

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: P971310

Luminaire Tested: **NAV-SB6D-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52852.1 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

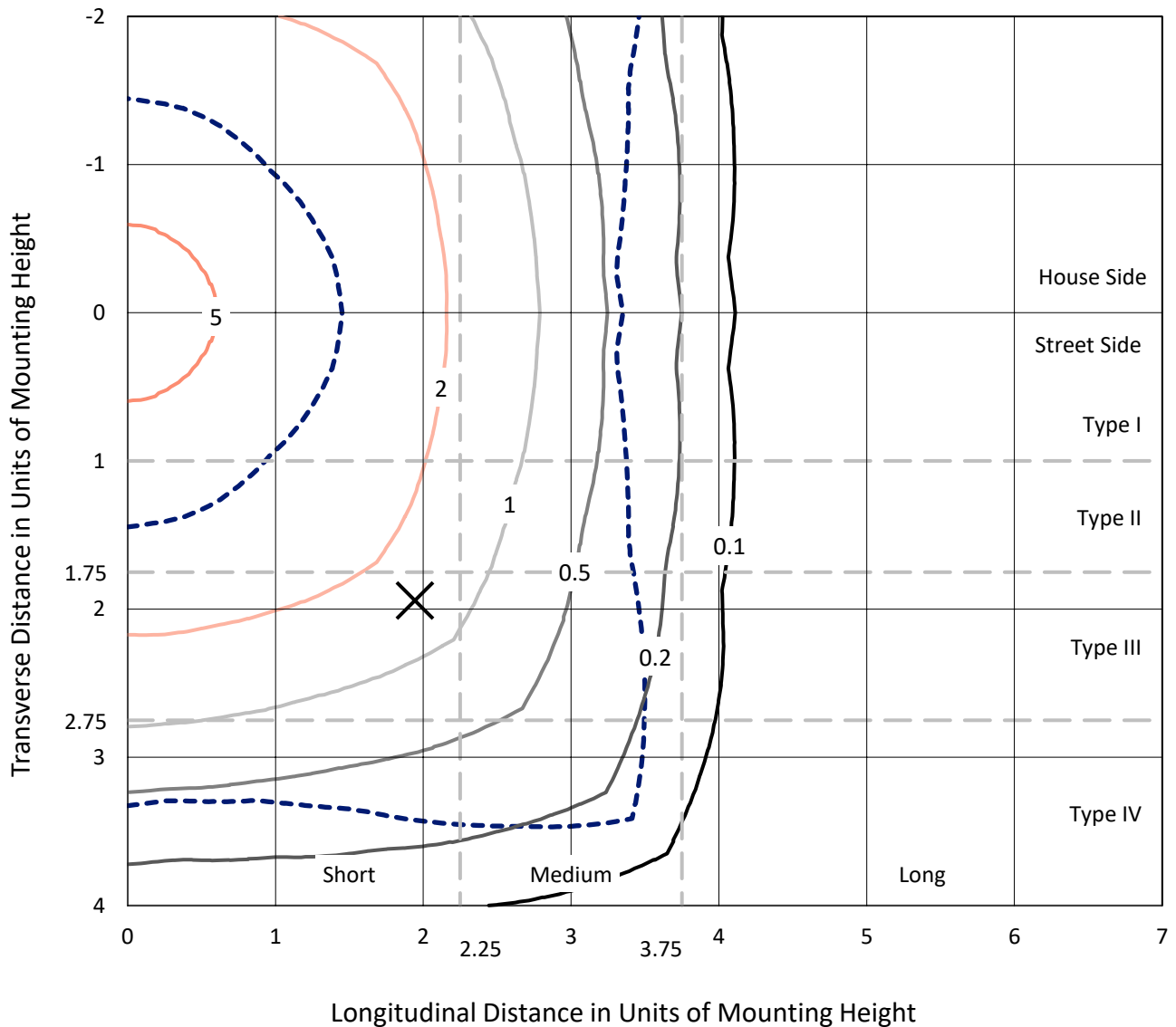
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971310
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

