

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: P969728

Luminaire Tested: **NAV-SB6A-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969728
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-SB6A-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24135.6 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

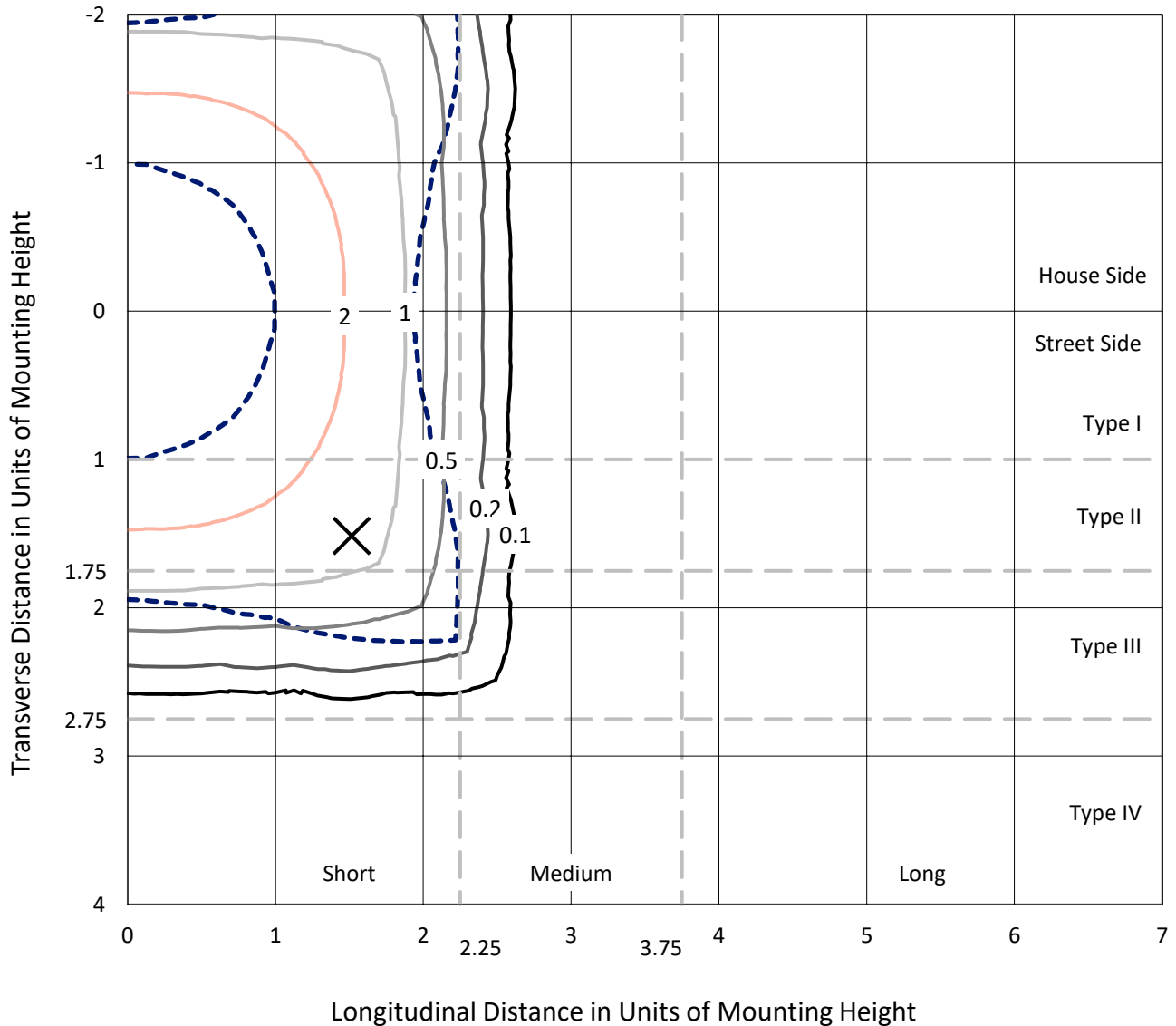
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

