

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: P965547

Luminaire Tested: **NAV-SB4A-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965547
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-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17600.3 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

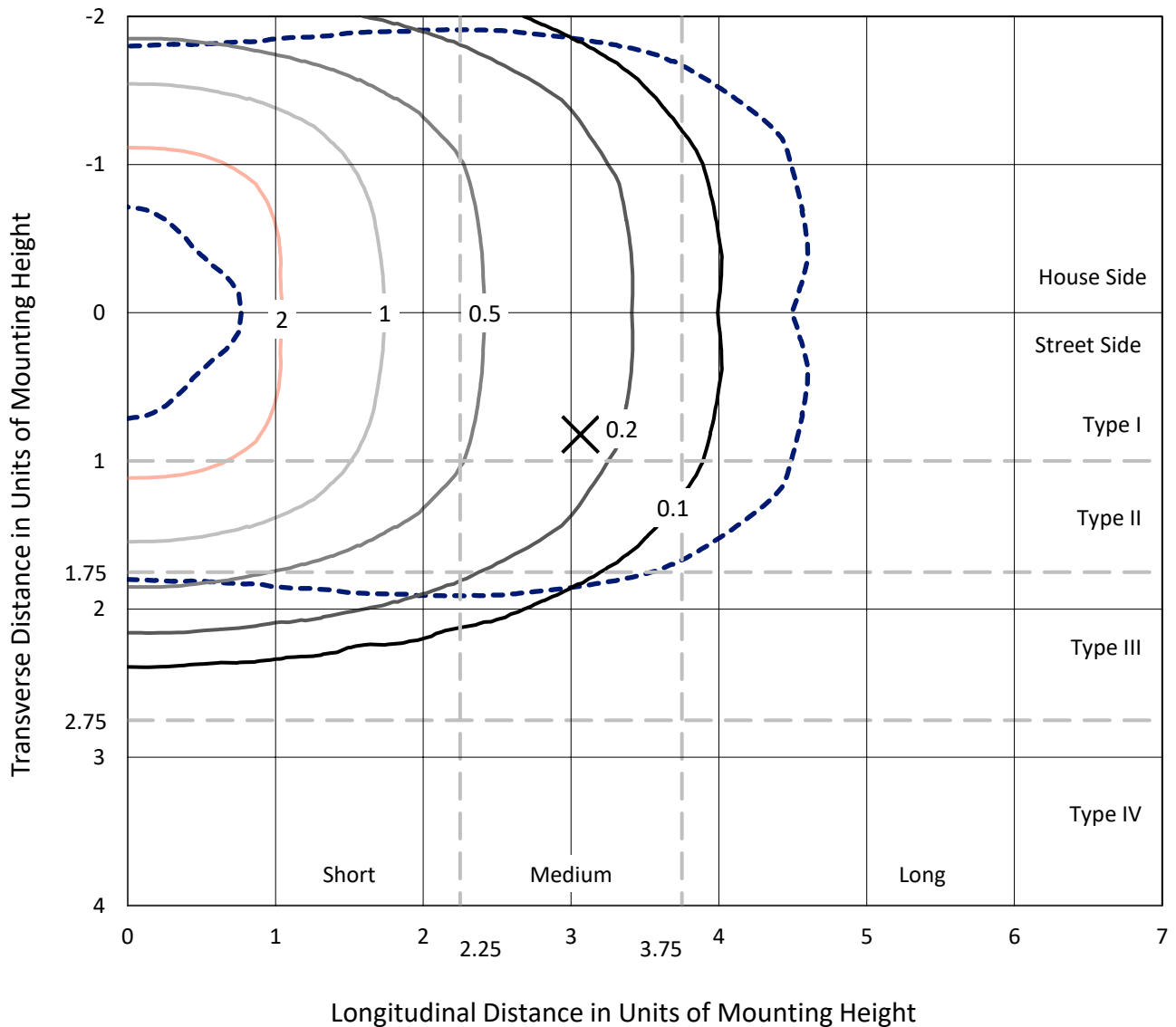
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

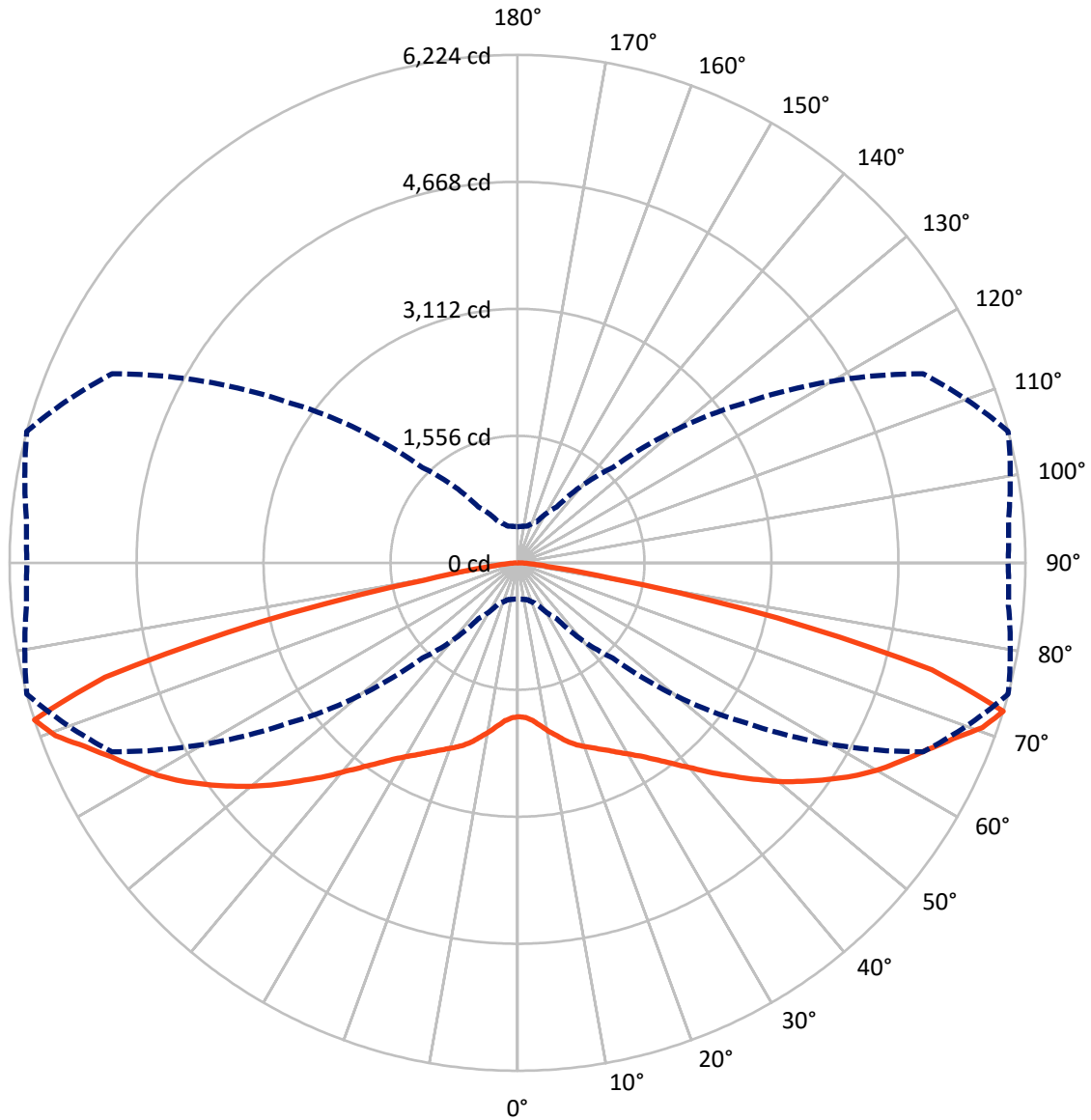
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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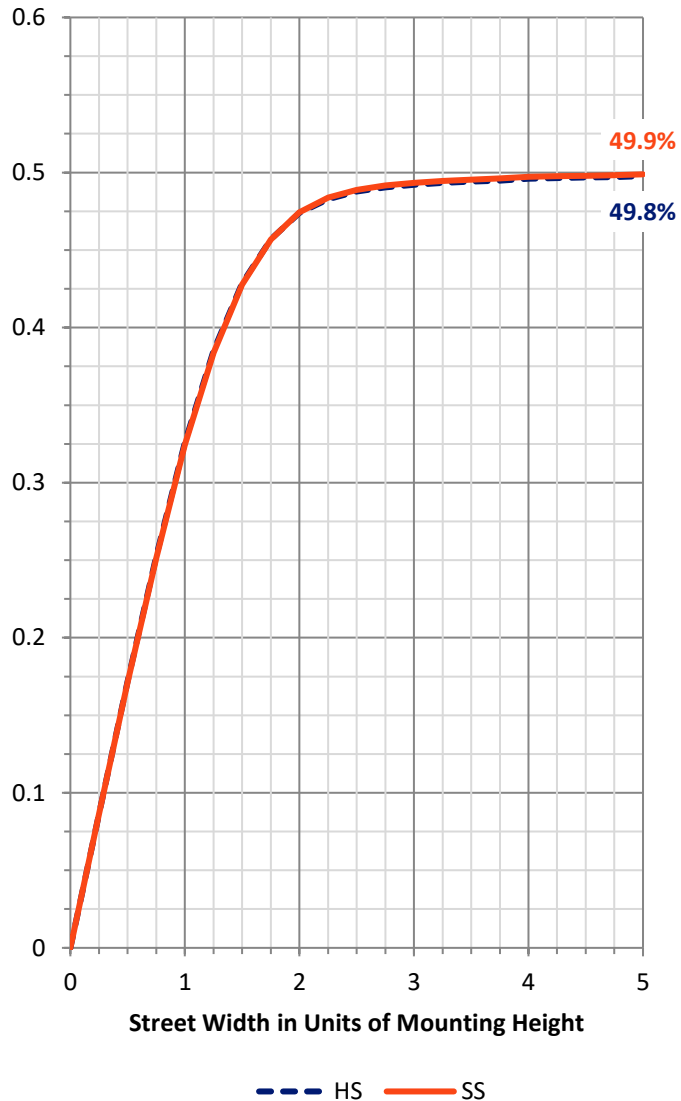
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8800.1	0.0	8800.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8800.1	0.0	8800.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	17600.3	0.0	17600.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	1.0
10°-20°	609.1	3.5
