

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: P971324

Luminaire Tested: **NAV-SB6D-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971324
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-SB6D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51689.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

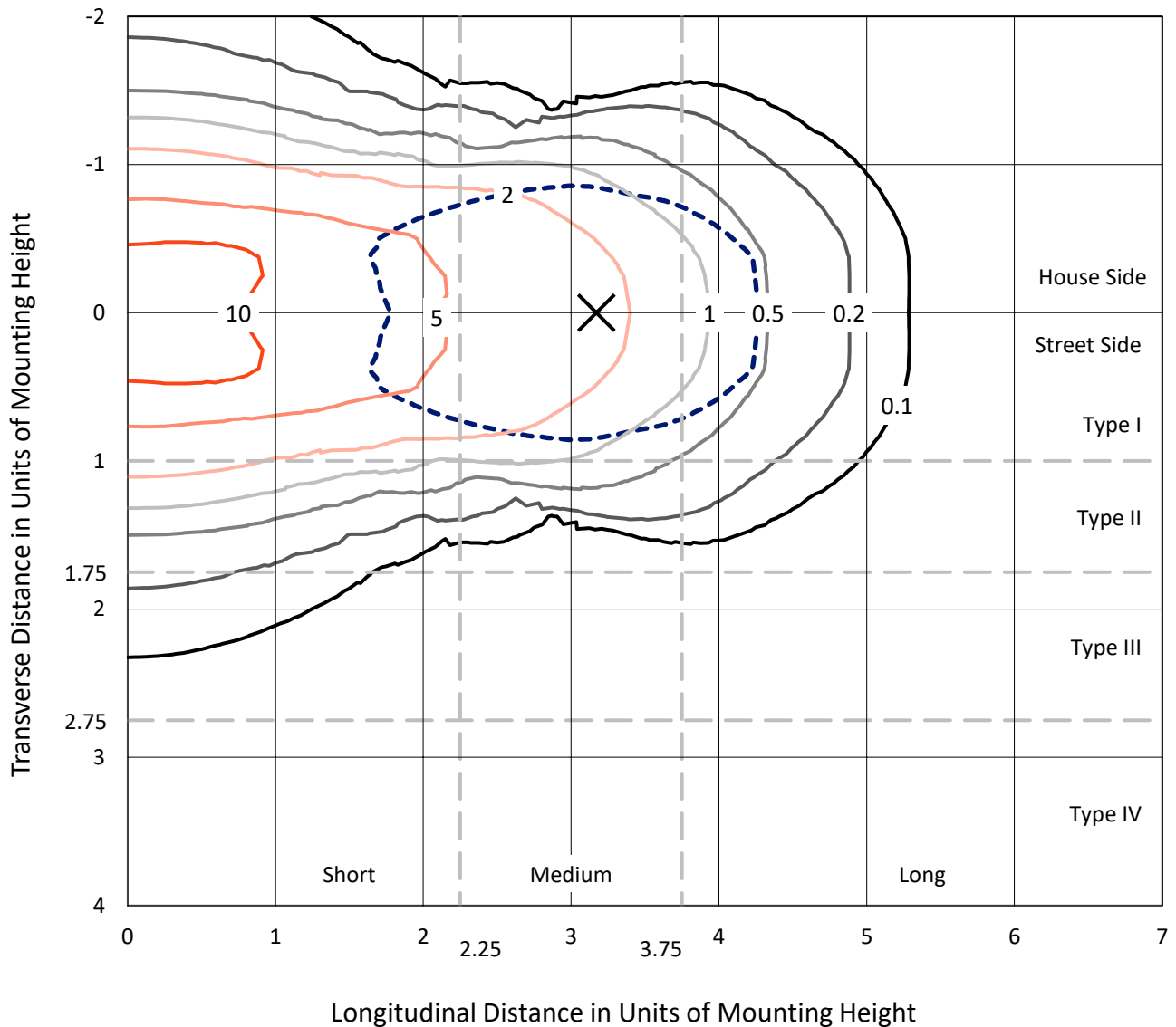
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