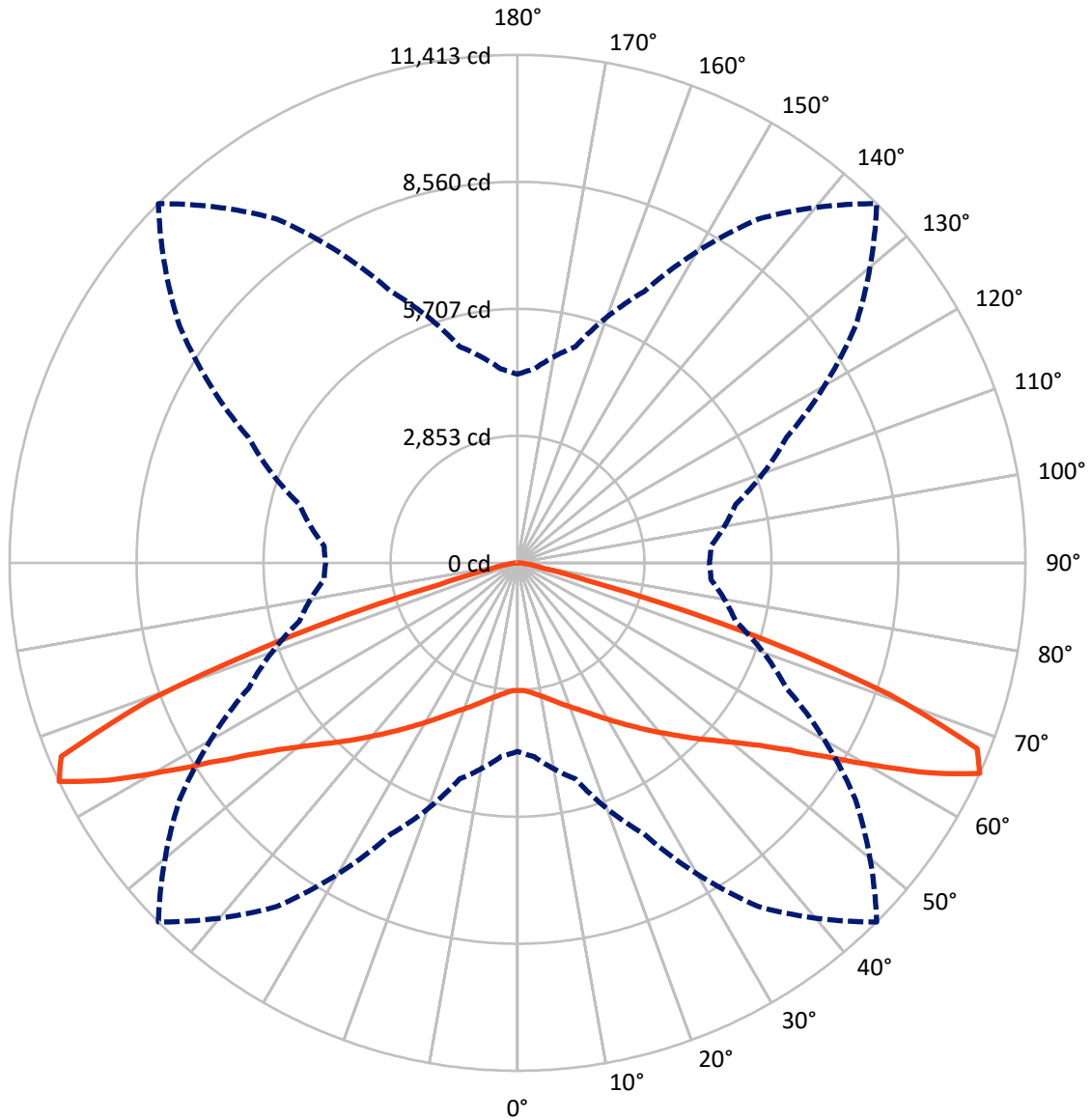
× Max cd
 - - - 1/2 Max cd



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	12067.8	0.0	12067.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12067.8	0.0	12067.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	24135.6	0.0	24135.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.2
10°-20°	925.0	3.8
20°-30°	1746.5	7.2
30°-40°	2859.9	11.8
40°-50°	4434.2	18.4
50°-60°	6550.3	27.1
60°-70°	6235.3	25.8
70°-80°	1006.1	4.2
80°-90°	94.8	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°	24135.6	100.0
0°-180°	24135.6	100.0

