

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: P885432

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49785 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

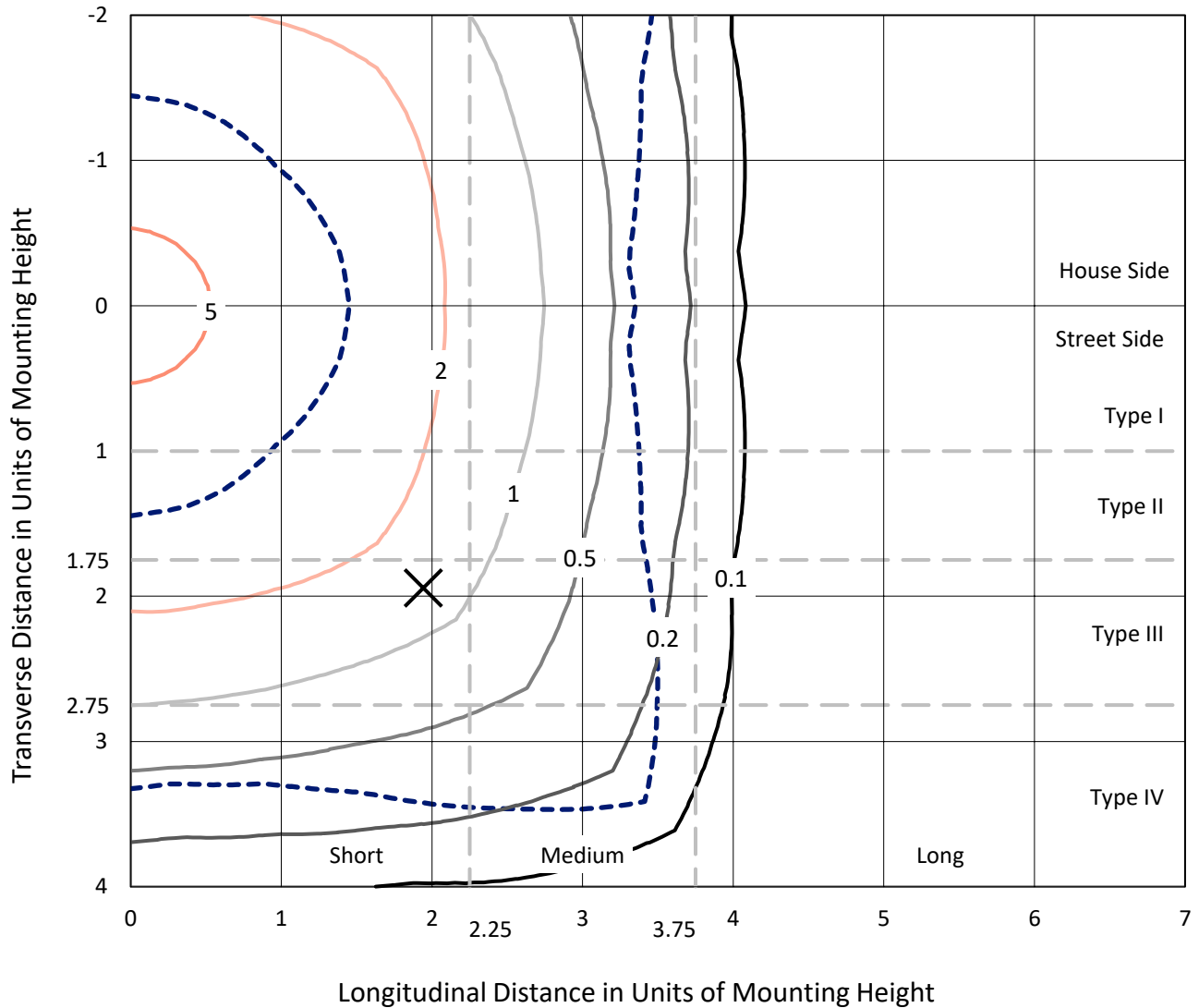
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885432
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

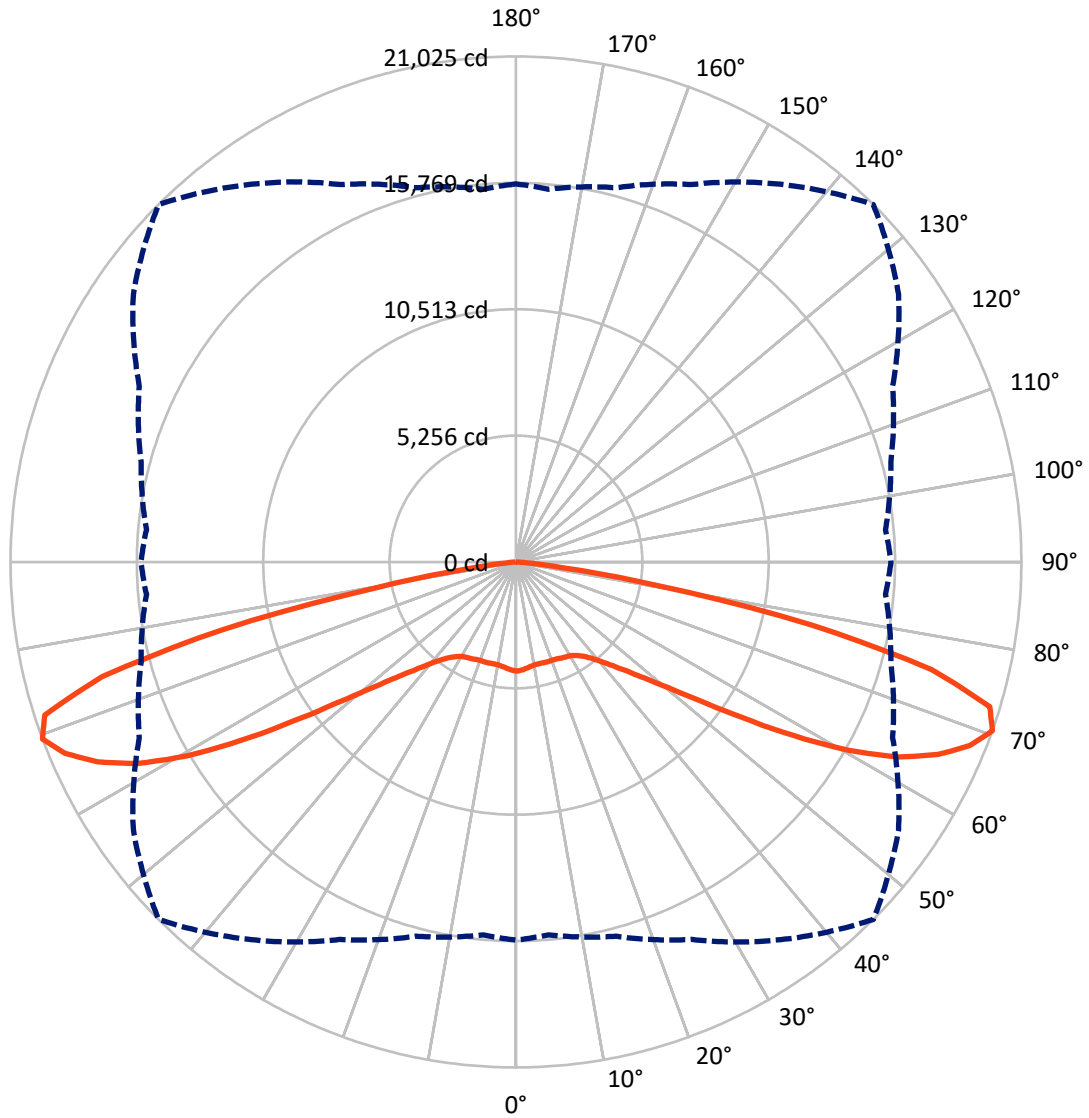
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

REPORT NUMBER: P885432
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: P885432
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

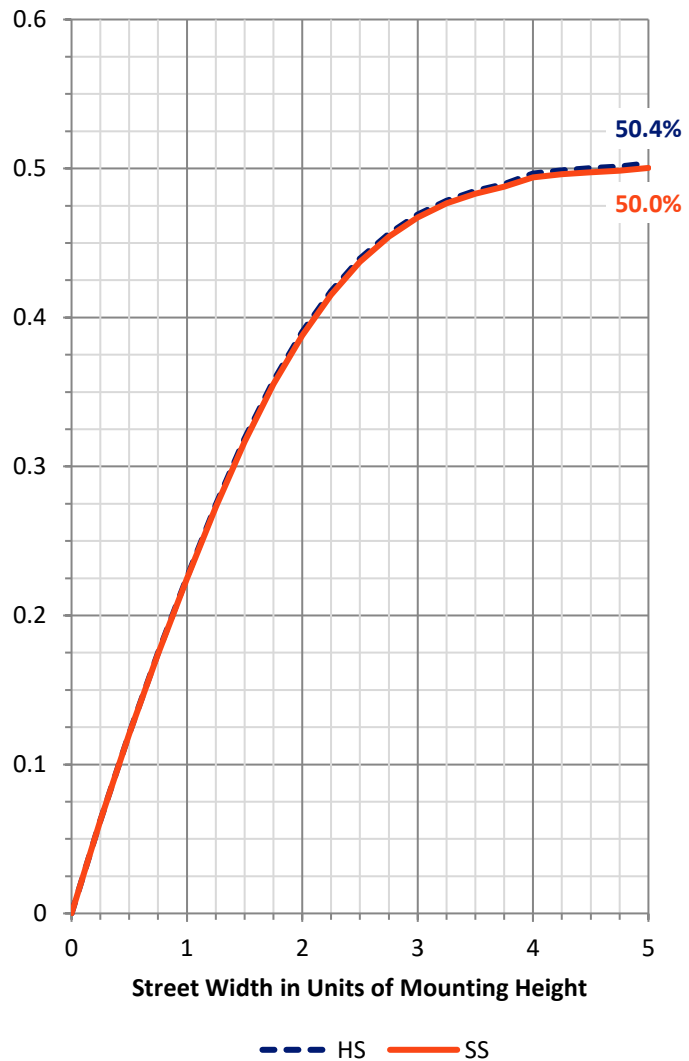
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24892.5	0.0	24892.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24892.5	0.0	24892.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49785.0	0.0	49785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.5	0.8
10°-20°	1240.4	2.5
20°-30°	2064.3	4.1