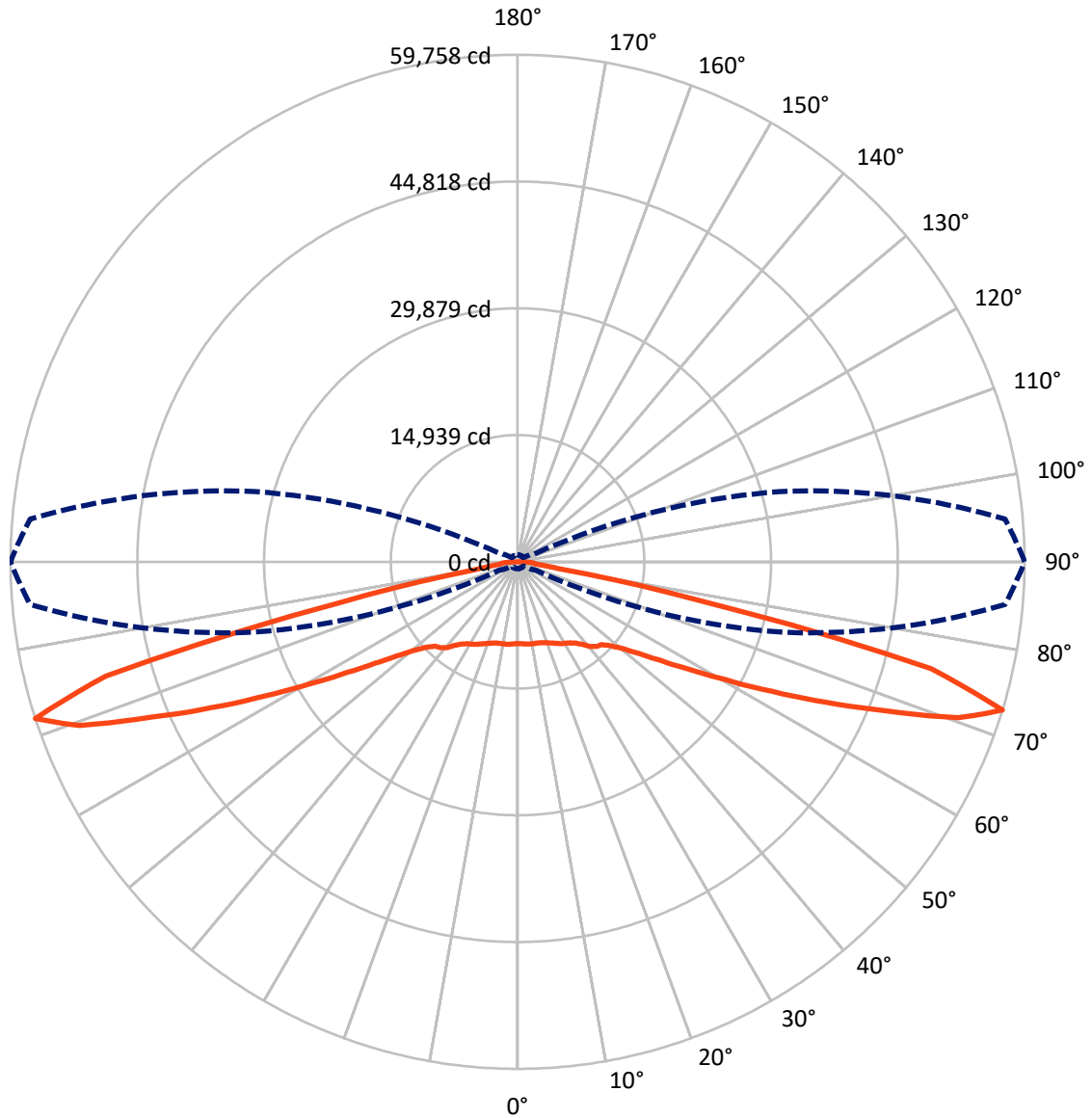
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	25844.9	0.0	25844.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25844.9	0.0	25844.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	51689.7	0.0	51689.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.5	1.8
10°-20°	2863.5	5.5
20°-30°	4774.7	9.2
30°-40°	6566.7	12.7
40°-50°	8019.8	15.5
50°-60°	9275.7	17.9
60°-70°	11059.7	21.4
70°-80°	7719.0	14.9
80°-90°	474.1	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°	51689.7	100.0
0°-180°	51689.7	100.0

