

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: P965543

Luminaire Tested: **NAV-SB4A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17910.8 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

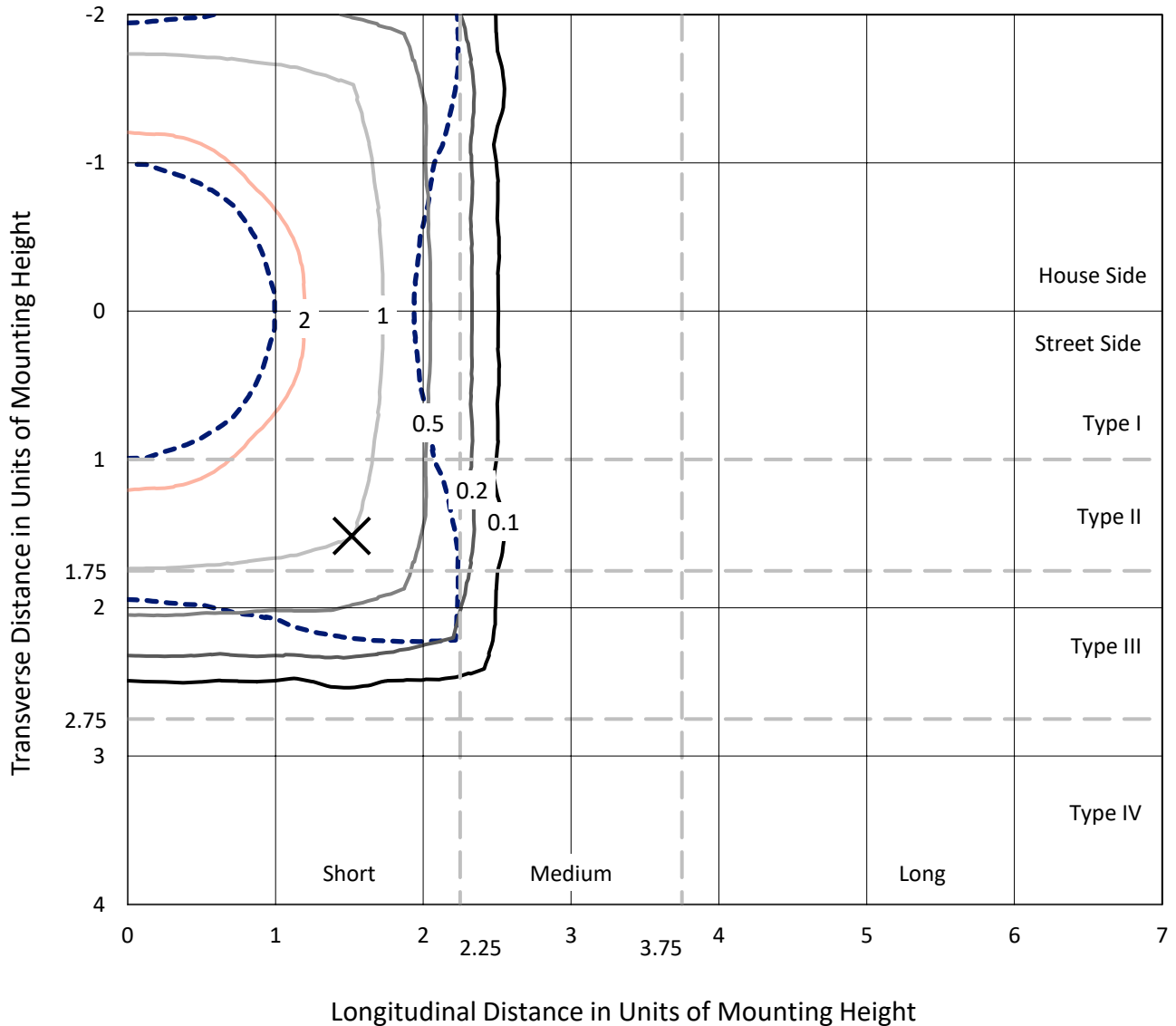
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

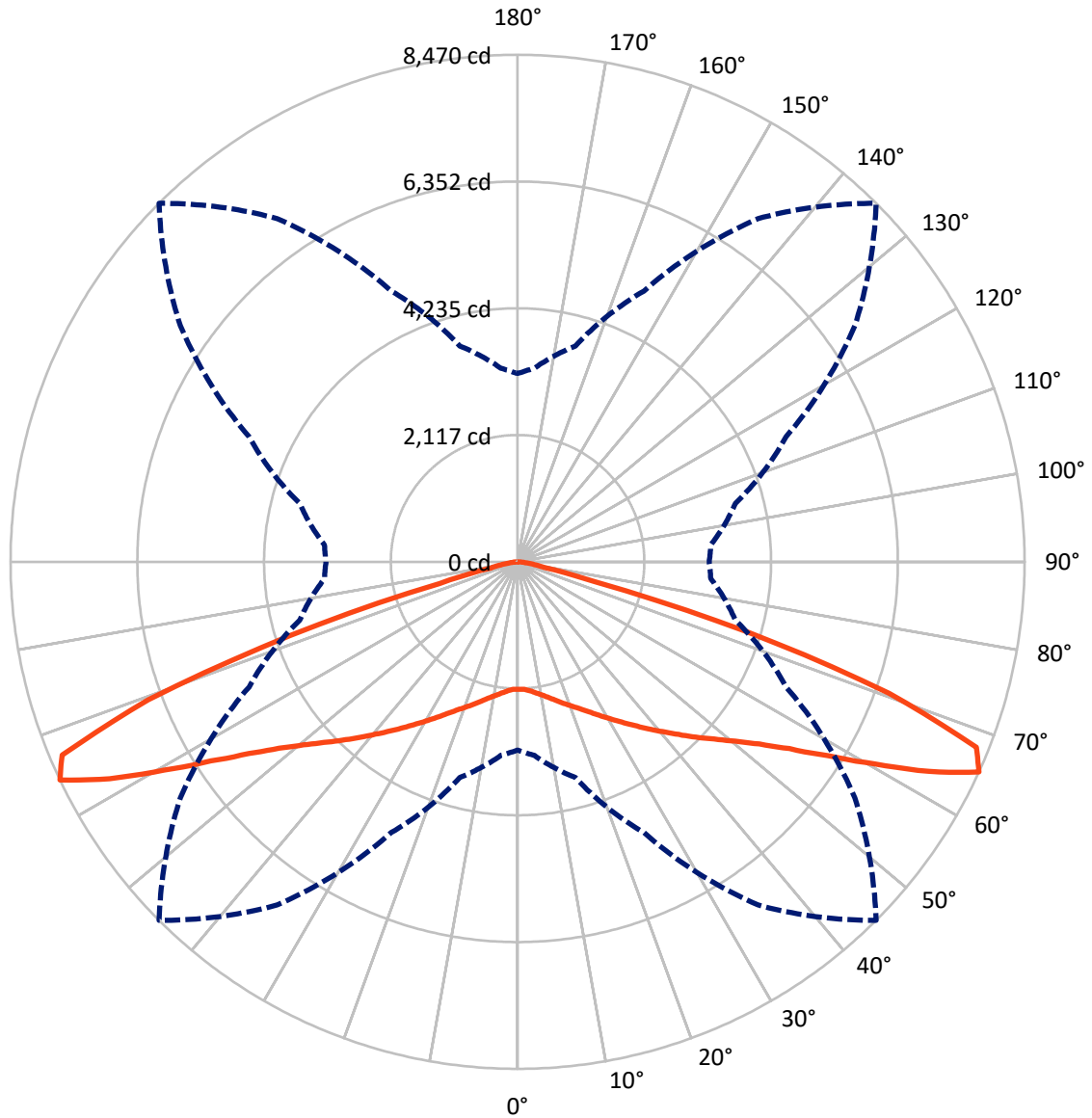
× Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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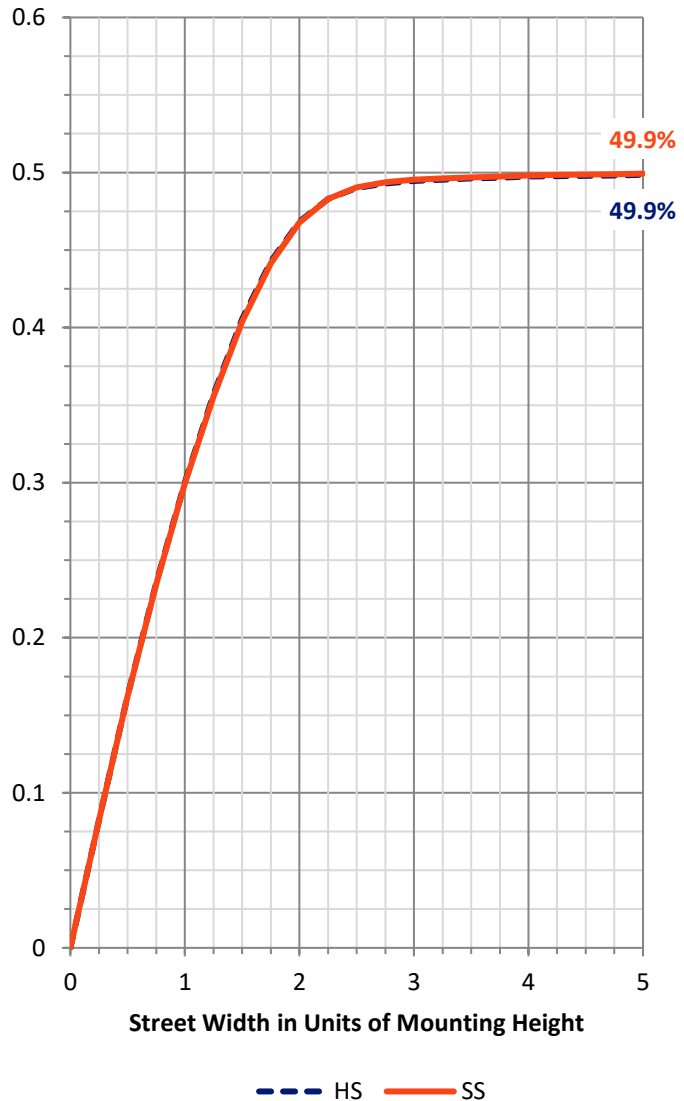
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8955.4	0.0	8955.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8955.4	0.0	8955.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	17910.8	0.0	17910.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	1.2
10°-20°	686.4	3.8
20°-30°	1296.1	7.2
30°-40°	2122.3	11.8
40°-50°	3290.6	18.4
