

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: P968179

Luminaire Tested: **NAV-SB5B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27354.2 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

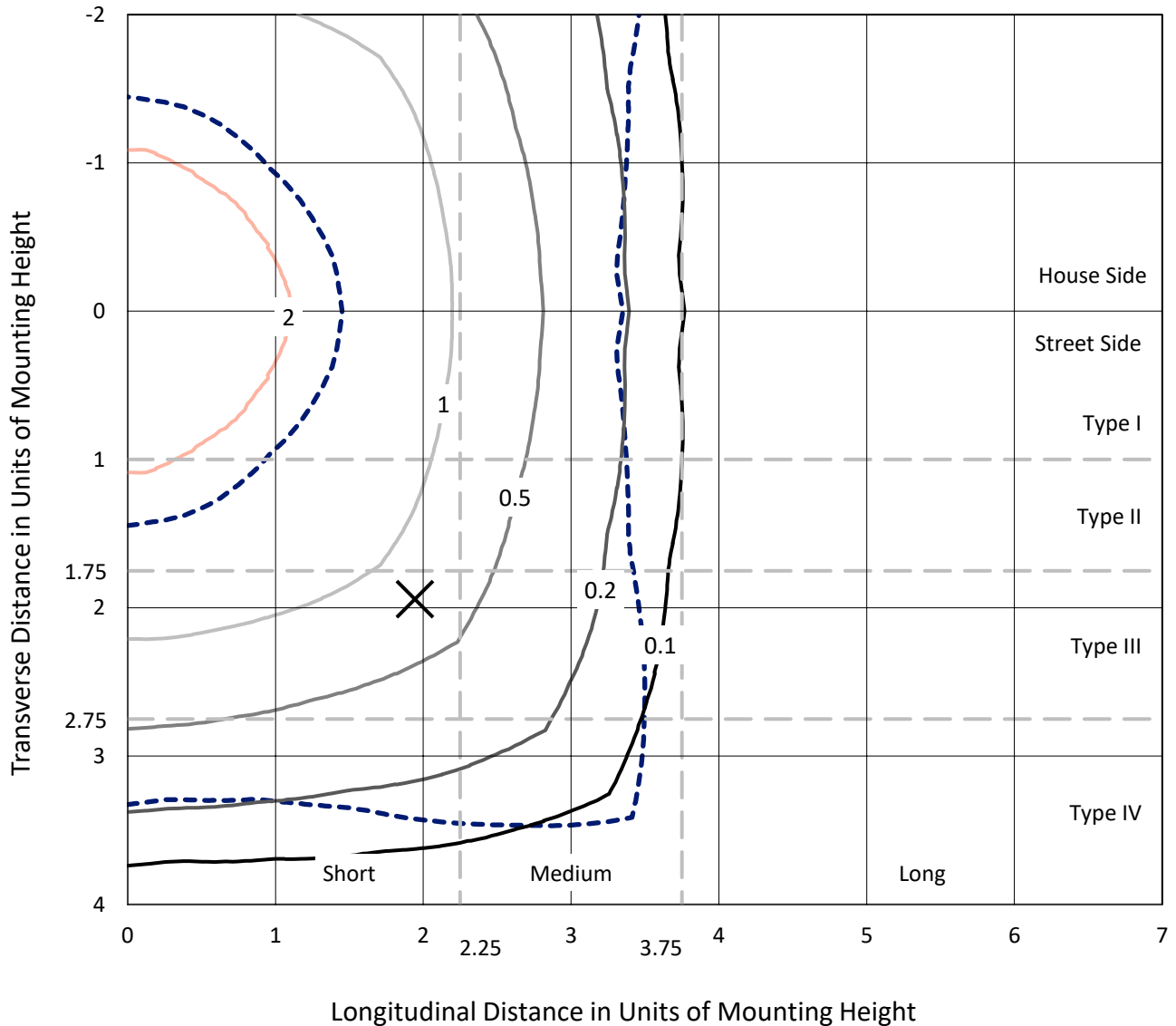
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

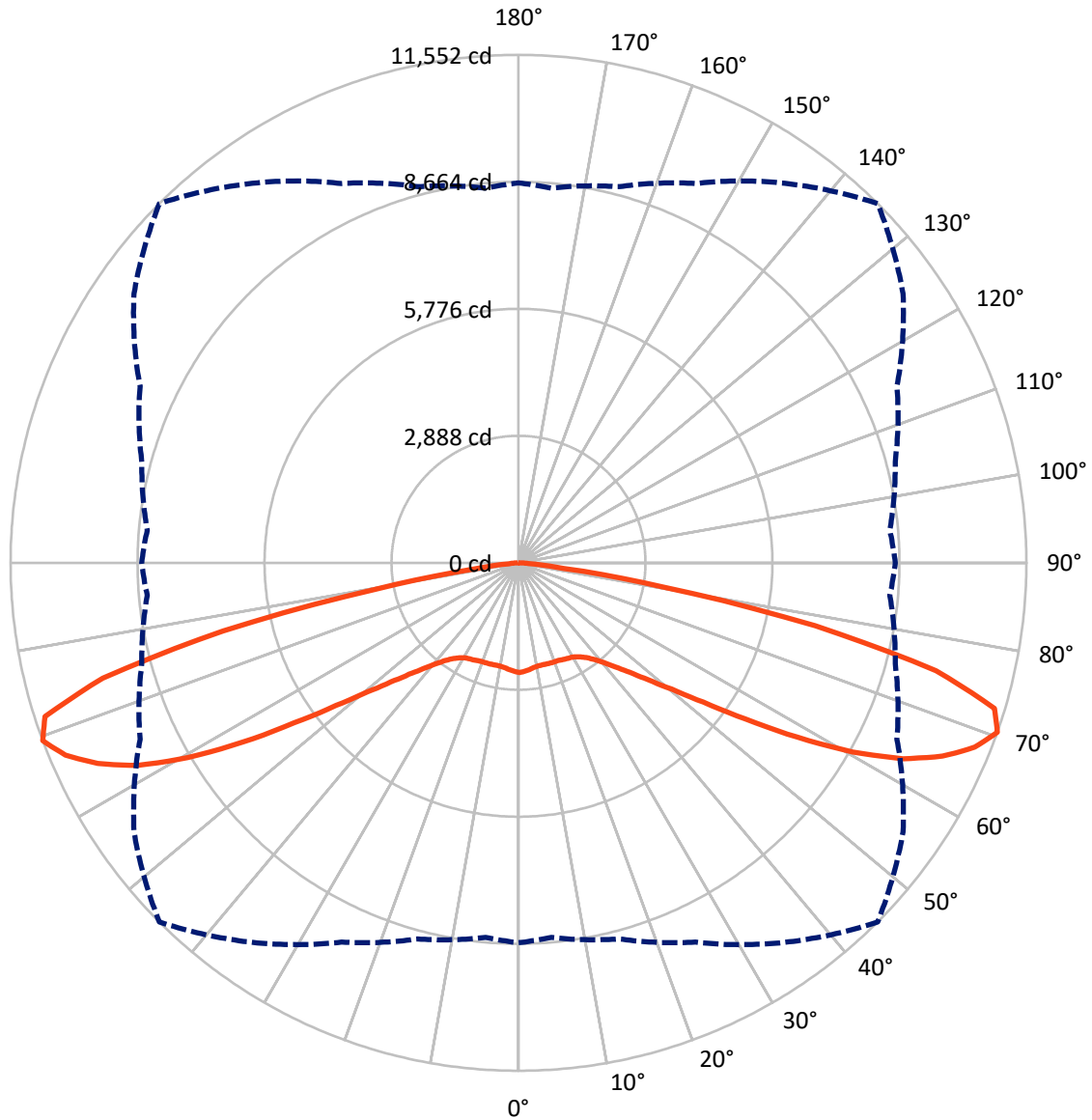
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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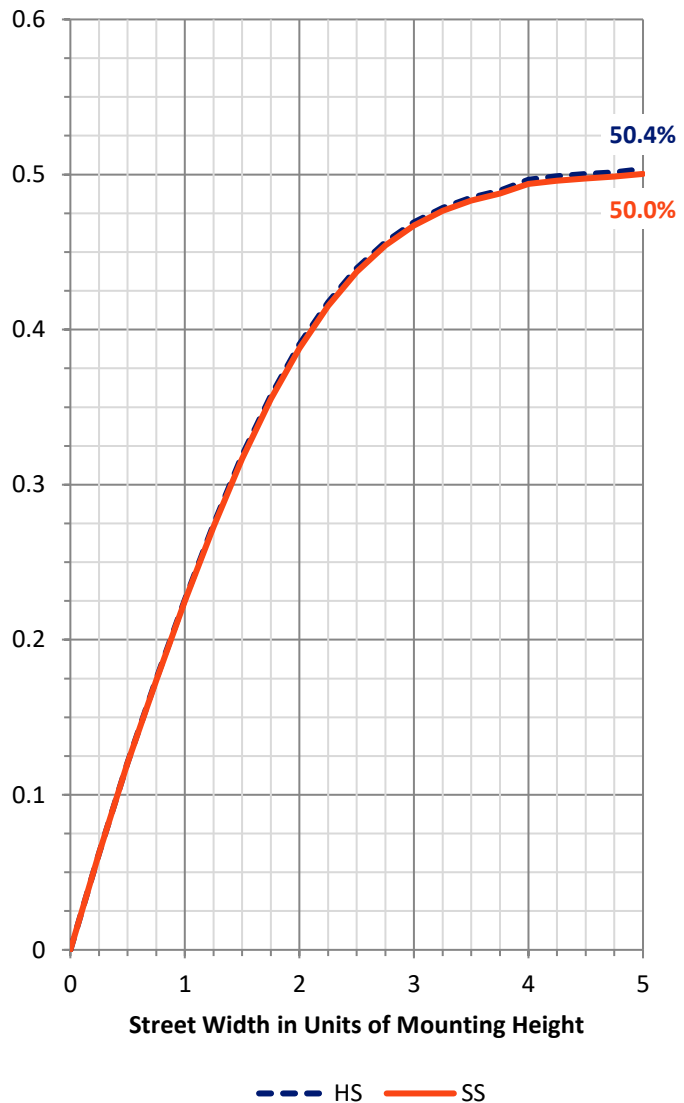
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13677.1	0.0	13677.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13677.1	0.0	13677.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	27354.2	0.0	27354.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	0.8
10°-20°	681.6	2.5
20°-30°	1134.2	4.1
30°-40°	1715.3	6.3
40°-50°	2850.4	10.4
50°-60°	5378.5	19.7
