

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: P966043

Luminaire Tested: **NAV-SB4B-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966043
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-SB4B-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19677.9 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

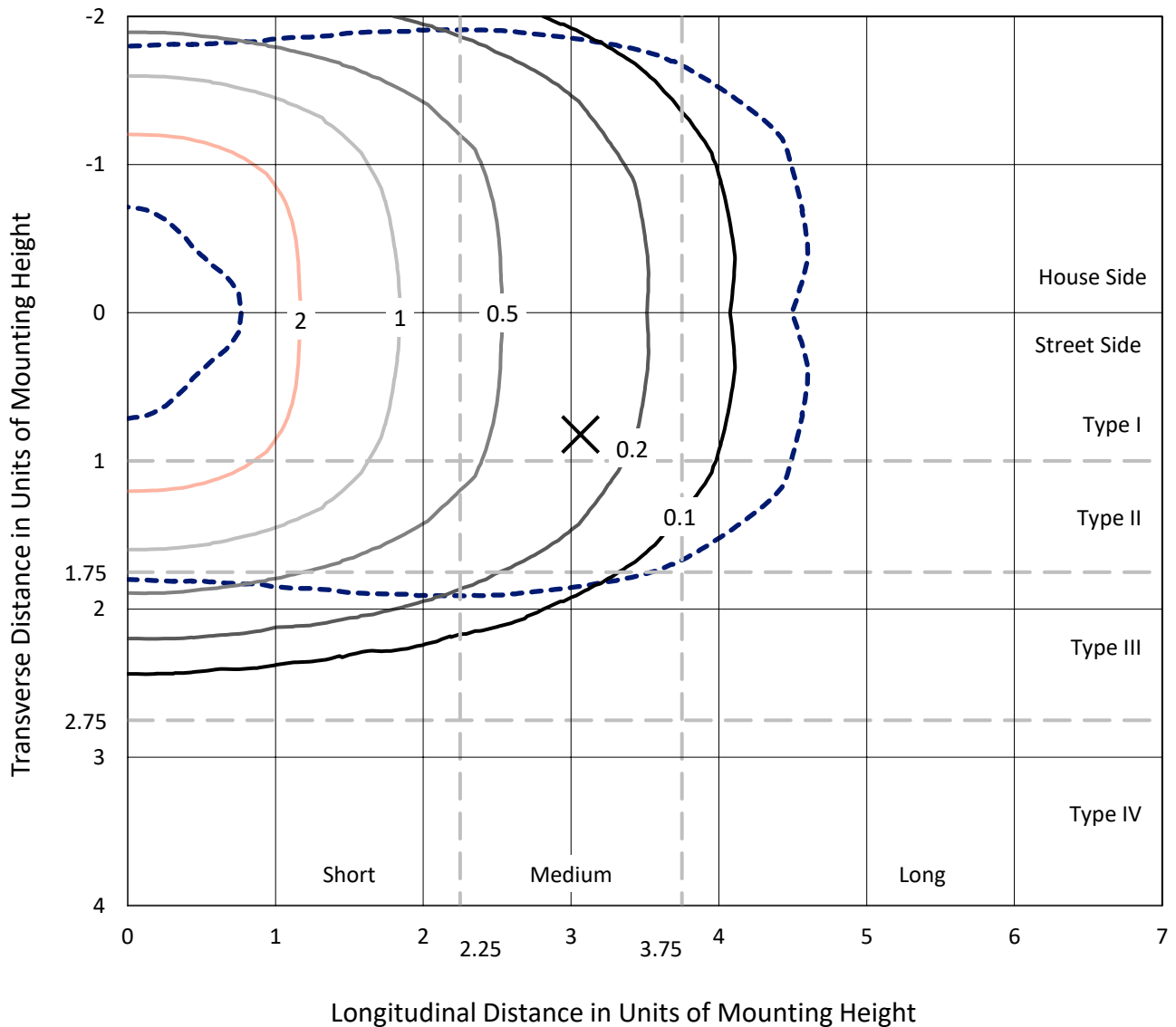
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966043
 CATALOG NUMBER: NAV-SB4B-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

