

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: P964985

Luminaire Tested: **NAV-SB3D-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964985
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-SB3D-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27090.8 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

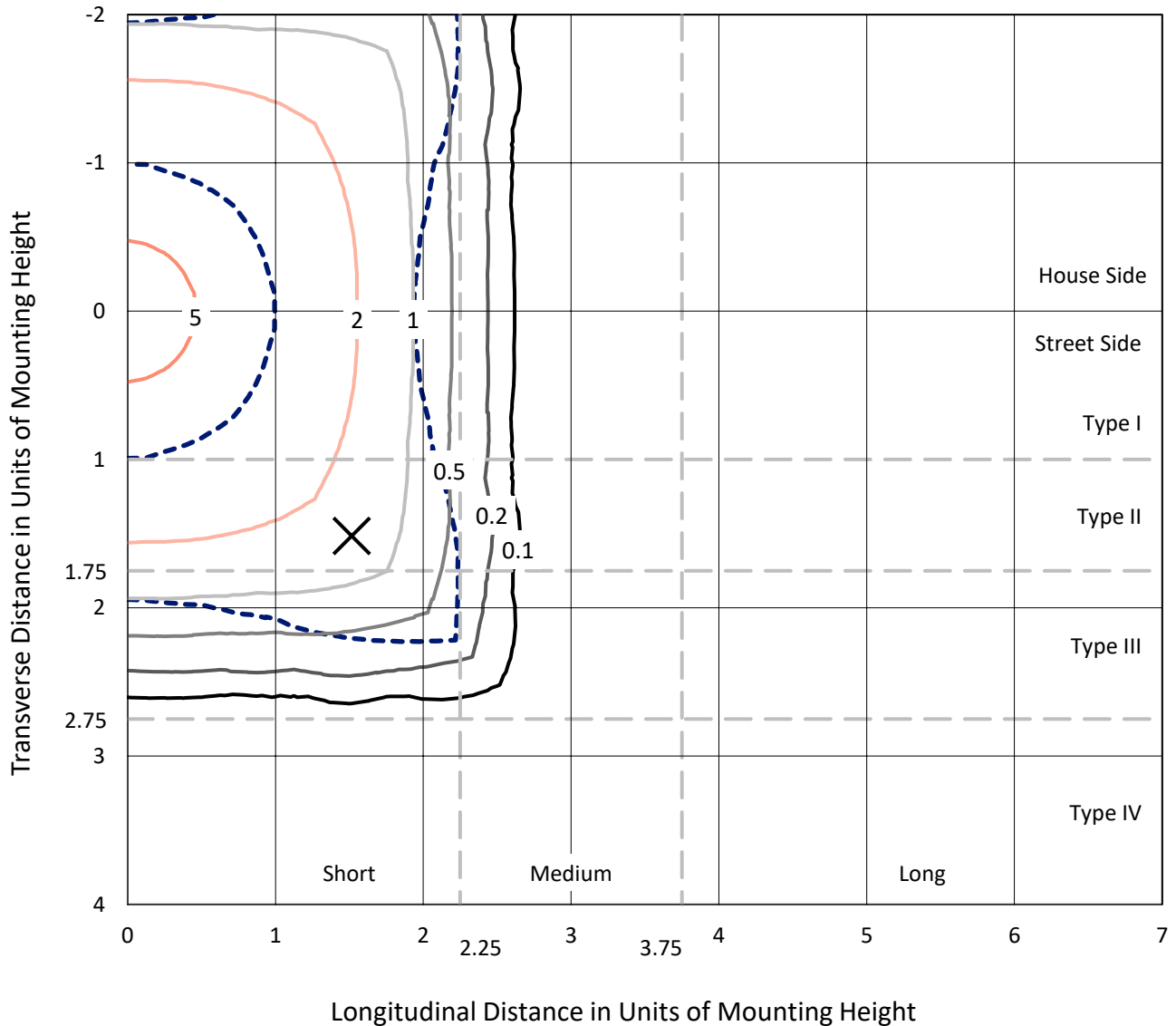
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

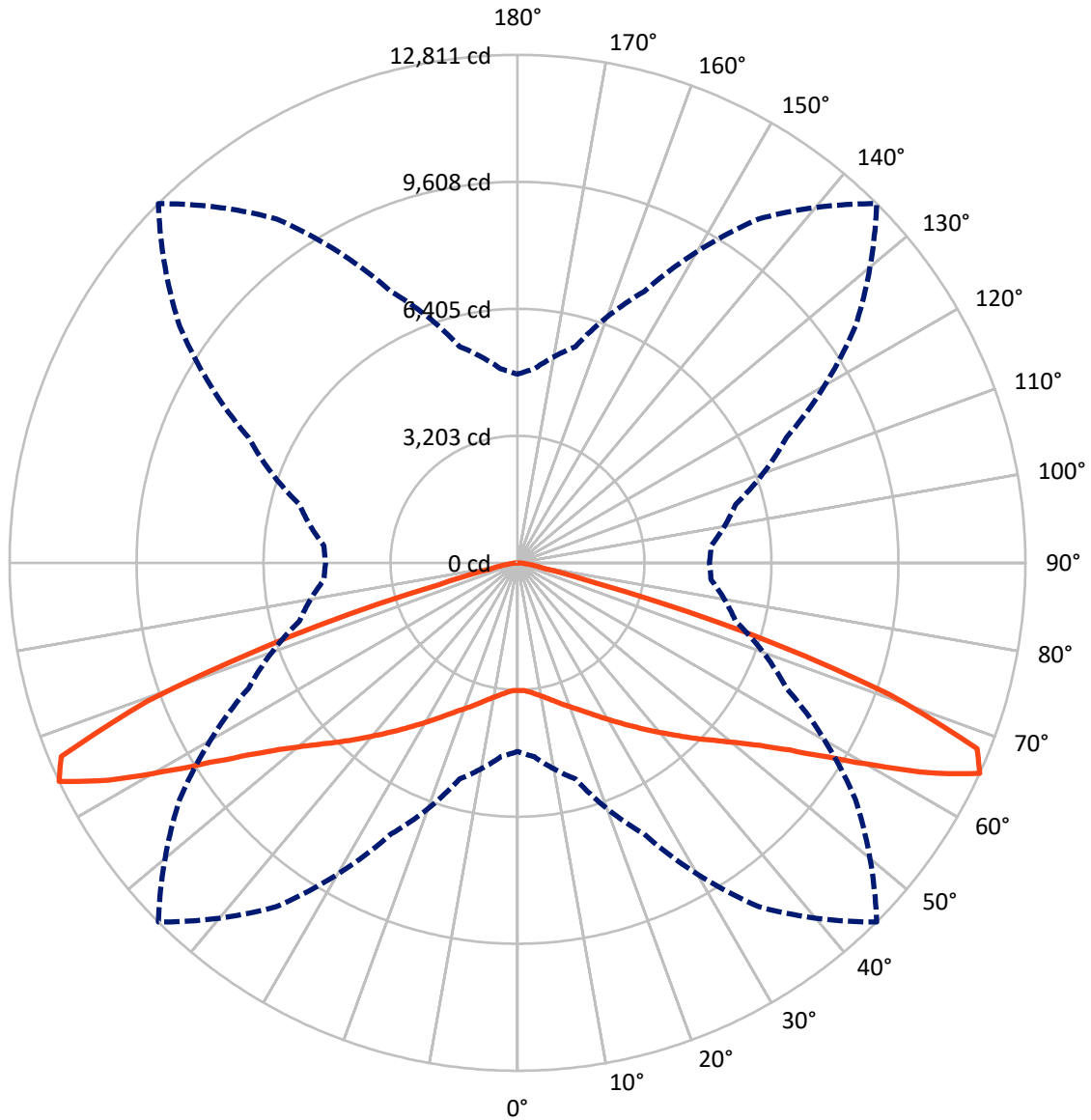
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	13545.4	0.0	13545.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13545.4	0.0	13545.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	27090.8	0.0	27090.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.2	1.2
10°-20°	1038.3	3.8
20°-30°	1960.4	7.2
30°-40°	3210.0	11.8
40°-50°	4977.2	18.4
50°-60°	7352.3	27.1
60°-70°	6998.7	25.8
70°-80°	1129.3	4.2
80°-90°	106.5	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°	27090.8	100.0
0°-180°	27090.8	100.0

Coefficient of Utilization



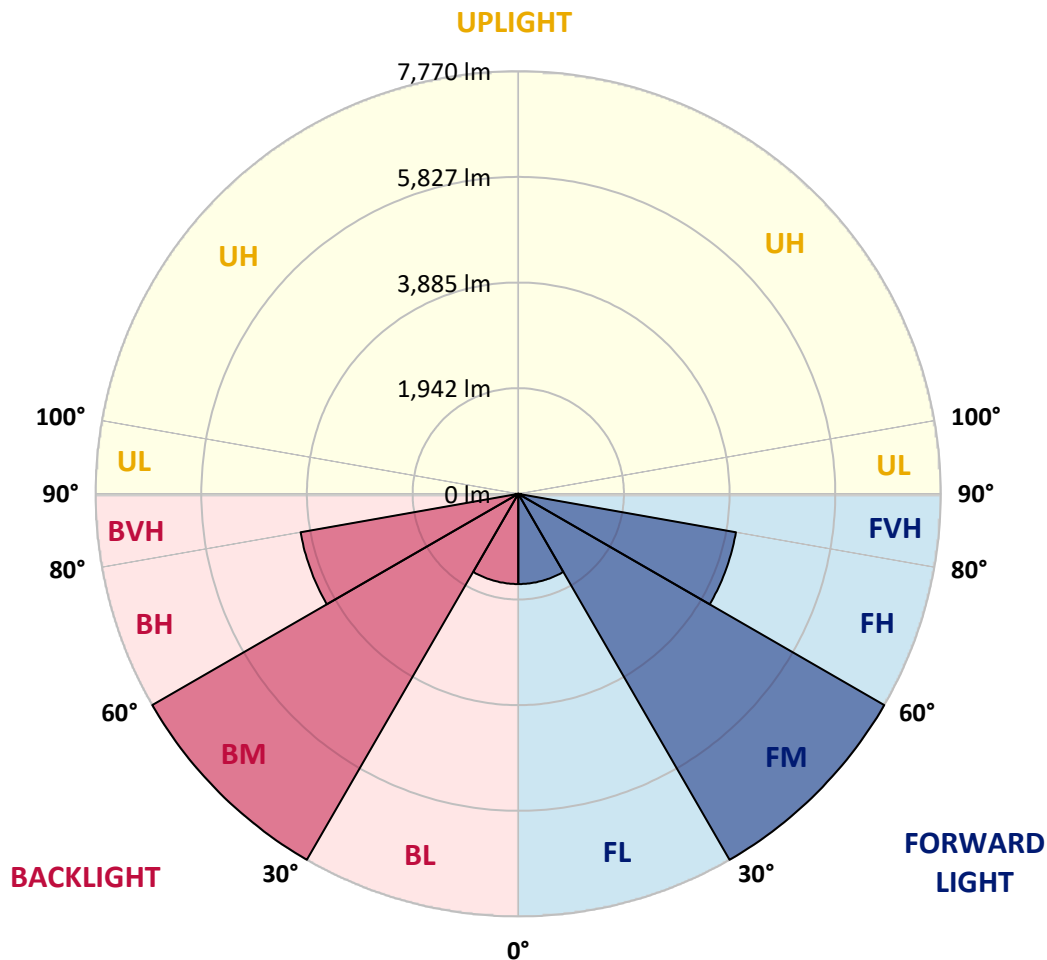
