

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: P881535

Luminaire Tested: **NAV-SB1A-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881535
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025 lumens
Efficiency: N/A
Efficacy: 130.3 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

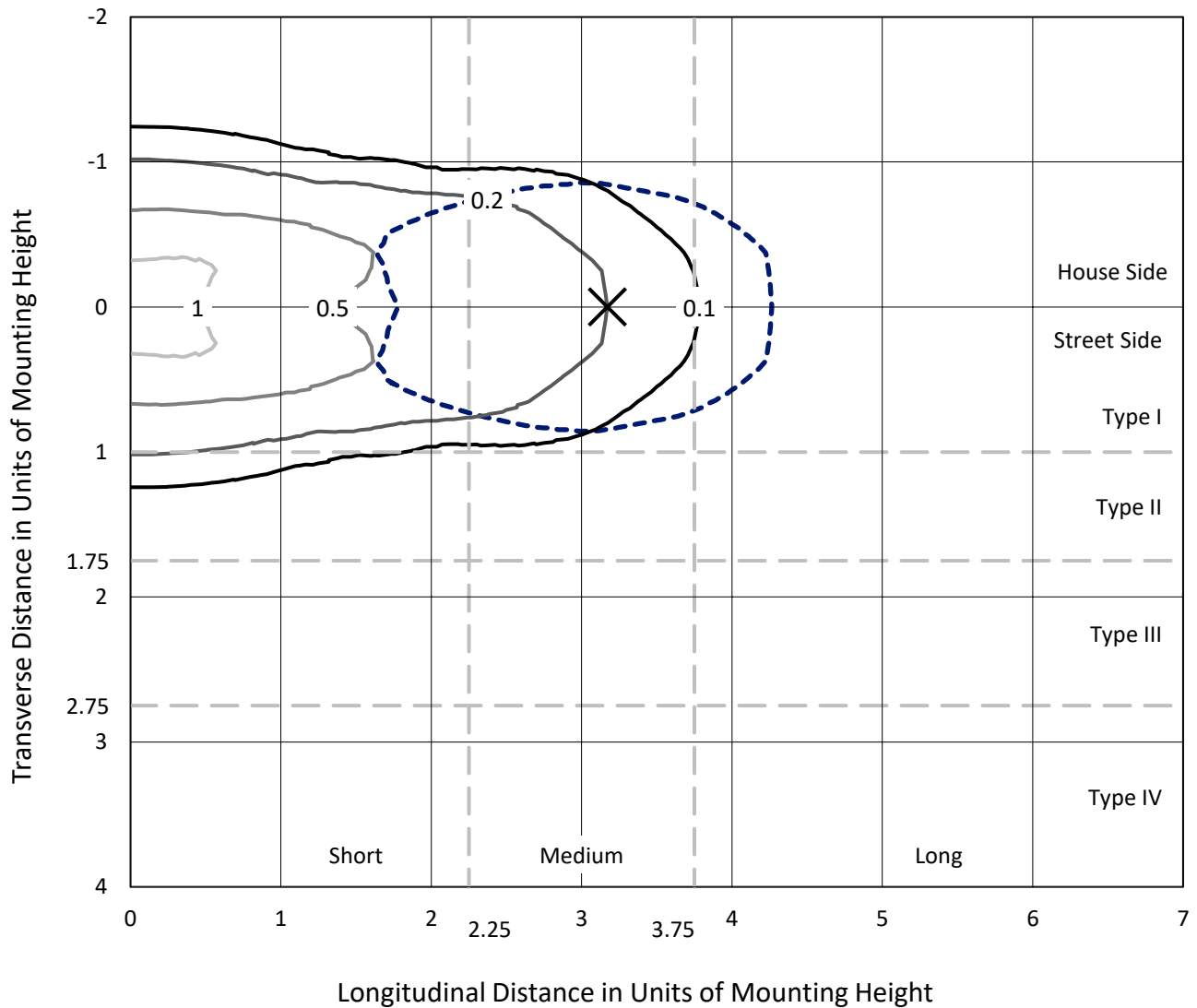
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

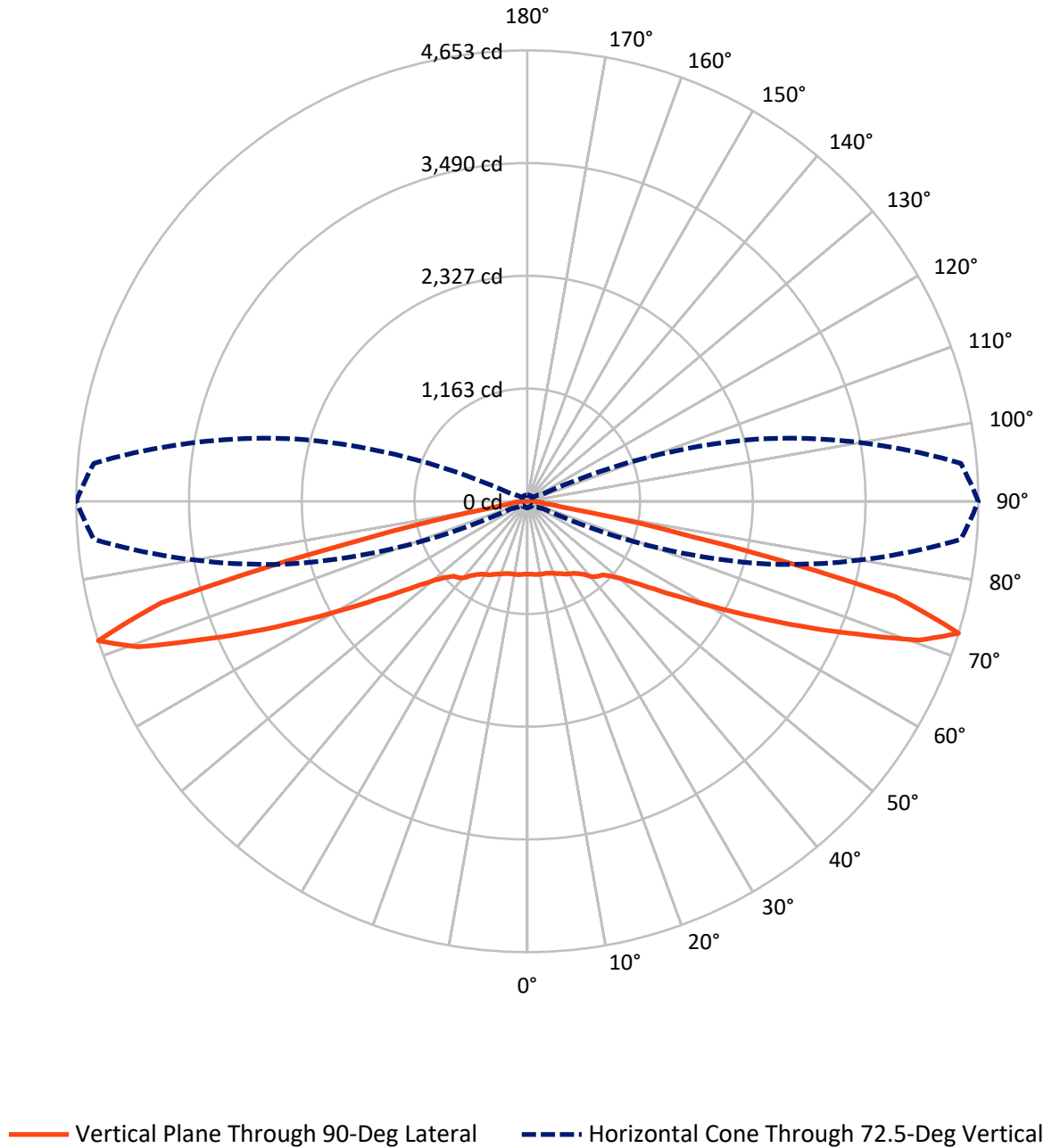
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	2012.5	0.0	2012.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2012.5	0.0	2012.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4025.0	0.0	4025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.8
10°-20°	223.0	5.5
20°-30°	371.8	9.2
30°-40°	511.3	12.7
40°-50°	624.5	15.5
50°-60°	722.3	17.9
60°-70°	861.2	21.4
70°-80°	601.1	14.9
80°-90°	36.9	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°	4025.0	100.0
0°-180°	4025.0	100.0

Coefficient of Utilization



