

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: P968162

Luminaire Tested: **NAV-SB5B-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23827.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

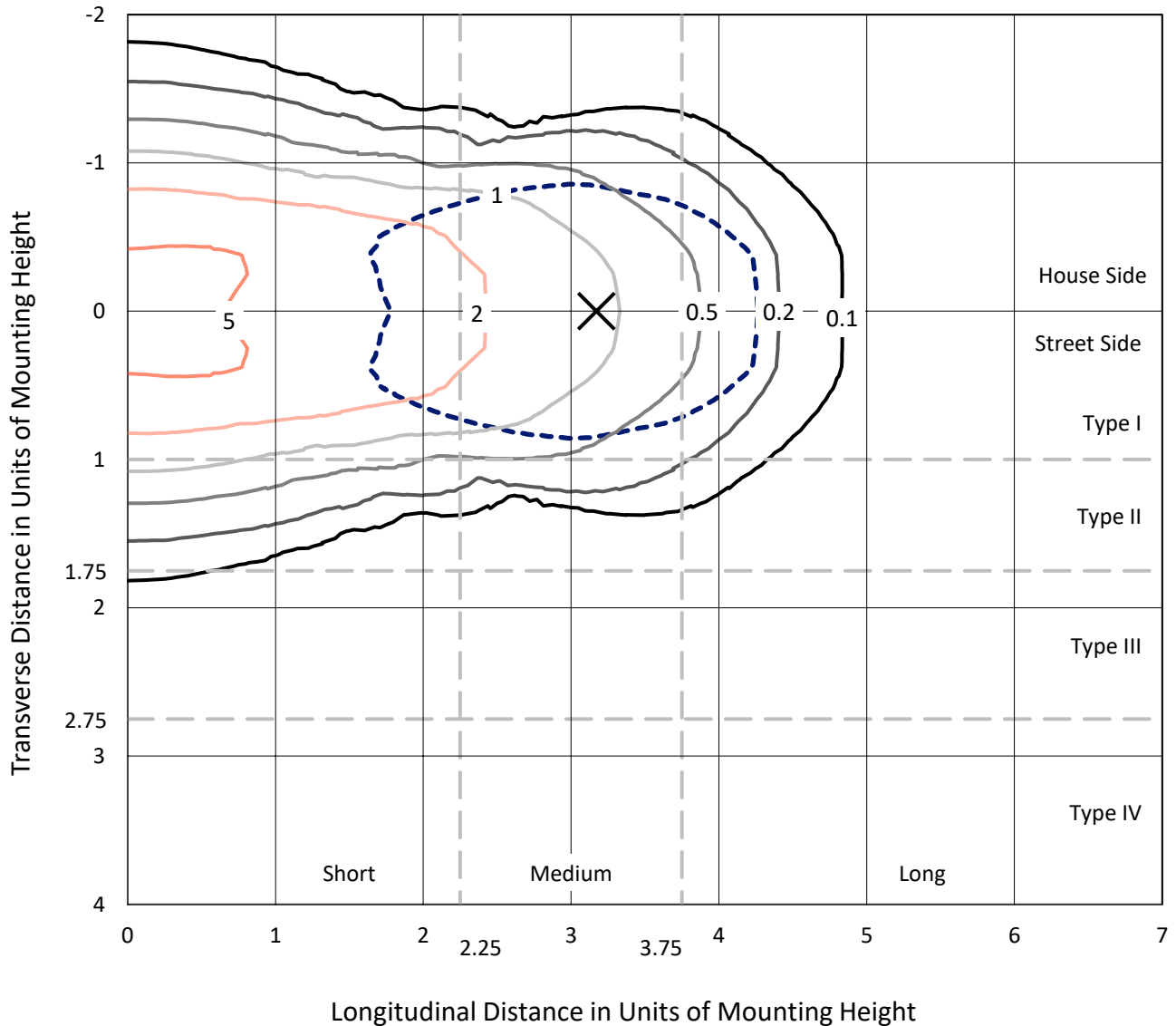
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

