

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: P967650

Luminaire Tested: **NAV-SB5A-727-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-727-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22561.3 lumens  
Efficiency: N/A  
Efficacy: 159.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

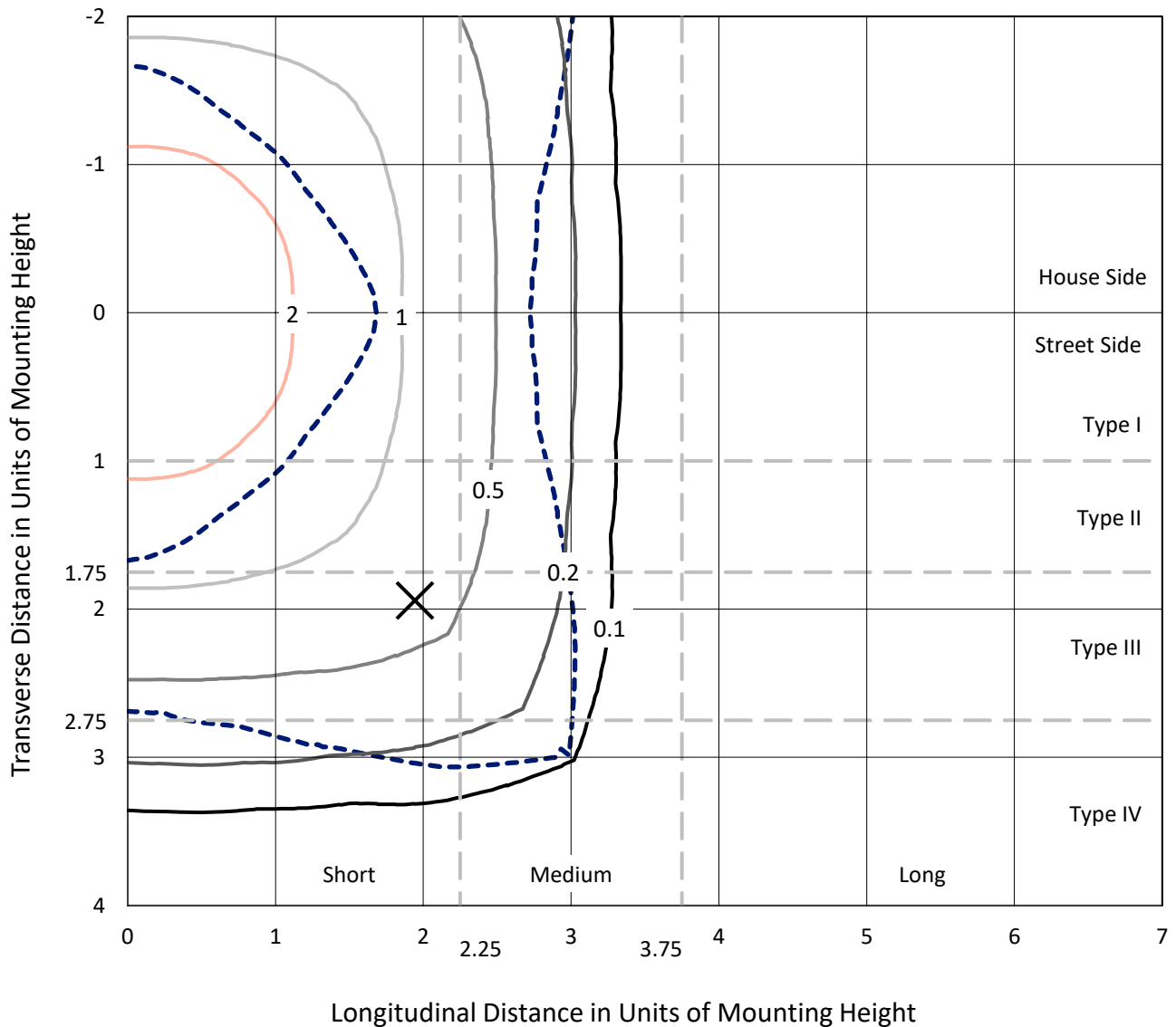
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

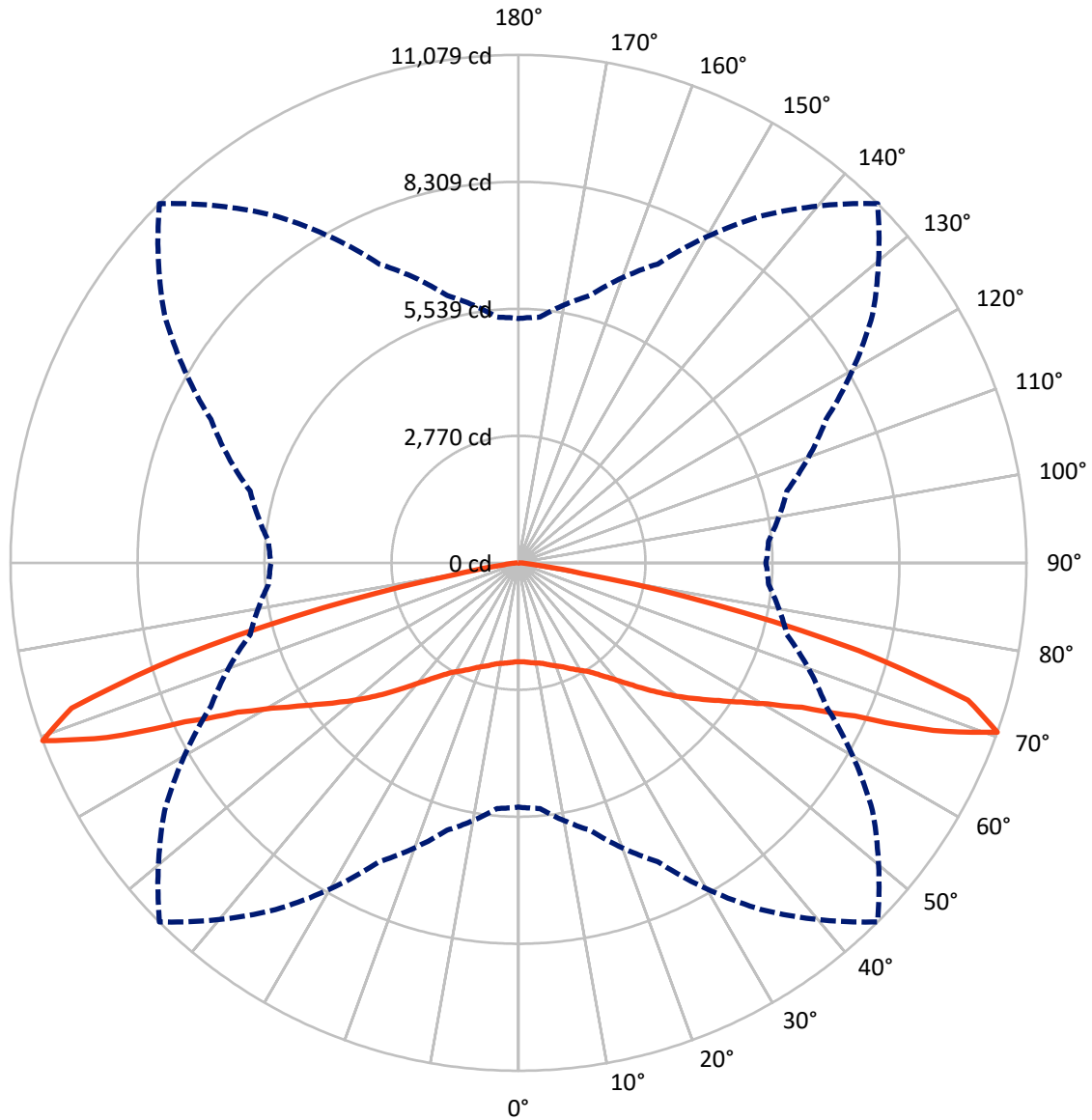
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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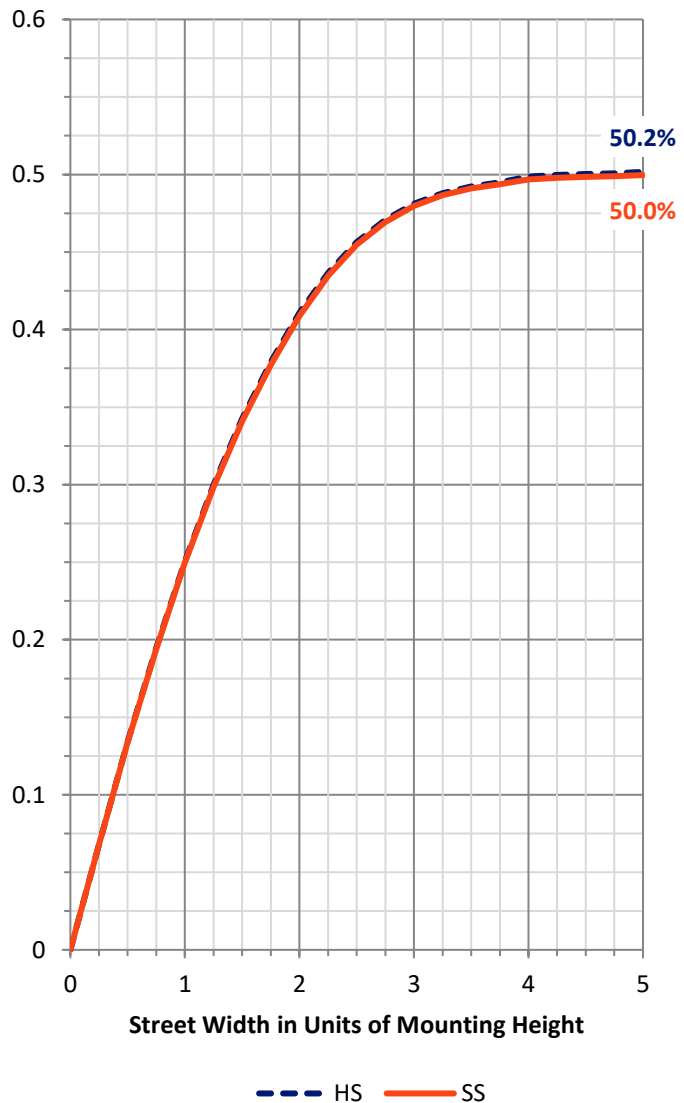
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11280.6	0.0	11280.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11280.6	0.0	11280.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22561.3	0.0	22561.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.0	0.9
10°-20°	651.0	2.9