30°-40°	3121.8	6.3
40°-50°	5187.7	10.4
50°-60°	9789.0	19.7
60°-70°	16529.1	33.2
70°-80°	10861.3	21.8
80°-90°	569.0	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°	49785.0	100.0
0°-180°	49785.0	100.0

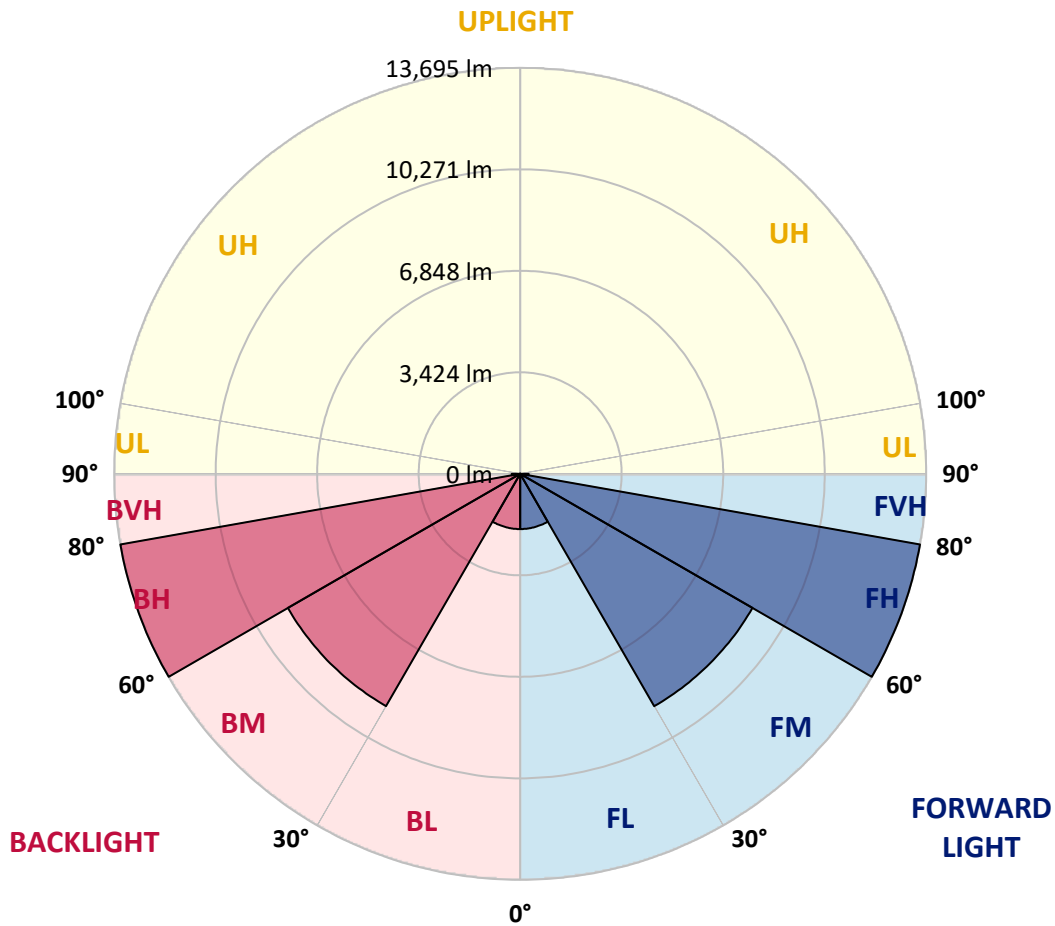


REPORT NUMBER: P885432
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.6	3.7			
FM (30°-60°)	9049.2	18.2			
FH (60°-80°)	13695.2	27.5			G5
FVH (80°-90°)	284.5	0.6			G3/500
BL (0°-30°)	1863.6	3.7	B3/2500		
BM (30°-60°)	9049.2	18.2	B5		
BH (60°-80°)	13695.2	27.5	B5		G5
BVH (80°-90°)	284.5	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: P885432
 CATALOG NUMBER: NAV-SB6D-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4541.4	4541.4	4541.4	4541.4	4541.4	4541.4	4541.4	4541.4	4541.4	4541.4	4541.4
2.5°	4512.9	4525.9	4520.7	4510.3	4510.3	4502.6	4510.3	4515.5	4523.3	4528.5	4525.9
5°	4453.4	4463.8	4461.2	4453.4	4456.0	4448.2	4453.4	4461.2	4466.4	4468.9	4468.9