20°-30°	1177.0	6.7
30°-40°	1987.4	11.3
40°-50°	3151.8	17.9
50°-60°	4220.0	24.0
60°-70°	4016.0	22.8
70°-80°	2095.6	11.9
80°-90°	158.6	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°	17600.3	100.0
0°-180°	17600.3	100.0

Coefficient of Utilization

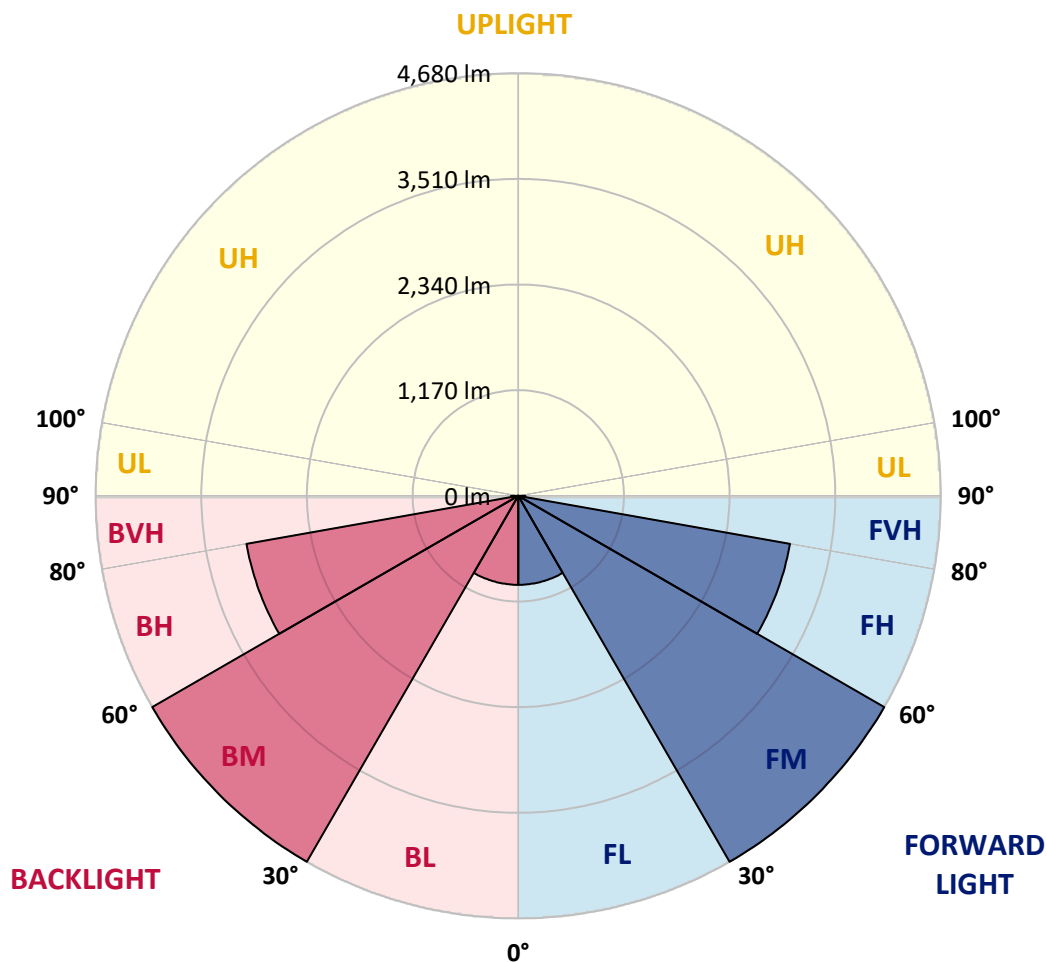


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.4	5.6			
FM (30°-60°)	4679.6	26.6			
FH (60°-80°)	3055.8	17.4			G2/5000
FVH (80°-90°)	79.3	0.5			G1/100
BL (0°-30°)	985.4	5.6	B2/1000		
BM (30°-60°)	4679.6	26.6	B3/5000		
BH (60°-80°)	3055.8	17.4	B4/5000		G4/5000
BVH (80°-90°)	79.3	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°	1885.3	1885.3	1885.3	1885.3	1885.3	1885.3	1885.3	1885.3	1885.3	1885.3	1885.3
2.5°	1885.3	1883.5	1885.3	1887.1	1886.2	1886.2	1890.7	1893.4	1898.8	1897.9	1897.0
5°	1872.7	1871.9	1879.0	1887.1	1893.4	1904.1	1917.7	1927.5	1940.1	1942.8	1942.8