20°-30°	1163.5	5.2
30°-40°	1886.0	8.4
40°-50°	3072.0	13.6
50°-60°	4683.8	20.8
60°-70°	6967.9	30.9
70°-80°	3797.8	16.8
80°-90°	129.3	0.6
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°	22561.3	100.0
0°-180°	22561.3	100.0

**Coefficient of Utilization**



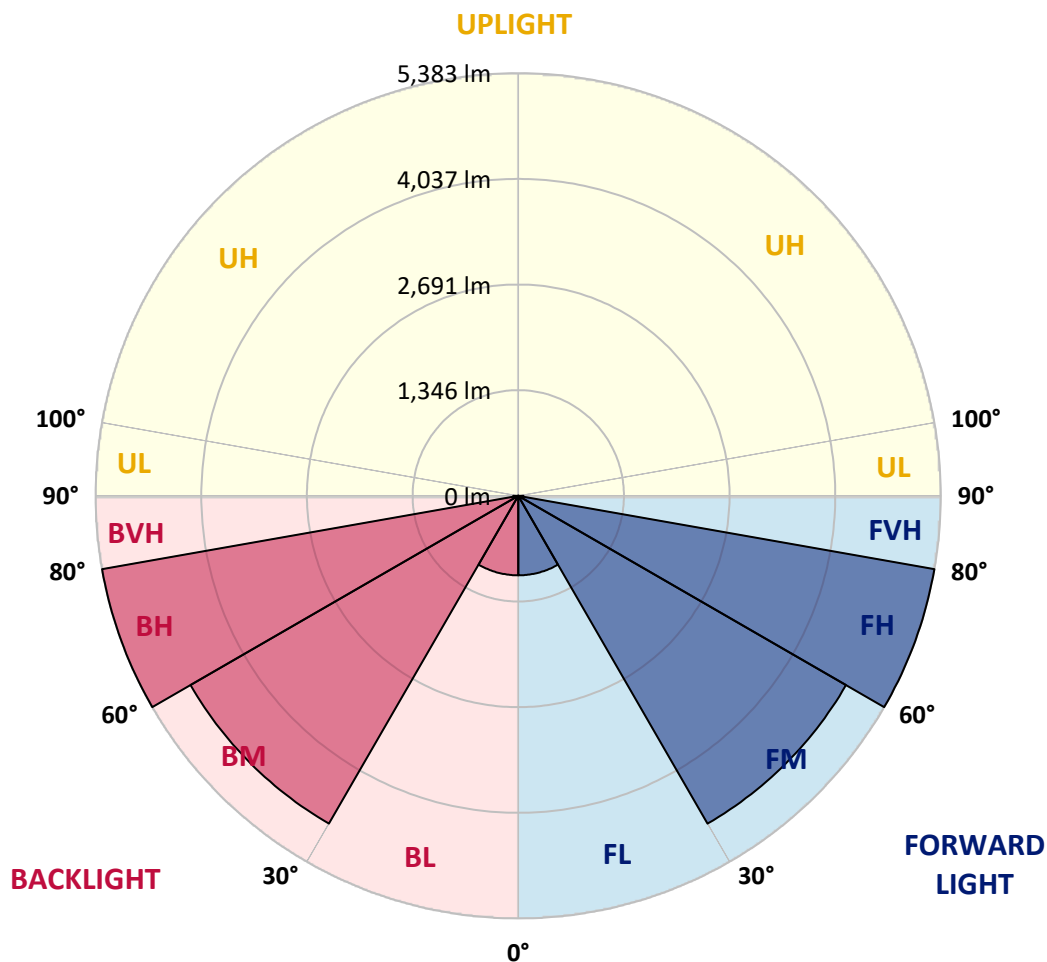
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.2	4.5			
FM (30°-60°)	4820.9	21.4			
FH (60°-80°)	5382.8	23.9			G3/7500
FVH (80°-90°)	64.7	0.3			G1/100
BL (0°-30°)	1012.2	4.5	B3/2500		
BM (30°-60°)	4820.9	21.4	B3/5000		
BH (60°-80°)	5382.8	23.9	B5		G3/7500
BVH (80°-90°)	64.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2161.1	2161.1	2161.1	2161.1	2161.1	2161.1	2161.1	2161.1	2161.1	2161.1	2161.1
2.5°	2171.4	2173.6	2169.1	2166.8	2164.5	2161.1	2162.2	2168.0	2172.5	2171.4	2172.5
5°	2189.5	2191.8	2188.3	2187.1	2182.6	2181.5	2181.5	2187.1	2190.6	2188.3	2189.5