7.5°	4401.7	4412.0	4406.8	4393.9	4393.9	4386.1	4388.7	4396.5	4404.2	4406.8	4406.8
10°	4388.7	4399.1	4383.5	4362.8	4355.1	4344.7	4347.3	4355.1	4370.6	4378.4	4378.4
12.5°	4393.9	4401.7	4386.1	4355.1	4347.3	4337.0	4337.0	4344.7	4365.4	4375.8	4378.4
15°	4409.4	4417.2	4393.9	4360.3	4352.5	4344.7	4342.1	4352.5	4375.8	4393.9	4396.5
17.5°	4437.9	4445.6	4409.4	4362.8	4352.5	4355.1	4352.5	4360.3	4396.5	4430.1	4430.1
20°	4463.8	4468.9	4419.8	4362.8	4352.5	4355.1	4352.5	4368.0	4414.6	4461.2	4463.8
22.5°	4471.5	4476.7	4430.1	4381.0	4373.2	4375.8	4373.2	4388.7	4432.7	4479.3	4479.3
25°	4474.1	4481.9	4445.6	4406.8	4419.8	4424.9	4419.8	4422.4	4456.0	4497.4	4494.8
27.5°	4512.9	4523.3	4489.6	4456.0	4463.8	4461.2	4468.9	4476.7	4502.6	4544.0	4533.6
30°	4593.1	4600.9	4572.4	4538.8	4533.6	4515.5	4538.8	4564.7	4593.1	4629.4	4621.6
32.5°	4725.1	4740.6	4704.4	4668.2	4644.9	4634.6	4652.7	4696.7	4735.5	4774.3	4758.8
35°	4945.1	4955.4	4921.8	4854.5	4813.1	4813.1	4828.6	4885.6	4947.7	4996.8	4978.7
