

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: P881615

Luminaire Tested: **NAV-SB1A-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881615
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-SB1A-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3747 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

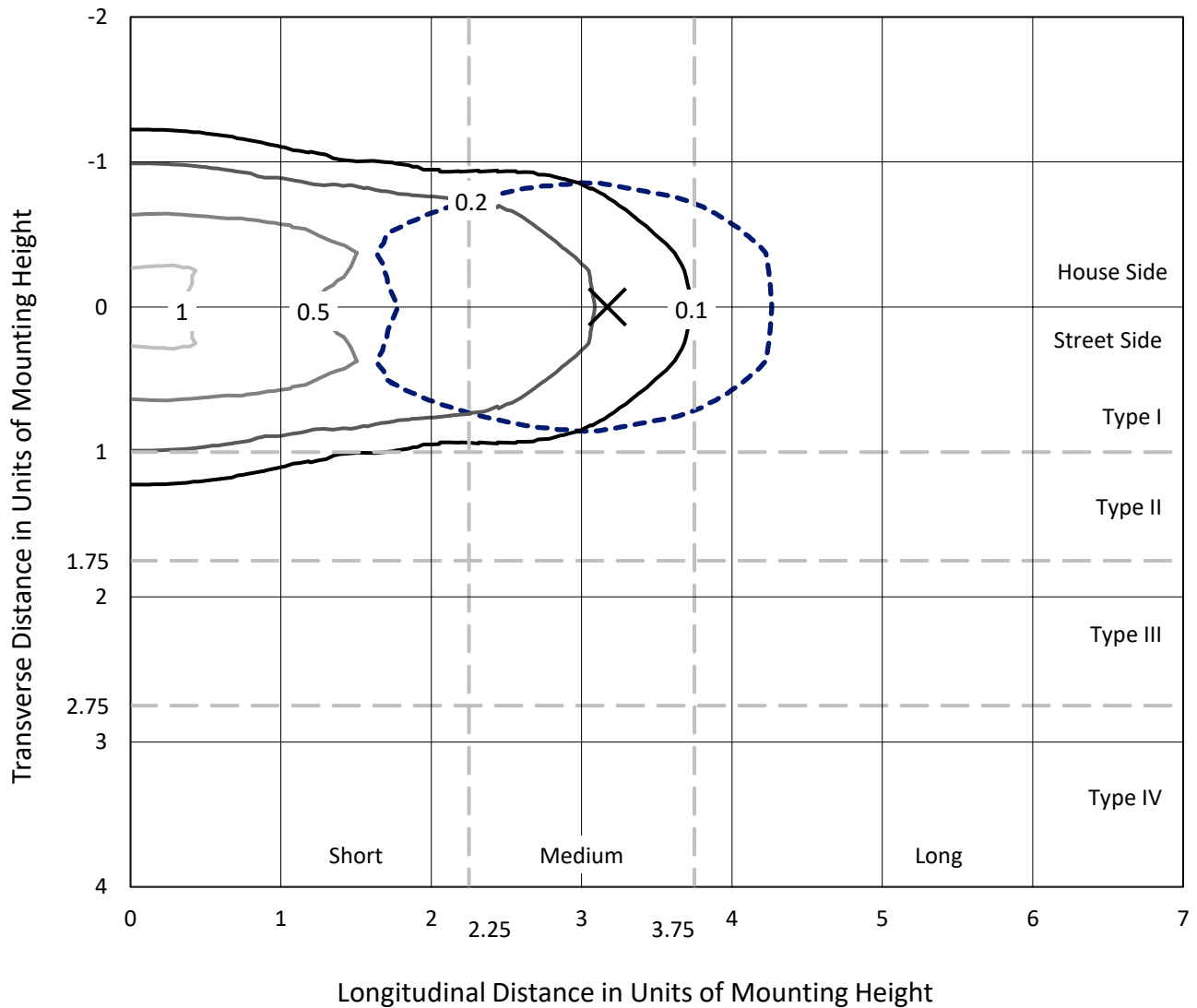
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

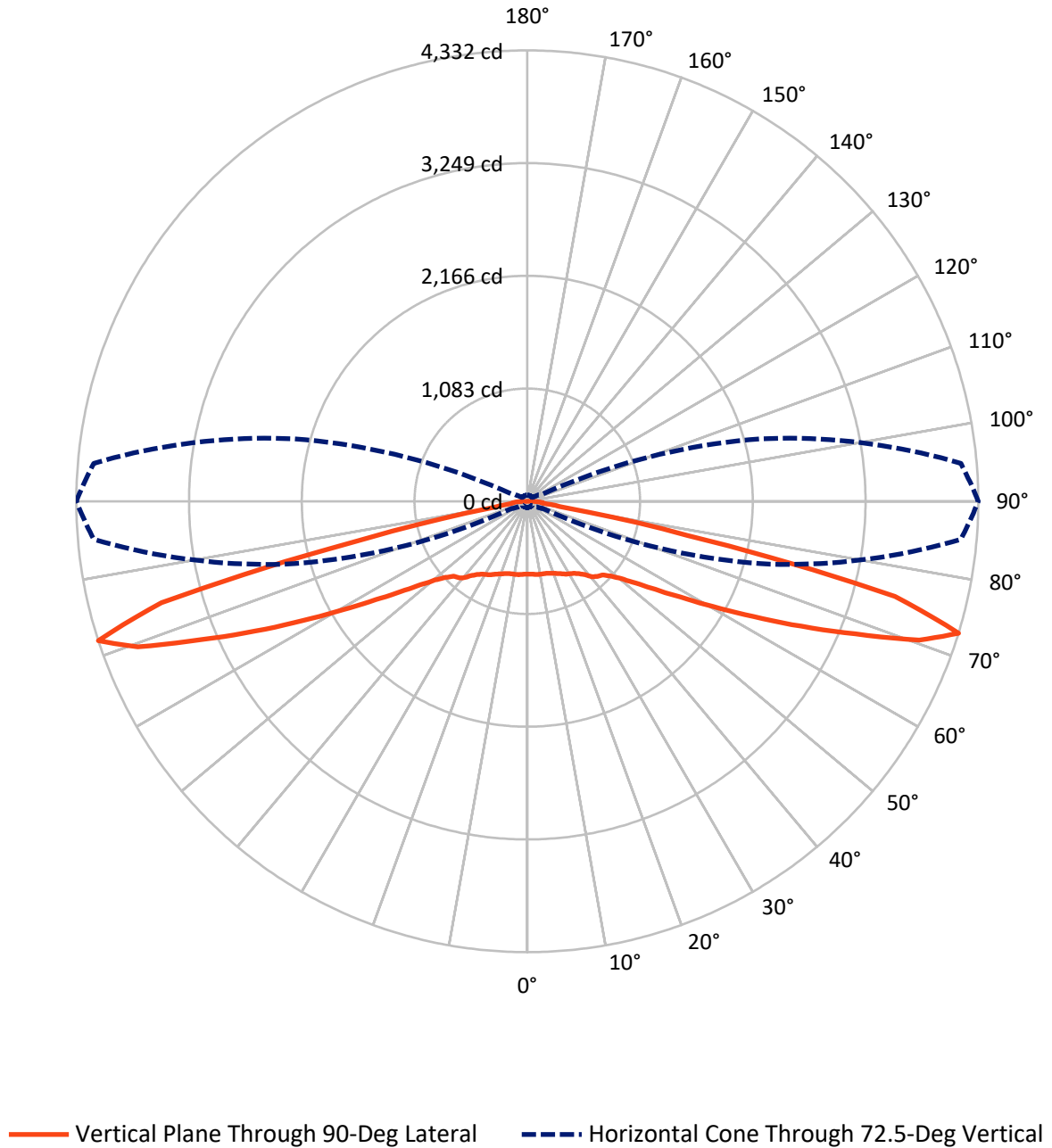
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	1873.5	0.0	1873.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1873.5	0.0	1873.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3747.0	0.0	3747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.8
10°-20°	207.6	5.5
20°-30°	346.1	9.2
30°-40°	476.0	12.7
40°-50°	581.4	15.5
50°-60°	672.4	17.9
60°-70°	801.7	21.4
70°-80°	559.5	14.9
80°-90°	34.4	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°	3747.0	100.0
0°-180°	3747.0	100.0