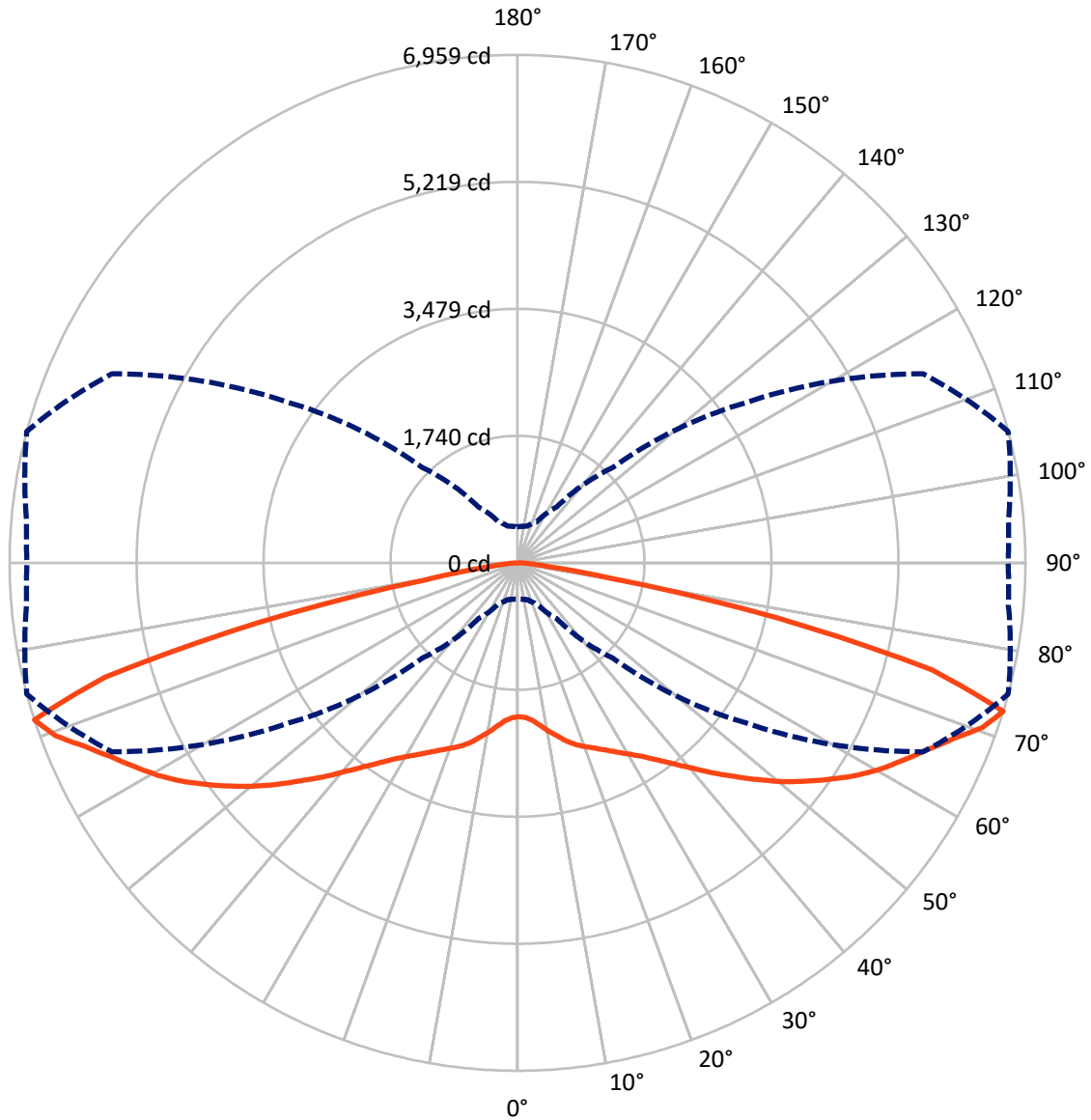
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P966043
CATALOG NUMBER: NAV-SB4B-722-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P966043
 CATALOG NUMBER: NAV-SB4B-722-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9839.0	0.0	9839.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9839.0	0.0	9839.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19677.9	0.0	19677.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	1.0
10°-20°	681.0	3.5
20°-30°	1315.9	6.7
30°-40°	2222.0	11.3
40°-50°	3523.9	17.9
50°-60°	4718.1	24.0
60°-70°	4490.1	22.8
70°-80°	2343.0	11.9
80°-90°	177.3	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°	19677.9	100.0
0°-180°	19677.9	100.0