Coefficient of Utilization



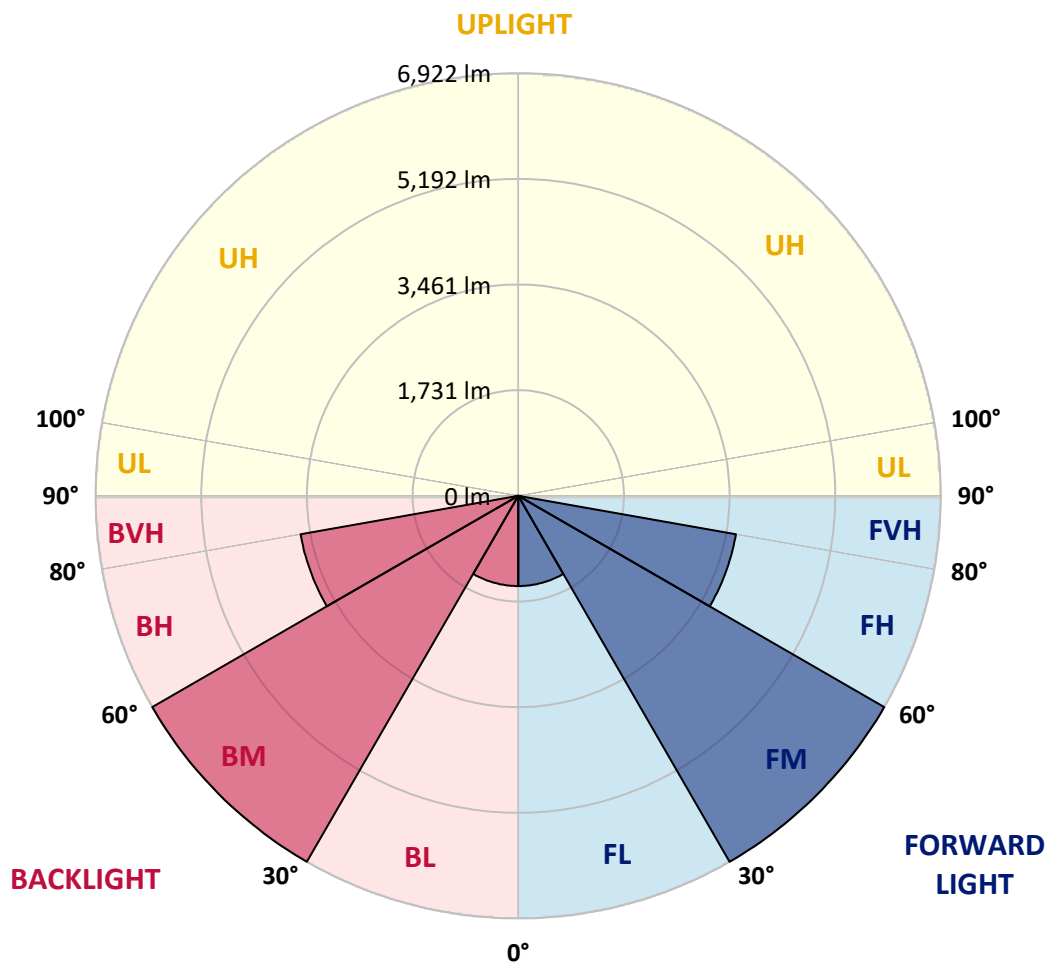
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.5	6.1			
FM (30°-60°)	6922.2	28.7			
FH (60°-80°)	3620.7	15.0			G2/5000
FVH (80°-90°)	47.4	0.2			G1/100
BL (0°-30°)	1477.5	6.1	B3/2500		
BM (30°-60°)	6922.2	28.7	B4/8500		
BH (60°-80°)	3620.7	15.0	B4/5000		G2/5000
BVH (80°-90°)	47.4	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°	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4	2872.4
2.5°	2891.7	2882.1	2889.4	2883.3	2878.4	2873.6	2876.0	2884.5	2888.1	2889.4	2889.4
5°	2930.5	2922.1	2925.7	2925.7	2917.1	2914.8	2916.0	2922.1	2929.3	2929.3	2929.3
7.5°	2993.5	2985.0	2993.5	2988.6	2981.4	2979.0	2977.7	2982.5	2993.5	2993.5	2989.8
10°	3069.8	3060.0	3065.0	3062.5	3054.0	3050.4	3049.2	3056.4	3066.2	3065.0	3062.5
12.5°	3153.3	3142.4	3148.5	3141.2	3138.8	3135.2	3135.2	3133.9	3140.0	3135.2	3137.6
15°	3246.6	3239.3	3241.8	3236.8	3240.5	3238.1	3228.4	3223.5	3226.0	3218.7	3219.9
17.5°	3356.8	3339.9	3348.3	3345.9	3345.9	3350.7	3334.9	3328.9	3333.7	3326.5	3332.6
20°	3483.9	3467.0	3470.6	3465.7	3459.7	3464.5	3445.1	3450.0	3453.6	3448.8	3459.7
22.5°	3623.2	3601.3	3600.2	3602.6	3589.2	3590.5	3577.1	3589.2	3596.5	3583.2	3596.5
25°	3766.1	3743.1	3758.8	3752.7	3735.8	3739.4	3729.8	3741.9	3747.9	3731.0	3750.4
27.5°	3917.4	3901.7	3916.2	3919.9	3899.3	3913.8	3899.3	3910.2	3916.2	3890.8	3910.2
30°	4094.3	4078.5	4091.8	4101.5	4077.2	4100.3	4088.2	4095.5	4096.6	4066.4	4084.5
32.5°	4286.8	4262.6	4296.5	4301.3	4274.7	4302.5	4286.8	4296.5	4302.5	4261.3	4289.2
35°	4521.7	4491.4	4530.2	4524.1	4501.1	4524.1	4509.6	4524.1	4538.7	4489.0	4519.3
