

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: P966074

Luminaire Tested: **NAV-SB4B-727-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966074  
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-727-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22093.9 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

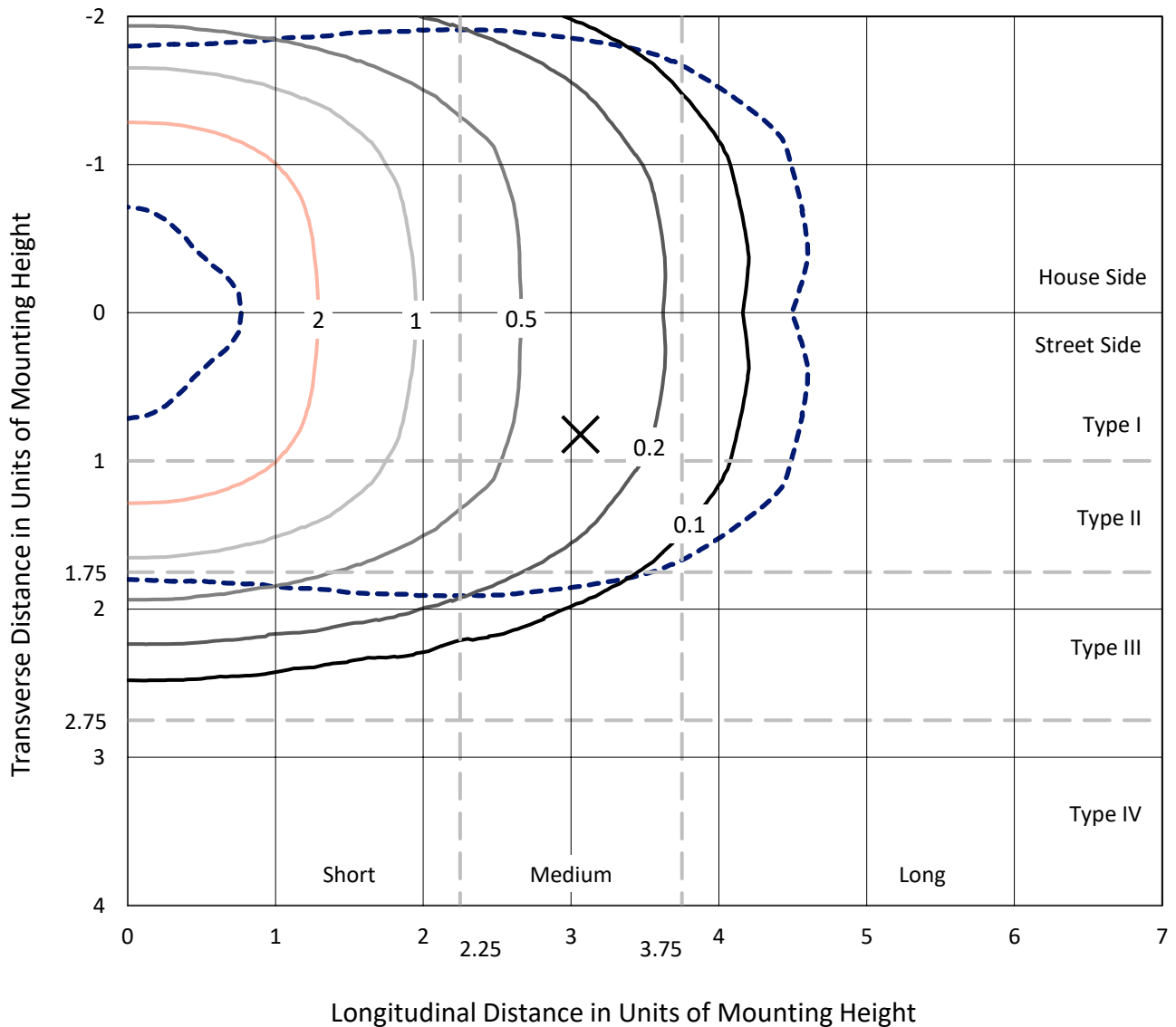
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

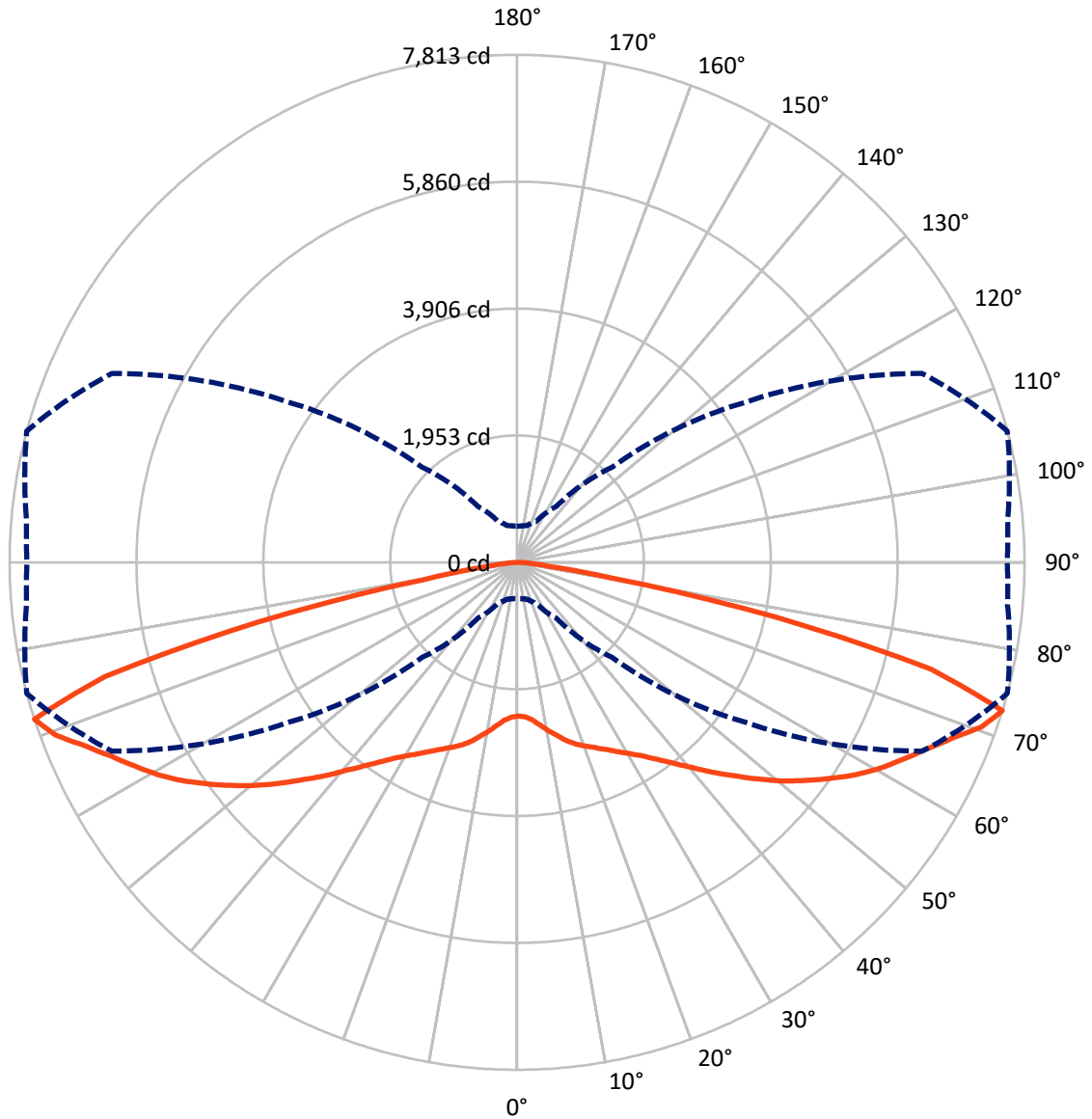
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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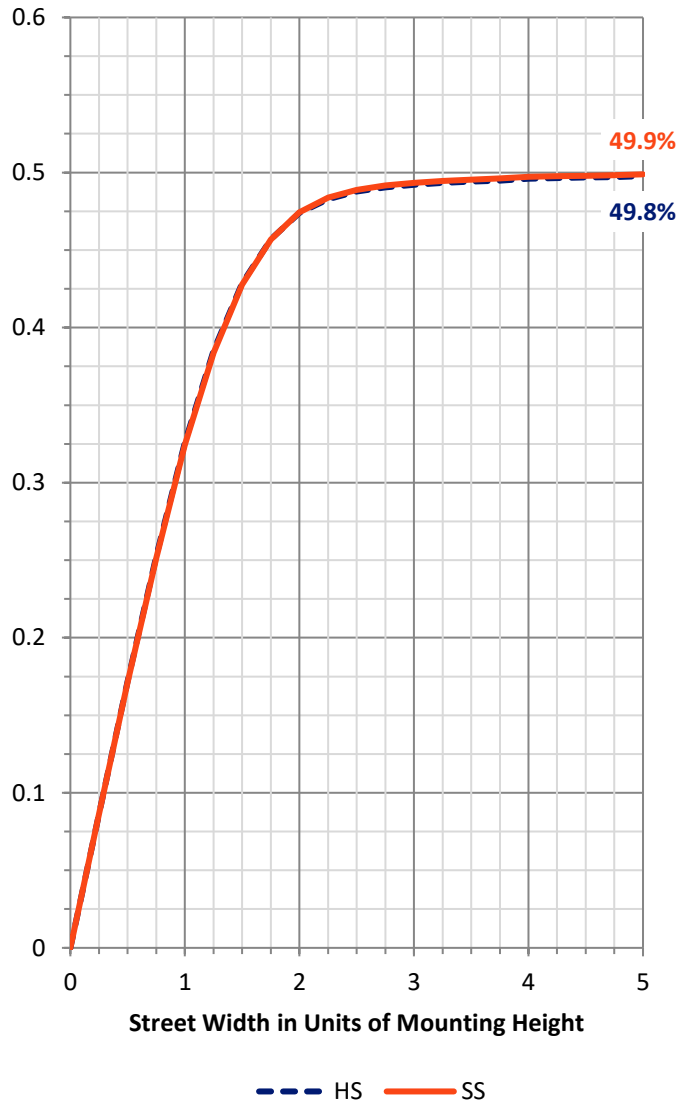
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11046.9	0.0	11046.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11046.9	0.0	11046.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22093.9	0.0	22093.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.8	1.0