60°-70°	9081.8	33.2
70°-80°	5967.7	21.8
80°-90°	312.6	1.1
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°	27354.2	100.0
0°-180°	27354.2	100.0

Coefficient of Utilization

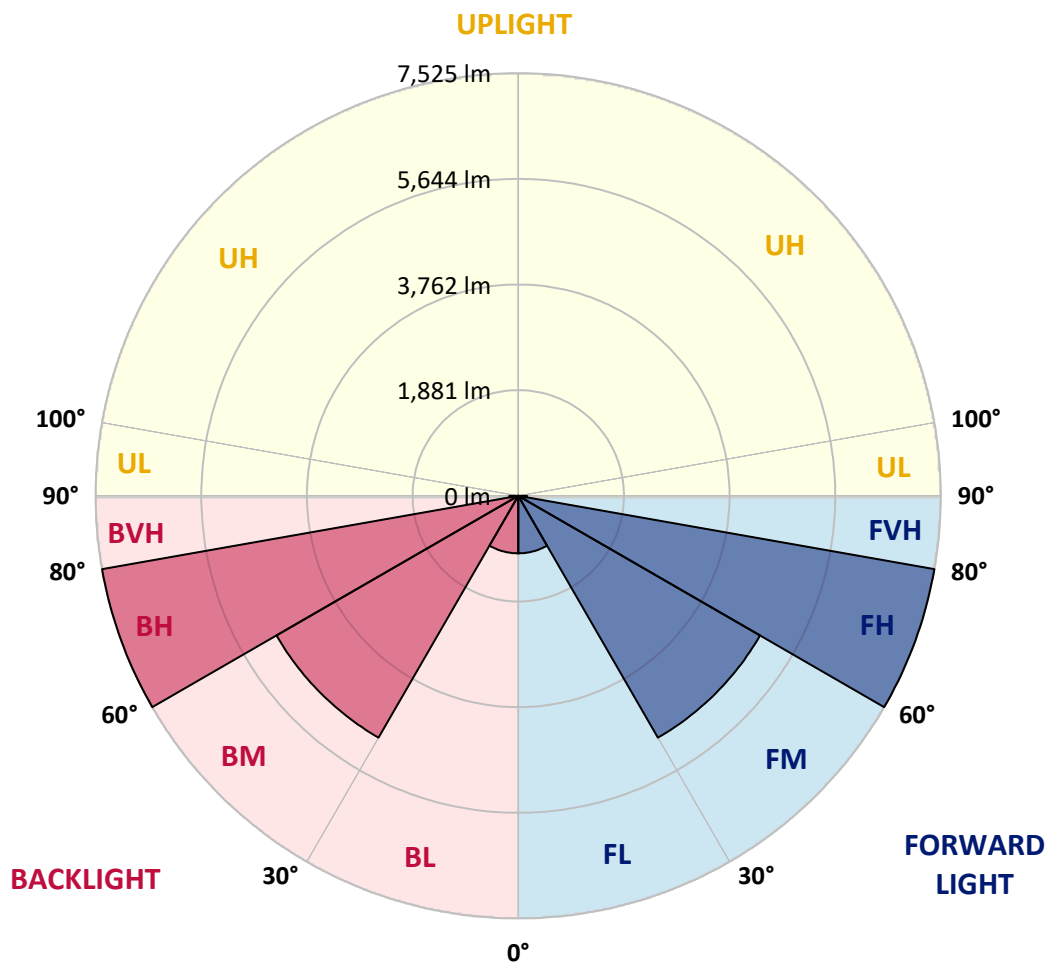


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.9	3.7			
FM (30°-60°)	4972.1	18.2			
FH (60°-80°)	7524.8	27.5			G4/12000
FVH (80°-90°)	156.3	0.6			G2/225
BL (0°-30°)	1023.9	3.7	B3/2500		
BM (30°-60°)	4972.1	18.2	B3/5000		
BH (60°-80°)	7524.8	27.5	B5		G4/12000
BVH (80°-90°)	156.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3
2.5°	2479.6	2486.8	2483.9	2478.1	2478.1	2473.9	2478.1	2481.0	2485.3	2488.2	2486.8
5°	2446.9	2452.6	2451.2	2446.9	2448.3	2444.1	2446.9	2451.2	2454.1	2455.5	2455.5
7.5°	2418.5	2424.1	2421.4	2414.2	2414.2	2410.0	2411.4	2415.6	2419.9	2421.4	2421.4
10°	2411.4	2417.1	2408.5	2397.2	2392.9	2387.2	2388.7	2392.9	2401.4	2405.7	2405.7
