

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: P967624

Luminaire Tested: **NAV-SB5A-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967624
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-SB5A-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19757.9 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

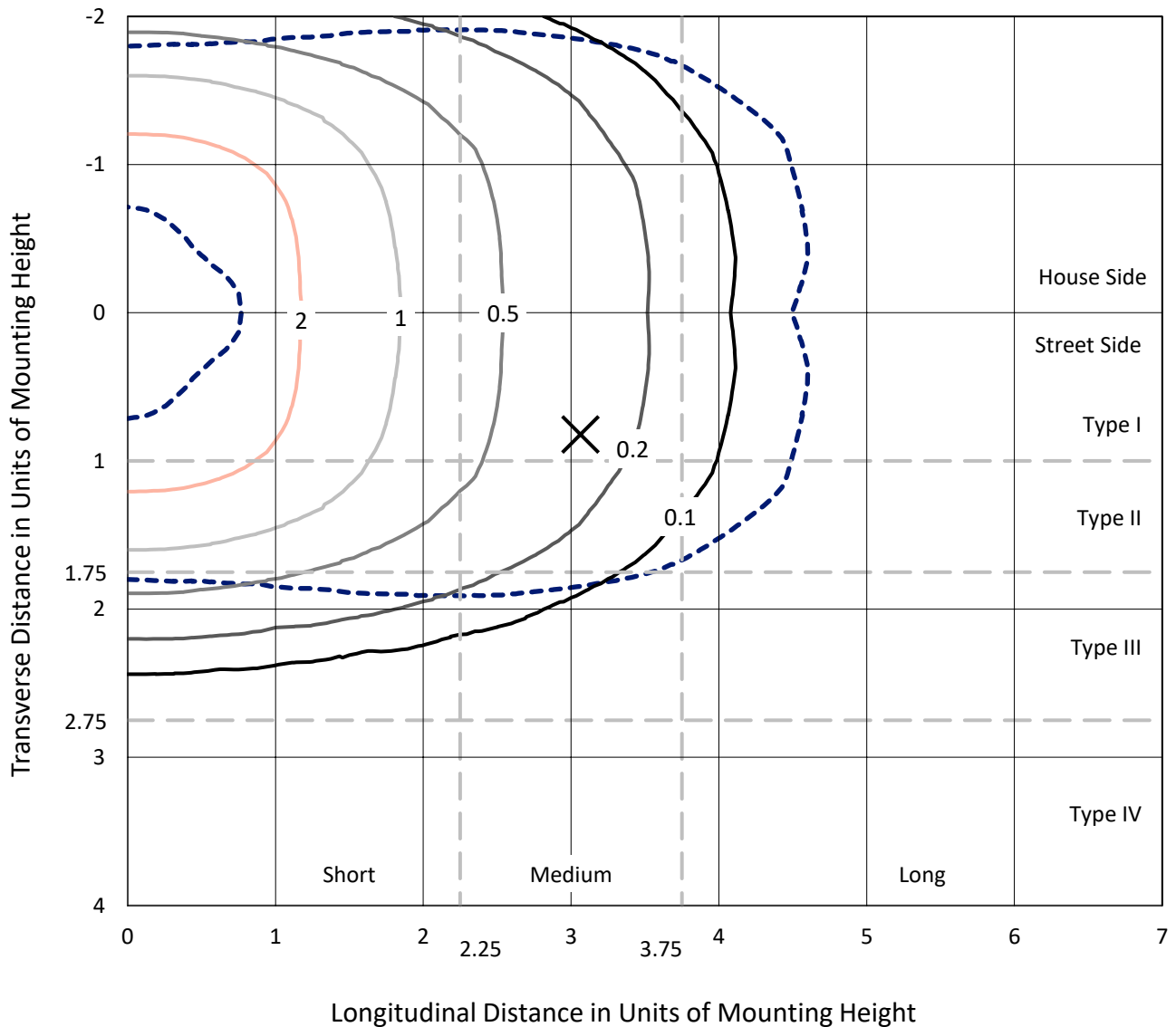
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

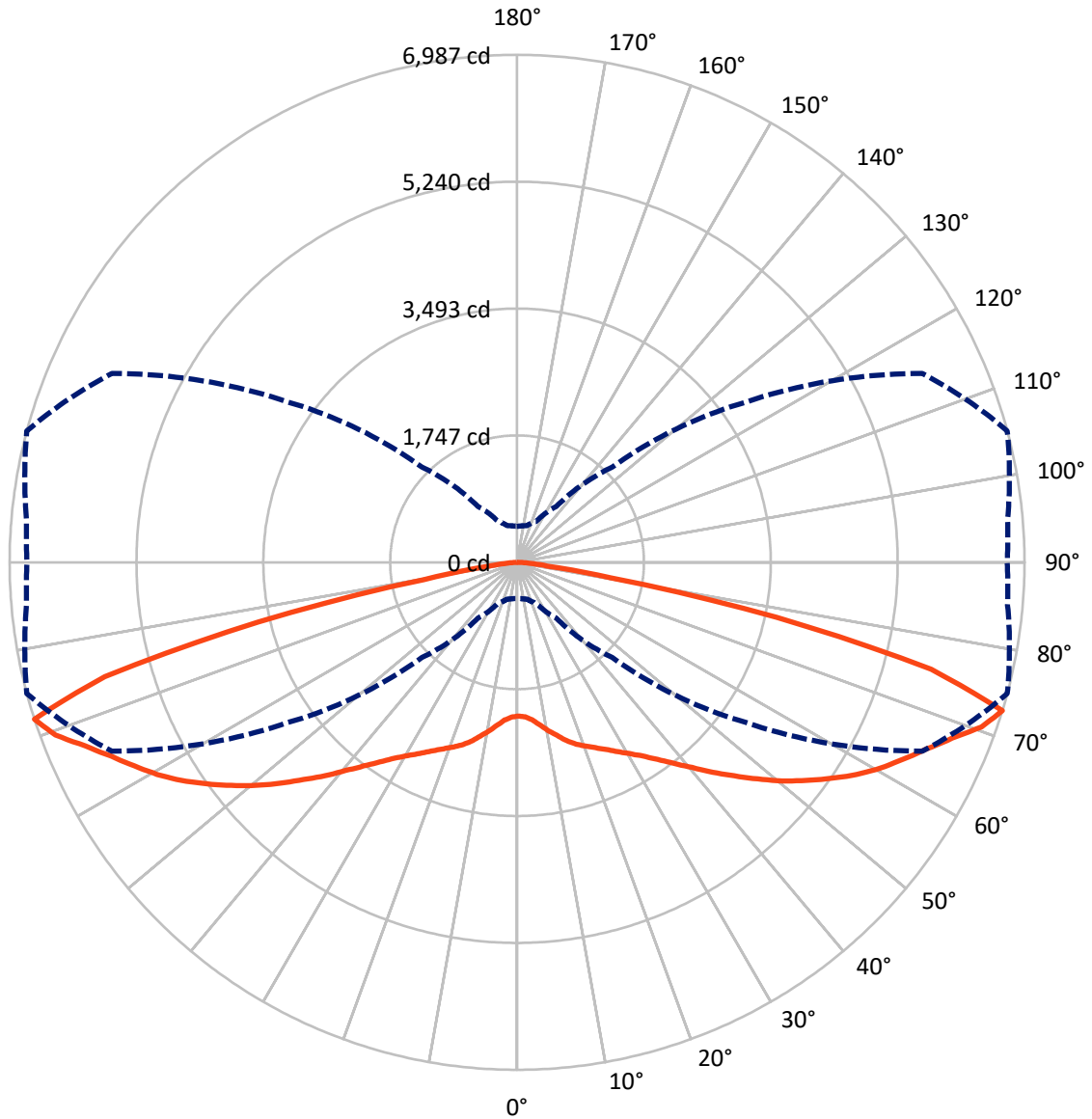
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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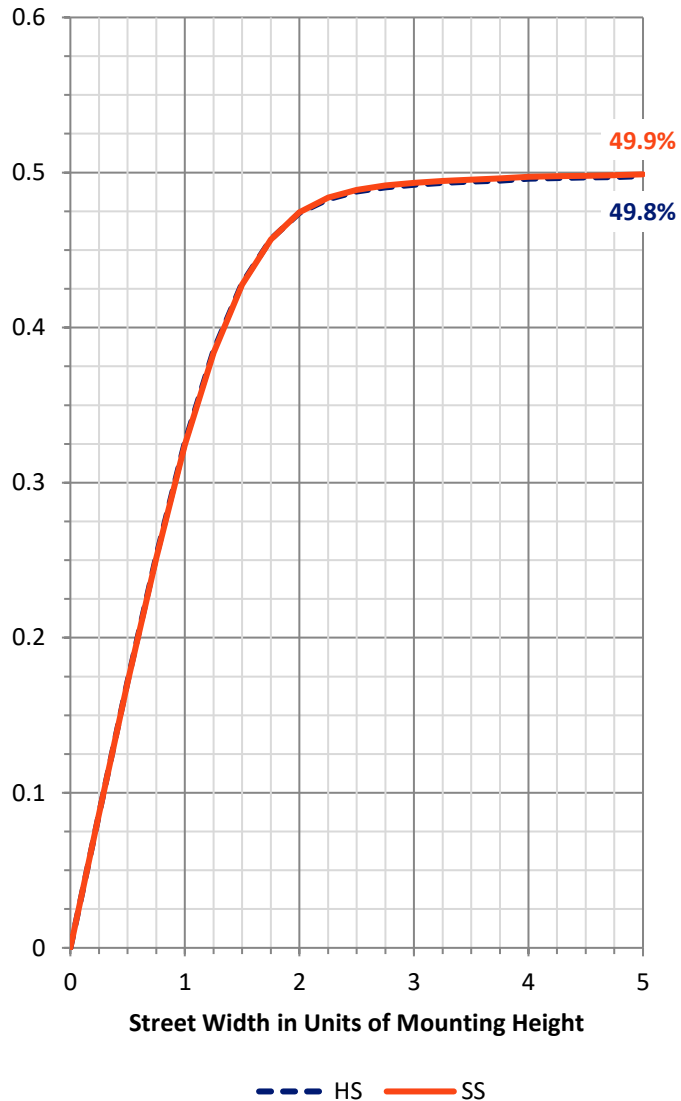
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9879.0	0.0	9879.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9879.0	0.0	9879.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19757.9	0.0	19757.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.0
10°-20°	683.8	3.5
