

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: P883415

Luminaire Tested: **NAV-SB3D-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883415
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-SB3D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 29723 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

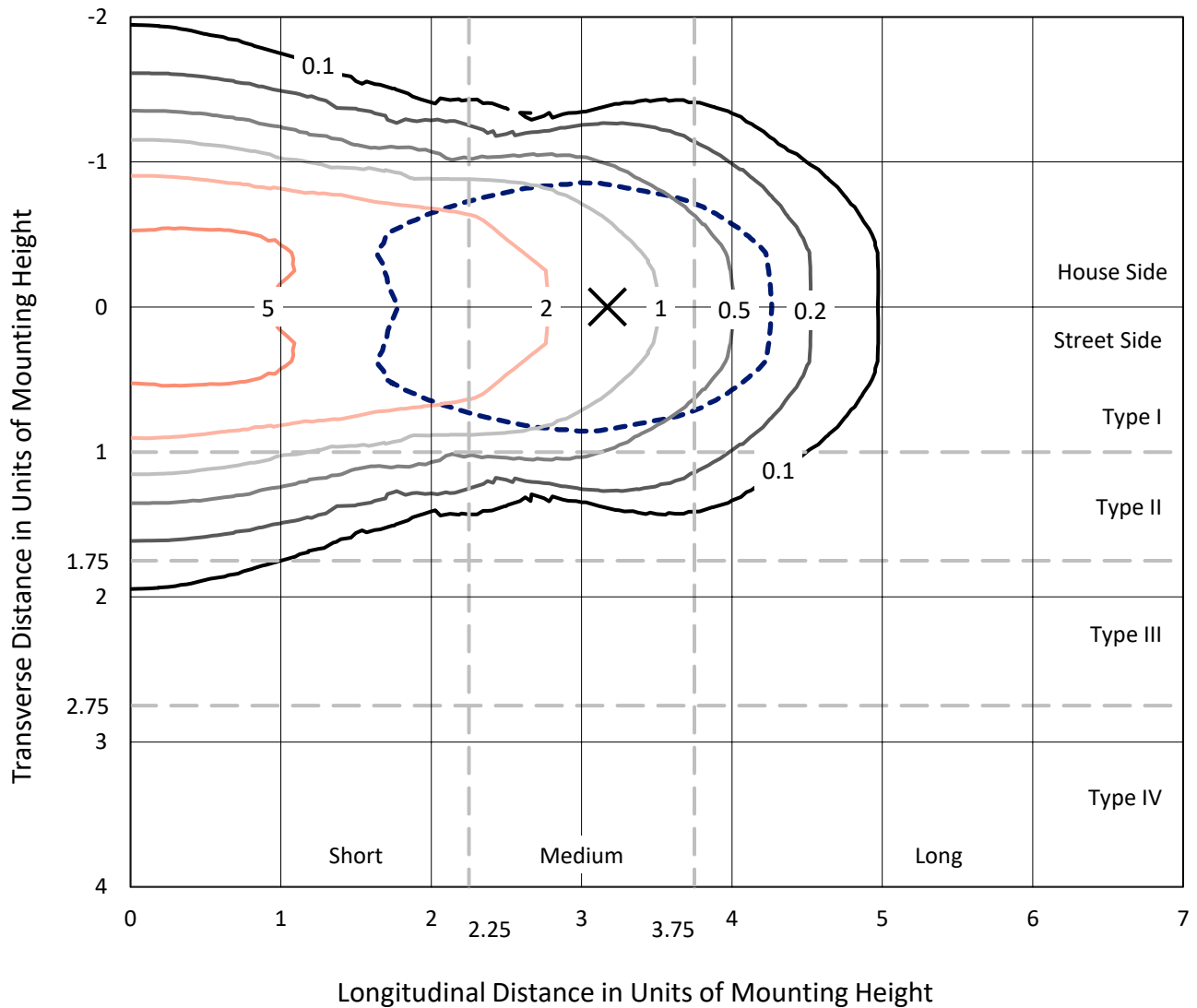
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

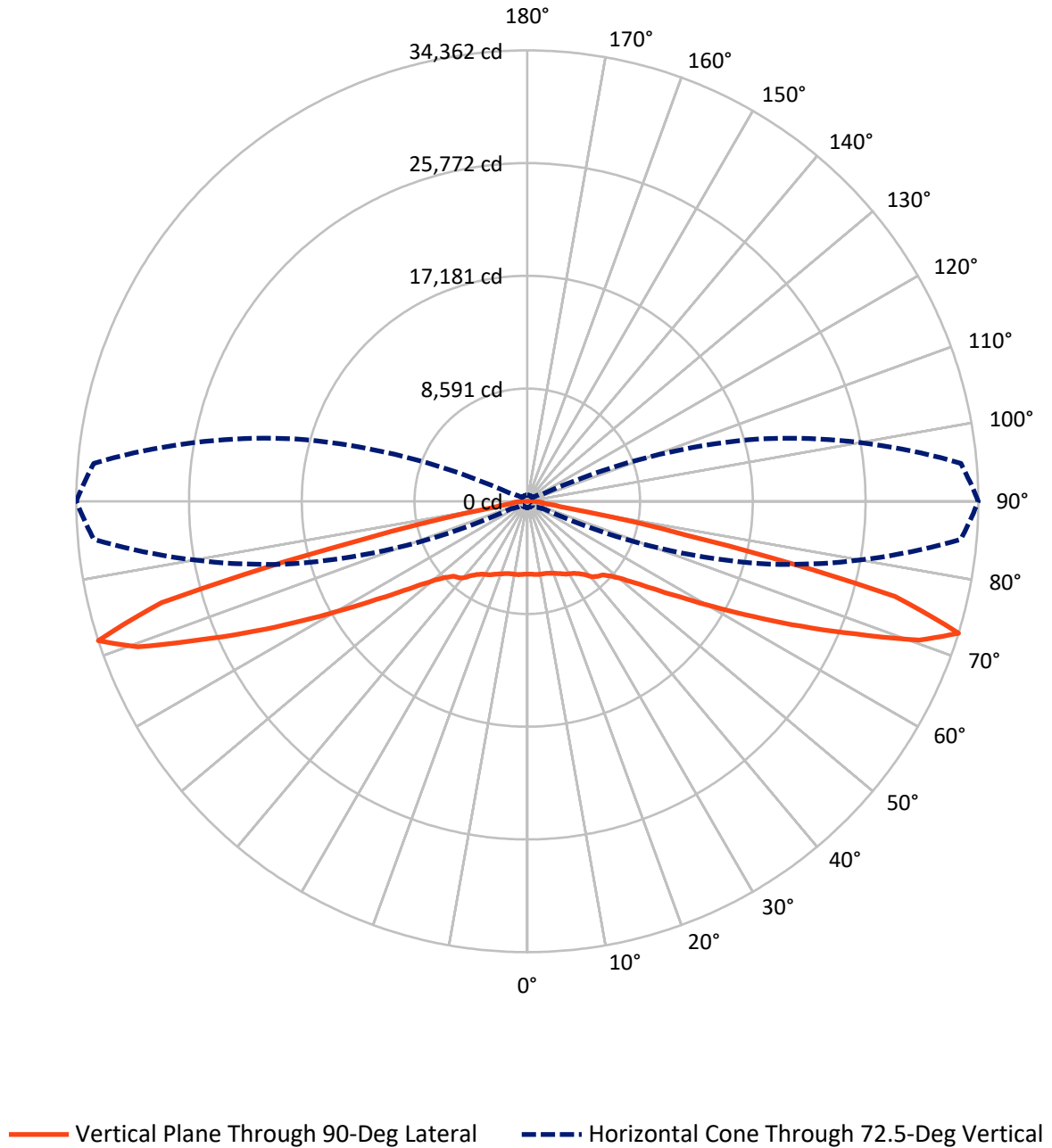
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	14861.5	0.0	14861.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14861.5	0.0	14861.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29723.0	0.0	29723.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.5	1.8
10°-20°	1646.6	5.5
20°-30°	2745.6	9.2
30°-40°	3776.0	12.7
40°-50°	4611.6	15.5
50°-60°	5333.8	17.9
60°-70°	6359.6	21.4
70°-80°	4438.6	14.9
80°-90°	272.6	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°	29723.0	100.0
0°-180°	29723.0	100.0



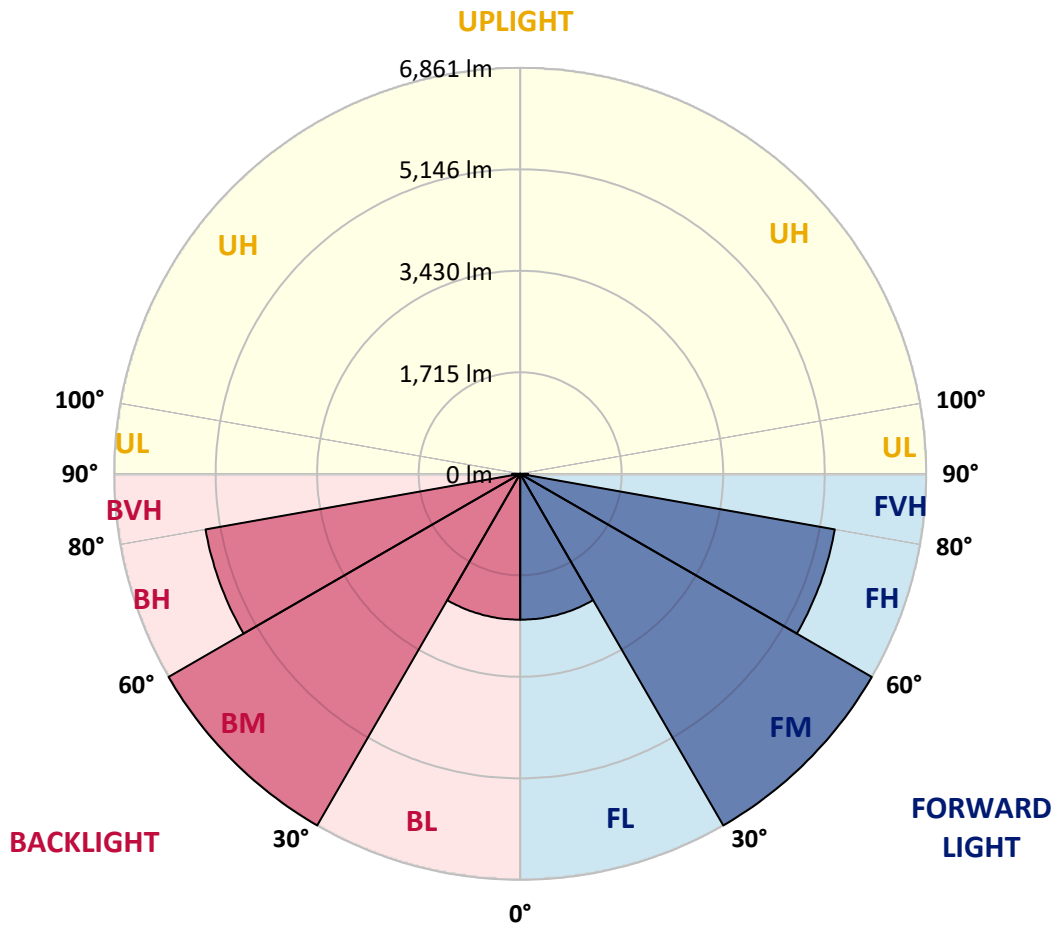
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2465.4	8.3			