7.5°	1866.4	1863.8	1876.4	1890.7	1910.5	1937.5	1963.5	1990.4	2012.0	2019.2	2021.0
10°	1870.9	1871.9	1888.9	1915.8	1947.3	1985.0	2021.9	2067.7	2098.3	2105.5	2112.6
12.5°	1891.6	1889.8	1918.6	1961.6	2004.8	2052.5	2095.6	2145.9	2179.1	2196.3	2203.4
15°	1929.4	1925.8	1966.2	2030.0	2092.8	2148.6	2183.7	2231.3	2270.0	2291.5	2299.6
17.5°	1974.3	1976.1	2029.1	2111.8	2194.4	2257.4	2290.6	2314.9	2344.5	2363.3	2372.4
20°	2053.4	2057.0	2116.2	2214.2	2308.5	2380.5	2407.4	2398.4	2406.5	2420.8	2431.7
22.5°	2159.4	2161.2	2227.6	2333.7	2432.5	2511.7	2529.6	2492.8	2470.4	2480.2	2487.4
25°	2282.5	2294.2	2360.7	2469.4	2570.9	2646.4	2654.5	2598.8	2543.1	2545.8	2550.3
27.5°	2432.5	2443.4	2510.7	2618.6	2721.9	2787.5	2786.7	2712.0	2630.3	2609.5	2615.9
30°	2595.2	2606.9	2676.1	2787.5	2883.6	2941.1	2928.6	2839.7	2722.8	2684.2	2688.7
32.5°	2788.4	2795.6	2865.7	2977.1	3066.1	3111.9	3085.9	2976.2	2830.6	2786.7	2797.4