37.5°	5255.6	5268.5	5209.0	5128.8	5066.7	5066.7	5087.4	5146.9	5240.1	5309.9	5284.1
40°	5633.4	5651.5	5576.5	5493.7	5434.1	5423.8	5449.7	5517.0	5604.9	5692.9	5664.5
42.5°	6088.8	6109.5	6011.2	5938.7	5892.2	5892.2	5905.1	5967.2	6047.4	6156.1	6148.3
45°	6671.1	6707.3	6572.7	6500.3	6456.3	6466.6	6474.4	6528.7	6601.2	6725.4	6720.2
47.5°	7364.6	7400.8	7258.5	7183.4	7175.7	7224.8	7193.8	7232.6	7271.4	7413.7	7372.3
50°	8151.2	8213.3	8115.0	8109.8	8125.3	8215.9	8143.5	8164.2	8120.2	8210.7	8156.4
52.5°	9113.8	9204.4	9186.3	9217.3	9390.7	9577.0	9411.4	9339.0	9173.4	9201.8	9106.1
55°	10280.9	10418.0	10443.9	10630.2	11023.6	11403.9	11052.0	10759.6	10407.7	10343.0	10242.1
57.5°	11608.4	11717.1	11841.3	12221.7	12956.6	13631.9	12956.6	12309.6	11755.9	11623.9	11530.7
60°	13036.8	13171.3	13290.4	13851.9	14943.9	15893.6	14923.2	13895.9	13163.6	12985.0	12829.8