10°-20°	764.6	3.5
20°-30°	1477.5	6.7
30°-40°	2494.8	11.3
40°-50°	3956.5	17.9
50°-60°	5297.3	24.0
60°-70°	5041.4	22.8
70°-80°	2630.7	11.9
80°-90°	199.1	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°	22093.9	100.0
0°-180°	22093.9	100.0

**Coefficient of Utilization**

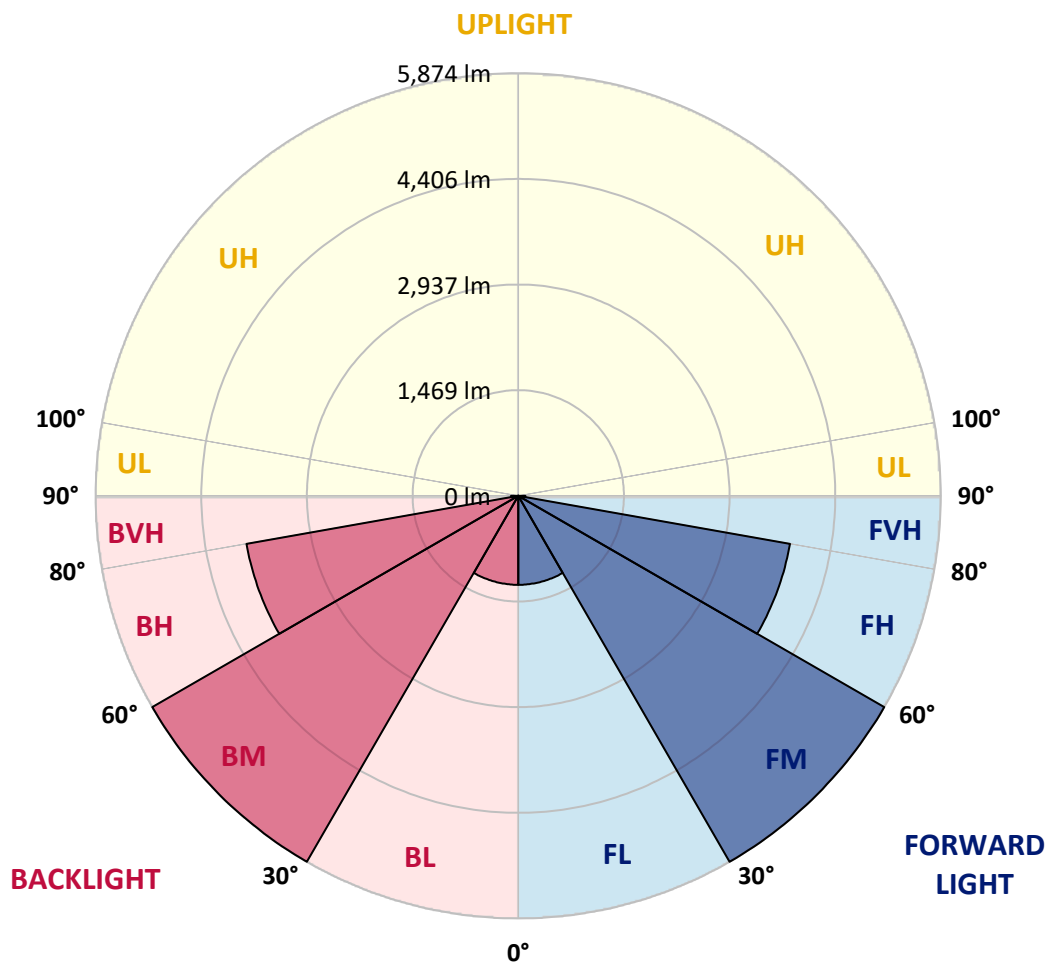


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.0	5.6			
FM (30°-60°)	5874.4	26.6			
FH (60°-80°)	3836.0	17.4			G2/5000
FVH (80°-90°)	99.6	0.5			G1/100
BL (0°-30°)	1237.0	5.6	B3/2500		
BM (30°-60°)	5874.4	26.6	B4/8500		
BH (60°-80°)	3836.0	17.4	B4/5000		G4/5000
BVH (80°-90°)	99.6	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°	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6
2.5°	2366.6	2364.4	2366.6	2368.9	2367.8	2367.8	2373.4	2376.8	2383.5	2382.4	2381.3
5°	2350.8	2349.7	2358.7	2368.9	2376.8	2390.3	2407.2	2419.7	2435.5	2438.9	2438.9