Coefficient of Utilization

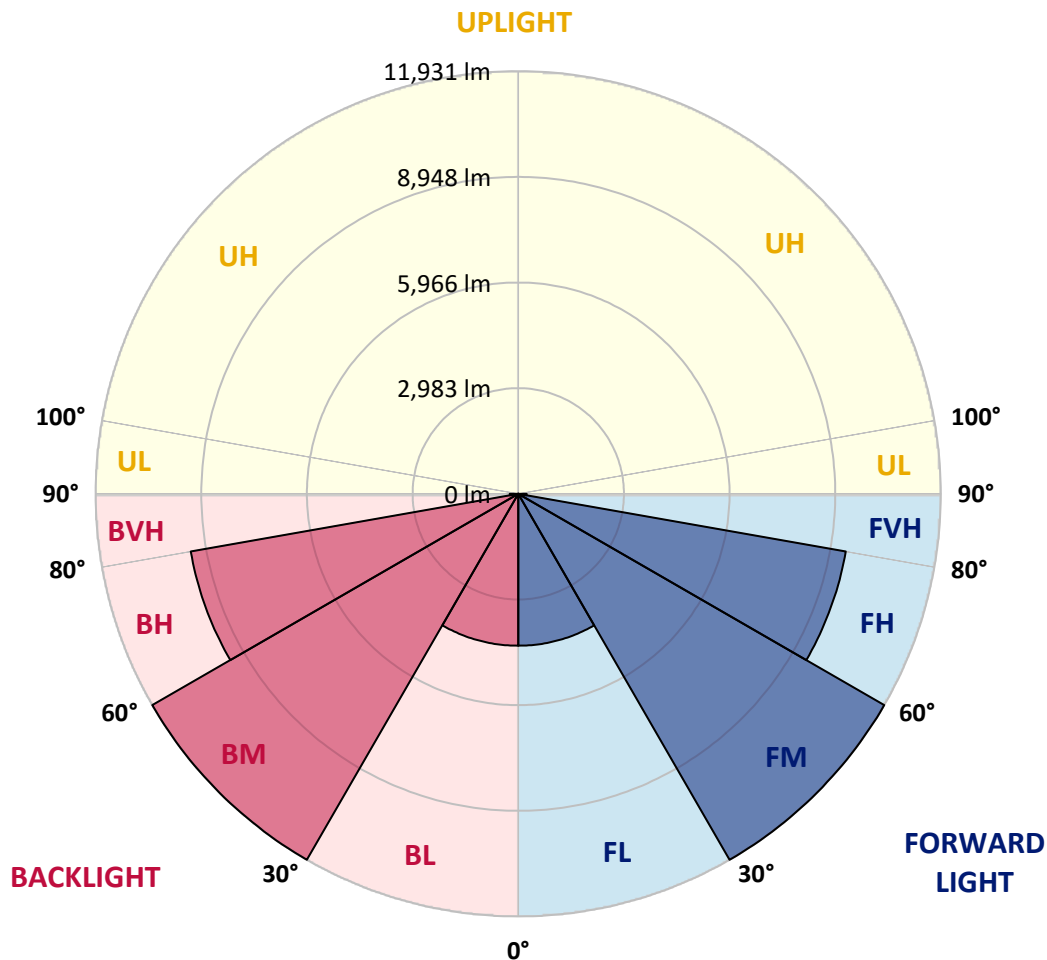


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4287.4	8.3			
FM (30°-60°)	11931.1	23.1			
FH (60°-80°)	9389.3	18.2			G4/12000
FVH (80°-90°)	237.1	0.5			G3/500
BL (0°-30°)	4287.4	8.3	B4/5000		
BM (30°-60°)	11931.1	23.1	B5		
BH (60°-80°)	9389.3	18.2	B5		G5
BVH (80°-90°)	237.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9658.8	9658.8	9658.8	9658.8	9658.8	9658.8	9658.8	9658.8	9658.8	9658.8	9658.8
2.5°	9667.0	9678.0	9678.0	9669.7	9689.0	9672.5	9672.5	9664.3	9672.5	9664.3	9664.3
5°	9716.5	9730.2	9735.7	9733.0	9757.7	9744.0	9744.0	9733.0	9735.7	9727.5	9727.5
7.5°	9809.9	9829.1	9840.1	9853.8	9889.5	9873.0	9862.0	9829.1	9815.4	9793.4	9793.4
10°	9840.1	9862.0	9897.8	9969.2	10051.6	10054.3	10021.4	9939.0	9875.8	9826.4	9818.1
12.5°	9746.7	9776.9	9851.1	9996.6	10180.7	10254.9	10202.6	10065.3	9941.7	9853.8	9840.1
15°	9628.5	9661.5	9774.2	9994.0	10265.9	10438.9	10433.5	10252.2	10054.3	9917.0	9895.0
17.5°	9444.5	9477.5	9639.5	9947.2	10331.8	10617.5	10694.4	10507.6	10230.1	10046.1	10015.9
20°	9112.1	9142.3	9367.6	9798.9	10353.8	10807.1	11007.6	10842.8	10496.6	10246.6	10200.0
22.5°	8680.8	8727.5	8991.2	9543.4	10301.6	11004.8	11364.7	11252.0	10807.1	10460.9	10397.7
25°	8219.3	8268.8	8576.4	9230.2	10167.0	11147.7	11787.8	11716.4	11158.7	10727.3	10639.5
27.5°	7821.0	7873.1	8208.3	8919.8	9958.2	11202.6	12205.3	12241.1	11584.4	11021.3	10927.9
30°	7507.8	7557.2	7914.3	8669.9	9689.0	11147.7	12570.7	12817.9	12018.5	11276.8	11142.2
32.5°	7164.4	7227.6	7604.0	8364.9	9370.3	11015.9	12889.4	13441.5	12521.2	11551.5	11381.2
35°	6730.4	6788.1	7183.6	7947.3	8952.8	10804.3	13155.8	14133.8	13241.0	11969.0	11779.5