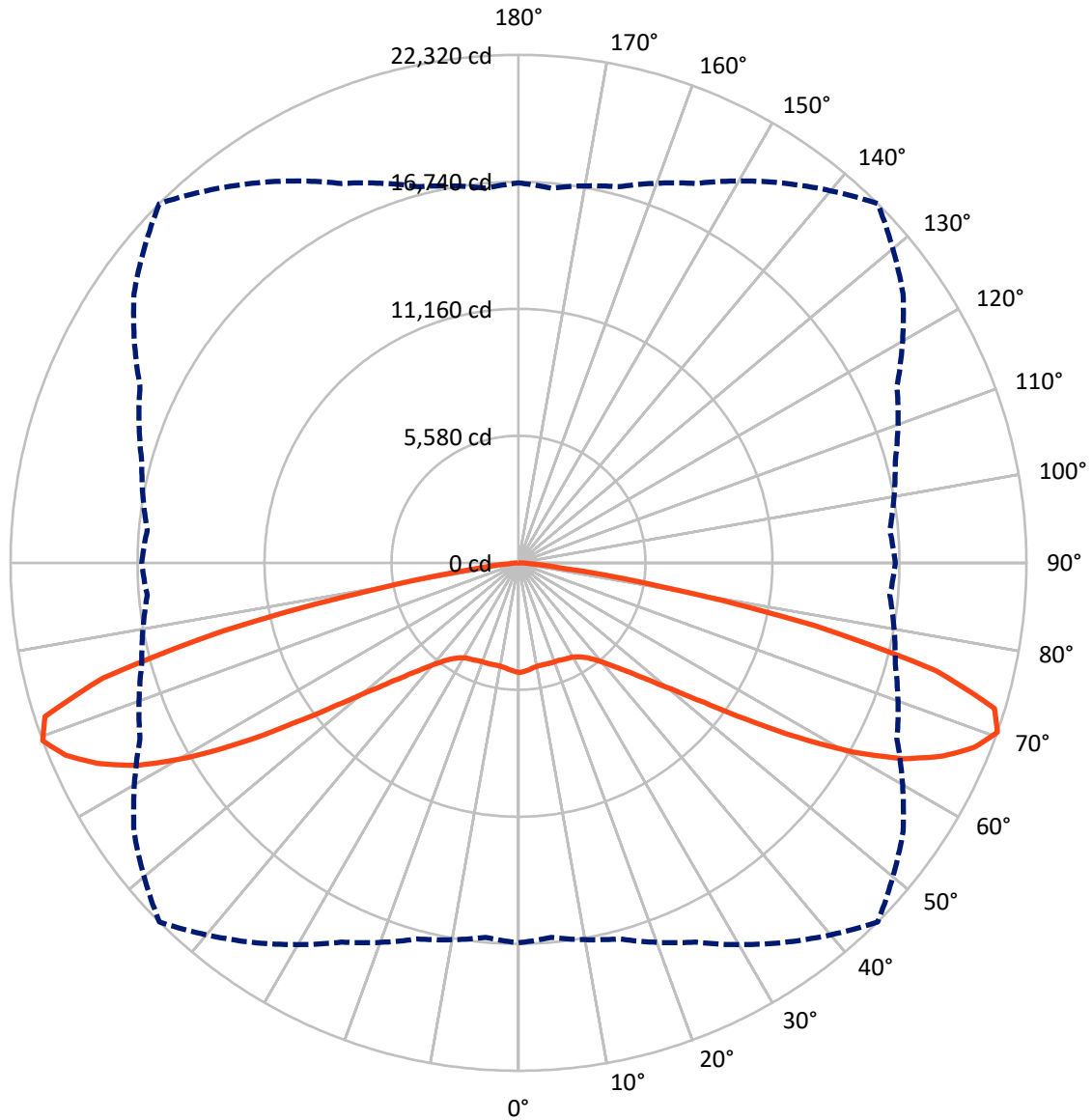
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

REPORT NUMBER: P971310
CATALOG NUMBER: NAV-SB6D-722-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P971310
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

