

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: P885115

Luminaire Tested: **NAV-SB6B-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885115
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-SB6B-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33283 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

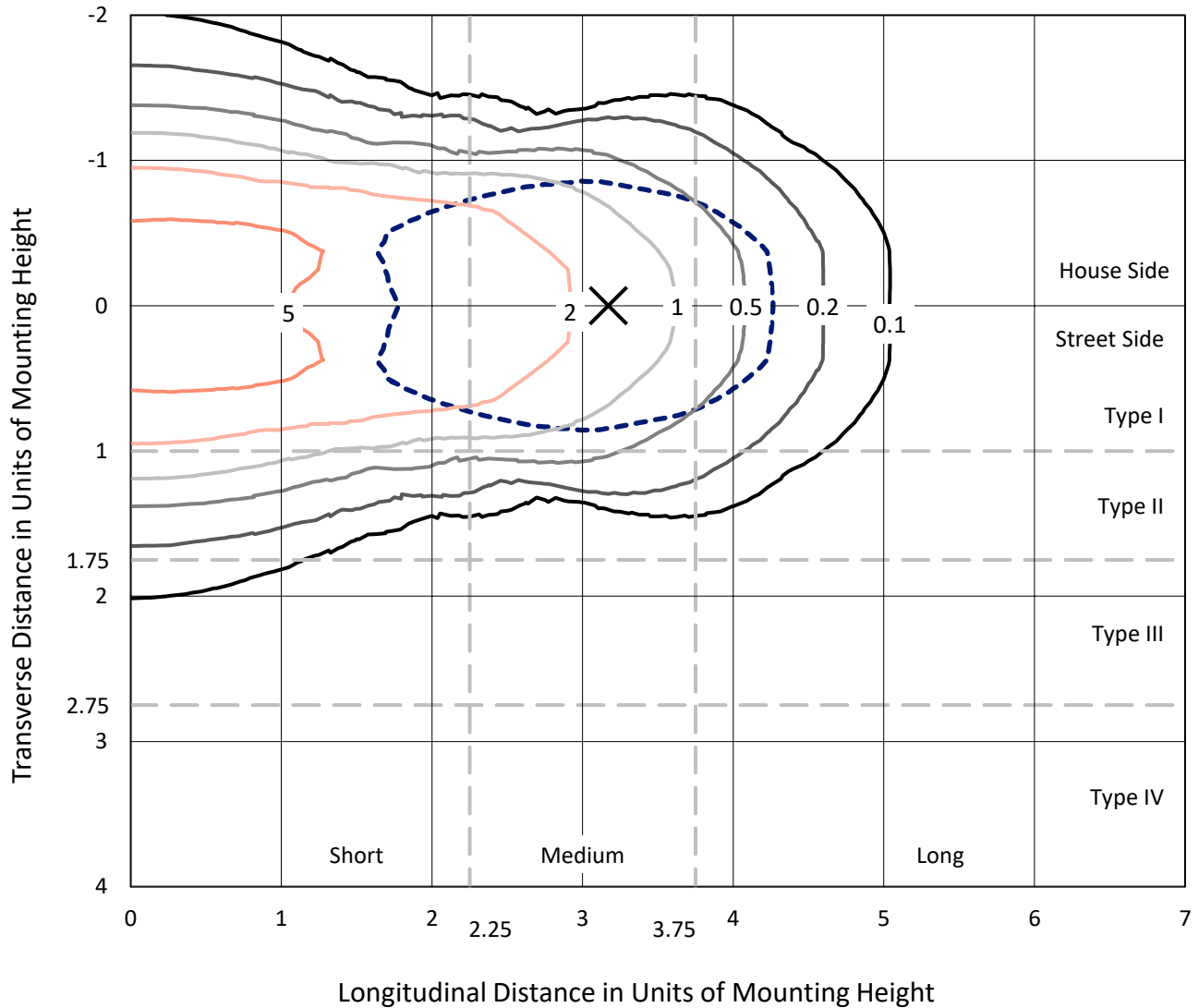
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

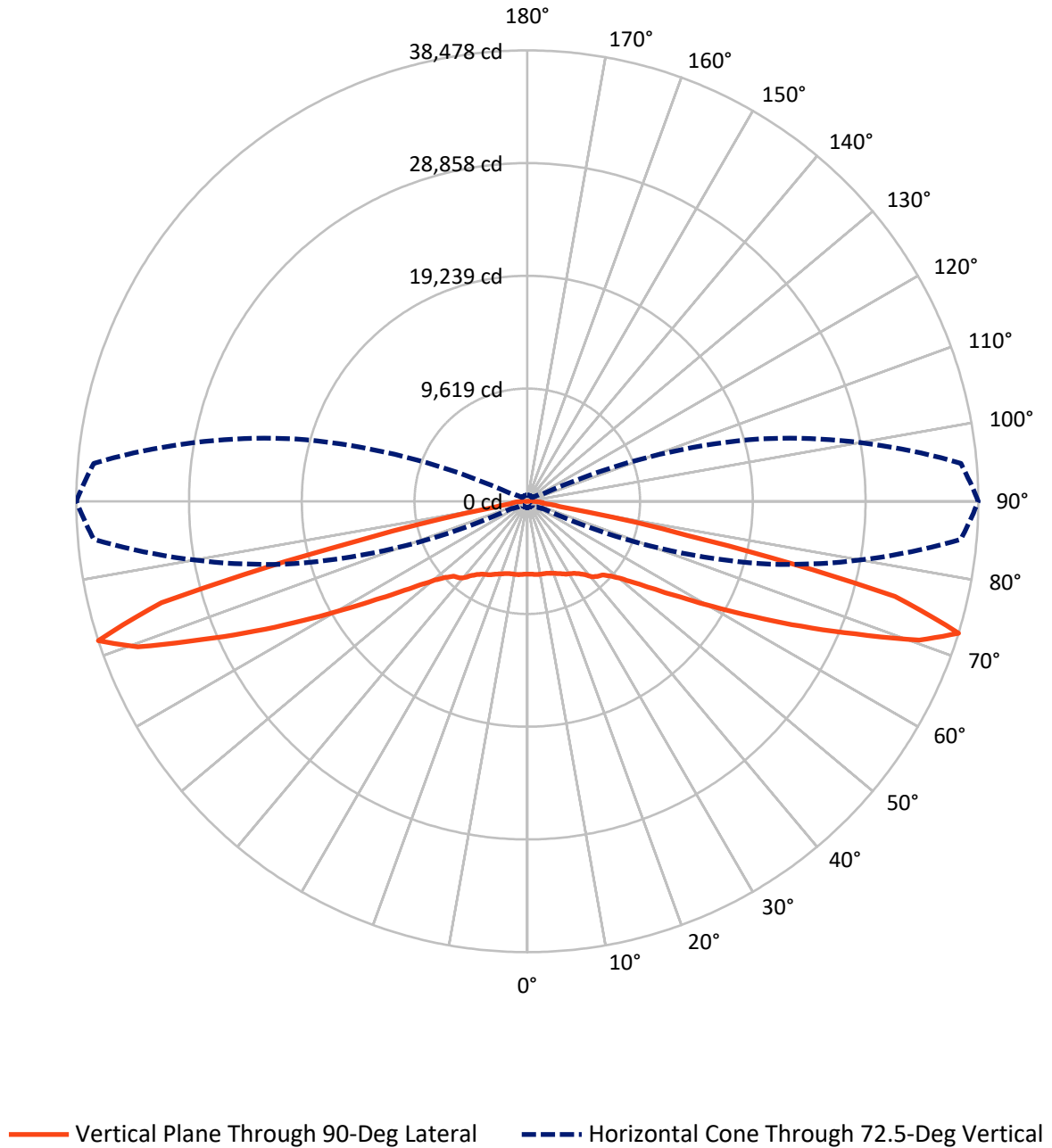
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	16641.5	0.0	16641.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16641.5	0.0	16641.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33283.0	0.0	33283.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.0	1.8
10°-20°	1843.8	5.5
20°-30°	3074.4	9.2
30°-40°	4228.3	12.7
40°-50°	5163.9	15.5
50°-60°	5972.6	17.9
60°-70°	7121.4	21.4
70°-80°	4970.2	14.9
80°-90°	305.3	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°	33283.0	100.0
0°-180°	33283.0	100.0



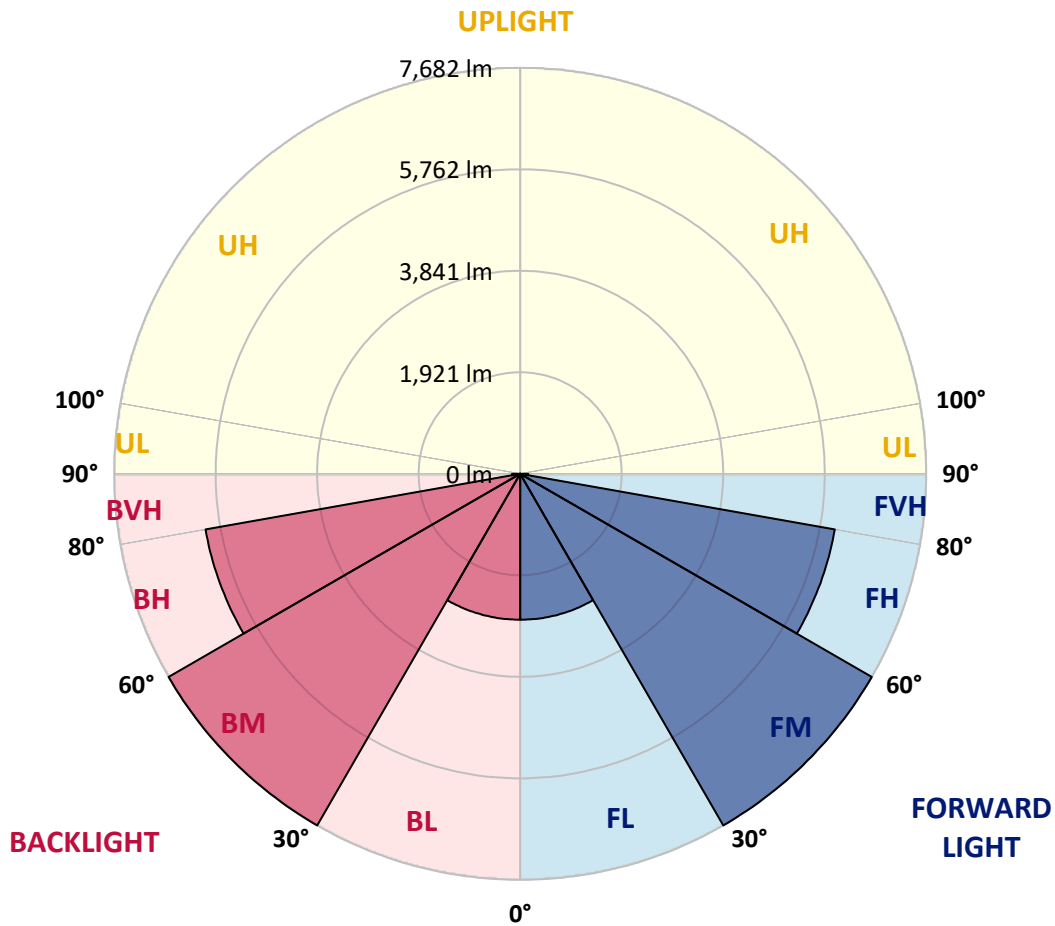
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.7	8.3			