37.5°	6202.9	6257.8	6650.7	7425.4	8537.9	10507.6	13359.1	14914.0	14098.1	12570.7	12317.9
40°	5672.8	5724.9	6093.0	6843.0	8040.7	10128.5	13430.6	15677.7	15081.5	13397.6	13128.3
42.5°	5186.5	5233.2	5571.1	6268.9	7483.1	9645.0	13337.1	16342.4	15963.4	13974.4	13628.3
45°	4738.8	4780.0	5079.4	5730.5	6903.5	9057.2	13057.0	17056.7	17012.7	14386.5	13919.5
47.5°	4227.8	4269.0	4579.4	5208.4	6323.8	8367.6	12581.7	17760.0	18471.4	15320.6	14782.1
50°	3604.2	3639.9	3958.6	4606.9	5722.2	7634.2	11922.4	18312.1	20312.0	16735.3	16059.5
52.5°	2865.2	2903.7	3214.1	3862.4	5007.9	6845.8	11054.3	18672.0	22438.3	18801.1	17968.8
55°	2131.7	2159.2	2428.4	3010.8	4123.4	5947.5	9966.5	18773.6	24850.2	21625.1	20583.9
57.5°	1546.6	1563.1	1736.1	2170.2	3126.1	4823.9	8645.1	18509.9	27720.9	25245.7	23935.4
60°	1252.7	1258.2	1310.4	1502.6	2172.9	3554.7	7049.0	17603.4	30836.1	29913.1	28262.0
62.5°	1137.3	1137.3	1151.1	1203.2	1469.6	2346.0	5117.8	15724.3	34176.6	35811.0	33599.7
65°	1057.6	1057.6	1063.1	1087.8	1159.3	1494.4	3230.6	12664.1	36992.4	42720.1	39923.4
67.5°	986.3	988.9	986.3	994.5	1035.7	1104.3	1873.5	8746.7	38508.7	49879.0	46859.8
70°	912.0	917.5	903.7	903.7	936.7	939.5	1173.0	4796.4	37250.5	55878.6	55084.6
72.5°	824.1	832.4	810.4	804.9	829.6	818.7	881.8	2302.0	31981.6	57669.7	59757.5
75°	747.2	758.2	708.8	695.1	695.1	686.7	717.0	1181.2	20757.0	47043.9	50318.5
77.5°	678.6	700.5	620.8	576.9	565.9	541.2	585.2	722.5	9079.1	22086.6	21627.8
80°	560.4	590.6	511.0	458.8	439.5	412.0	461.6	505.4	2700.4	5128.8	4911.8
82.5°	417.6	431.3	362.6	326.9	310.4	291.2	346.1	351.7	879.0	1815.8	2052.0
85°	266.5	271.9	222.5	192.3	184.1	175.8	219.8	192.3	335.2	1335.1	1939.4
87.5°	93.4	107.1	85.2	76.9	82.4	68.7	101.7	57.7	93.4	942.3	1167.5
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)