12.5°	2414.2	2418.5	2410.0	2392.9	2388.7	2382.9	2382.9	2387.2	2398.6	2404.2	2405.7
15°	2422.7	2427.0	2414.2	2395.7	2391.4	2387.2	2385.8	2391.4	2404.2	2414.2	2415.6
17.5°	2438.4	2442.7	2422.7	2397.2	2391.4	2392.9	2391.4	2395.7	2415.6	2434.1	2434.1
20°	2452.6	2455.5	2428.4	2397.2	2391.4	2392.9	2391.4	2400.0	2425.6	2451.2	2452.6
22.5°	2456.8	2459.7	2434.1	2407.1	2402.8	2404.2	2402.8	2411.4	2435.5	2461.1	2461.1
25°	2458.3	2462.6	2442.7	2421.4	2428.4	2431.3	2428.4	2429.9	2448.3	2471.1	2469.6
27.5°	2479.6	2485.3	2466.8	2448.3	2452.6	2451.2	2455.5	2459.7	2473.9	2496.7	2491.0
30°	2523.7	2528.0	2512.3	2493.8	2491.0	2481.0	2493.8	2508.1	2523.7	2543.6	2539.3
32.5°	2596.2	2604.7	2584.8	2565.0	2552.1	2546.4	2556.4	2580.5	2601.9	2623.2	2614.7
35°	2717.1	2722.7	2704.3	2667.3	2644.5	2644.5	2653.1	2684.4	2718.5	2745.5	2735.5
