

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: P883925

Luminaire Tested: **NAV-SB4C-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883925
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-SB4C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29556 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

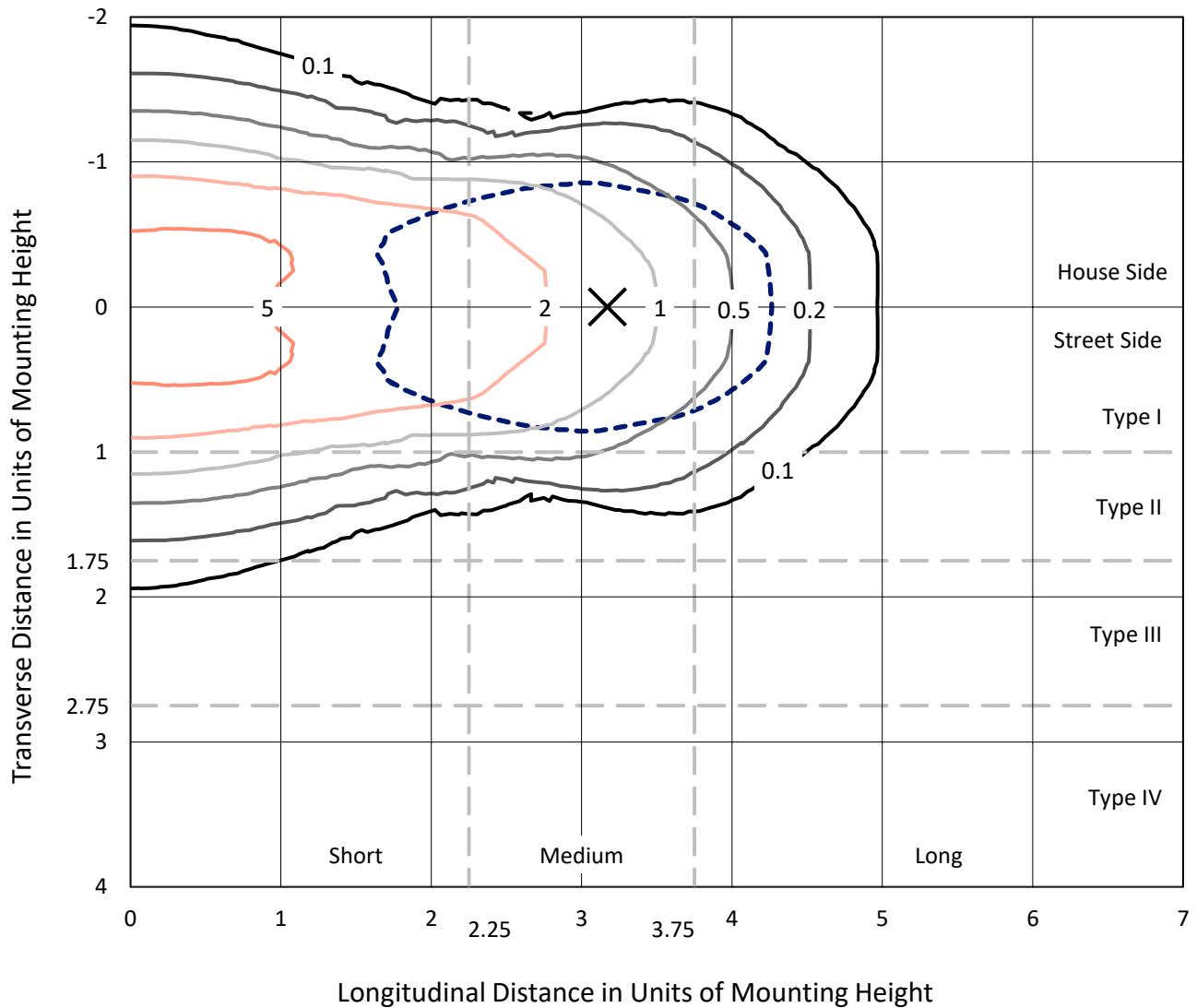
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