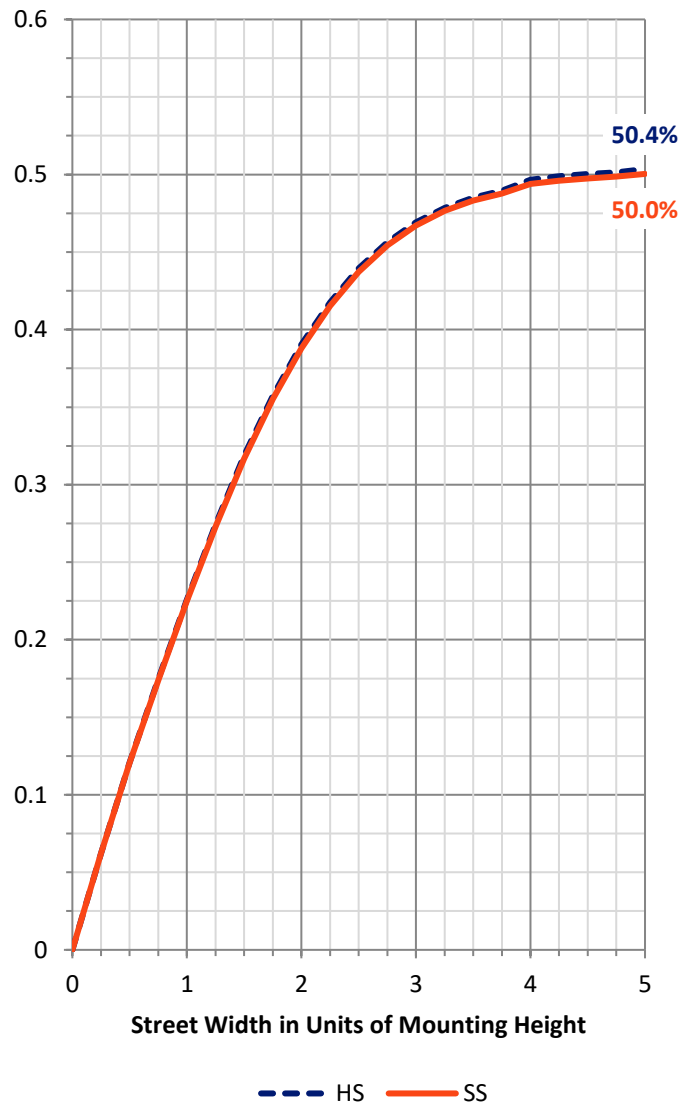
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26426.0	0.0	26426.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26426.0	0.0	26426.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52852.1	0.0	52852.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.5	0.8
10°-20°	1316.9	2.5
20°-30°	2191.4	4.1
30°-40°	3314.1	6.3
40°-50°	5507.3	10.4
50°-60°	10392.0	19.7
60°-70°	17547.4	33.2
70°-80°	11530.4	21.8
80°-90°	604.1	1.1
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°	52852.1	100.0
0°-180°	52852.1	100.0