62.5°	14571.3	14744.7	14827.5	15451.1	16724.2	17857.6	16742.3	15497.7	14685.1	14493.6	14338.4
65°	16043.7	16186.0	16279.2	16944.2	18160.4	19296.4	18243.2	17016.6	16180.8	15929.8	15805.6
67.5°	16729.4	16807.0	17034.8	17787.8	19071.3	20367.7	19288.6	17868.0	16933.8	16493.9	16499.1
70°	15725.4	15567.5	16116.1	17322.0	19180.0	21025.0	19428.4	17285.8	16142.0	15427.8	15598.6
72.5°	12151.8	11880.1	12832.4	14894.7	17937.9	20605.8	18062.1	15011.2	13424.9	11975.8	12335.5
75°	6611.5	6303.6	7618.2	10226.5	14304.7	17860.2	14633.4	10519.0	8482.4	6562.4	6989.3
77.5°	1865.7	1749.3	2810.2	4947.7	8604.1	12539.9	8935.3	5056.3	3332.9	1977.0	2196.9
80°	571.9	553.8	750.4	1490.5	3653.8	6006.0	3511.5	1508.6	954.9	602.9	636.6
82.5°	339.0	310.5	372.6	543.4	931.6	1886.4	905.7	566.7	455.4	305.3	331.2
85°	194.1	181.1	220.0	263.9	313.1	401.1	261.4	269.1	243.2	163.0	170.8
87.5°	80.2	72.5	85.4	82.8	72.5	93.2	69.9	82.8	98.3	64.7	59.5
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)