50°-60°	4860.9	27.1
60°-70°	4627.1	25.8
70°-80°	746.7	4.2
80°-90°	70.4	0.4
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°	17910.8	100.0
0°-180°	17910.8	100.0

Coefficient of Utilization



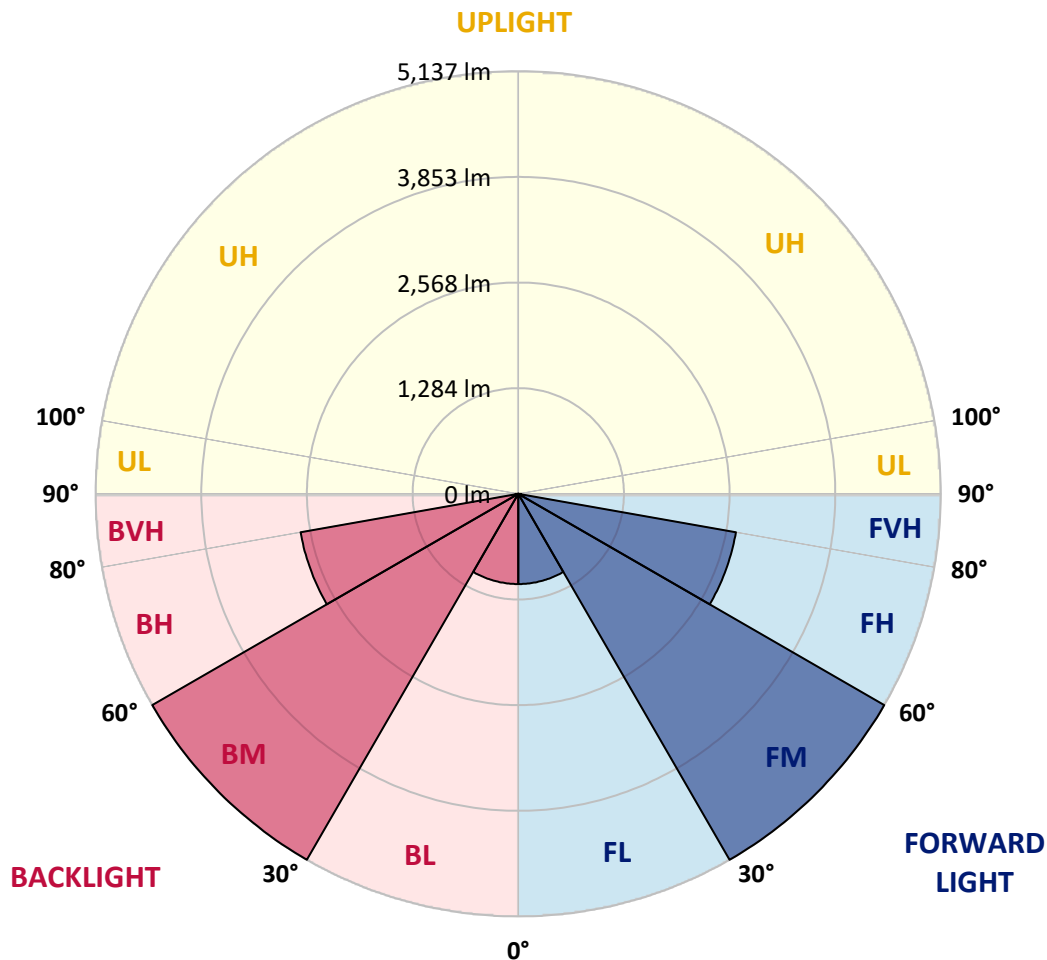
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.4	6.1			
FM (30°-60°)	5136.9	28.7			
FH (60°-80°)	2686.9	15.0			G2/5000
FVH (80°-90°)	35.2	0.2			G1/100
BL (0°-30°)	1096.4	6.1	B3/2500		
BM (30°-60°)	5136.9	28.7	B4/8500		
BH (60°-80°)	2686.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	35.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6
2.5°	2145.9	2138.8	2144.2	2139.7	2136.1	2132.5	2134.3	2140.5	2143.3	2144.2	2144.2
5°	2174.7	2168.4	2171.2	2171.2	2164.8	2163.1	2163.9	2168.4	2173.8	2173.8	2173.8
7.5°	2221.5	2215.1	2221.5	2217.8	2212.5	2210.6	2209.8	2213.4	2221.5	2221.5	2218.7
