.2	135.6	106.6	91.1	83.3	152.1	168.6	83.3	73.6
87.5°	55.2	57.2	58.1	60.1	44.6	32.0	32.0	42.6	42.6	32.9	24.2
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)