

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: P967682

Luminaire Tested: **NAV-SB5A-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967682
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-SB5A-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24338.6 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

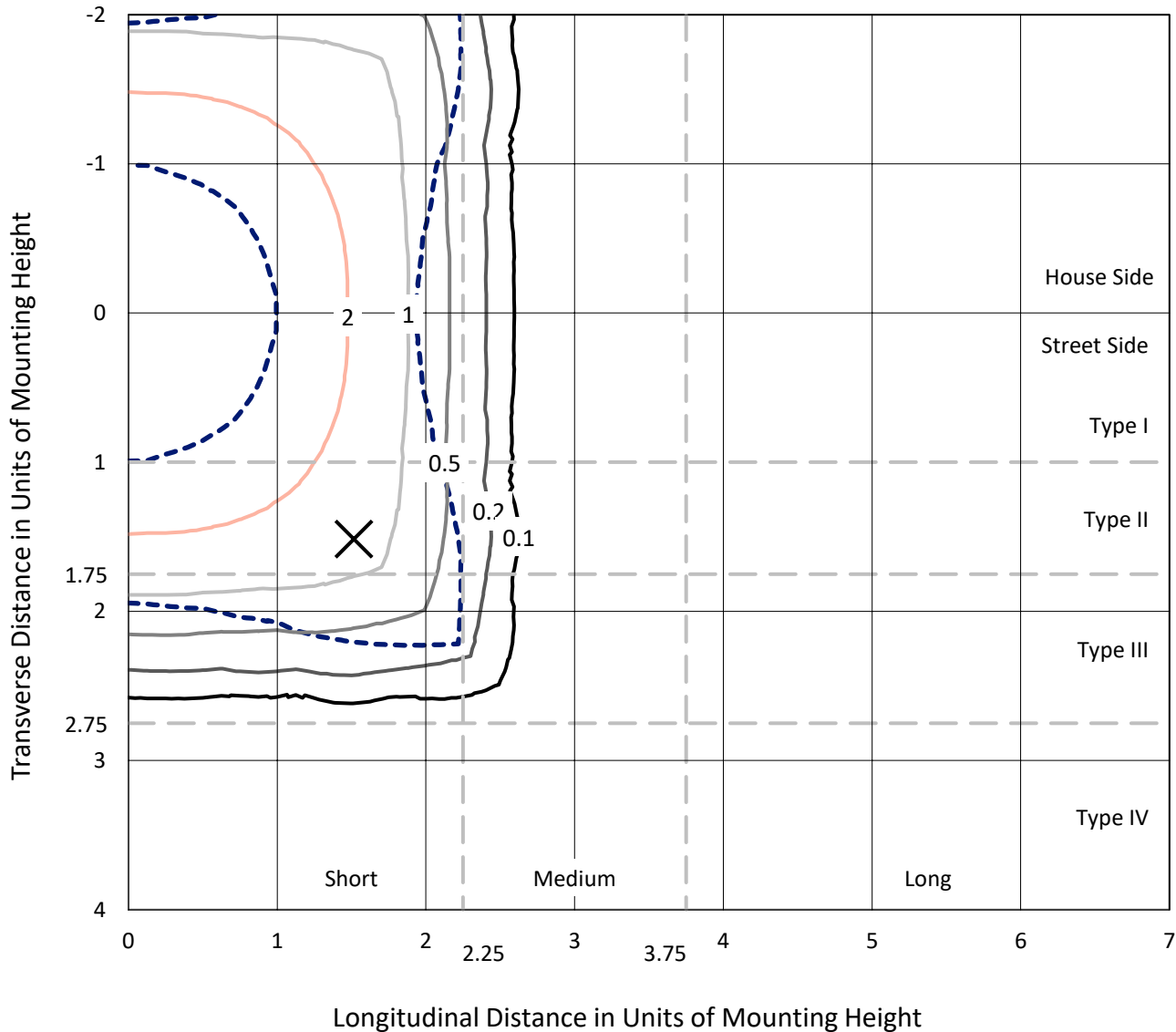
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

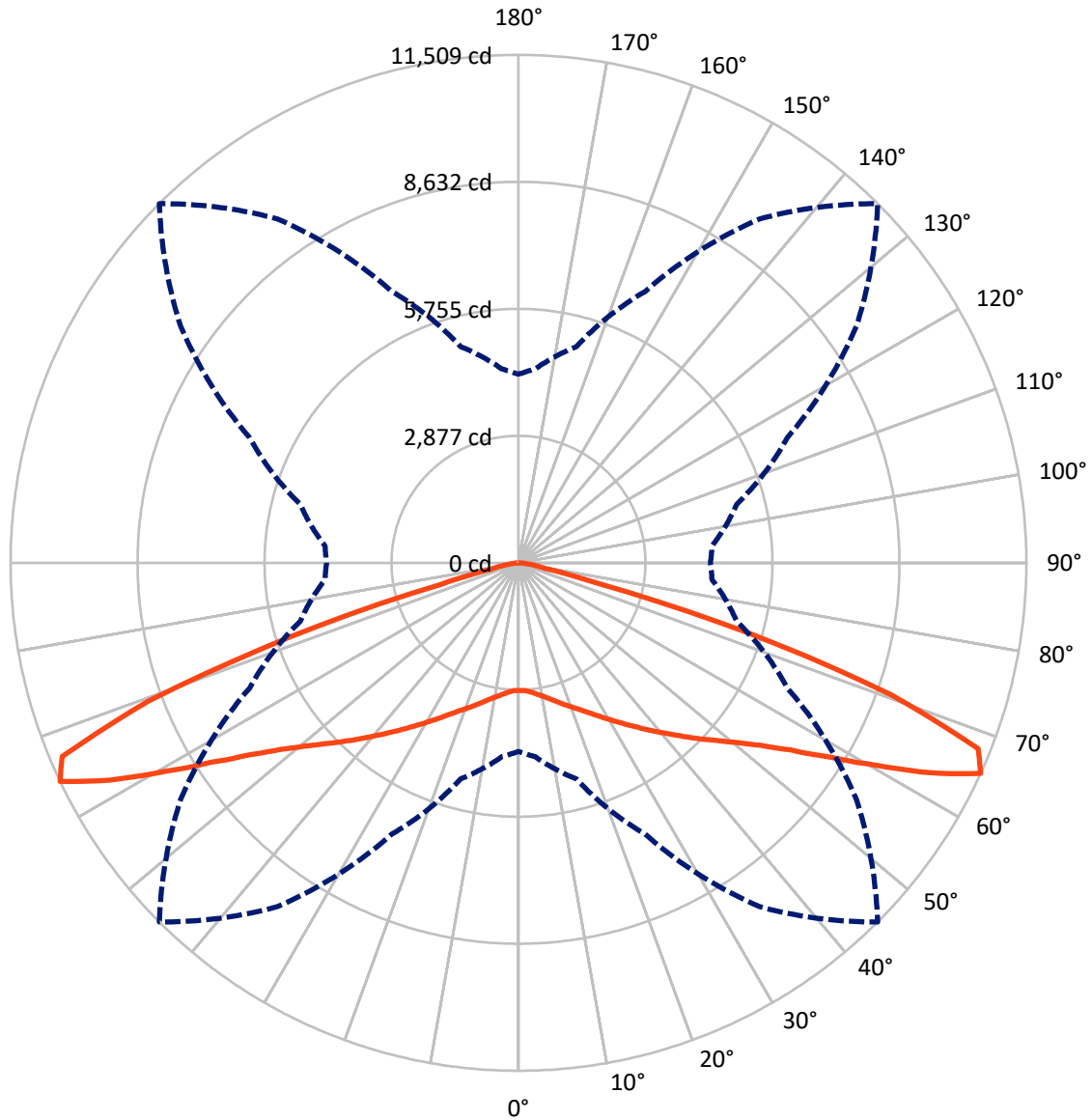
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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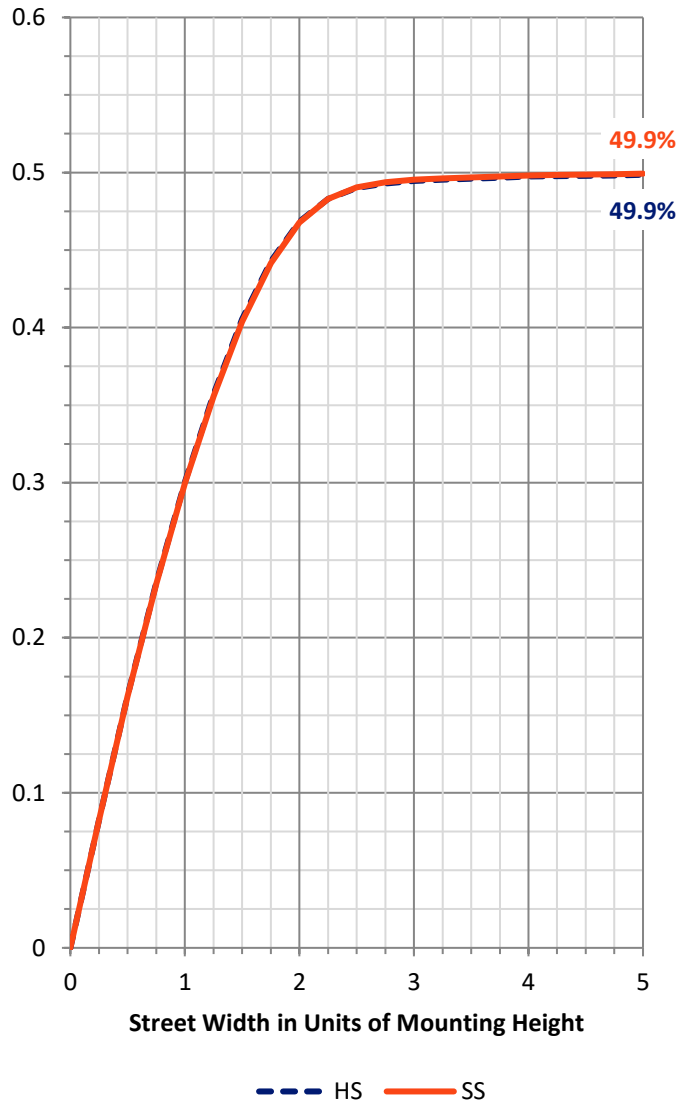
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12169.3	0.0	12169.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12169.3	0.0	12169.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24338.6	0.0	24338.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	1.2
