

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: P884095

Luminaire Tested: **NAV-SB4D-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884095
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-SB4D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40160 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

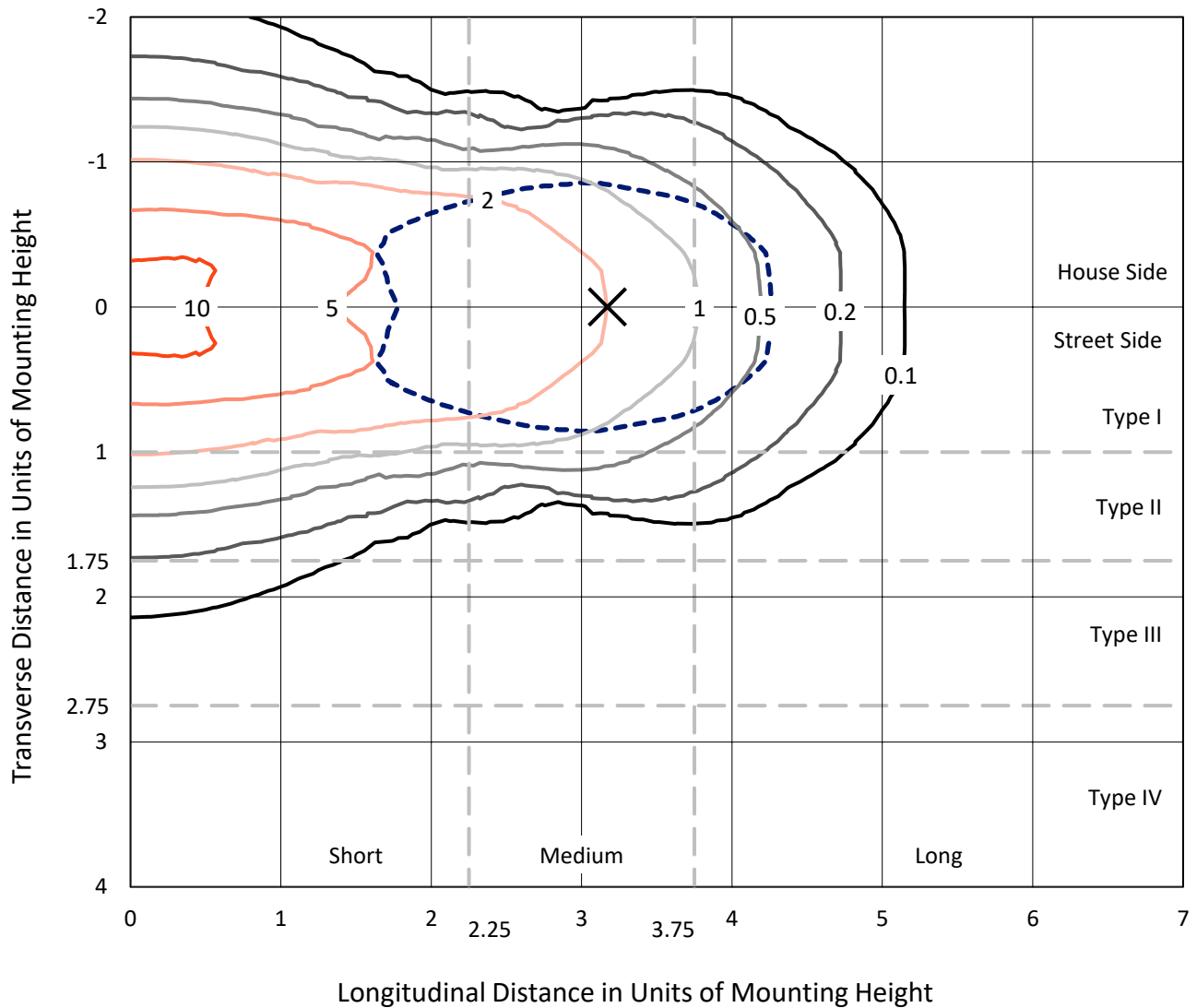
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

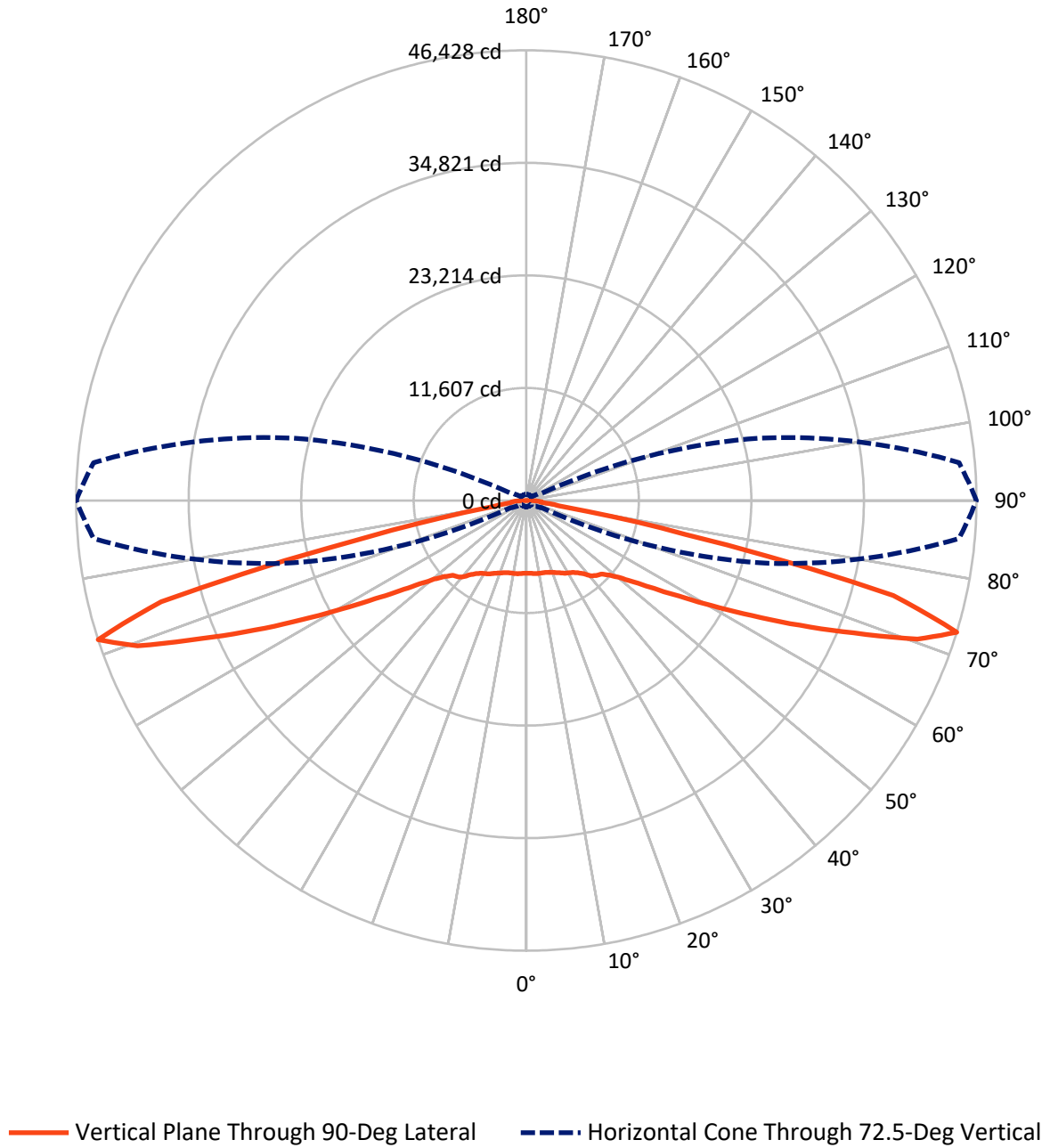
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	20080.0	0.0	20080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20080.0	0.0	20080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40160.0	0.0	40160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.6	1.8
10°-20°	2224.8	5.5
20°-30°	3709.7	9.2
30°-40°	5102.0	12.7
40°-50°	6230.9	15.5
50°-60°	7206.7	17.9
60°-70°	8592.8	21.4
70°-80°	5997.2	14.9
80°-90°	368.4	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°	40160.0	100.0
0°-180°	40160.0	100.0



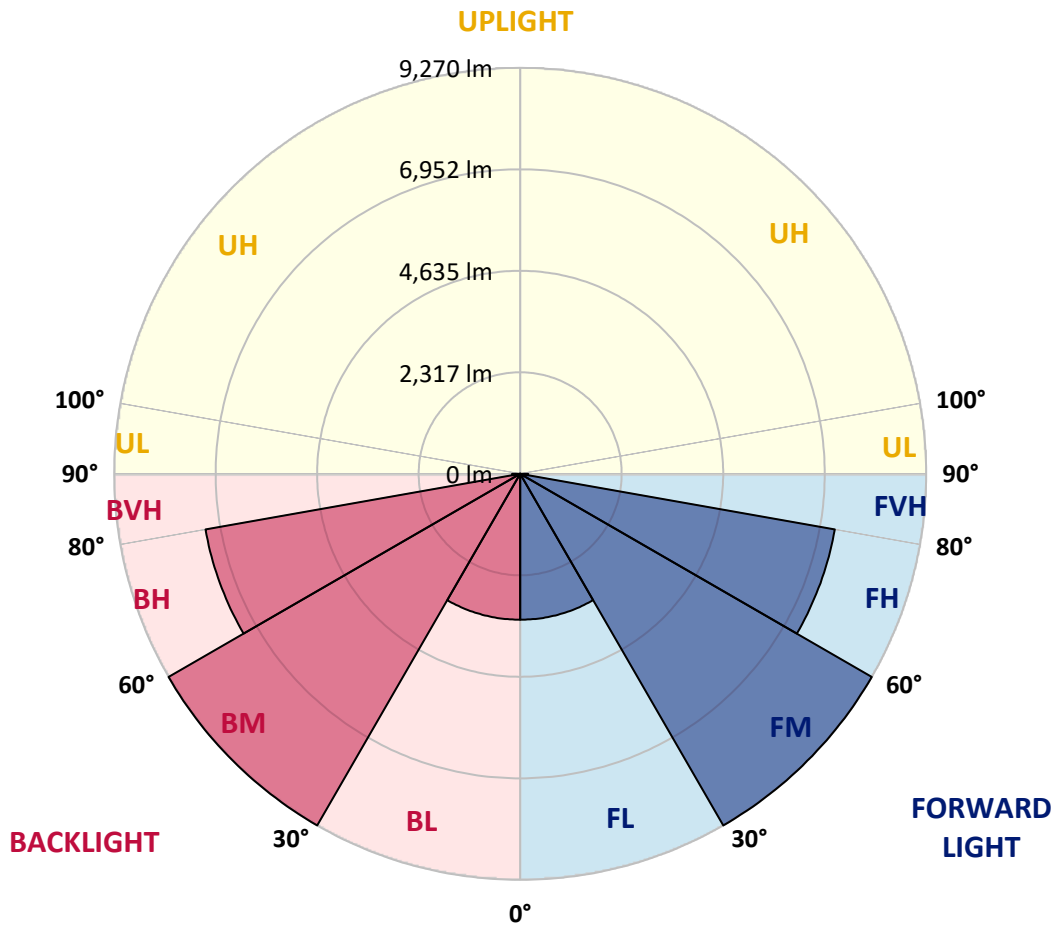
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3331.1	8.3			
