

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: P968209

Luminaire Tested: **NAV-SB5B-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968209
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-SB5B-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30552.2 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

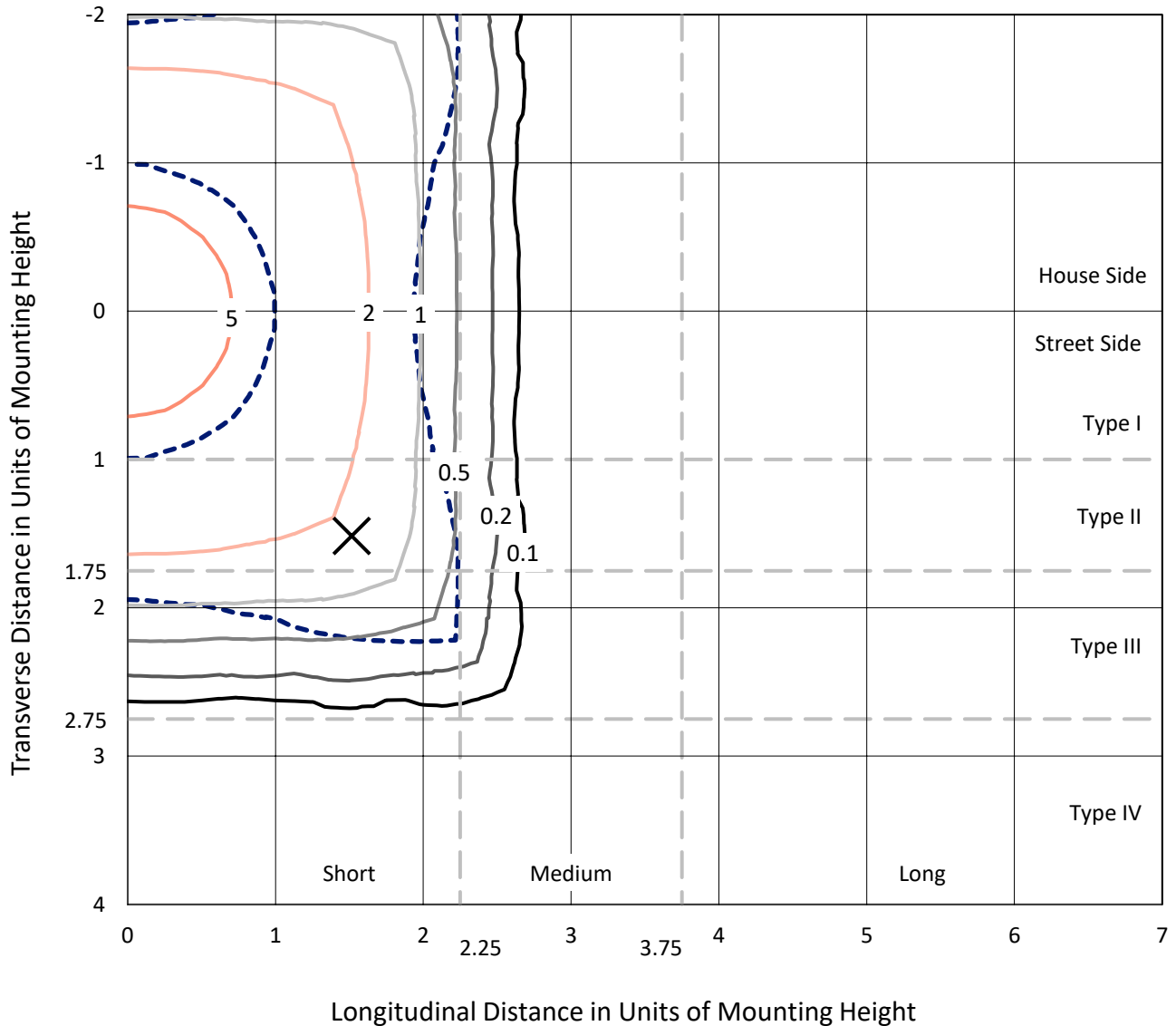
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

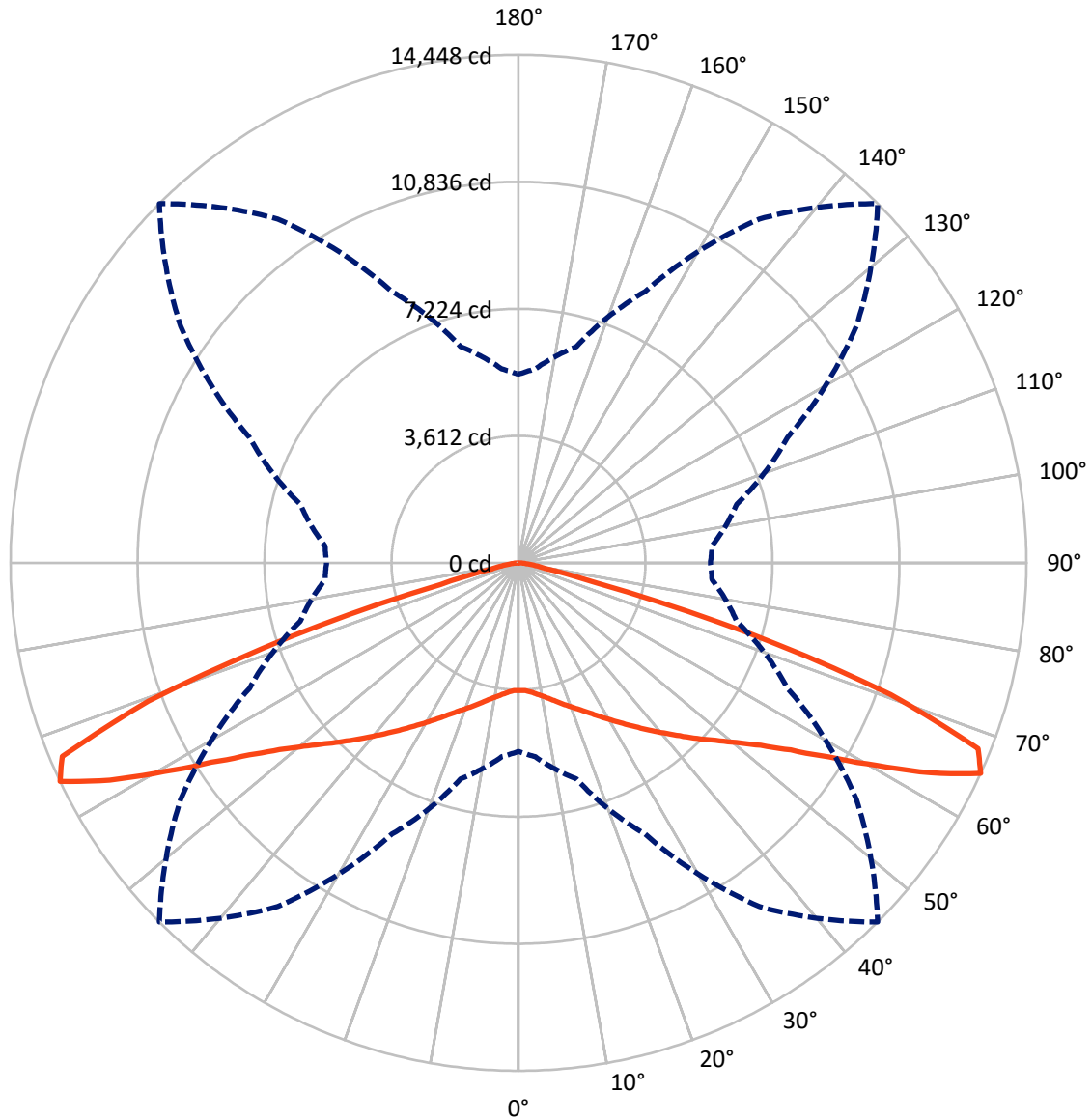
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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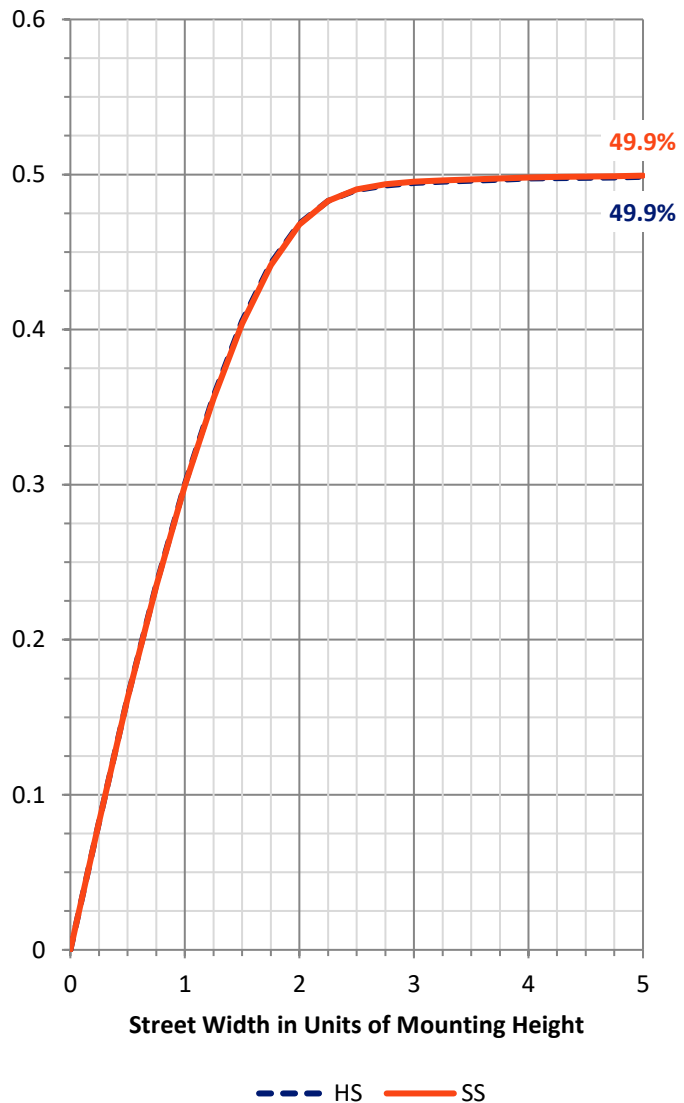
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15276.1	0.0	15276.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15276.1	0.0	15276.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	30552.2	0.0	30552.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.8	1.2