10°	2278.1	2270.9	2274.5	2272.6	2266.4	2263.7	2262.8	2268.1	2275.4	2274.5	2272.6
12.5°	2340.1	2332.0	2336.5	2331.1	2329.3	2326.5	2326.5	2325.7	2330.1	2326.5	2328.4
15°	2409.3	2403.8	2405.7	2402.1	2404.8	2403.0	2395.7	2392.1	2394.0	2388.6	2389.5
17.5°	2491.1	2478.4	2484.7	2483.0	2483.0	2486.5	2474.9	2470.4	2473.9	2468.6	2473.0
20°	2585.4	2572.9	2575.5	2571.9	2567.4	2571.0	2556.7	2560.2	2562.9	2559.3	2567.4
22.5°	2688.7	2672.6	2671.7	2673.4	2663.6	2664.5	2654.5	2663.6	2669.0	2659.1	2669.0
25°	2794.8	2777.6	2789.3	2784.9	2772.3	2775.0	2767.8	2776.8	2781.2	2768.7	2783.1
27.5°	2907.1	2895.4	2906.2	2908.8	2893.6	2904.4	2893.6	2901.7	2906.2	2887.3	2901.7
30°	3038.3	3026.6	3036.5	3043.7	3025.7	3042.8	3033.8	3039.2	3040.0	3017.6	3031.1
32.5°	3181.2	3163.3	3188.4	3192.0	3172.2	3192.9	3181.2	3188.4	3192.9	3162.3	3182.9
35°	3355.5	3333.1	3361.8	3357.3	3340.3	3357.3	3346.5	3357.3	3368.0	3331.2	3353.7