10°-20°	932.8	3.8
20°-30°	1761.2	7.2
30°-40°	2883.9	11.8
40°-50°	4471.5	18.4
50°-60°	6605.4	27.1
60°-70°	6287.7	25.8
70°-80°	1014.6	4.2
80°-90°	95.7	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°	24338.6	100.0
0°-180°	24338.6	100.0

Coefficient of Utilization



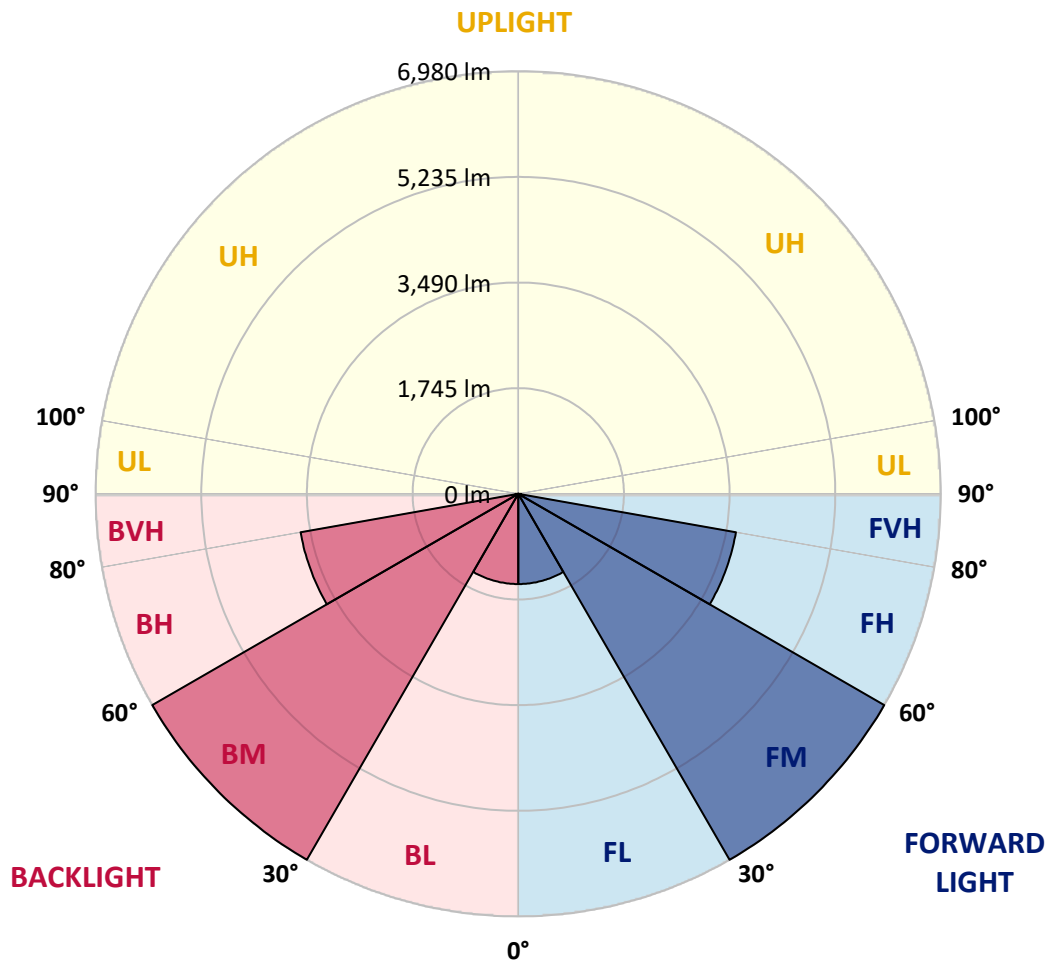
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.9	6.1			
FM (30°-60°)	6980.4	28.7			
FH (60°-80°)	3651.2	15.0			G2/5000
FVH (80°-90°)	47.8	0.2			G1/100
BL (0°-30°)	1489.9	6.1	B3/2500		
BM (30°-60°)	6980.4	28.7	B4/8500		
BH (60°-80°)	3651.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	47.8	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°	2896.5	2896.5	2896.5	2896.5	2896.5	2896.5	2896.5	2896.5	2896.5	2896.5	2896.5
2.5°	2916.1	2906.3	2913.7	2907.5	2902.6	2897.8	2900.2	2908.7	2912.4	2913.7	2913.7
5°	2955.2	2946.6	2950.3	2950.3	2941.7	2939.3	2940.5	2946.6	2953.9	2953.9	2953.9