20°-30°	1321.3	6.7
30°-40°	2231.1	11.3
40°-50°	3538.2	17.9
50°-60°	4737.3	24.0
60°-70°	4508.4	22.8
70°-80°	2352.5	11.9
80°-90°	178.1	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°	19757.9	100.0
0°-180°	19757.9	100.0

Coefficient of Utilization



REPORT NUMBER: P967624

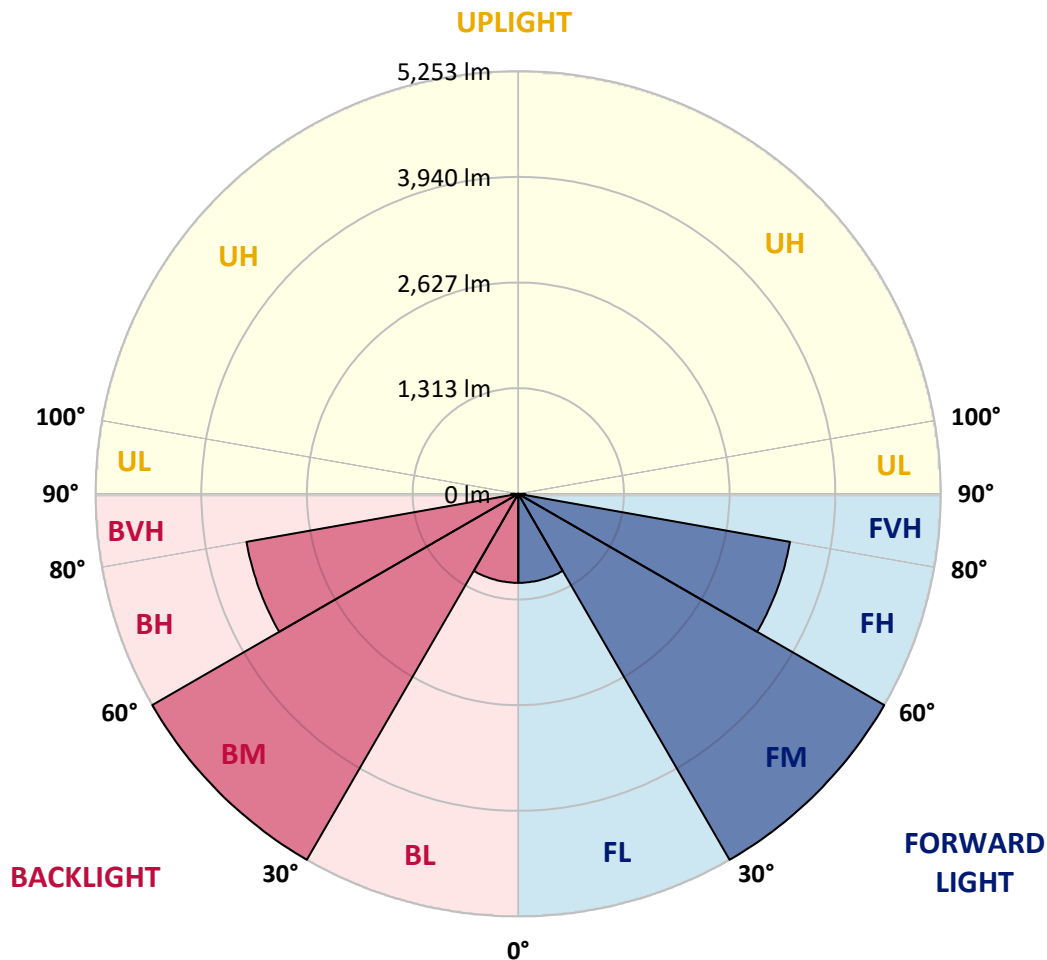
CATALOG NUMBER: NAV-SB5A-722-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.2	5.6			
FM (30°-60°)	5253.3	26.6			
FH (60°-80°)	3430.4	17.4			G2/5000
FVH (80°-90°)	89.0	0.5			G1/100
BL (0°-30°)	1106.2	5.6	B3/2500		
BM (30°-60°)	5253.3	26.6	B4/8500		
BH (60°-80°)	3430.4	17.4	B4/5000		G4/5000
BVH (80°-90°)	89.0	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°	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4
2.5°	2116.4	2114.4	2116.4	2118.5	2117.4	2117.4	2122.5	2125.5	2131.6	2130.6	2129.5
5°	2102.3	2101.2	2109.3	2118.5	2125.5	2137.6	2152.7	2163.9	2177.9	2181.0	2181.0