37.5°	3543.3	3520.0	3550.5	3542.4	3526.3	3537.9	3531.6	3538.8	3555.9	3516.4	3540.7
40°	3750.1	3721.3	3762.6	3748.2	3732.9	3731.1	3734.7	3739.2	3761.7	3717.7	3732.0
42.5°	3971.1	3940.5	4002.5	3980.1	3958.6	3944.1	3955.8	3964.8	3986.3	3936.9	3963.0
45°	4223.6	4188.6	4269.4	4242.5	4208.3	4178.6	4197.6	4211.0	4242.5	4183.1	4213.7
47.5°	4502.2	4462.6	4549.0	4540.9	4485.1	4420.4	4463.6	4502.2	4525.6	4453.6	4477.9
50°	4774.4	4743.9	4857.2	4867.0	4798.7	4707.9	4768.2	4826.6	4832.9	4738.5	4750.2
52.5°	5029.7	4999.1	5163.5	5225.6	5164.5	5056.6	5120.5	5179.7	5132.2	5009.9	5013.5
55°	5233.6	5208.5	5417.8	5577.8	5598.5	5509.6	5547.3	5545.5	5389.1	5201.4	5207.6
57.5°	5283.1	5279.5	5543.7	5882.5	6098.1	6108.9	6034.4	5843.8	5506.8	5254.4	5238.2
60°	5058.5	5080.9	5444.0	6041.6	6616.7	6855.7	6533.1	5989.4	5372.9	5022.5	4981.2