FM (30°-60°)	6860.7	23.1			
FH (60°-80°)	5399.1	18.2			G3/7500
FVH (80°-90°)	136.3	0.5			G2/225
BL (0°-30°)	2465.4	8.3	B3/2500		
BM (30°-60°)	6860.7	23.1	B4/8500		
BH (60°-80°)	5399.1	18.2	B5		G5
BVH (80°-90°)	136.3	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°	5554.1	5554.1	5554.1	5554.1	5554.1	5554.1	5554.1	5554.1	5554.1	5554.1	5554.1
2.5°	5558.8	5565.1	5565.1	5560.4	5571.4	5562.0	5562.0	5557.2	5562.0	5557.2	5557.2
5°	5587.2	5595.1	5598.3	5596.7	5610.9	5603.0	5603.0	5596.7	5598.3	5593.5	5593.5
7.5°	5640.9	5652.0	5658.3	5666.2	5686.7	5677.3	5671.0	5652.0	5644.1	5631.5	5631.5
10°	5658.3	5671.0	5691.5	5732.6	5779.9	5781.5	5762.6	5715.2	5678.8	5650.4	5645.7
12.5°	5604.6	5622.0	5664.6	5748.4	5854.2	5896.8	5866.8	5787.8	5716.8	5666.2	5658.3
15°	5536.7	5555.6	5620.4	5746.8	5903.2	6002.7	5999.5	5895.3	5781.5	5702.5	5689.9
17.5°	5430.8	5449.8	5543.0	5719.9	5941.1	6105.4	6149.6	6042.2	5882.6	5776.8	5759.4
20°	5239.7	5257.1	5386.6	5634.6	5953.7	6214.4	6329.7	6234.9	6035.9	5892.1	5865.2
22.5°	4991.7	5018.6	5170.2	5487.7	5923.7	6328.1	6535.0	6470.3	6214.4	6015.3	5979.0