Coefficient of Utilization



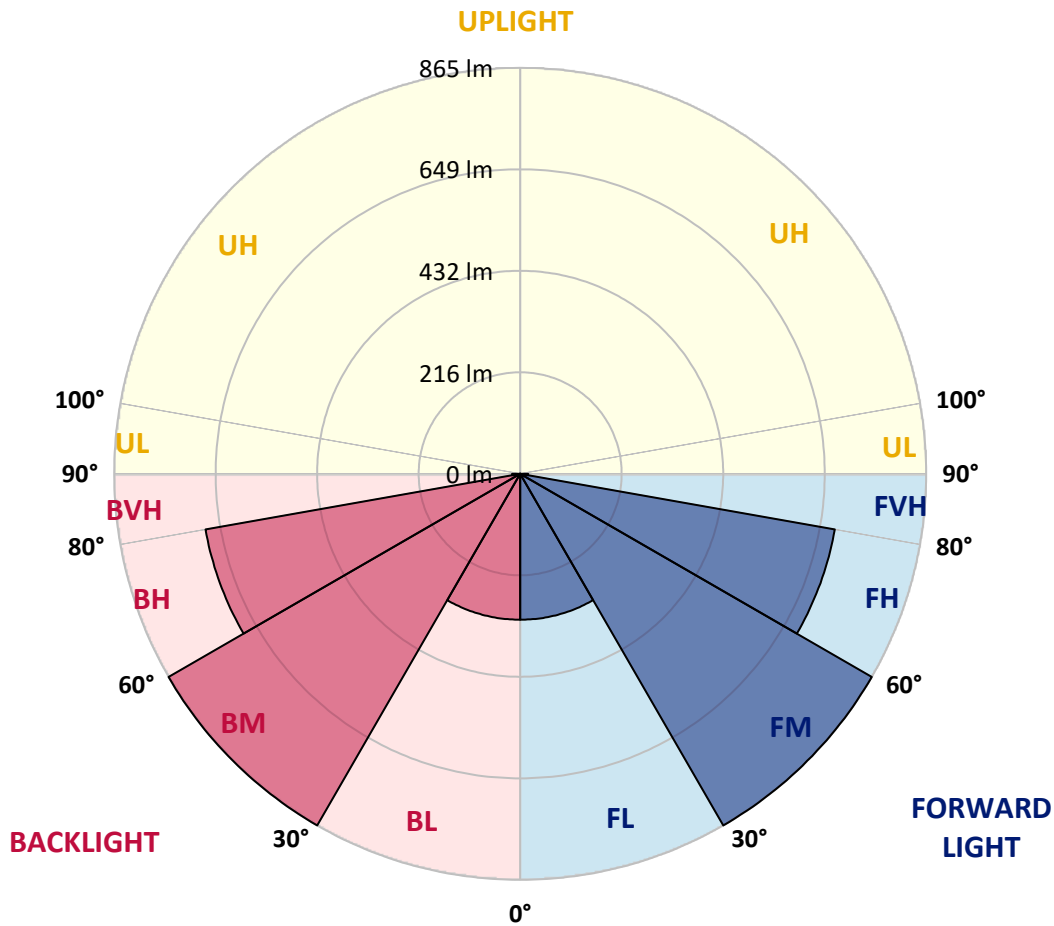
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.8	8.3			
FM (30°-60°)	864.9	23.1			
FH (60°-80°)	680.6	18.2			G1/1800
FVH (80°-90°)	17.2	0.5			G1/100
BL (0°-30°)	310.8	8.3	B1/500		
BM (30°-60°)	864.9	23.1	B1/1000		
BH (60°-80°)	680.6	18.2	B2/1000		G2/1000
BVH (80°-90°)	17.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	700.8	701.6	701.6	701.0	702.4	701.2	701.2	700.6	701.2	700.6	700.6
5°	704.3	705.3	705.7	705.5	707.3	706.3	706.3	705.5	705.7	705.1	705.1
7.5°	711.1	712.5	713.3	714.3	716.9	715.7	714.9	712.5	711.5	709.9	709.9
10°	713.3	714.9	717.5	722.7	728.6	728.8	726.5	720.5	715.9	712.3	711.7
12.5°	706.5	708.7	714.1	724.7	738.0	743.4	739.6	729.6	720.7	714.3	713.3
15°	698.0	700.4	708.5	724.5	744.2	756.7	756.3	743.2	728.8	718.9	717.3
17.5°	684.6	687.0	698.8	721.1	749.0	769.7	775.2	761.7	741.6	728.2	726.1
20°	660.5	662.7	679.1	710.3	750.5	783.4	797.9	786.0	760.9	742.8	739.4
