

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: P885295

Luminaire Tested: **NAV-SB6C-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885295
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44968 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

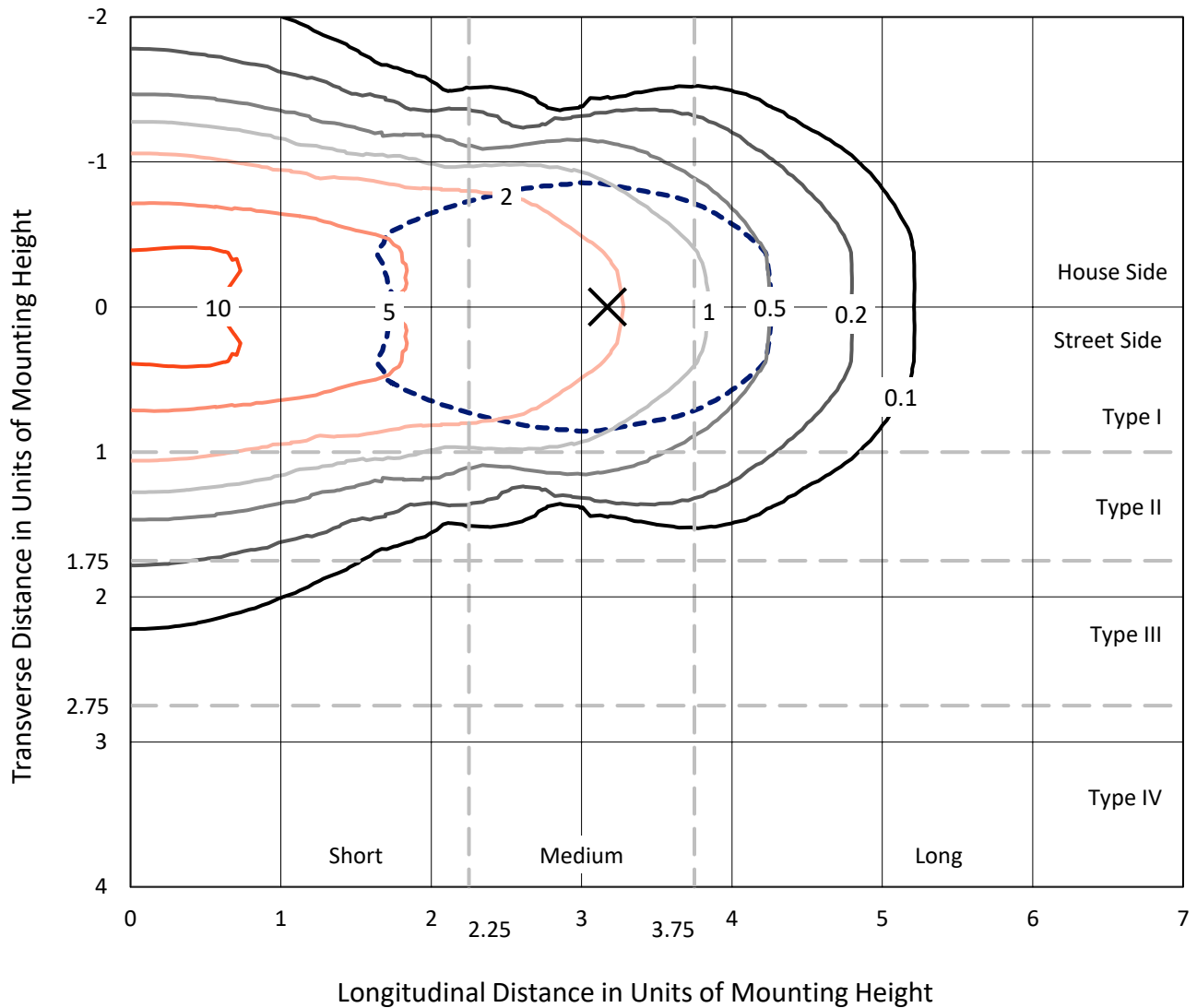
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

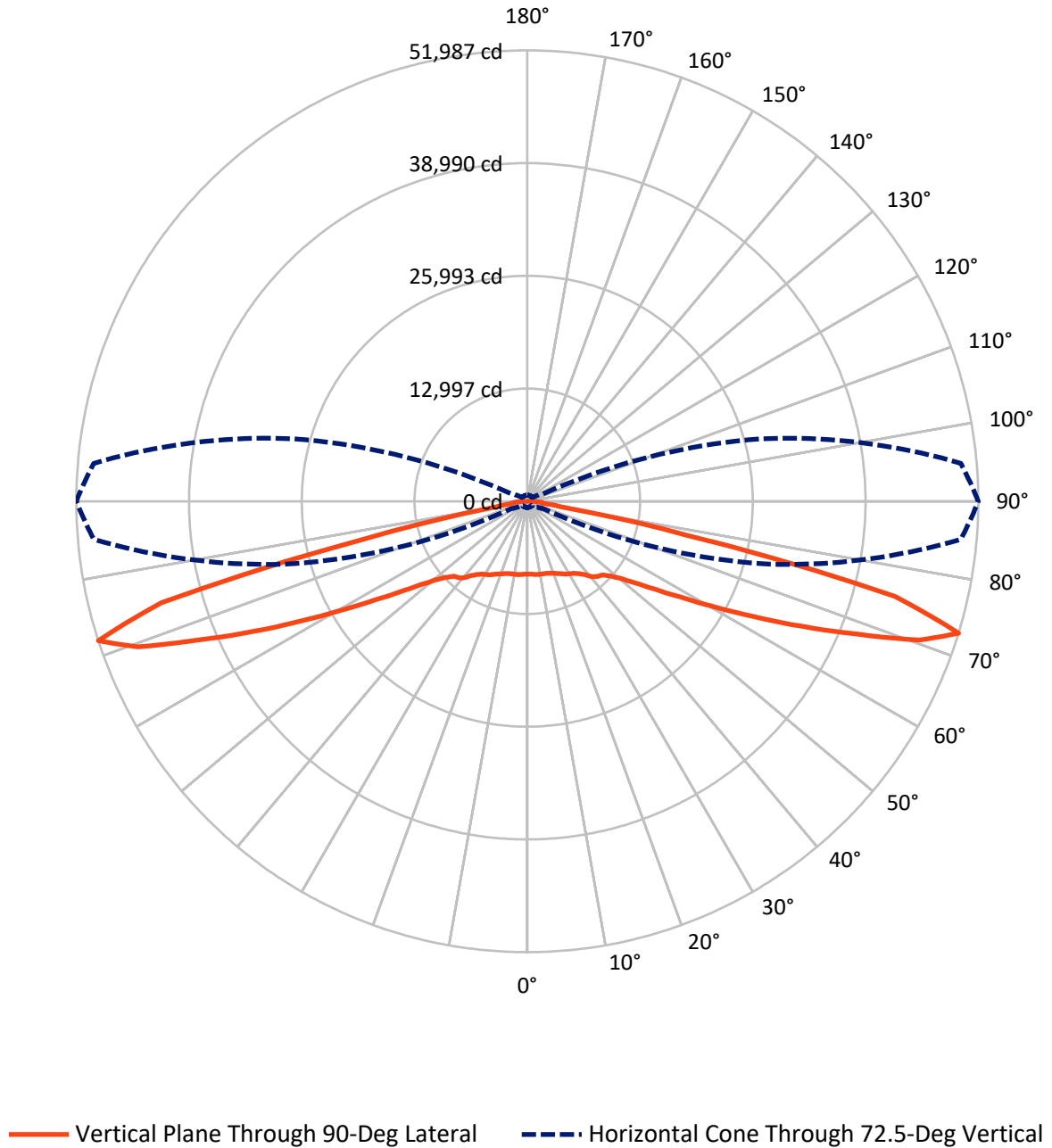
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	22484.0	0.0	22484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22484.0	0.0	22484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44968.0	0.0	44968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.7	1.8
10°-20°	2491.2	5.5
20°-30°	4153.8	9.2
30°-40°	5712.8	12.7
40°-50°	6976.9	15.5
50°-60°	8069.5	17.9
60°-70°	9621.5	21.4
70°-80°	6715.2	14.9
80°-90°	412.5	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°	44968.0	100.0
0°-180°	44968.0	100.0

Coefficient of Utilization



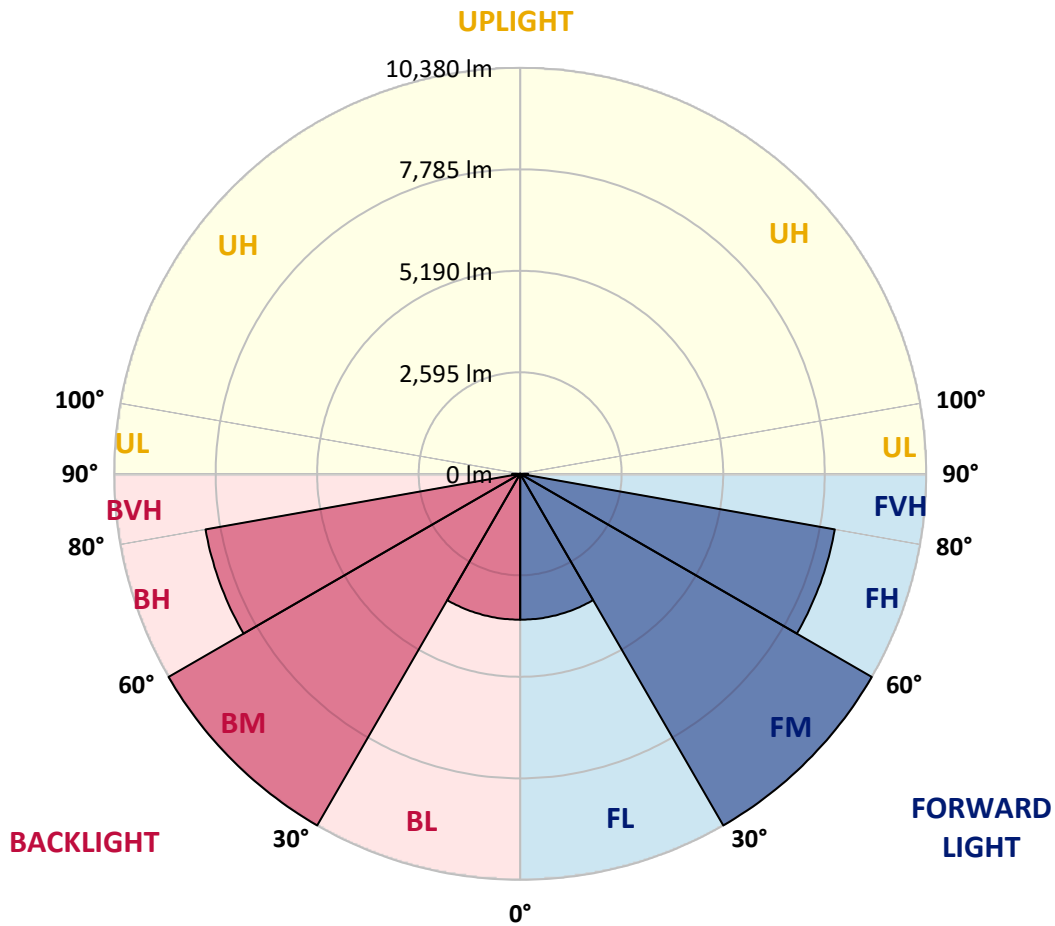
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3729.9	8.3			
FM (30°-60°)	10379.6	23.1			