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.4	6.1			
FM (30°-60°)	7769.7	28.7			
FH (60°-80°)	4064.0	15.0			G2/5000
FVH (80°-90°)	53.2	0.2			G1/100
BL (0°-30°)	1658.4	6.1	B3/2500		
BM (30°-60°)	7769.7	28.7	B4/8500		
BH (60°-80°)	4064.0	15.0	B4/5000		G2/5000
BVH (80°-90°)	53.2	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°	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0
2.5°	3245.9	3234.9	3243.1	3236.3	3230.9	3225.5	3228.1	3237.7	3241.8	3243.1	3243.1
5°	3289.3	3279.8	3283.9	3283.9	3274.4	3271.6	3273.0	3279.8	3288.0	3288.0	3288.0
7.5°	3360.0	3350.5	3360.0	3354.5	3346.4	3343.7	3342.3	3347.8	3360.0	3360.0	3356.0
10°	3445.6	3434.8	3440.2	3437.4	3427.9	3423.9	3422.5	3430.7	3441.5	3440.2	3437.4
12.5°	3539.4	3527.1	3534.0	3525.8	3523.1	3519.0	3519.0	3517.7	3524.5	3519.0	3521.7
15°	3644.1	3635.9	3638.6	3633.2	3637.3	3634.5	3623.7	3618.2	3620.9	3612.8	3614.2
17.5°	3767.8	3748.7	3758.3	3755.5	3755.5	3760.9	3743.3	3736.5	3742.0	3733.8	3740.5
20°	3910.5	3891.4	3895.5	3890.1	3883.3	3888.7	3867.0	3872.4	3876.4	3871.0	3883.3