7.5°	2095.2	2092.2	2106.4	2122.5	2144.7	2174.9	2204.2	2234.5	2258.7	2266.7	2268.7
10°	2100.3	2101.2	2120.4	2150.8	2186.0	2228.4	2269.8	2321.2	2355.6	2363.5	2371.6
12.5°	2123.5	2121.4	2153.7	2202.2	2250.6	2304.1	2352.5	2409.0	2446.3	2465.4	2473.5
15°	2165.8	2161.8	2207.2	2278.9	2349.4	2412.0	2451.4	2504.8	2548.1	2572.4	2581.5
17.5°	2216.3	2218.3	2277.9	2370.6	2463.5	2534.1	2571.4	2598.6	2631.9	2653.1	2663.2
20°	2305.0	2309.1	2375.6	2485.6	2591.6	2672.3	2702.5	2692.5	2701.5	2717.7	2729.8
22.5°	2424.1	2426.1	2500.8	2619.8	2730.8	2819.6	2839.8	2798.4	2773.1	2784.2	2792.3
25°	2562.3	2575.4	2650.0	2772.1	2886.1	2970.9	2980.0	2917.4	2854.8	2857.9	2862.9
27.5°	2730.8	2742.9	2818.5	2939.6	3055.6	3129.2	3128.2	3044.5	2952.7	2929.6	2936.5
30°	2913.4	2926.5	3004.2	3129.2	3237.2	3301.7	3287.6	3187.7	3056.7	3013.2	3018.3
32.5°	3130.2	3138.3	3217.0	3342.1	3442.0	3493.4	3464.2	3341.1	3177.7	3128.2	3140.3