7.5°	2342.9	2339.6	2355.3	2373.4	2398.2	2432.1	2464.8	2498.6	2525.7	2534.7	2537.0
10°	2348.6	2349.7	2371.1	2405.0	2444.5	2491.9	2538.1	2595.6	2634.0	2643.1	2652.1
12.5°	2374.5	2372.3	2408.3	2462.6	2516.7	2576.4	2630.7	2693.8	2735.5	2756.9	2766.0
15°	2422.0	2417.5	2468.2	2548.3	2627.3	2697.2	2741.2	2800.9	2849.5	2876.6	2886.7
17.5°	2478.3	2480.6	2547.1	2651.0	2754.7	2833.6	2875.4	2905.9	2943.1	2966.8	2978.0
20°	2577.6	2582.1	2656.6	2779.5	2898.0	2988.2	3022.0	3010.7	3020.9	3038.9	3052.6
22.5°	2710.7	2713.0	2796.4	2929.6	3053.7	3152.9	3175.4	3129.2	3101.0	3113.4	3122.5
25°	2865.3	2879.9	2963.4	3099.9	3227.3	3322.1	3332.3	3262.4	3192.4	3195.7	3201.4
27.5°	3053.7	3067.2	3151.8	3287.2	3416.8	3499.2	3498.1	3404.4	3301.8	3275.9	3283.8
30°	3257.9	3272.5	3359.3	3499.2	3619.9	3692.2	3676.3	3564.6	3418.0	3369.5	3375.1
32.5°	3500.4	3509.4	3597.3	3737.3	3848.9	3906.5	3873.7	3736.1	3553.4	3498.1	3511.6
