

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: P885265

Luminaire Tested: **NAV-SB6C-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35834 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

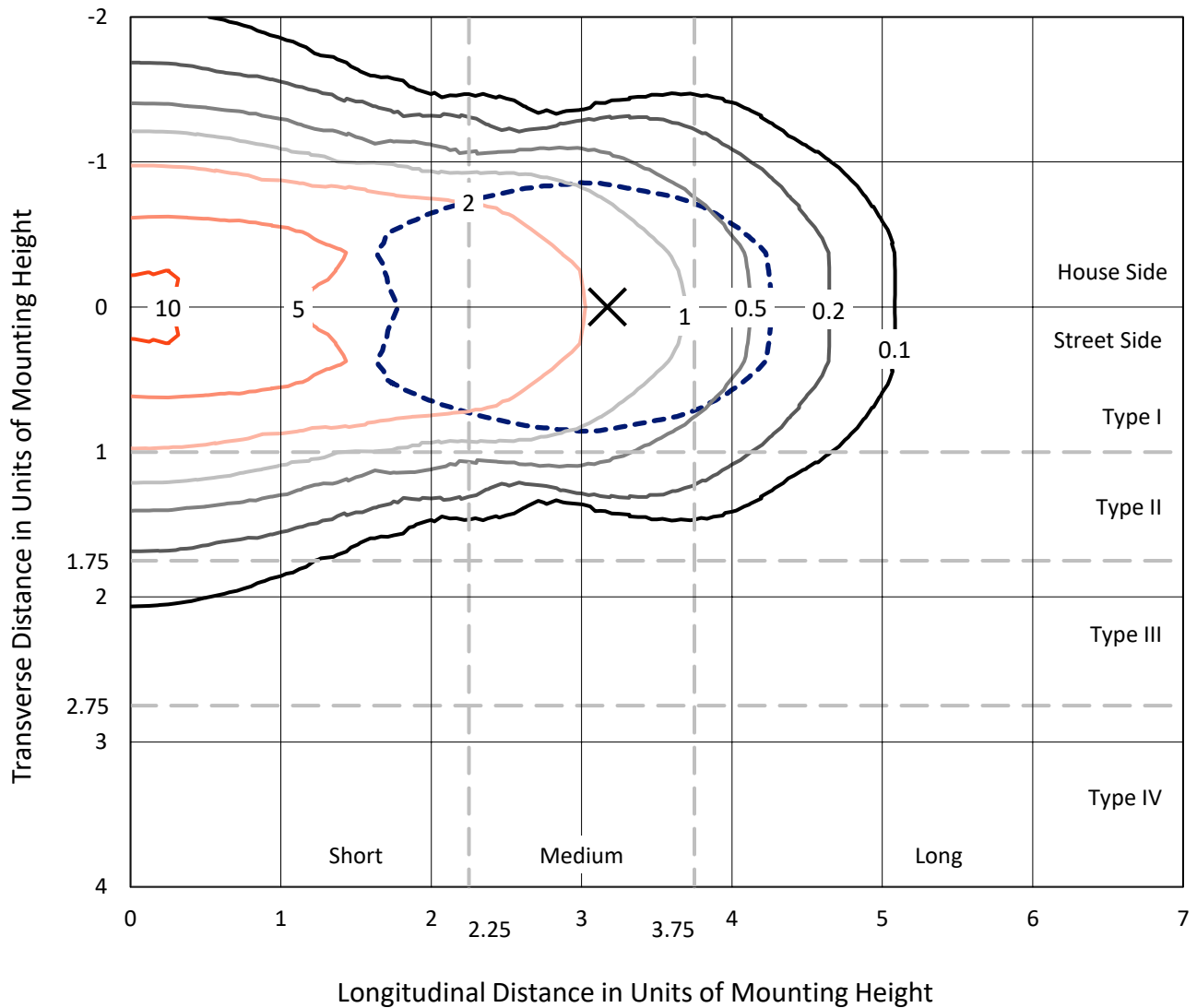
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

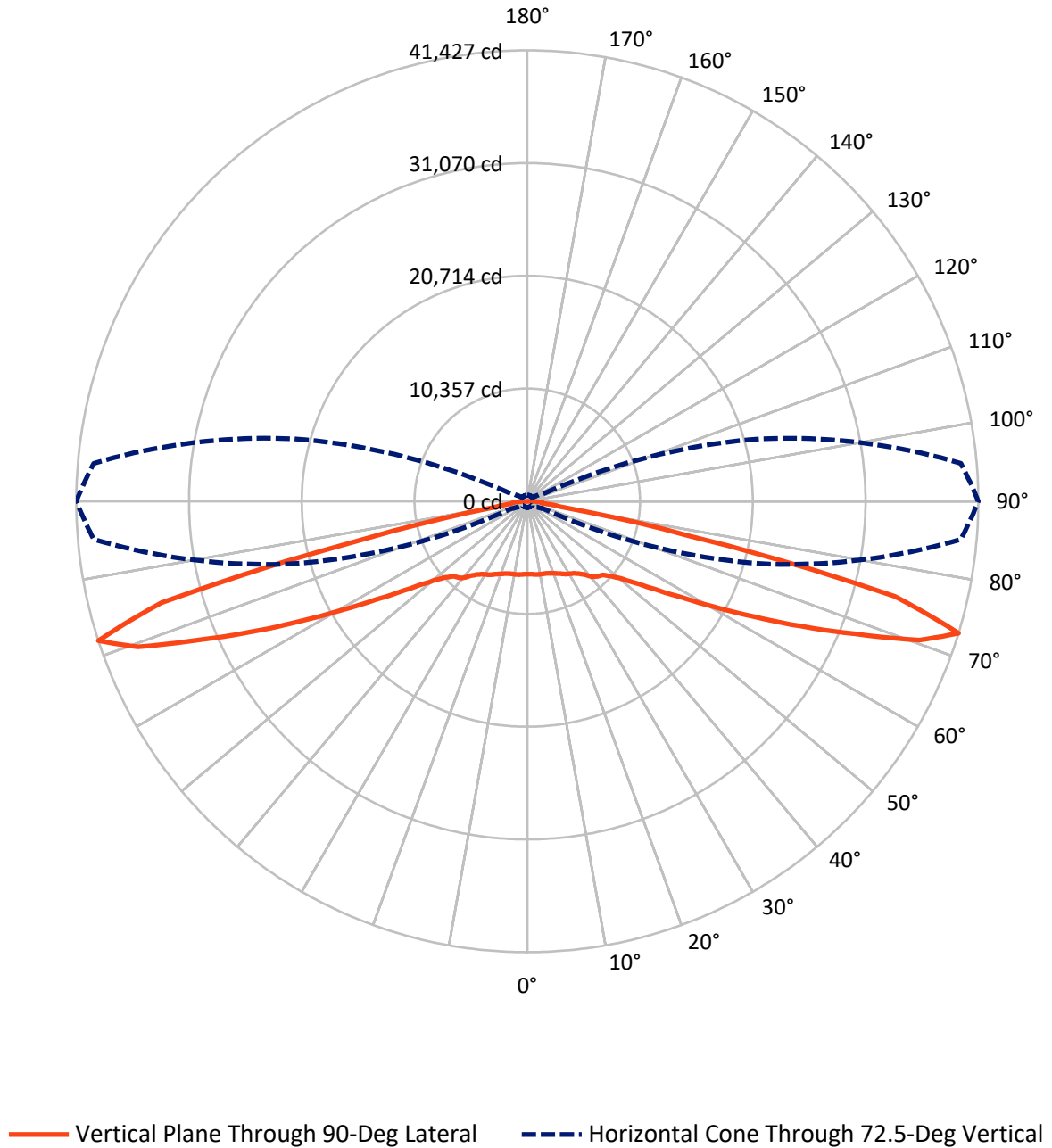
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17917.0	0.0	17917.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17917.0	0.0	17917.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35834.0	0.0	35834.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.3	1.8
10°-20°	1985.2	5.5
20°-30°	3310.1	9.2
30°-40°	4552.4	12.7
40°-50°	5559.7	15.5
50°-60°	6430.4	17.9
60°-70°	7667.2	21.4
70°-80°	5351.2	14.9
80°-90°	328.7	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°	35834.0	100.0
0°-180°	35834.0	100.0



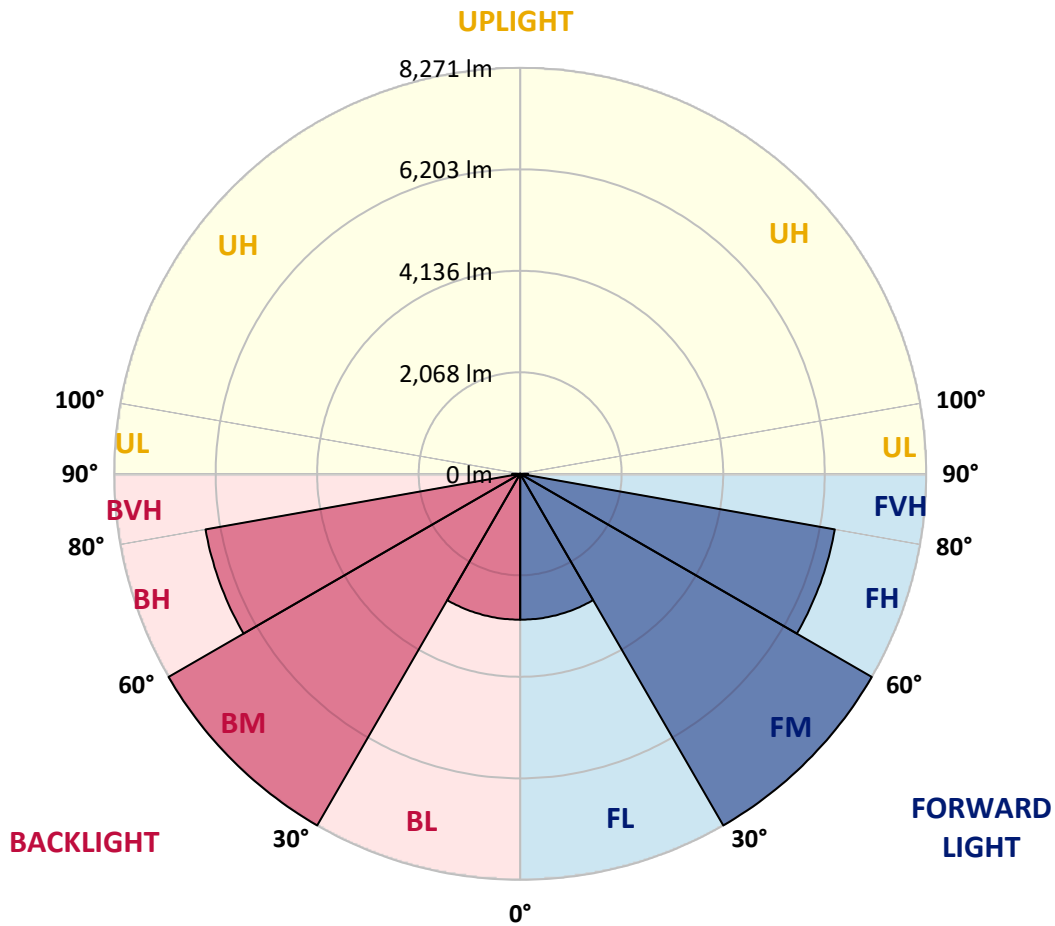
REPORT NUMBER: P885265
 CATALOG NUMBER: NAV-SB6C-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.2	8.3			
FM (30°-60°)	8271.2	23.1			
FH (60°-80°)	6509.2	18.2			G3/7500