7.5°	2209.8	2213.3	2207.5	2206.4	2204.2	2201.9	2200.8	2206.4	2209.8	2209.8	2209.8
10°	2229.1	2232.4	2227.9	2224.6	2222.3	2222.3	2220.0	2224.6	2230.2	2229.1	2229.1
12.5°	2249.5	2251.7	2247.2	2245.0	2245.0	2248.3	2245.0	2247.2	2251.7	2249.5	2248.3
15°	2274.4	2275.5	2274.4	2277.8	2283.5	2294.8	2284.6	2282.4	2284.6	2279.0	2279.0
17.5°	2308.4	2310.7	2315.2	2323.1	2331.1	2351.5	2333.3	2327.7	2327.7	2316.3	2316.3
20°	2350.3	2353.7	2360.5	2374.1	2384.3	2403.5	2385.4	2377.5	2374.1	2359.3	2359.3
22.5°	2394.5	2400.1	2410.3	2428.4	2446.6	2464.7	2446.6	2432.9	2422.8	2403.5	2402.4
25°	2445.4	2452.2	2468.1	2497.5	2522.4	2548.6	2527.0	2499.8	2479.4	2452.2	2451.1
27.5°	2517.9	2525.9	2545.1	2581.4	2613.0	2635.7	2615.3	2580.2	2551.9	2519.0	2517.9
30°	2619.9	2627.8	2650.4	2689.0	2710.5	2725.2	2711.6	2684.5	2650.4	2613.0	2613.0
32.5°	2751.3	2761.5	2786.4	2822.6	2827.2	2829.4	2824.9	2811.3	2786.4	2741.1	2742.2