22.5°	4066.8	4042.3	4041.0	4043.7	4028.8	4030.1	4015.1	4028.8	4036.9	4021.9	4036.9
25°	4227.2	4201.4	4219.0	4212.2	4193.2	4197.3	4186.4	4200.0	4206.8	4187.7	4209.5
27.5°	4397.0	4379.4	4395.7	4399.8	4376.6	4393.0	4376.6	4388.9	4395.7	4367.2	4388.9
30°	4595.5	4577.9	4592.8	4603.7	4576.5	4602.4	4588.7	4596.9	4598.3	4564.2	4584.6
32.5°	4811.7	4784.5	4822.5	4828.0	4798.0	4829.3	4811.7	4822.5	4829.3	4783.1	4814.3
35°	5075.3	5041.4	5084.8	5078.1	5052.2	5078.1	5061.8	5078.1	5094.4	5038.6	5072.6
37.5°	5359.4	5324.1	5370.3	5358.1	5333.6	5351.2	5341.7	5352.7	5378.5	5318.6	5355.3
40°	5672.0	5628.5	5691.0	5669.3	5646.2	5643.4	5648.9	5655.7	5689.7	5623.0	5644.9
42.5°	6006.4	5960.2	6054.0	6020.0	5987.3	5965.6	5983.3	5996.9	6029.5	5954.7	5994.2
45°	6388.3	6335.3	6457.7	6416.9	6365.2	6320.4	6349.0	6369.3	6416.9	6327.1	6373.3
47.5°	6809.7	6749.9	6880.4	6868.1	6783.9	6686.0	6751.3	6809.7	6845.1	6736.3	6773.0
50°	7221.5	7175.3	7346.6	7361.6	7258.2	7121.0	7212.0	7300.4	7309.9	7167.2	7184.8
52.5°	7607.6	7561.3	7810.1	7903.9	7811.4	7648.3	7744.8	7834.6	7762.5	7577.6	7583.1
55°	7916.1	7878.0	8194.8	8436.7	8467.9	8333.4	8390.4	8387.8	8151.2	7867.2	7876.7