FM (30°-60°)	9269.8	23.1			
FH (60°-80°)	7295.0	18.2			G3/7500
FVH (80°-90°)	184.2	0.5			G2/225
BL (0°-30°)	3331.1	8.3	B4/5000		
BM (30°-60°)	9269.8	23.1	B5		
BH (60°-80°)	7295.0	18.2	B5		G5
BVH (80°-90°)	184.2	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°	7504.3	7504.3	7504.3	7504.3	7504.3	7504.3	7504.3	7504.3	7504.3	7504.3	7504.3
2.5°	7510.7	7519.3	7519.3	7512.9	7527.8	7515.0	7515.0	7508.6	7515.0	7508.6	7508.6
5°	7549.1	7559.8	7564.1	7561.9	7581.2	7570.5	7570.5	7561.9	7564.1	7557.7	7557.7
7.5°	7621.7	7636.6	7645.2	7655.9	7683.6	7670.8	7662.3	7636.6	7626.0	7608.9	7608.9
10°	7645.2	7662.3	7690.0	7745.5	7809.5	7811.7	7786.1	7722.0	7672.9	7634.5	7628.1
12.5°	7572.6	7596.1	7653.7	7766.8	7909.8	7967.5	7926.9	7820.2	7724.2	7655.9	7645.2
15°	7480.8	7506.5	7594.0	7764.7	7976.0	8110.5	8106.2	7965.3	7811.7	7704.9	7687.9
17.5°	7337.8	7363.5	7489.4	7728.4	8027.2	8249.2	8309.0	8163.8	7948.3	7805.3	7781.8
20°	7079.6	7103.1	7278.1	7613.2	8044.3	8396.5	8552.3	8424.2	8155.3	7961.1	7924.8
22.5°	6744.5	6780.8	6985.7	7414.7	8003.8	8550.1	8829.7	8742.2	8396.5	8127.5	8078.5