Coefficient of Utilization



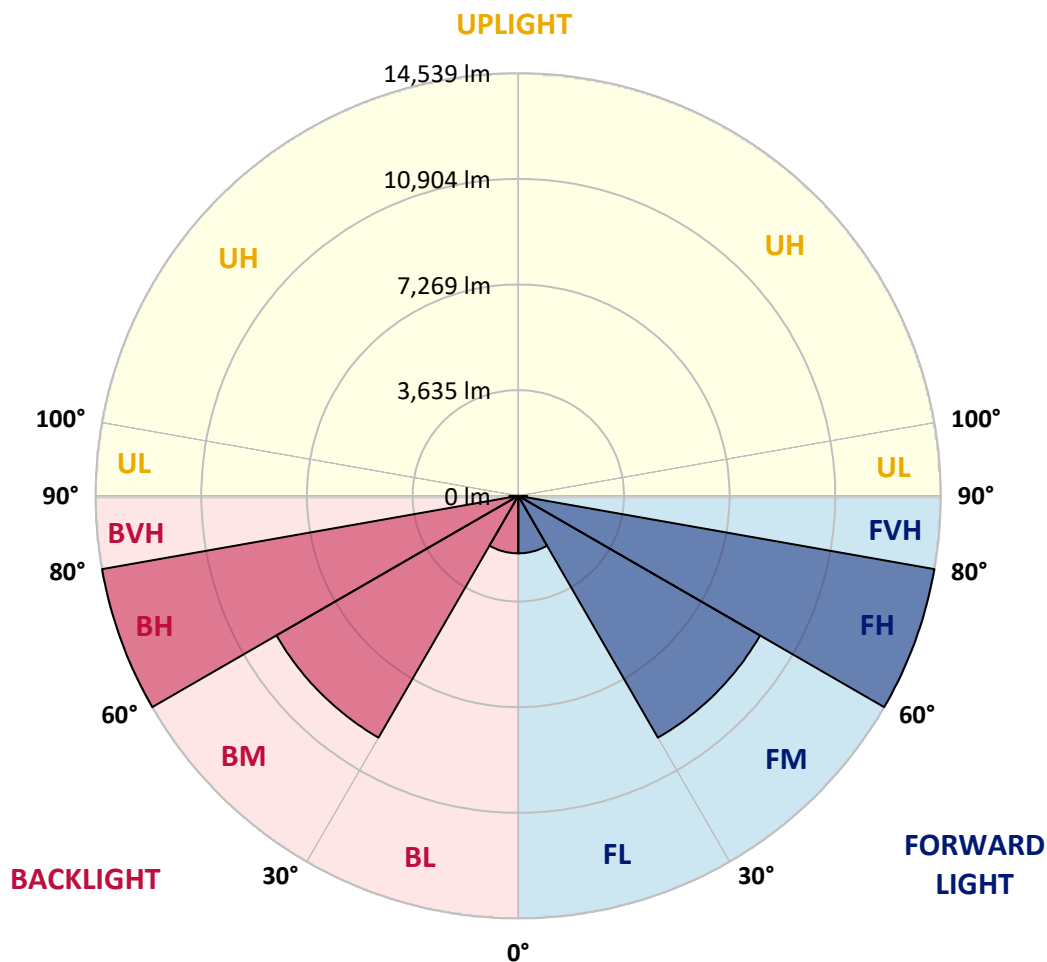
REPORT NUMBER: P971310
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1978.4	3.7			
FM (30°-60°)	9606.7	18.2			
FH (60°-80°)	14538.9	27.5			G5
FVH (80°-90°)	302.0	0.6			G3/500
BL (0°-30°)	1978.4	3.7	B3/2500		
BM (30°-60°)	9606.7	18.2	B5		
BH (60°-80°)	14538.9	27.5	B5		G5
BVH (80°-90°)	302.0	0.6			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 V Short