FH (60°-80°)	8168.4	18.2			G4/12000
FVH (80°-90°)	206.2	0.5			G2/225
BL (0°-30°)	3729.9	8.3	B4/5000		
BM (30°-60°)	10379.6	23.1	B5		
BH (60°-80°)	8168.4	18.2	B5		G5
BVH (80°-90°)	206.2	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°	8402.7	8402.7	8402.7	8402.7	8402.7	8402.7	8402.7	8402.7	8402.7	8402.7	8402.7
2.5°	8409.9	8419.5	8419.5	8412.3	8429.0	8414.7	8414.7	8407.5	8414.7	8407.5	8407.5
5°	8452.9	8464.9	8469.7	8467.3	8488.8	8476.8	8476.8	8467.3	8469.7	8462.5	8462.5
7.5°	8534.2	8550.9	8560.5	8572.4	8603.5	8589.2	8579.6	8550.9	8539.0	8519.8	8519.8
10°	8560.5	8579.6	8610.7	8672.8	8744.5	8746.9	8718.2	8646.5	8591.5	8548.5	8541.4
12.5°	8479.2	8505.5	8570.0	8696.7	8856.8	8921.3	8875.9	8756.4	8648.9	8572.4	8560.5
15°	8376.5	8405.1	8503.1	8694.3	8930.9	9081.5	9076.7	8919.0	8746.9	8627.4	8608.3
17.5°	8216.3	8245.0	8386.0	8653.7	8988.3	9236.8	9303.7	9141.2	8899.8	8739.7	8713.4
20°	7927.2	7953.5	8149.4	8524.6	9007.4	9401.7	9576.2	9432.8	9131.7	8914.2	8873.5
22.5°	7552.0	7592.6	7822.0	8302.4	8962.0	9573.8	9886.8	9788.9	9401.7	9100.6	9045.6