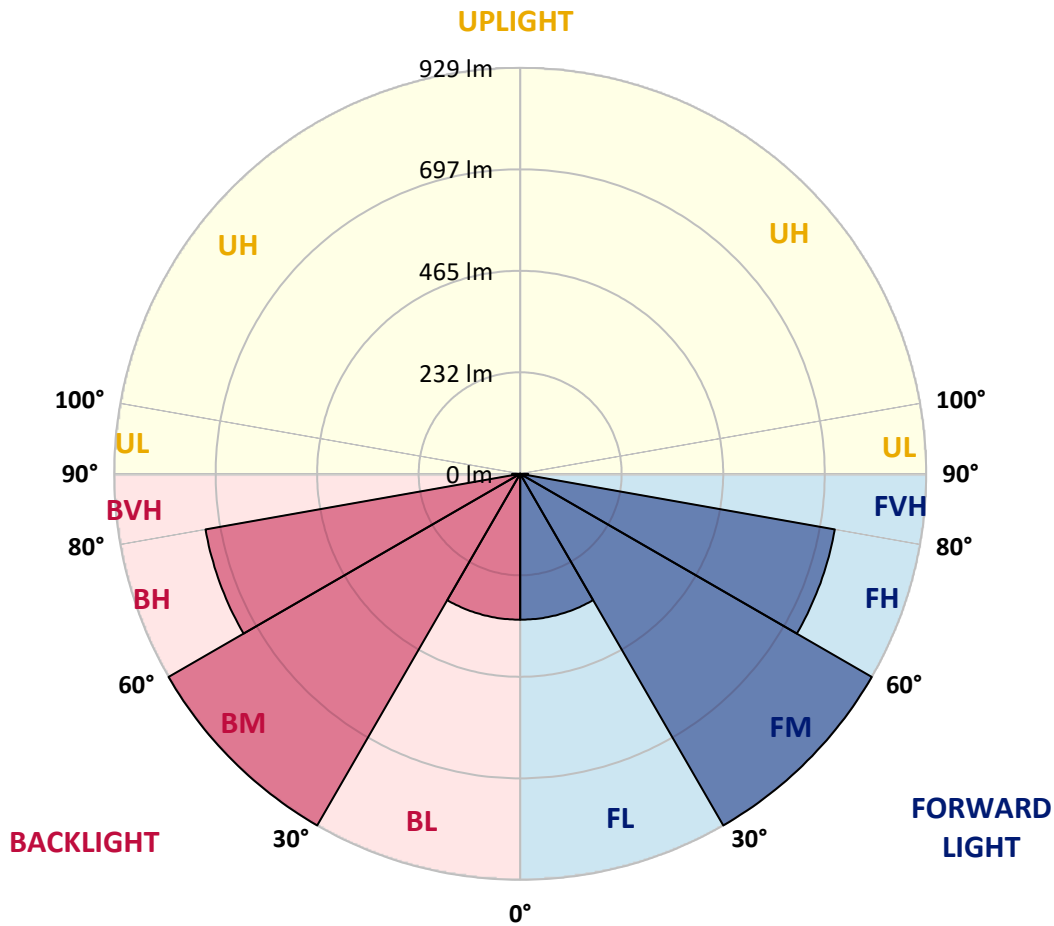
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.9	8.3			
FM (30°-60°)	929.1	23.1			
FH (60°-80°)	731.1	18.2			G1/1800
FVH (80°-90°)	18.5	0.5			G1/100
BL (0°-30°)	333.9	8.3	B1/500		
BM (30°-60°)	929.1	23.1	B1/1000		
BH (60°-80°)	731.1	18.2	B2/1000		G2/1000
BVH (80°-90°)	18.5	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°	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1
2.5°	752.8	753.6	753.6	753.0	754.5	753.2	753.2	752.5	753.2	752.5	752.5
5°	756.6	757.7	758.1	757.9	759.8	758.7	758.7	757.9	758.1	757.5	757.5
7.5°	763.9	765.4	766.2	767.3	770.1	768.8	767.9	765.4	764.3	762.6	762.6
10°	766.2	767.9	770.7	776.3	782.7	782.9	780.4	773.9	769.0	765.2	764.5
12.5°	759.0	761.3	767.1	778.4	792.8	798.5	794.5	783.8	774.1	767.3	766.2
15°	749.8	752.3	761.1	778.2	799.4	812.9	812.4	798.3	782.9	772.2	770.5
17.5°	735.4	738.0	750.6	774.6	804.5	826.8	832.8	818.2	796.6	782.3	779.9
20°	709.5	711.9	729.4	763.0	806.2	841.5	857.1	844.3	817.4	797.9	794.3