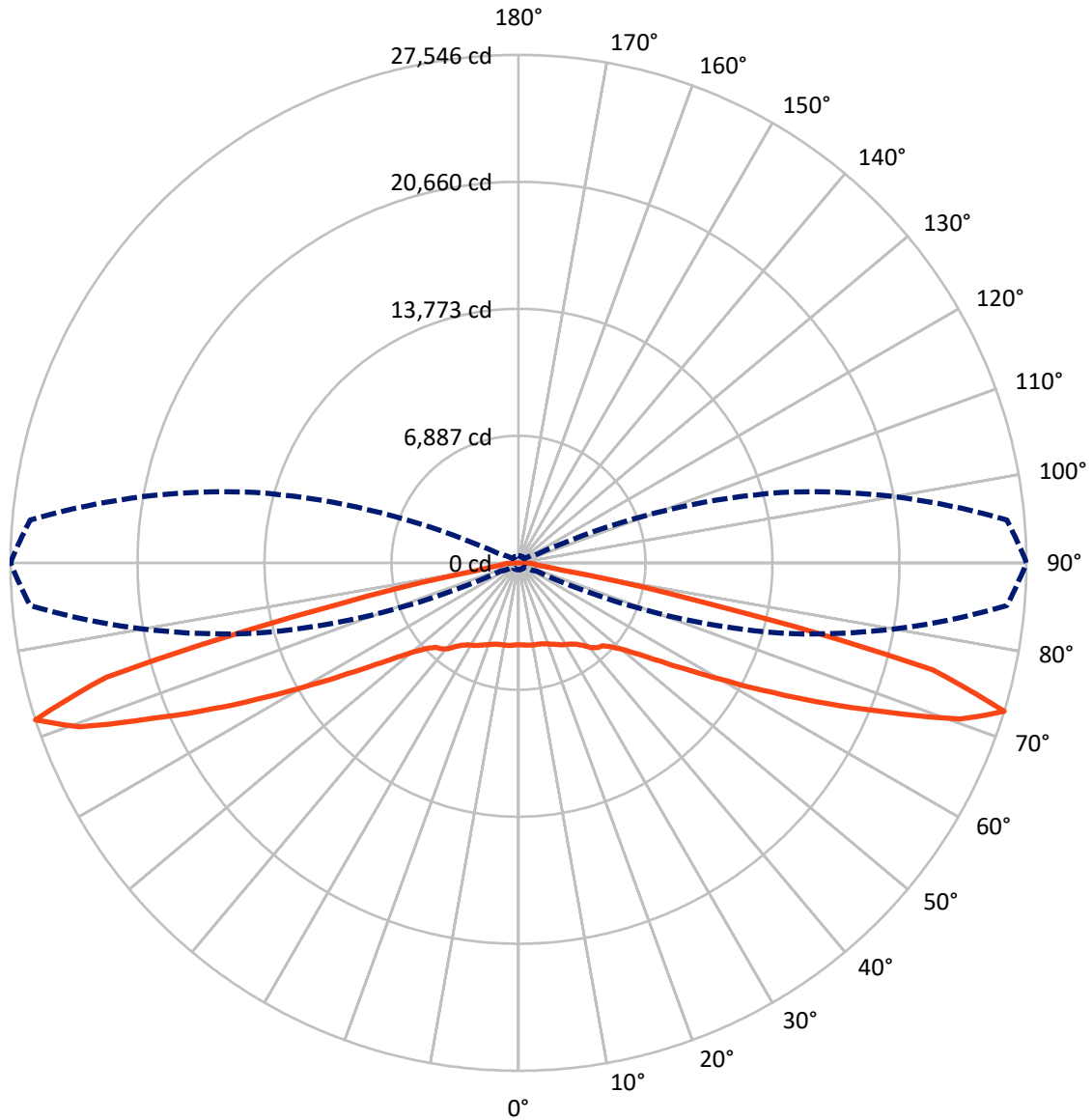
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11913.6	0.0	11913.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11913.6	0.0	11913.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23827.2	0.0	23827.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	1.8
10°-20°	1320.0	5.5
20°-30°	2201.0	9.2
30°-40°	3027.0	12.7
40°-50°	3696.8	15.5
50°-60°	4275.8	17.9
60°-70°	5098.1	21.4
70°-80°	3558.2	14.9
80°-90°	218.6	0.9
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°	23827.2	100.0
0°-180°	23827.2	100.0