FM (30°-60°)	7682.4	23.1			
FH (60°-80°)	6045.8	18.2			G3/7500
FVH (80°-90°)	152.6	0.5			G2/225
BL (0°-30°)	2760.7	8.3	B4/5000		
BM (30°-60°)	7682.4	23.1	B4/8500		
BH (60°-80°)	6045.8	18.2	B5		G5
BVH (80°-90°)	152.6	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°	6219.3	6219.3	6219.3	6219.3	6219.3	6219.3	6219.3	6219.3	6219.3	6219.3	6219.3
2.5°	6224.6	6231.7	6231.7	6226.4	6238.7	6228.1	6228.1	6222.8	6228.1	6222.8	6222.8
5°	6256.4	6265.3	6268.8	6267.0	6283.0	6274.1	6274.1	6267.0	6268.8	6263.5	6263.5
7.5°	6316.6	6328.9	6336.0	6344.9	6367.9	6357.3	6350.2	6328.9	6320.1	6306.0	6306.0
10°	6336.0	6350.2	6373.2	6419.2	6472.2	6474.0	6452.8	6399.7	6359.0	6327.2	6321.9
12.5°	6275.9	6295.3	6343.1	6436.8	6555.4	6603.1	6569.5	6481.1	6401.5	6344.9	6336.0
15°	6199.8	6221.0	6293.6	6435.1	6610.2	6721.6	6718.1	6601.4	6474.0	6385.6	6371.4
17.5°	6081.3	6102.5	6206.9	6405.0	6652.6	6836.6	6886.1	6765.9	6587.2	6468.7	6449.2
20°	5867.3	5886.7	6031.8	6309.5	6666.8	6958.7	7087.8	6981.7	6758.8	6597.8	6567.7
22.5°	5589.6	5619.6	5789.4	6145.0	6633.2	7086.0	7317.7	7245.2	6958.7	6735.8	6695.1