25°	6385.9	6424.3	6663.4	7171.4	7899.2	8661.1	9158.4	9102.9	8669.7	8334.6	8266.3
27.5°	6076.5	6117.0	6377.4	6930.2	7737.0	8703.8	9482.8	9510.6	9000.5	8562.9	8490.4
30°	5833.1	5871.6	6149.0	6736.0	7527.8	8661.1	9766.7	9958.8	9337.7	8761.4	8656.9
32.5°	5566.3	5615.4	5907.8	6499.0	7280.2	8558.7	10014.3	10443.3	9728.3	8974.9	8842.5
35°	5229.1	5273.9	5581.3	6174.6	6955.8	8394.3	10221.3	10981.2	10287.5	9299.3	9152.0
37.5°	4819.3	4862.0	5167.2	5769.1	6633.5	8163.8	10379.3	11587.3	10953.4	9766.7	9570.4
40°	4407.4	4448.0	4734.0	5316.6	6247.2	7869.3	10434.8	12180.6	11717.5	10409.1	10200.0
42.5°	4029.6	4065.9	4328.4	4870.6	5813.9	7493.6	10362.2	12697.2	12402.6	10857.4	10588.4
45°	3681.7	3713.7	3946.4	4452.2	5363.6	7036.9	10144.5	13252.1	13217.9	11177.5	10814.7
47.5°	3284.7	3316.8	3557.9	4046.7	4913.2	6501.2	9775.3	13798.5	14351.3	11903.2	11484.9
50°	2800.2	2828.0	3075.6	3579.3	4445.8	5931.3	9263.0	14227.5	15781.3	13002.4	12477.3
52.5°	2226.1	2256.0	2497.2	3000.9	3890.9	5318.8	8588.6	14507.1	17433.2	14607.4	13960.7
55°	1656.2	1677.6	1886.8	2339.2	3203.6	4620.8	7743.4	14586.0	19307.2	16801.5	15992.6