FVH (80°-90°)	164.3	0.5			G2/225
BL (0°-30°)	2972.2	8.3	B4/5000		
BM (30°-60°)	8271.2	23.1	B4/8500		
BH (60°-80°)	6509.2	18.2	B5		G5
BVH (80°-90°)	164.3	0.5			G2/225
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°	6696.0	6696.0	6696.0	6696.0	6696.0	6696.0	6696.0	6696.0	6696.0	6696.0	6696.0
2.5°	6701.7	6709.3	6709.3	6703.6	6716.9	6705.5	6705.5	6699.8	6705.5	6699.8	6699.8
5°	6736.0	6745.5	6749.3	6747.4	6764.5	6755.0	6755.0	6747.4	6749.3	6743.6	6743.6
7.5°	6800.7	6814.0	6821.7	6831.2	6855.9	6844.5	6836.9	6814.0	6804.5	6789.3	6789.3
10°	6821.7	6836.9	6861.6	6911.2	6968.3	6970.2	6947.3	6890.2	6846.4	6812.1	6806.4
12.5°	6756.9	6777.9	6829.3	6930.2	7057.8	7109.2	7073.0	6977.8	6892.1	6831.2	6821.7
15°	6675.0	6697.9	6775.9	6928.3	7116.8	7236.8	7233.0	7107.3	6970.2	6875.0	6859.7
17.5°	6547.4	6570.3	6682.6	6895.9	7162.5	7360.6	7413.9	7284.4	7092.1	6964.5	6943.5
20°	6317.0	6337.9	6494.1	6793.1	7177.8	7492.0	7631.0	7516.8	7276.8	7103.5	7071.1
22.5°	6018.0	6050.4	6233.2	6616.0	7141.6	7629.1	7878.6	7800.5	7492.0	7252.1	7208.3