25°	5292.4	5324.2	5522.4	5943.3	6546.5	7178.0	7590.1	7544.1	7185.1	6907.4	6850.8
27.5°	5035.9	5069.5	5285.3	5743.5	6412.1	7213.4	7859.0	7882.0	7459.2	7096.6	7036.5
30°	4834.3	4866.1	5096.1	5582.5	6238.7	7178.0	8094.3	8253.5	7738.7	7261.1	7174.5
32.5°	4613.2	4653.8	4896.2	5386.2	6033.6	7093.1	8299.4	8655.0	8062.4	7438.0	7328.3
35°	4333.7	4370.8	4625.5	5117.3	5764.7	6956.9	8471.0	9100.7	8525.9	7706.9	7584.8
37.5°	3994.1	4029.4	4282.4	4781.2	5497.6	6765.9	8601.9	9603.1	9077.7	8094.3	7931.5
40°	3652.7	3686.3	3923.3	4406.2	5177.4	6521.8	8647.9	10094.8	9711.0	8626.7	8453.3
42.5°	3339.6	3369.7	3587.2	4036.5	4818.3	6210.4	8587.8	10522.9	10278.8	8998.1	8775.3
45°	3051.3	3077.8	3270.6	3689.8	4445.1	5831.9	8407.3	10982.8	10954.5	9263.5	8962.8
47.5°	2722.3	2748.8	2948.7	3353.7	4071.9	5387.9	8101.3	11435.6	11893.8	9864.9	9518.2
50°	2320.7	2343.7	2548.9	2966.4	3684.5	4915.6	7676.8	11791.2	13078.9	10775.8	10340.7
52.5°	1844.9	1869.7	2069.6	2487.0	3224.6	4408.0	7117.9	12022.9	14448.0	12106.0	11570.1
55°	1372.6	1390.3	1563.7	1938.7	2655.0	3829.6	6417.4	12088.3	16001.0	13924.4	13254.0