Coefficient of Utilization

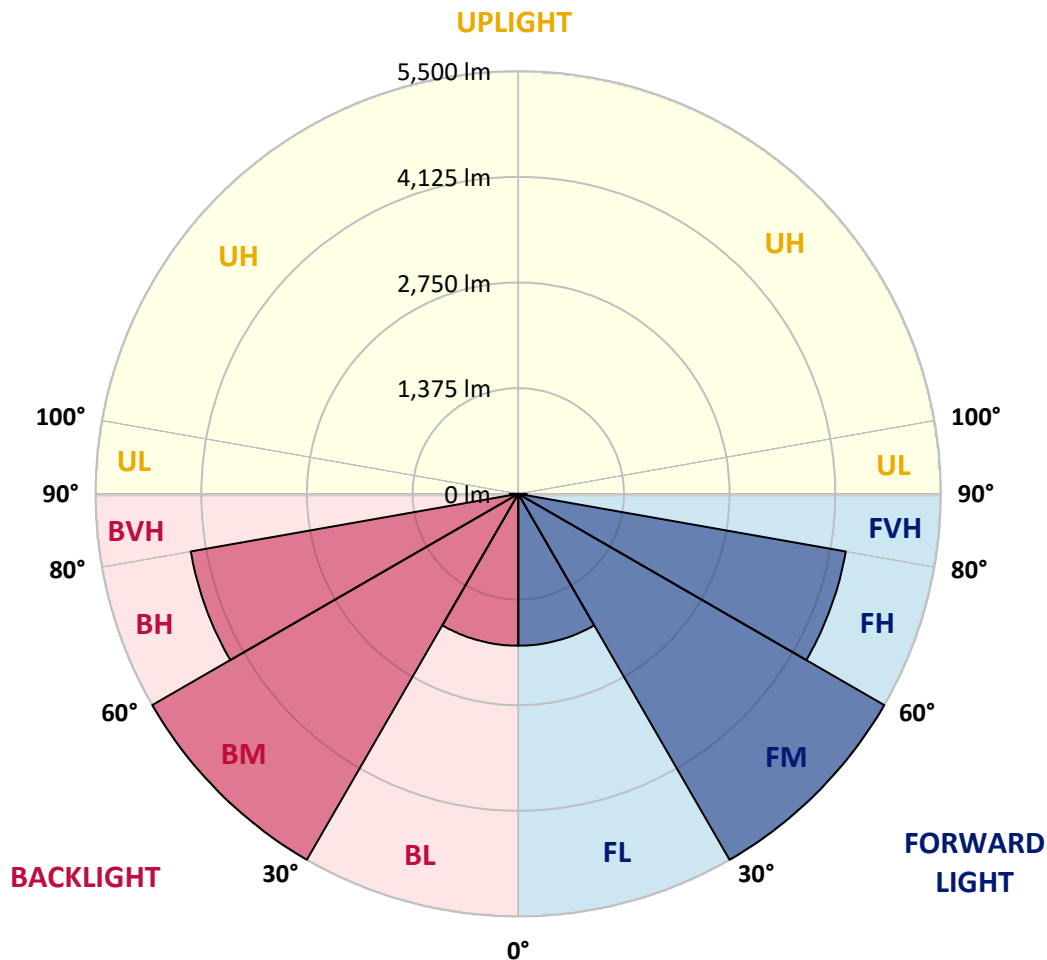


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.3	8.3			
FM (30°-60°)	5499.8	23.1			
FH (60°-80°)	4328.2	18.2			G2/5000
FVH (80°-90°)	109.3	0.5			G2/225
BL (0°-30°)	1976.3	8.3	B3/2500		
BM (30°-60°)	5499.8	23.1	B4/8500		
BH (60°-80°)	4328.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	109.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4
2.5°	4456.2	4461.2	4461.2	4457.4	4466.3	4458.6	4458.6	4454.9	4458.6	4454.9	4454.9
5°	4478.9	4485.3	4487.9	4486.5	4497.9	4491.7	4491.7	4486.5	4487.9	4484.0	4484.0
7.5°	4522.0	4530.9	4535.9	4542.3	4558.7	4551.1	4546.1	4530.9	4524.6	4514.4	4514.4
10°	4535.9	4546.1	4562.5	4595.5	4633.4	4634.7	4619.5	4581.5	4552.4	4529.6	4525.8
12.5°	4492.9	4506.8	4541.0	4608.1	4693.0	4727.1	4703.1	4639.8	4582.8	4542.3	4535.9
15°	4438.5	4453.6	4505.5	4606.9	4732.2	4812.0	4809.5	4725.9	4634.7	4571.4	4561.2
17.5°	4353.6	4368.8	4443.5	4585.3	4762.6	4894.3	4929.7	4843.6	4715.7	4631.0	4617.0
20°	4200.3	4214.3	4318.1	4517.0	4772.7	4981.7	5074.2	4998.1	4838.6	4723.3	4701.8
22.5°	4001.5	4023.1	4144.7	4399.2	4748.7	5072.8	5238.8	5186.8	4981.7	4822.1	4793.0
25°	3788.8	3811.6	3953.4	4254.8	4686.6	5138.7	5433.7	5400.8	5143.8	4944.9	4904.4
27.5°	3605.2	3629.2	3783.8	4111.7	4590.4	5164.1	5626.2	5642.7	5340.0	5080.4	5037.4
30°	3460.8	3483.7	3648.3	3996.5	4466.3	5138.7	5794.6	5908.6	5540.1	5198.2	5136.2
32.5°	3302.6	3331.7	3505.2	3855.9	4319.3	5078.0	5941.5	6196.0	5771.9	5324.9	5246.4
35°	3102.5	3129.0	3311.4	3663.5	4127.0	4980.4	6064.4	6515.2	6103.7	5517.4	5429.9
37.5°	2859.3	2884.7	3065.8	3422.9	3935.7	4843.6	6158.1	6874.8	6498.7	5794.6	5678.2