35°	3793.6	3807.2	3872.6	4004.6	4102.8	4150.1	4094.8	3932.4	3727.1	3665.0	3674.0
37.5°	4128.7	4119.7	4194.1	4311.5	4392.6	4422.0	4346.4	4153.5	3925.6	3852.3	3865.8
40°	4478.3	4473.8	4555.1	4667.8	4711.8	4730.0	4618.2	4407.3	4154.6	4075.6	4101.6
42.5°	4795.4	4792.0	4901.3	5026.6	5079.6	5059.3	4918.3	4676.9	4419.7	4329.5	4352.0
45°	5049.2	5044.6	5178.9	5354.8	5458.6	5424.8	5235.3	4974.7	4688.1	4594.6	4616.0
47.5°	5244.3	5246.6	5391.0	5608.7	5790.3	5802.7	5559.0	5278.1	4983.8	4877.7	4909.2
50°	5385.3	5392.1	5546.6	5788.1	6036.2	6145.6	5889.5	5589.5	5289.4	5169.9	5206.0
52.5°	5420.3	5432.7	5618.8	5902.0	6194.1	6402.8	6225.7	5888.4	5579.4	5465.4	5494.7
55°	5234.2	5259.0	5494.7	5892.9	6291.1	6572.0	6521.3	6191.8	5871.5	5754.1	5786.9
57.5°	4806.6	4841.6	5116.8	5636.9	6269.7	6688.2	6750.2	6482.9	6163.6	6050.9	6076.8
60°	4207.6	4249.3	4513.3	5080.7	5967.3	6731.1	6911.6	6766.0	6432.2	6322.7	6346.4