25°	4726.3	4754.8	4931.7	5307.6	5846.3	6410.2	6778.3	6737.2	6416.5	6168.5	6118.0
27.5°	4497.3	4527.3	4720.0	5129.1	5726.2	6441.8	7018.4	7038.9	6661.4	6337.6	6283.9
30°	4317.2	4345.6	4551.0	4985.4	5571.4	6410.2	7228.5	7370.7	6911.0	6484.5	6407.1
32.5°	4119.7	4156.1	4372.5	4810.0	5388.2	6334.4	7411.7	7729.2	7200.1	6642.4	6544.5
35°	3870.1	3903.3	4130.8	4569.9	5148.1	6212.8	7565.0	8127.3	7613.9	6882.5	6773.5
37.5°	3566.9	3598.4	3824.3	4269.8	4909.6	6042.2	7681.8	8575.9	8106.8	7228.5	7083.2
40°	3262.0	3292.0	3503.7	3934.9	4623.6	5824.2	7722.9	9015.1	8672.3	7704.0	7549.2
42.5°	2982.4	3009.2	3203.5	3604.8	4303.0	5546.2	7669.2	9397.3	9179.4	8035.7	7836.7
45°	2724.9	2748.6	2920.8	3295.2	3969.7	5208.1	7508.1	9808.1	9782.8	8272.6	8004.1
47.5°	2431.1	2454.8	2633.3	2995.0	3636.4	4811.6	7234.8	10212.4	10621.6	8809.7	8500.1
50°	2072.5	2093.0	2276.3	2649.1	3290.4	4389.9	6855.7	10530.0	11679.9	9623.2	9234.6
52.5°	1647.6	1669.7	1848.2	2221.0	2879.7	3936.5	6356.5	10736.9	12902.6	10811.1	10332.5
55°	1225.8	1241.6	1396.4	1731.3	2371.1	3419.9	5731.0	10795.3	14289.5	12435.0	11836.3