37.5°	4774.8	4743.3	4784.5	4773.6	4751.8	4767.6	4759.1	4768.7	4791.8	4738.5	4771.2
40°	5053.4	5014.6	5070.3	5050.9	5030.3	5027.9	5032.8	5038.8	5069.0	5009.7	5029.1
42.5°	5351.2	5310.0	5393.5	5363.3	5334.3	5314.9	5330.6	5342.7	5371.8	5305.2	5340.4
45°	5691.5	5644.3	5753.2	5716.9	5670.9	5630.9	5656.4	5674.5	5716.9	5637.0	5678.2
47.5°	6066.9	6013.6	6129.8	6118.9	6043.9	5956.7	6014.8	6066.9	6098.3	6001.5	6034.2
50°	6433.8	6392.6	6545.2	6558.6	6466.5	6344.2	6425.3	6504.0	6512.5	6385.3	6401.1
52.5°	6777.7	6736.5	6958.1	7041.7	6959.3	6814.1	6900.0	6979.9	6915.8	6751.1	6755.9
55°	7052.6	7018.7	7300.9	7516.4	7544.2	7424.4	7475.2	7472.8	7262.1	7009.1	7017.5
57.5°	7119.2	7114.3	7470.4	7926.9	8217.5	8232.1	8131.5	7874.9	7420.7	7080.5	7058.7
60°	6816.5	6846.7	7335.9	8141.3	8916.3	9238.4	8803.6	8071.1	7240.3	6768.1	6712.3
62.5°	5910.7	5990.6	6580.3	7879.7	9480.5	10396.1	9342.6	7773.1	6499.2	5882.8	5846.5
65°	4235.9	4375.2	5026.7	6724.4	9429.7	11413.3	9265.0	6670.0	5075.1	4364.2	4312.2
67.5°	1921.8	2063.4	2616.8	4604.1	8196.9	11137.1	8177.6	4652.5	2747.6	2070.7	2040.5
70°	696.3	720.5	898.5	1843.1	5238.6	8873.8	5462.6	1856.4	955.4	767.7	758.1
72.5°	421.4	425.1	462.6	660.0	1820.1	5387.5	1897.6	681.7	472.3	419.0	426.3
75°	267.6	265.2	329.3	403.2	645.4	1817.6	676.9	403.2	328.2	299.1	301.6
77.5°	192.5	198.6	236.2	301.6	406.9	616.3	399.6	288.2	236.2	193.7	197.4
80°	144.1	147.7	172.0	234.9	285.8	383.9	254.3	213.1	178.0	121.1	124.7
82.5°	104.1	104.1	112.6	170.8	174.4	207.0	138.1	150.2	117.5	86.0	86.0
85°	61.8	60.6	70.2	101.7	90.8	76.3	62.9	92.0	73.9	53.3	52.1
87.5°	21.8	23.0	21.8	29.1	24.2	20.6	19.4	25.4	20.6	18.1	16.9
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)