40°	2615.0	2639.0	2808.7	3154.3	3706.5	4668.9	6191.0	7226.9	6952.1	6175.8	6051.7
42.5°	2390.8	2412.3	2568.0	2889.7	3449.4	4446.0	6148.0	7533.3	7358.6	6441.7	6282.2
45°	2184.4	2203.3	2341.4	2641.5	3182.2	4175.0	6018.8	7862.6	7842.3	6631.6	6416.4
47.5°	1948.8	1967.9	2111.0	2401.0	2915.1	3857.2	5799.8	8186.7	8514.7	7062.2	6814.0
50°	1661.4	1677.8	1824.7	2123.6	2637.7	3519.1	5495.8	8441.3	9363.1	7714.4	7402.9
52.5°	1320.8	1338.4	1481.5	1780.4	2308.5	3155.7	5095.7	8607.1	10343.3	8666.7	8282.9
55°	982.7	995.3	1119.4	1387.8	1900.8	2741.6	4594.2	8654.0	11455.1	9968.4	9488.5
57.5°	712.9	720.6	800.3	1000.4	1441.0	2223.6	3985.1	8532.4	12778.4	11637.4	11033.4
60°	577.5	579.9	604.0	692.7	1001.6	1638.6	3249.4	8114.5	14214.4	13788.9	13027.9
62.5°	524.3	524.3	530.5	554.6	677.5	1081.5	2359.1	7248.4	15754.1	16507.6	15488.3
65°	487.5	487.5	490.1	501.4	534.4	688.9	1489.2	5837.7	17052.2	19692.4	18403.4
67.5°	454.6	455.9	454.6	458.4	477.4	509.0	863.7	4031.9	17751.2	22992.4	21600.7
70°	420.5	422.9	416.7	416.7	431.8	433.1	540.7	2211.0	17171.2	25758.0	25392.1
72.5°	379.9	383.7	373.6	371.0	382.4	377.4	406.5	1061.2	14742.4	26583.7	27546.1
75°	344.4	349.5	326.7	320.4	320.4	316.6	330.5	544.5	9568.3	21685.6	23195.0
77.5°	312.8	322.9	286.2	265.9	260.9	249.5	269.7	333.0	4185.2	10181.1	9969.7
80°	258.3	272.2	235.5	211.5	202.6	189.9	212.8	233.0	1244.8	2364.2	2264.1
82.5°	192.5	198.8	167.2	150.7	143.1	134.3	159.6	162.1	405.2	837.0	946.0
85°	122.8	125.4	102.6	88.7	84.9	81.1	101.3	88.7	154.5	615.4	894.0
87.5°	43.0	49.4	39.3	35.5	38.0	31.7	46.8	26.5	43.0	434.4	538.2
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)