7.5°	3018.6	3010.1	3018.6	3013.8	3006.4	3004.0	3002.7	3007.7	3018.6	3018.6	3015.0
10°	3095.6	3085.9	3090.7	3088.2	3079.7	3076.0	3074.8	3082.2	3091.9	3090.7	3088.2
12.5°	3179.9	3168.9	3174.9	3167.7	3165.2	3161.5	3161.5	3160.3	3166.4	3161.5	3164.0
15°	3273.8	3266.6	3269.0	3264.1	3267.8	3265.3	3255.6	3250.7	3253.1	3245.8	3247.0
17.5°	3385.0	3367.9	3376.5	3374.0	3374.0	3378.9	3363.0	3356.9	3361.8	3354.5	3360.6
20°	3513.2	3496.1	3499.8	3494.9	3488.8	3493.7	3474.1	3479.1	3482.6	3477.8	3488.8
22.5°	3653.6	3631.7	3630.4	3632.9	3619.5	3620.7	3607.3	3619.5	3626.8	3613.3	3626.8
25°	3797.7	3774.6	3790.4	3784.3	3767.2	3770.9	3761.1	3773.3	3779.4	3762.4	3781.8
27.5°	3950.3	3934.5	3949.1	3952.8	3932.1	3946.8	3932.1	3943.1	3949.1	3923.5	3943.1
30°	4128.7	4112.8	4126.2	4136.0	4111.6	4134.7	4122.5	4129.9	4131.2	4100.6	4118.9
32.5°	4322.8	4298.4	4332.6	4337.5	4310.6	4338.7	4322.8	4332.6	4338.7	4297.2	4325.3