10°-20°	1170.9	3.8
20°-30°	2210.8	7.2
30°-40°	3620.2	11.8
40°-50°	5613.1	18.4
50°-60°	8291.7	27.1
60°-70°	7892.9	25.8
70°-80°	1273.6	4.2
80°-90°	120.1	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°	30552.2	100.0
0°-180°	30552.2	100.0

Coefficient of Utilization

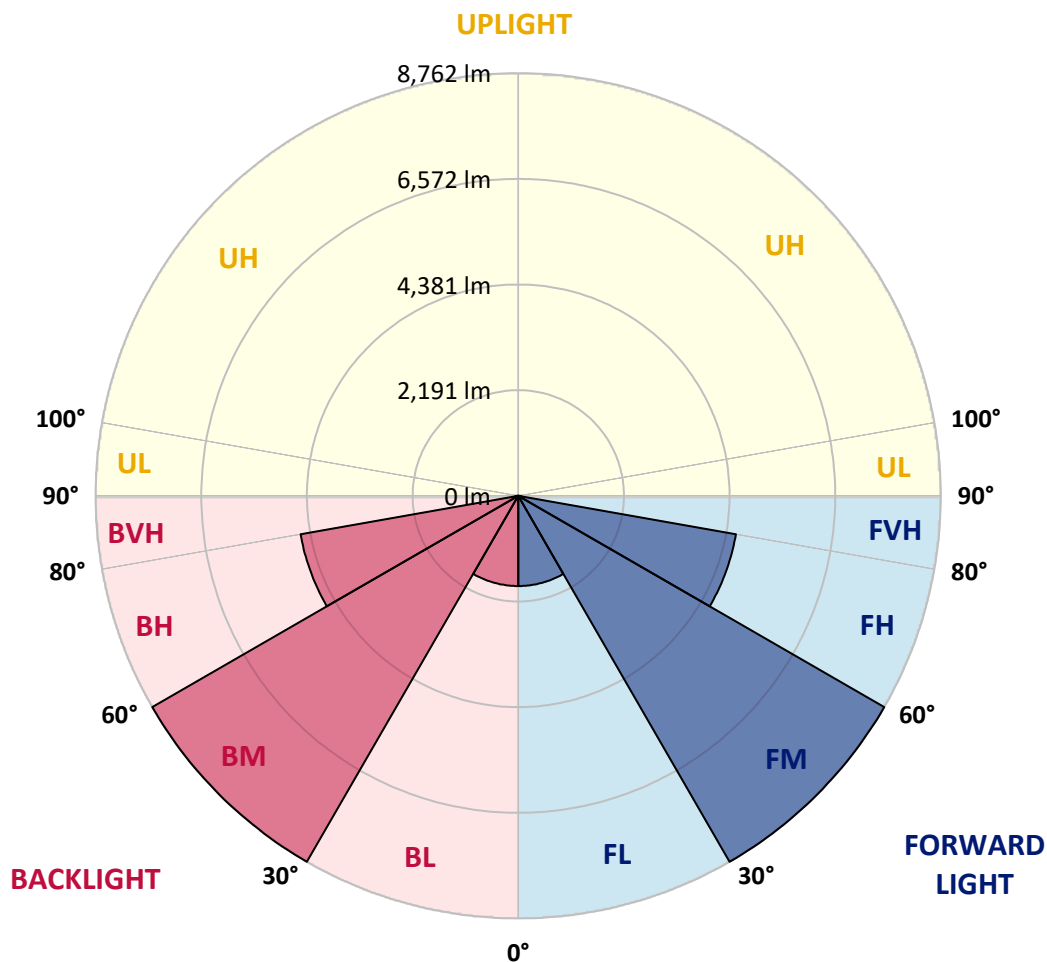


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.3	6.1			
FM (30°-60°)	8762.5	28.7			
FH (60°-80°)	4583.3	15.0			G2/5000
FVH (80°-90°)	60.0	0.2			G1/100
BL (0°-30°)	1870.3	6.1	B3/2500		
BM (30°-60°)	8762.5	28.7	B5		
BH (60°-80°)	4583.3	15.0	B4/5000		G2/5000
BVH (80°-90°)	60.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0
2.5°	3660.6	3648.3	3657.5	3649.8	3643.7	3637.5	3640.6	3651.4	3656.0	3657.5	3657.5
5°	3709.6	3698.8	3703.4	3703.4	3692.8	3689.7	3691.2	3698.8	3708.0	3708.0	3708.0
7.5°	3789.3	3778.6	3789.3	3783.2	3773.9	3770.9	3769.3	3775.5	3789.3	3789.3	3784.7