62.5°	3304.1	3358.2	3674.0	4339.6	5328.9	6531.4	7049.2	7022.1	6673.6	6537.0	6552.8
65°	2119.6	2177.1	2509.9	3296.2	4477.2	5920.0	7092.1	7271.5	6928.5	6737.8	6761.5
67.5°	1278.1	1304.0	1468.7	1997.8	3272.5	4998.4	6728.8	7547.8	7226.2	6989.4	7007.4
70°	817.8	832.5	930.6	1173.2	1850.0	3647.0	5828.7	7599.7	7587.3	7247.7	7245.4
72.5°	555.0	559.5	585.5	694.8	1046.8	2072.2	4299.0	6880.0	7812.9	7580.5	7544.4
75°	406.1	430.9	472.6	491.8	594.5	1035.6	2463.7	4833.7	6584.4	6686.0	6440.1
77.5°	302.3	303.4	361.0	383.6	424.1	551.7	1042.3	2698.3	4088.0	4292.2	3828.6
80°	256.0	242.5	241.4	309.0	319.3	344.1	465.9	931.7	1464.2	887.8	671.2
82.5°	213.2	198.5	179.4	241.4	217.7	210.9	201.9	379.0	465.9	229.0	195.2
85°	148.9	142.2	135.4	158.0	124.1	106.1	97.0	177.1	196.3	97.0	85.7
87.5°	64.3	66.5	67.6	69.9	51.9	37.2	37.2	49.6	49.6	38.3	28.2
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)