57.5°	995.9	1006.5	1117.9	1397.4	2013.0	3106.1	5566.6	11918.5	17849.5	16255.7	15412.0
60°	806.6	810.1	843.7	967.6	1399.2	2288.9	4538.9	11334.8	19855.4	19261.0	18197.9
62.5°	732.3	732.3	741.1	774.8	946.3	1510.6	3295.4	10124.9	22006.3	23058.7	21634.8
65°	681.0	681.0	684.5	700.5	746.5	962.3	2080.2	8154.4	23819.3	27507.4	25706.7
67.5°	635.0	636.8	635.0	640.3	666.9	711.1	1206.4	5632.0	24795.8	32117.0	30173.1
70°	587.3	590.8	582.0	582.0	603.2	604.9	755.3	3088.4	23985.6	35980.2	35469.0
72.5°	530.7	536.0	521.8	518.3	534.2	527.1	567.8	1482.3	20593.0	37133.5	38477.8
75°	481.1	488.2	456.4	447.5	447.5	442.2	461.7	760.6	13365.4	30291.6	32400.0
77.5°	436.9	451.1	399.8	371.5	364.4	348.5	376.8	465.2	5846.1	14221.6	13926.2
80°	360.8	380.3	329.0	295.4	283.0	265.3	297.2	325.5	1738.8	3302.4	3162.7
82.5°	268.9	277.7	233.5	210.5	199.9	187.5	222.9	226.4	566.0	1169.2	1321.3
85°	171.6	175.1	143.3	123.8	118.5	113.2	141.5	123.8	215.8	859.7	1248.8
87.5°	60.1	69.0	54.8	49.5	53.1	44.2	65.4	37.1	60.1	606.7	751.8
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)