37.5°	2887.6	2894.8	2862.1	2818.0	2783.9	2783.9	2795.3	2828.0	2879.1	2917.6	2903.3
40°	3095.3	3105.2	3063.9	3018.5	2985.7	2980.1	2994.3	3031.2	3079.6	3128.0	3112.3
42.5°	3345.5	3356.9	3302.9	3263.0	3237.5	3237.5	3244.5	3278.7	3322.7	3382.5	3378.2
45°	3665.4	3685.3	3611.4	3571.5	3547.4	3553.1	3557.4	3587.2	3627.0	3695.2	3692.4
47.5°	4046.4	4066.4	3988.2	3946.9	3942.7	3969.6	3952.6	3973.9	3995.2	4073.5	4050.7
50°	4478.6	4512.8	4458.8	4455.9	4464.4	4514.2	4474.4	4485.8	4461.6	4511.3	4481.5
52.5°	5007.5	5057.3	5047.4	5064.4	5159.7	5262.0	5171.0	5131.3	5040.2	5055.9	5003.3
55°	5648.8	5724.1	5738.4	5840.8	6056.8	6265.8	6072.5	5911.8	5718.5	5682.9	5627.5
57.5°	6378.2	6437.9	6506.2	6715.2	7118.9	7490.0	7118.9	6763.5	6459.2	6386.7	6335.5
60°	7163.0	7236.9	7302.3	7610.8	8210.9	8732.7	8199.5	7635.0	7232.7	7134.6	7049.2
62.5°	8006.2	8101.4	8146.9	8489.6	9189.0	9811.8	9199.1	8515.1	8068.7	7963.4	7878.2