57.5°	889.3	898.8	998.3	1247.9	1797.6	2773.9	4971.2	10643.7	15940.3	14517.0	13763.5
60°	720.3	723.5	753.5	864.1	1249.5	2044.1	4053.4	10122.4	17731.6	17200.8	16251.5
62.5°	654.0	654.0	661.9	691.9	845.1	1349.0	2942.9	9041.9	19652.5	20592.3	19320.7
65°	608.2	608.2	611.3	625.5	666.6	859.3	1857.7	7282.2	21271.6	24565.2	22957.1
67.5°	567.1	568.7	567.1	571.8	595.5	635.0	1077.3	5029.6	22143.6	28681.7	26945.7
70°	524.4	527.6	519.7	519.7	538.7	540.2	674.5	2758.1	21420.1	32131.7	31675.2
72.5°	473.9	478.6	466.0	462.8	477.1	470.7	507.1	1323.7	18390.3	33161.6	34362.2
75°	429.7	436.0	407.6	399.7	399.7	394.9	412.3	679.3	11935.9	27051.5	28934.5
77.5°	390.2	402.8	357.0	331.7	325.4	311.2	336.5	415.4	5220.7	12700.4	12436.6
80°	322.2	339.6	293.8	263.8	252.7	236.9	265.4	290.7	1552.8	2949.2	2824.4
82.5°	240.1	248.0	208.5	188.0	178.5	167.4	199.0	202.2	505.5	1044.1	1180.0
85°	153.2	156.4	128.0	110.6	105.8	101.1	126.4	110.6	192.7	767.7	1115.2
87.5°	53.7	61.6	49.0	44.2	47.4	39.5	58.4	33.2	53.7	541.8	671.4
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)