25°	5698.0	5732.3	5945.6	6398.9	7048.3	7728.2	8171.9	8122.4	7735.8	7436.8	7375.8
27.5°	5421.9	5458.1	5690.4	6183.7	6903.5	7766.2	8461.4	8486.1	8031.0	7640.6	7575.8
30°	5204.8	5239.1	5486.7	6010.4	6716.9	7728.2	8714.7	8886.1	8331.9	7817.7	7724.4
32.5°	4966.7	5010.5	5271.5	5799.0	6496.0	7636.7	8935.6	9318.4	8680.4	8008.1	7890.0
35°	4665.8	4705.8	4980.1	5509.5	6206.5	7490.1	9120.3	9798.3	9179.3	8297.6	8166.2
37.5°	4300.2	4338.3	4610.6	5147.7	5919.0	7284.4	9261.2	10339.1	9773.5	8714.7	8539.4
40°	3932.6	3968.8	4224.0	4743.9	5574.3	7021.6	9310.7	10868.6	10455.3	9287.9	9101.3
42.5°	3595.6	3627.9	3862.2	4345.9	5187.7	6686.4	9246.0	11329.4	11066.6	9687.8	9447.9
45°	3285.1	3313.7	3521.3	3972.6	4785.8	6278.9	9051.7	11824.6	11794.1	9973.5	9649.7
47.5°	2930.9	2959.5	3174.7	3610.8	4384.0	5800.9	8722.3	12312.1	12805.4	10621.0	10247.7
50°	2498.6	2523.4	2744.3	3193.7	3966.9	5292.4	8265.2	12694.9	14081.3	11601.8	11133.3
52.5°	1986.3	2013.0	2228.2	2677.6	3471.8	4745.8	7663.4	12944.4	15555.4	13033.9	12456.8
55°	1477.8	1496.9	1683.5	2087.3	2858.5	4123.1	6909.3	13014.8	17227.4	14991.6	14269.9