35°	4559.7	4529.2	4568.3	4562.2	4539.0	4562.2	4547.5	4562.2	4576.8	4526.8	4557.3
37.5°	4814.9	4783.2	4824.7	4813.7	4791.8	4807.7	4799.0	4808.9	4832.1	4778.3	4811.2
40°	5095.8	5056.7	5112.9	5093.3	5072.6	5070.2	5075.1	5081.1	5111.7	5051.8	5071.4
42.5°	5396.2	5354.7	5439.0	5408.4	5379.1	5359.6	5375.4	5387.7	5416.9	5349.8	5385.2
45°	5739.4	5691.7	5801.6	5765.0	5718.6	5678.3	5703.9	5722.3	5765.0	5684.4	5726.0
47.5°	6117.9	6064.2	6181.4	6170.4	6094.6	6006.8	6065.4	6117.9	6149.7	6052.0	6084.9
50°	6487.9	6446.4	6600.3	6613.7	6520.8	6397.5	6479.3	6558.8	6567.3	6439.0	6454.9
52.5°	6834.7	6793.2	7016.6	7100.9	7017.9	6871.4	6958.0	7038.7	6973.9	6807.8	6812.8
55°	7111.9	7077.7	7362.3	7579.6	7607.7	7486.8	7538.1	7535.6	7323.2	7068.0	7076.5
57.5°	7179.1	7174.2	7533.2	7993.6	8286.6	8301.3	8199.9	7941.1	7483.1	7139.9	7118.0
60°	6873.8	6904.3	7397.6	8209.7	8991.2	9316.0	8877.6	8138.9	7301.2	6825.0	6768.8