22.5°	676.0	679.6	700.1	743.1	802.2	856.9	885.0	876.2	841.5	814.6	809.7
25°	640.0	643.9	667.8	718.7	791.7	868.1	917.9	912.3	868.9	835.3	828.5
27.5°	609.0	613.1	639.2	694.6	775.4	872.3	950.4	953.2	902.1	858.2	850.9
30°	584.6	588.5	616.3	675.1	754.5	868.1	978.9	998.1	935.9	878.1	867.6
32.5°	557.9	562.8	592.1	651.4	729.7	857.8	1003.7	1046.7	975.0	899.5	886.2
35°	524.1	528.6	559.4	618.8	697.1	841.3	1024.4	1100.6	1031.1	932.0	917.3
37.5°	483.0	487.3	517.9	578.2	664.8	818.2	1040.3	1161.3	1097.8	978.9	959.2
40°	441.7	445.8	474.5	532.9	626.1	788.7	1045.8	1220.8	1174.4	1043.2	1022.3
42.5°	403.9	407.5	433.8	488.1	582.7	751.0	1038.5	1272.6	1243.0	1088.2	1061.2
45°	369.0	372.2	395.5	446.2	537.6	705.3	1016.7	1328.2	1324.8	1120.3	1083.9
47.5°	329.2	332.4	356.6	405.6	492.4	651.6	979.7	1382.9	1438.3	1193.0	1151.1
50°	280.7	283.4	308.2	358.7	445.6	594.5	928.4	1425.9	1581.7	1303.2	1250.5
52.5°	223.1	226.1	250.3	300.8	390.0	533.1	860.8	1454.0	1747.2	1464.0	1399.2