Coefficient of Utilization

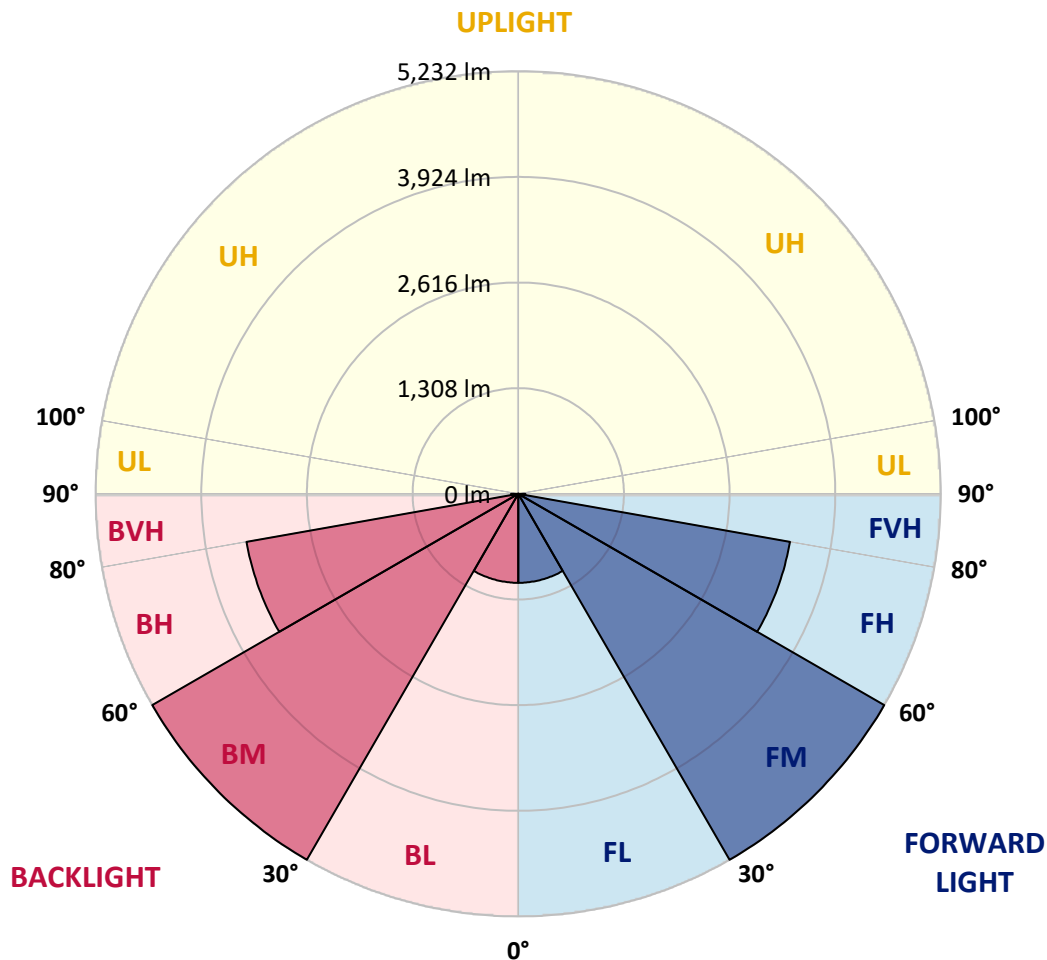


REPORT NUMBER: P966043
 CATALOG NUMBER: NAV-SB4B-722-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.7	5.6			
FM	(30°-60°)	5232.0	26.6			
FH	(60°-80°)	3416.6	17.4			G2/5000
FVH	(80°-90°)	88.7	0.5			G1/100
BL	(0°-30°)	1101.7	5.6	B3/2500		
BM	(30°-60°)	5232.0	26.6	B4/8500		
BH	(60°-80°)	3416.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	88.7	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