62.5°	5960.4	6040.9	6635.6	7945.9	9560.3	10483.5	9421.1	7838.5	6553.8	5932.3	5895.7
65°	4271.6	4412.0	5068.9	6781.0	9509.0	11509.2	9343.0	6726.0	5117.8	4400.9	4348.5
67.5°	1938.0	2080.9	2638.9	4642.7	8265.9	11230.8	8246.3	4691.6	2770.8	2088.1	2057.6
70°	702.1	726.6	906.1	1858.5	5282.6	8948.5	5508.6	1872.0	963.5	774.2	764.4
72.5°	425.0	428.7	466.5	665.5	1835.4	5432.8	1913.6	687.5	476.2	422.5	429.9
75°	269.9	267.4	332.1	406.6	650.9	1832.9	682.6	406.6	331.0	301.7	304.0
77.5°	194.1	200.3	238.1	304.0	410.3	621.6	402.9	290.6	238.1	195.4	199.1
80°	145.3	148.9	173.4	236.9	288.2	387.1	256.5	214.9	179.5	122.1	125.8
82.5°	105.1	105.1	113.6	172.2	175.9	208.8	139.2	151.4	118.5	86.7	86.7
85°	62.3	61.1	70.8	102.6	91.6	77.0	63.6	92.8	74.5	53.7	52.5
87.5°	21.9	23.2	21.9	29.3	24.4	20.8	19.6	25.6	20.8	18.3	17.1
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)