10°	3885.9	3873.6	3879.7	3876.7	3866.0	3861.4	3859.8	3869.0	3881.3	3879.7	3876.7
12.5°	3991.7	3977.8	3985.5	3976.3	3973.2	3968.7	3968.7	3967.2	3974.7	3968.7	3971.7
15°	4109.6	4100.5	4103.6	4097.4	4102.0	4099.0	4086.7	4080.5	4083.6	4074.4	4075.9
17.5°	4249.1	4227.7	4238.5	4235.4	4235.4	4241.6	4221.6	4213.9	4220.0	4210.8	4218.5
20°	4410.2	4388.6	4393.3	4387.1	4379.4	4385.6	4361.1	4367.2	4371.8	4365.7	4379.4
22.5°	4586.4	4558.8	4557.3	4560.3	4543.5	4545.1	4528.1	4543.5	4552.6	4535.8	4552.6
25°	4767.3	4738.2	4758.0	4750.5	4728.9	4733.6	4721.3	4736.6	4744.3	4722.8	4747.4
27.5°	4958.8	4939.0	4957.4	4961.9	4935.9	4954.3	4935.9	4949.7	4957.4	4925.1	4949.7
30°	5182.7	5162.8	5179.6	5191.9	5161.3	5190.4	5175.0	5184.2	5185.8	5147.4	5170.4
32.5°	5426.5	5395.8	5438.6	5444.8	5411.1	5446.3	5426.5	5438.6	5446.3	5394.3	5429.5