62.5°	4386.3	4445.5	4883.2	5847.4	7035.4	7714.8	6933.0	5768.4	4823.0	4365.6	4338.6
65°	3143.5	3246.8	3730.3	4990.1	6997.7	8469.7	6875.5	4949.7	3766.2	3238.7	3200.0
67.5°	1426.2	1531.2	1942.0	3416.6	6082.9	8264.8	6068.5	3452.6	2039.0	1536.7	1514.2
70°	516.7	534.6	666.8	1367.8	3887.5	6585.2	4053.8	1377.6	709.0	569.7	562.5
72.5°	312.7	315.4	343.3	489.7	1350.6	3998.0	1408.1	505.9	350.4	310.9	316.3
75°	198.6	196.8	244.5	299.2	479.0	1348.9	502.4	299.2	243.5	221.9	223.8
77.5°	142.9	147.4	175.3	223.8	302.0	457.5	296.5	213.9	175.3	143.8	146.5
80°	106.9	109.7	127.6	174.4	212.1	284.8	188.7	158.2	132.1	89.9	92.6
82.5°	77.3	77.3	83.5	126.7	129.4	153.6	102.4	111.4	87.1	63.8	63.8
85°	45.8	44.9	52.1	75.4	67.4	56.6	46.7	68.3	54.8	39.6	38.6
87.5°	16.2	17.1	16.2	21.5	17.9	15.3	14.3	18.9	15.3	13.5	12.6
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)