35°	2917.8	2929.0	2957.4	2986.8	2982.3	2986.8	2980.1	2975.6	2957.4	2905.3	2905.3
37.5°	3121.6	3135.3	3164.7	3187.3	3176.0	3170.3	3171.5	3172.6	3162.4	3104.6	3104.6
40°	3358.4	3376.5	3398.0	3421.8	3402.6	3385.6	3396.8	3406.0	3396.8	3338.0	3338.0
42.5°	3601.8	3628.0	3650.6	3684.6	3668.7	3647.2	3663.0	3673.3	3654.0	3590.6	3595.1
45°	3872.6	3897.6	3927.0	3977.9	3966.6	3944.0	3966.6	3968.9	3936.0	3861.3	3869.2
47.5°	4152.4	4178.4	4222.6	4290.5	4286.0	4261.1	4290.5	4274.7	4232.8	4143.4	4137.6
50°	4417.4	4453.6	4521.6	4616.8	4625.8	4595.3	4634.8	4604.3	4534.1	4422.0	4419.7
52.5°	4666.6	4705.2	4812.7	4941.8	4974.7	4935.1	4988.3	4935.1	4829.7	4685.9	4672.3
55°	4928.3	4971.2	5099.3	5268.1	5333.8	5304.3	5354.1	5273.7	5124.2	4949.7	4925.9
57.5°	5236.3	5262.3	5415.3	5615.8	5726.8	5733.5	5756.2	5620.3	5439.1	5240.8	5213.7
60°	5570.5	5606.7	5773.2	6013.4	6189.0	6245.5	6221.7	6020.1	5809.5	5581.8	5545.6