22.5°	629.3	632.7	651.8	691.8	746.8	797.7	823.8	815.7	783.4	758.3	753.7
25°	595.8	599.4	621.7	669.1	737.0	808.1	854.5	849.3	808.9	777.6	771.3
27.5°	566.9	570.7	595.0	646.6	721.9	812.1	884.8	887.4	839.8	798.9	792.2
30°	544.2	547.8	573.7	628.5	702.4	808.1	911.3	929.2	871.2	817.5	807.7
32.5°	519.3	523.9	551.2	606.4	679.3	798.5	934.4	974.4	907.7	837.4	825.0
35°	487.9	492.1	520.7	576.1	649.0	783.2	953.7	1024.6	959.8	867.6	853.9
37.5°	449.7	453.6	482.1	538.3	618.9	761.7	968.4	1081.1	1022.0	911.3	892.9
40°	411.2	415.0	441.7	496.1	582.9	734.2	973.6	1136.5	1093.3	971.2	951.7
42.5°	376.0	379.4	403.9	454.4	542.4	699.2	966.8	1184.7	1157.2	1013.0	987.9
45°	343.5	346.5	368.2	415.4	500.4	656.6	946.5	1236.4	1233.3	1042.9	1009.0
47.5°	306.5	309.5	332.0	377.6	458.4	606.6	912.0	1287.4	1339.0	1110.6	1071.6
50°	261.3	263.9	287.0	334.0	414.8	553.4	864.3	1327.4	1472.4	1213.1	1164.2
52.5°	207.7	210.5	233.0	280.0	363.0	496.2	801.3	1353.5	1626.6	1362.9	1302.6