REPORT NUMBER: P971310
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2
2.5°	4791.0	4804.7	4799.2	4788.2	4788.2	4780.0	4788.2	4793.7	4801.9	4807.5	4804.7
5°	4727.8	4738.8	4736.0	4727.8	4730.5	4722.3	4727.8	4736.0	4741.5	4744.2	4744.2
7.5°	4672.9	4683.8	4678.3	4664.6	4664.6	4656.4	4659.1	4667.3	4675.5	4678.3	4678.3
10°	4659.1	4670.1	4653.6	4631.7	4623.4	4612.4	4615.2	4623.4	4639.9	4648.1	4648.1
12.5°	4664.6	4672.9	4656.4	4623.4	4615.2	4604.2	4604.2	4612.4	4634.3	4645.4	4648.1
15°	4681.1	4689.3	4664.6	4628.9	4620.6	4612.4	4609.6	4620.6	4645.4	4664.6	4667.3
17.5°	4711.3	4719.5	4681.1	4631.7	4620.6	4623.4	4620.6	4628.9	4667.3	4703.0	4703.0
20°	4738.8	4744.2	4692.0	4631.7	4620.6	4623.4	4620.6	4637.1	4686.6	4736.0	4738.8
22.5°	4747.0	4752.5	4703.0	4650.8	4642.6	4645.4	4642.6	4659.1	4705.8	4755.3	4755.3
25°	4749.7	4757.9	4719.5	4678.3	4692.0	4697.6	4692.0	4694.8	4730.5	4774.4	4771.7
27.5°	4791.0	4801.9	4766.2	4730.5	4738.8	4736.0	4744.2	4752.5	4780.0	4824.0	4812.9
30°	4876.1	4884.3	4854.1	4818.4	4812.9	4793.7	4818.4	4845.9	4876.1	4914.6	4906.4
32.5°	5016.2	5032.8	4994.2	4955.8	4931.1	4920.1	4939.3	4986.0	5027.2	5068.4	5051.9
35°	5249.7	5260.7	5225.0	5153.6	5109.6	5109.6	5126.1	5186.5	5252.5	5304.7	5285.4
37.5°	5579.4	5593.1	5530.0	5444.8	5378.8	5378.8	5400.8	5464.0	5562.9	5637.1	5609.6
40°	5980.5	5999.6	5920.0	5832.1	5768.9	5757.9	5785.4	5856.8	5950.2	6043.6	6013.4
42.5°	6464.0	6485.9	6381.5	6304.6	6255.2	6255.2	6268.9	6334.8	6420.0	6535.4	6527.1
45°	7082.0	7120.5	6977.7	6900.7	6854.1	6865.0	6873.2	6930.9	7007.8	7139.7	7134.2
47.5°	7818.3	7856.7	7705.6	7626.0	7617.7	7670.0	7637.0	7678.2	7719.4	7870.5	7826.5
50°	8653.4	8719.4	8614.9	8609.4	8625.9	8722.0	8645.2	8667.1	8620.5	8716.6	8658.9
52.5°	9675.3	9771.4	9752.3	9785.2	9969.3	10167.1	9991.2	9914.3	9738.5	9768.8	9667.1
55°	10914.3	11059.9	11087.3	11285.1	11702.6	12106.5	11732.9	11422.5	11048.9	10980.2	10873.1
57.5°	12323.5	12438.9	12570.8	12974.6	13754.8	14471.8	13754.8	13068.0	12480.1	12340.0	12241.1
60°	13840.0	13982.7	14109.1	14705.3	15864.5	16872.7	15842.6	14752.0	13974.5	13785.0	13620.2
62.5°	15469.0	15653.0	15740.9	16403.0	17754.5	18957.8	17773.8	16452.4	15589.8	15386.6	15221.8
65°	17032.0	17183.2	17282.0	17988.0	19279.2	20485.1	19367.1	18065.0	17177.7	16911.2	16779.4
67.5°	17760.1	17842.5	18084.2	18883.6	20246.2	21622.5	20476.9	18968.8	17977.1	17510.1	17515.5
70°	16694.2	16526.6	17109.0	18389.1	20361.5	22320.3	20625.3	18350.7	17136.5	16378.3	16559.6
72.5°	12900.4	12612.0	13622.9	15812.4	19043.0	21875.2	19174.8	15936.0	14252.0	12713.6	13095.5
75°	7018.9	6691.9	8087.5	10856.6	15186.0	18960.6	15534.9	11167.0	9005.0	6966.6	7420.0
77.5°	1980.7	1857.1	2983.4	5252.5	9134.1	13312.5	9485.8	5367.8	3538.3	2098.8	2332.3
80°	607.1	587.8	796.6	1582.3	3878.9	6376.0	3727.8	1601.6	1013.7	640.1	675.8
82.5°	359.9	329.6	395.5	576.9	988.9	2002.6	961.4	601.6	483.5	324.2	351.7
85°	206.0	192.3	233.5	280.2	332.4	425.8	277.5	285.7	258.2	173.0	181.3
87.5°	85.2	76.9	90.6	87.9	76.9	98.9	74.2	87.9	104.3	68.7	63.1
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)