55°	166.0	168.1	189.1	234.4	321.1	463.1	776.1	1461.9	1935.0	1683.9	1602.8
57.5°	120.4	121.7	135.2	169.0	243.4	375.6	673.2	1441.3	2158.6	1965.8	1863.8
60°	97.5	98.0	102.0	117.0	169.2	276.8	548.9	1370.7	2401.2	2329.3	2200.7
62.5°	88.6	88.6	89.6	93.7	114.4	182.7	398.5	1224.4	2661.3	2788.6	2616.4
65°	82.4	82.4	82.8	84.7	90.3	116.4	251.6	986.1	2880.5	3326.5	3108.8
67.5°	76.8	77.0	76.8	77.4	80.6	86.0	145.9	681.1	2998.6	3884.0	3648.9
70°	71.0	71.4	70.4	70.4	72.9	73.2	91.3	373.5	2900.6	4351.2	4289.4
72.5°	64.2	64.8	63.1	62.7	64.6	63.7	68.7	179.3	2490.4	4490.6	4653.2
75°	58.2	59.0	55.2	54.1	54.1	53.5	55.8	92.0	1616.3	3663.2	3918.2
77.5°	52.8	54.5	48.3	44.9	44.1	42.1	45.6	56.3	707.0	1719.9	1684.1
80°	43.6	46.0	39.8	35.7	34.2	32.1	35.9	39.4	210.3	399.4	382.5
82.5°	32.5	33.6	28.2	25.5	24.2	22.7	27.0	27.4	68.5	141.4	159.8
85°	20.7	21.2	17.3	15.0	14.3	13.7	17.1	15.0	26.1	104.0	151.0
87.5°	7.3	8.3	6.6	6.0	6.4	5.3	7.9	4.5	7.3	73.4	90.9
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)