35°	3392.5	3404.6	3463.2	3581.1	3669.0	3711.3	3661.9	3516.6	3333.0	3277.5	3285.6
37.5°	3692.2	3684.1	3750.7	3855.5	3928.2	3954.4	3886.8	3714.3	3510.5	3445.0	3457.1
40°	4004.9	4000.8	4073.5	4174.3	4213.7	4229.9	4129.9	3941.3	3715.3	3644.7	3668.0
42.5°	4288.3	4285.3	4383.2	4495.1	4542.6	4524.3	4398.3	4182.4	3952.4	3871.7	3891.9
45°	4515.3	4511.2	4631.4	4788.7	4881.5	4851.2	4681.8	4448.7	4192.5	4108.8	4128.0
47.5°	4689.8	4691.8	4821.0	5015.6	5178.1	5189.2	4971.2	4720.1	4456.8	4362.0	4390.2
50°	4816.0	4822.0	4960.2	5176.0	5398.0	5495.8	5266.9	4998.5	4730.2	4623.3	4655.5
52.5°	4847.2	4858.3	5024.8	5277.9	5539.2	5725.9	5567.5	5265.8	4989.4	4887.5	4913.7
55°	4680.8	4702.9	4913.7	5269.8	5626.0	5877.1	5831.7	5537.3	5250.7	5145.8	5175.0
57.5°	4298.4	4329.7	4575.8	5040.8	5606.9	5981.1	6036.5	5797.5	5511.9	5411.1	5434.3
60°	3762.8	3800.1	4036.1	4543.5	5336.5	6019.4	6180.9	6050.7	5752.1	5654.2	5675.4