62.5°	5998.6	6038.3	6237.6	6525.4	6802.8	6943.2	6850.4	6558.2	6297.7	6024.6	5977.1
65°	6353.2	6397.3	6757.5	7270.6	7775.8	8057.8	7824.5	7286.5	6817.6	6432.5	6369.0
67.5°	6096.1	6150.4	6715.6	7658.0	8914.1	9755.7	8957.2	7773.5	6854.9	6332.8	6254.7
70°	5328.1	5379.1	6038.3	7190.2	9234.6	11078.6	9427.2	7402.0	6059.8	5475.3	5397.1
72.5°	3537.4	3701.6	4368.8	5750.6	8245.8	10251.8	8327.4	5633.9	4052.7	3529.4	3415.0
75°	1173.4	1304.8	1760.1	2981.2	5522.9	7667.1	5257.8	2637.9	1394.3	1003.6	949.1
77.5°	295.6	340.9	470.1	852.9	2203.0	4365.3	1983.3	696.6	379.5	265.1	236.8
80°	143.8	158.6	226.5	284.3	551.7	1387.5	517.6	267.3	179.0	138.2	126.9
82.5°	79.3	80.5	128.0	160.8	205.0	359.1	212.9	156.3	103.1	83.8	83.8
85°	48.7	47.6	68.0	86.1	86.1	128.0	102.0	86.1	58.9	52.1	54.3
87.5°	19.3	19.3	24.9	27.2	23.8	32.8	26.0	28.3	22.7	21.5	22.7
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)