57.5°	1072.2	1083.6	1203.6	1504.5	2167.2	3344.2	5993.2	12832.0	19217.6	17501.7	16593.3
60°	868.4	872.2	908.4	1041.7	1506.4	2464.3	4886.8	12203.6	21377.2	20737.3	19592.7
62.5°	788.4	788.4	798.0	834.1	1018.9	1626.4	3547.9	10900.9	23693.0	24826.1	23293.0
65°	733.2	733.2	737.0	754.2	803.7	1036.0	2239.6	8779.4	25645.0	29615.7	27677.0
67.5°	683.7	685.6	683.7	689.4	718.0	765.6	1298.8	6063.7	26696.2	34578.7	32485.7
70°	632.3	636.1	626.6	626.6	649.4	651.3	813.2	3325.1	25824.0	38737.9	38187.5
72.5°	571.3	577.0	561.8	558.0	575.1	567.5	611.3	1595.9	22171.3	39979.6	41427.0
75°	518.0	525.6	491.3	481.8	481.8	476.1	497.1	818.9	14389.8	32613.3	34883.4
77.5°	470.4	485.6	430.4	399.9	392.3	375.2	405.6	500.9	6294.1	15311.6	14993.5
80°	388.5	409.5	354.2	318.0	304.7	285.7	319.9	350.4	1872.1	3555.6	3405.1
82.5°	289.5	299.0	251.4	226.6	215.2	201.9	240.0	243.8	609.4	1258.8	1422.6
85°	184.7	188.5	154.3	133.3	127.6	121.9	152.4	133.3	232.3	925.6	1344.5
87.5°	64.8	74.3	59.0	53.3	57.1	47.6	70.5	40.0	64.8	653.2	809.4
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)