57.5°	7990.9	7985.5	8385.0	8897.4	9223.7	9240.0	9127.1	8839.0	8329.3	7947.3	7922.9
60°	7651.0	7685.0	8234.1	9138.1	10007.9	10369.5	9881.5	9059.2	8126.8	7596.7	7534.2
62.5°	6634.3	6724.1	7386.0	8844.4	10641.3	11668.9	10486.4	8724.8	7294.9	6603.0	6562.4
65°	4754.6	4910.9	5642.1	7547.8	10584.3	12810.7	10399.3	7486.6	5696.5	4898.7	4840.2
67.5°	2157.1	2316.1	2937.2	5167.7	9200.6	12500.8	9178.8	5222.2	3084.0	2324.3	2290.3
70°	781.6	808.7	1008.5	2068.8	5880.0	9960.3	6131.4	2083.7	1072.5	861.7	850.9
72.5°	473.0	477.1	519.3	740.8	2042.9	6047.2	2129.8	765.3	530.1	470.3	478.5
75°	300.4	297.7	369.7	452.6	724.5	2040.2	759.8	452.6	368.4	335.7	338.5
77.5°	216.1	222.9	265.1	338.5	456.7	691.9	448.5	323.5	265.1	217.5	221.5
80°	161.7	165.8	193.0	263.7	320.8	430.9	285.5	239.2	199.8	135.9	140.0
82.5°	116.8	116.8	126.4	191.7	195.8	232.5	155.0	168.5	131.8	96.6	96.6
85°	69.3	68.0	78.8	114.2	102.0	85.6	70.7	103.3	82.9	59.8	58.4
87.5°	24.5	25.8	24.5	32.6	27.2	23.1	21.7	28.5	23.1	20.4	19.1
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)