35°	3022.0	3032.9	3084.9	3190.1	3268.3	3306.0	3262.0	3132.6	2969.0	2919.6	2926.8
37.5°	3288.9	3281.7	3341.1	3434.6	3499.2	3522.6	3462.3	3308.7	3127.2	3068.7	3079.6
40°	3567.5	3563.9	3628.6	3718.5	3753.6	3767.9	3678.9	3510.9	3309.6	3246.7	3267.4
42.5°	3820.1	3817.3	3904.5	4004.3	4046.5	4030.3	3918.0	3725.7	3520.8	3448.9	3466.9
45°	4022.2	4018.6	4125.5	4265.7	4348.5	4321.5	4170.5	3963.0	3734.7	3660.1	3677.2
47.5°	4177.7	4179.4	4294.5	4468.0	4612.6	4622.5	4428.4	4204.7	3970.1	3885.7	3910.8
50°	4290.0	4295.4	4418.5	4610.9	4808.5	4895.7	4691.7	4452.7	4213.7	4118.3	4147.2
52.5°	4317.9	4327.8	4476.1	4701.6	4934.3	5100.6	4959.5	4690.8	4444.6	4353.8	4377.2
55°	4169.6	4189.4	4377.2	4694.4	5011.6	5235.4	5194.9	4932.5	4677.3	4583.9	4609.9
57.5°	3829.0	3856.9	4076.1	4490.4	4994.5	5328.0	5377.4	5164.4	4910.1	4820.2	4840.9
60°	3351.9	3385.1	3595.4	4047.4	4753.7	5362.1	5505.9	5390.0	5124.0	5036.7	5055.6