55°	154.5	156.5	176.0	218.3	298.9	431.1	722.5	1360.9	1801.4	1567.6	1492.1
57.5°	112.1	113.3	125.9	157.3	226.6	349.7	626.7	1341.8	2009.5	1830.1	1735.1
60°	90.8	91.2	95.0	108.9	157.5	257.7	511.0	1276.1	2235.3	2168.4	2048.7
62.5°	82.4	82.4	83.4	87.2	106.5	170.1	371.0	1139.9	2477.5	2596.0	2435.6
65°	76.7	76.7	77.1	78.9	84.0	108.3	234.2	918.0	2681.6	3096.8	2894.1
67.5°	71.5	71.7	71.5	72.1	75.1	80.1	135.8	634.1	2791.5	3615.7	3396.9
70°	66.1	66.5	65.5	65.5	67.9	68.1	85.0	347.7	2700.3	4050.7	3993.1
72.5°	59.7	60.3	58.7	58.3	60.1	59.3	63.9	166.9	2318.4	4180.5	4331.8
75°	54.2	55.0	51.4	50.4	50.4	49.8	52.0	85.6	1504.7	3410.2	3647.6
77.5°	49.2	50.8	45.0	41.8	41.0	39.2	42.4	52.4	658.1	1601.1	1567.8
80°	40.6	42.8	37.0	33.3	31.9	29.9	33.5	36.6	195.8	371.8	356.1
82.5°	30.3	31.3	26.3	23.7	22.5	21.1	25.1	25.5	63.7	131.6	148.8
85°	19.3	19.7	16.1	13.9	13.3	12.7	15.9	13.9	24.3	96.8	140.6
87.5°	6.8	7.8	6.2	5.6	6.0	5.0	7.4	4.2	6.8	68.3	84.6
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)