35°	5723.8	5685.5	5734.6	5726.9	5697.8	5726.9	5708.5	5726.9	5745.2	5682.4	5720.7
37.5°	6044.2	6004.3	6056.4	6042.7	6015.1	6035.0	6024.2	6036.5	6065.6	5998.2	6039.6
40°	6396.7	6347.7	6418.2	6393.6	6367.6	6364.5	6370.7	6378.4	6416.7	6341.6	6366.1
42.5°	6773.8	6721.7	6827.5	6789.2	6752.4	6727.9	6747.8	6763.2	6799.8	6715.6	6760.1
45°	7204.6	7144.8	7282.7	7236.8	7178.5	7128.0	7160.1	7183.1	7236.8	7135.6	7187.7
47.5°	7679.8	7612.4	7759.5	7745.7	7650.7	7540.3	7613.9	7679.8	7719.6	7597.0	7638.4
50°	8144.2	8092.2	8285.3	8302.1	8185.6	8030.8	8133.5	8233.1	8243.9	8082.9	8102.8
52.5°	8579.6	8527.5	8808.0	8913.7	8809.6	8625.6	8734.4	8835.6	8754.3	8545.8	8552.0
55°	8927.5	8884.6	9241.8	9514.7	9549.9	9398.1	9462.5	9459.4	9192.7	8872.4	8883.1
57.5°	9011.9	9005.8	9456.4	10034.3	10402.2	10420.6	10293.4	9968.4	9393.5	8962.8	8935.2
60°	8628.7	8667.0	9286.3	10305.7	11286.7	11694.4	11144.1	10216.7	9165.1	8567.4	8496.8