REPORT NUMBER: P966043
 CATALOG NUMBER: NAV-SB4B-722-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8
2.5°	2107.8	2105.9	2107.8	2109.9	2108.8	2108.8	2113.9	2116.9	2123.0	2122.0	2120.9
5°	2093.8	2092.7	2100.8	2109.9	2116.9	2128.9	2144.0	2155.1	2169.1	2172.2	2172.2
7.5°	2086.8	2083.7	2097.8	2113.9	2136.0	2166.1	2195.2	2225.4	2249.6	2257.6	2259.6
10°	2091.8	2092.7	2111.9	2142.0	2177.2	2219.4	2260.5	2311.8	2346.0	2354.0	2362.0
12.5°	2114.9	2112.9	2145.0	2193.3	2241.5	2294.8	2342.9	2399.2	2436.4	2455.5	2463.5
15°	2157.1	2153.1	2198.3	2269.7	2340.0	2402.2	2441.4	2494.6	2537.9	2562.0	2571.0
17.5°	2207.3	2209.3	2268.6	2361.1	2453.4	2523.9	2561.0	2588.1	2621.2	2642.3	2652.4
20°	2295.7	2299.8	2366.1	2475.6	2581.1	2661.4	2691.5	2681.5	2690.6	2706.6	2718.7
22.5°	2414.3	2416.3	2490.6	2609.2	2719.7	2808.1	2828.2	2787.1	2762.0	2772.9	2781.0
25°	2551.9	2565.0	2639.4	2760.9	2874.4	2958.9	2967.9	2905.6	2843.4	2846.3	2851.3
27.5°	2719.7	2731.8	2807.2	2927.7	3043.2	3116.6	3115.6	3032.2	2940.7	2917.7	2924.6
30°	2901.6	2914.6	2992.0	3116.6	3224.0	3288.4	3274.4	3174.8	3044.2	3001.0	3006.0
32.5°	3117.5	3125.6	3203.9	3328.6	3428.0	3479.3	3450.2	3327.6	3164.8	3115.6	3127.6
35°	3378.8	3390.9	3449.1	3566.7	3654.1	3696.3	3647.1	3502.4	3319.6	3264.3	3272.3
37.5°	3677.2	3669.2	3735.5	3840.0	3912.3	3938.5	3871.1	3699.3	3496.4	3431.1	3443.1
40°	3988.7	3984.7	4057.0	4157.4	4196.7	4212.8	4113.2	3925.3	3700.4	3629.9	3653.1
42.5°	4271.0	4268.0	4365.4	4476.9	4524.1	4506.1	4380.5	4165.5	3936.4	3856.0	3876.1
45°	4497.1	4493.0	4612.6	4769.3	4861.8	4831.6	4662.8	4430.8	4175.5	4092.1	4111.3
47.5°	4670.8	4672.9	4801.5	4995.3	5157.1	5168.2	4951.2	4701.0	4438.8	4344.4	4372.4
50°	4796.5	4802.4	4940.1	5155.1	5376.1	5473.6	5245.5	4978.3	4711.0	4604.5	4636.7
52.5°	4827.5	4838.6	5004.5	5256.6	5516.9	5702.7	5544.9	5244.5	4969.2	4867.7	4893.9
55°	4661.8	4683.9	4893.9	5248.5	5603.2	5853.4	5808.2	5514.8	5229.4	5125.0	5154.1
57.5°	4281.0	4312.2	4557.4	5020.4	5584.1	5956.9	6012.1	5774.0	5489.7	5389.2	5412.3
60°	3747.5	3784.7	4019.8	4525.2	5314.8	5995.0	6155.8	6026.2	5728.8	5631.3	5652.5
62.5°	2942.8	2991.0	3272.3	3865.1	4746.2	5817.2	6278.3	6254.2	5943.8	5822.2	5836.3
65°	1887.8	1939.1	2235.4	2935.7	3987.7	5272.7	6316.6	6476.3	6170.9	6001.1	6022.2
67.5°	1138.4	1161.4	1308.1	1779.3	2914.6	4451.8	5993.1	6722.5	6436.1	6225.1	6241.2
70°	728.4	741.5	828.9	1044.9	1647.7	3248.2	5191.3	6768.7	6757.6	6455.2	6453.2
72.5°	494.4	498.4	521.4	618.9	932.3	1845.6	3828.9	6127.7	6958.5	6751.6	6719.4
75°	361.7	383.8	421.0	438.1	529.5	922.3	2194.2	4305.1	5864.4	5954.8	5735.8
77.5°	269.3	270.3	321.5	341.6	377.8	491.3	928.3	2403.2	3641.0	3822.8	3410.0
80°	228.1	216.0	215.0	275.3	284.3	306.5	414.9	829.8	1304.1	790.7	597.8
82.5°	189.9	176.8	159.8	215.0	193.9	187.9	179.9	337.5	414.9	204.0	173.8
85°	132.6	126.6	120.5	140.6	110.5	94.4	86.4	157.7	174.9	86.4	76.4
87.5°	57.3	59.2	60.3	62.3	46.2	33.1	33.1	44.2	44.2	34.1	25.1
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)