65°	8815.1	8893.3	8944.6	9309.9	9978.2	10602.3	10023.7	9349.7	8890.4	8752.6	8684.3
67.5°	9191.9	9234.5	9359.7	9773.4	10478.7	11190.9	10598.1	9817.4	9304.2	9062.5	9065.4
70°	8640.2	8553.5	8855.0	9517.5	10538.3	11552.1	10674.9	9497.5	8869.1	8476.8	8570.5
72.5°	6676.7	6527.5	7050.7	8183.8	9855.9	11321.7	9924.2	8247.9	7376.3	6580.1	6777.7
75°	3632.7	3463.5	4185.8	5618.9	7859.7	9813.2	8040.3	5779.6	4660.7	3605.6	3840.3
77.5°	1025.1	961.1	1544.1	2718.5	4727.5	6890.0	4909.4	2778.2	1831.3	1086.3	1207.1
80°	314.3	304.2	412.4	819.0	2007.6	3300.0	1929.4	828.9	524.6	331.3	349.7
82.5°	186.2	170.7	204.7	298.6	511.9	1036.5	497.6	311.4	250.2	167.8	182.0
85°	106.6	99.5	120.8	145.0	172.0	220.4	143.6	147.9	133.7	89.6	93.8
87.5°	44.1	39.8	46.9	45.5	39.8	51.1	38.4	45.5	54.0	35.6	32.7
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)