62.5°	2954.8	3003.1	3285.6	3880.8	4765.5	5840.9	6303.9	6279.7	5968.0	5845.9	5860.0
65°	1895.5	1947.0	2244.5	2947.7	4003.9	5294.1	6342.2	6502.6	6195.9	6025.5	6046.7
67.5°	1143.0	1166.1	1313.4	1786.6	2926.5	4469.9	6017.4	6749.7	6462.2	6250.4	6266.5
70°	731.3	744.5	832.2	1049.1	1654.5	3261.3	5212.3	6796.2	6785.1	6481.4	6479.4
72.5°	496.3	500.4	523.6	621.5	936.1	1853.1	3844.5	6152.6	6986.8	6779.0	6746.8
75°	363.2	385.4	422.7	439.8	531.7	926.1	2203.1	4322.6	5888.2	5979.0	5759.2
77.5°	270.4	271.3	322.8	343.0	379.4	493.3	932.1	2413.1	3655.9	3838.4	3423.8
80°	229.0	216.9	215.9	276.4	285.5	307.7	416.7	833.2	1309.4	793.9	600.2
82.5°	190.6	177.5	160.4	215.9	194.6	188.6	180.6	339.0	416.7	204.8	174.6
85°	133.1	127.1	121.1	141.2	111.0	94.8	86.7	158.4	175.5	86.7	76.7
87.5°	57.5	59.6	60.6	62.5	46.4	33.3	33.3	44.4	44.4	34.3	25.2
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)