25°	7150.5	7193.5	7461.1	8029.9	8844.9	9698.0	10254.9	10192.8	9707.6	9332.4	9255.9
27.5°	6803.9	6849.3	7140.9	7759.9	8663.2	9745.8	10618.1	10649.2	10078.0	9588.1	9506.9
30°	6531.5	6574.5	6885.2	7542.4	8429.0	9698.0	10936.0	11151.1	10455.6	9810.4	9693.3
32.5°	6232.8	6287.7	6615.1	7277.1	8151.8	9583.3	11213.2	11693.6	10893.0	10049.4	9901.2
35°	5855.2	5905.3	6249.5	6913.9	7788.6	9399.3	11445.0	12295.8	11519.1	10412.6	10247.7
37.5°	5396.3	5444.1	5785.8	6459.8	7427.7	9141.2	11621.9	12974.5	12264.8	10936.0	10716.1
40°	4935.1	4980.5	5300.7	5953.1	6995.1	8811.4	11684.0	13638.9	13120.3	11655.3	11421.1
42.5°	4512.1	4552.7	4846.6	5453.7	6510.0	8390.8	11602.8	14217.3	13887.5	12157.2	11856.1
45°	4122.5	4158.4	4418.8	4985.2	6005.7	7879.4	11359.0	14838.6	14800.4	12515.7	12109.4
47.5°	3678.0	3713.8	3983.9	4531.2	5501.5	7279.5	10945.6	15450.4	16069.4	13328.2	12859.8
50°	3135.5	3166.6	3443.8	4007.8	4978.1	6641.4	10372.0	15930.8	17670.6	14559.0	13971.1
52.5°	2492.6	2526.1	2796.1	3360.1	4356.7	5955.5	9616.8	16243.9	19520.4	16356.2	15632.1
55°	1854.5	1878.4	2112.6	2619.3	3587.2	5174.0	8670.4	16332.3	21618.7	18813.0	17907.2