57.5°	1201.6	1214.4	1348.9	1686.1	2428.9	3747.9	6716.8	14381.1	21537.6	19614.5	18596.5
60°	973.3	977.5	1018.1	1167.5	1688.3	2761.8	5476.7	13676.8	23957.9	23240.8	21958.0
62.5°	883.6	883.6	894.3	934.8	1141.9	1822.7	3976.3	12216.9	26553.3	27823.2	26105.0
65°	821.7	821.7	826.0	845.2	900.7	1161.1	2510.0	9839.3	28740.9	33191.0	31018.3
67.5°	766.2	768.4	766.2	772.6	804.6	858.0	1455.6	6795.7	29919.1	38753.1	36407.5
70°	708.6	712.9	702.2	702.2	727.8	729.9	911.4	3726.5	28941.6	43414.5	42797.7
72.5°	640.3	646.7	629.6	625.4	644.6	636.0	685.1	1788.6	24847.9	44806.1	46428.2
75°	580.5	589.1	550.7	540.0	540.0	533.6	557.1	917.8	16127.0	36550.5	39094.6
77.5°	527.2	544.3	482.4	448.2	439.7	420.5	454.6	561.3	7054.0	17160.0	16803.6
80°	435.4	458.9	397.0	356.4	341.5	320.2	358.6	392.7	2098.1	3984.8	3816.2
82.5°	324.4	335.1	281.7	254.0	241.2	226.2	268.9	273.2	683.0	1410.8	1594.3
85°	207.0	211.3	172.9	149.4	143.0	136.6	170.7	149.4	260.4	1037.3	1506.8
87.5°	72.6	83.2	66.2	59.8	64.0	53.4	79.0	44.8	72.6	732.1	907.1
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)