62.5°	2632.1	2675.1	2926.8	3457.0	4245.0	5203.0	5615.5	5593.9	5316.3	5207.5	5220.1
65°	1688.5	1734.3	1999.5	2625.7	3566.6	4715.9	5649.6	5792.5	5519.3	5367.4	5386.4
67.5°	1018.1	1038.8	1170.0	1591.4	2606.9	3981.8	5360.2	6012.6	5756.6	5567.8	5582.3
70°	651.5	663.2	741.4	934.6	1473.7	2905.3	4643.1	6054.0	6044.1	5773.6	5771.9
72.5°	442.1	445.7	466.4	553.5	833.9	1650.8	3424.6	5480.7	6223.8	6038.7	6010.0
75°	323.5	343.3	376.5	391.8	473.6	824.9	1962.6	3850.6	5245.2	5326.1	5130.2
77.5°	240.9	241.7	287.5	305.6	337.8	439.4	830.4	2149.5	3256.6	3419.3	3049.9
80°	204.0	193.2	192.3	246.2	254.3	274.1	371.2	742.3	1166.4	707.2	534.6
82.5°	169.8	158.2	142.9	192.3	173.4	168.0	160.8	302.0	371.2	182.4	155.5
85°	118.6	113.3	107.8	125.8	98.8	84.5	77.3	141.0	156.3	77.3	68.3
87.5°	51.2	53.0	53.9	55.8	41.3	29.6	29.6	39.6	39.6	30.5	22.4
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)