57.5°	1345.5	1359.8	1510.4	1888.0	2719.7	4196.6	7520.9	16102.9	24116.1	21962.8	20822.8
60°	1089.8	1094.6	1140.0	1307.3	1890.4	3092.5	6132.4	15314.2	26826.2	26023.2	24586.9
62.5°	989.4	989.4	1001.4	1046.8	1278.6	2040.9	4452.3	13679.6	29732.2	31154.2	29230.4
65°	920.1	920.1	924.9	946.4	1008.5	1300.1	2810.5	11017.3	32181.8	37164.7	34731.8
67.5°	858.0	860.3	858.0	865.1	901.0	960.7	1629.9	7609.3	33501.0	43392.7	40766.2
70°	793.4	798.2	786.3	786.3	814.9	817.3	1020.5	4172.7	32406.5	48612.1	47921.5
72.5°	717.0	724.1	705.0	700.2	721.7	712.2	767.1	2002.7	27822.7	50170.3	51986.6
75°	650.0	659.6	616.6	604.6	604.6	597.5	623.8	1027.6	18057.8	40926.3	43775.1
77.5°	590.3	609.4	540.1	501.9	492.3	470.8	509.0	628.5	7898.5	19214.5	18815.4
80°	487.5	513.8	444.5	399.1	382.4	358.5	401.5	439.7	2349.2	4461.9	4273.1
82.5°	363.3	375.2	315.5	284.4	270.1	253.3	301.1	305.9	764.8	1579.7	1785.2
85°	231.8	236.6	193.6	167.3	160.1	153.0	191.2	167.3	291.6	1161.5	1687.2
87.5°	81.3	93.2	74.1	66.9	71.7	59.7	88.4	50.2	81.3	819.7	1015.7
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)