62.5°	7482.0	7583.2	8329.8	9974.5	12001.0	13159.9	11826.2	9839.6	8227.1	7446.7	7400.8
65°	5362.1	5538.3	6363.0	8512.1	11936.6	14447.5	11728.2	8443.1	6424.3	5524.5	5458.6
67.5°	2432.7	2612.0	3312.6	5828.0	10376.2	14098.0	10351.6	5889.3	3478.1	2621.2	2582.9
70°	881.4	912.0	1137.4	2333.1	6631.2	11233.0	6914.9	2349.9	1209.5	971.8	959.6
72.5°	533.4	538.0	585.6	835.4	2303.9	6819.8	2402.1	863.0	597.8	530.3	539.6
75°	338.8	335.7	417.0	510.4	817.0	2300.8	856.9	510.4	415.4	378.6	381.7
77.5°	243.7	251.4	298.9	381.7	515.1	780.2	505.8	364.8	298.9	245.3	249.9
80°	182.4	187.1	217.7	297.4	361.7	486.0	322.0	269.8	225.3	153.3	157.8
82.5°	131.8	131.8	142.6	216.2	220.8	262.1	174.8	190.0	148.7	108.9	108.9
85°	78.2	76.7	88.9	128.7	115.0	96.6	79.7	116.5	93.5	67.4	65.9
87.5°	27.6	29.1	27.6	36.8	30.6	26.0	24.5	32.2	26.0	23.0	21.4
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)