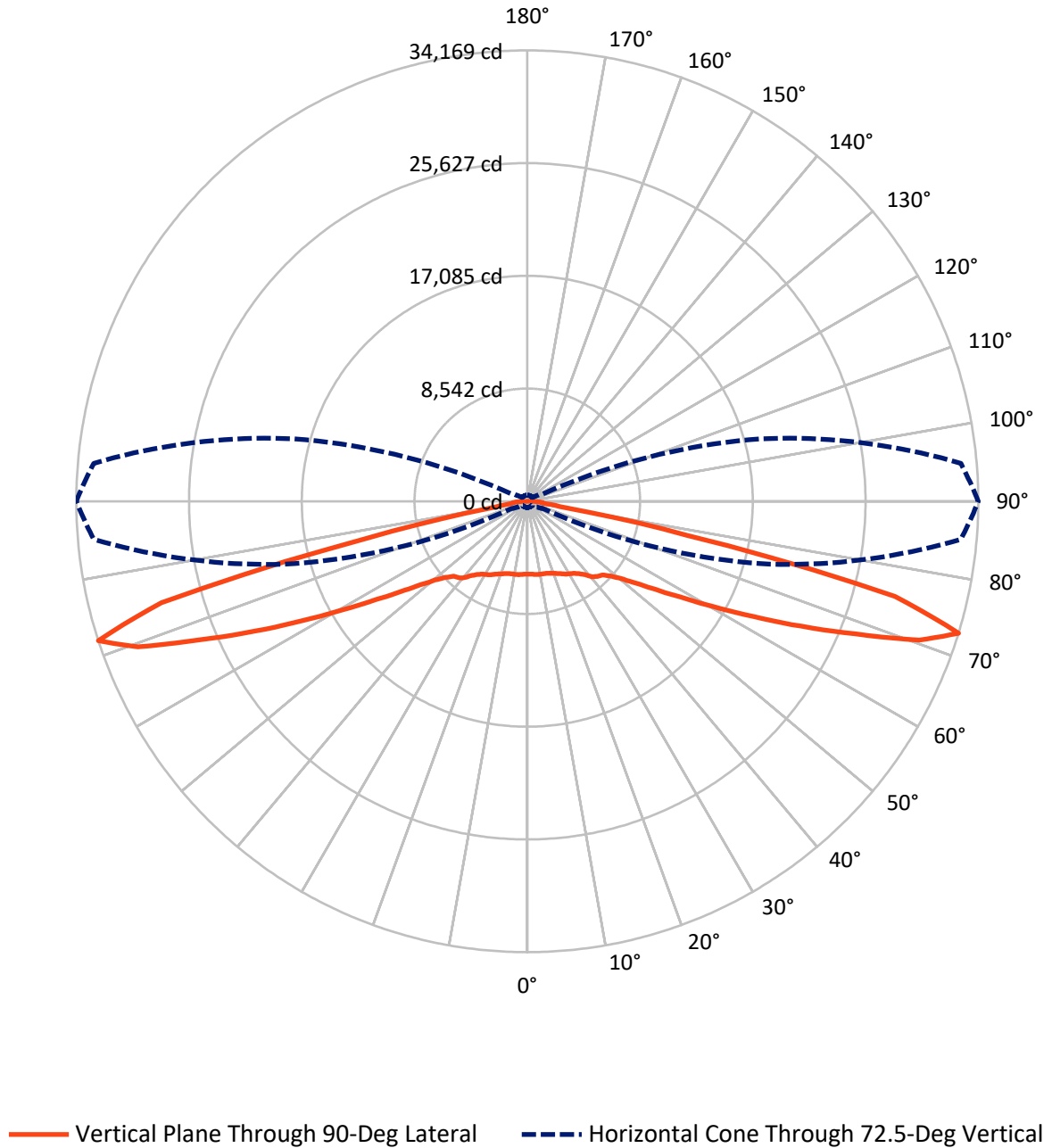
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	14778.0	0.0	14778.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14778.0	0.0	14778.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29556.0	0.0	29556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.5	1.8
10°-20°	1637.4	5.5
20°-30°	2730.2	9.2
30°-40°	3754.8	12.7
40°-50°	4585.7	15.5
50°-60°	5303.8	17.9
60°-70°	6323.9	21.4
70°-80°	4413.7	14.9
80°-90°	271.1	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°	29556.0	100.0
0°-180°	29556.0	100.0



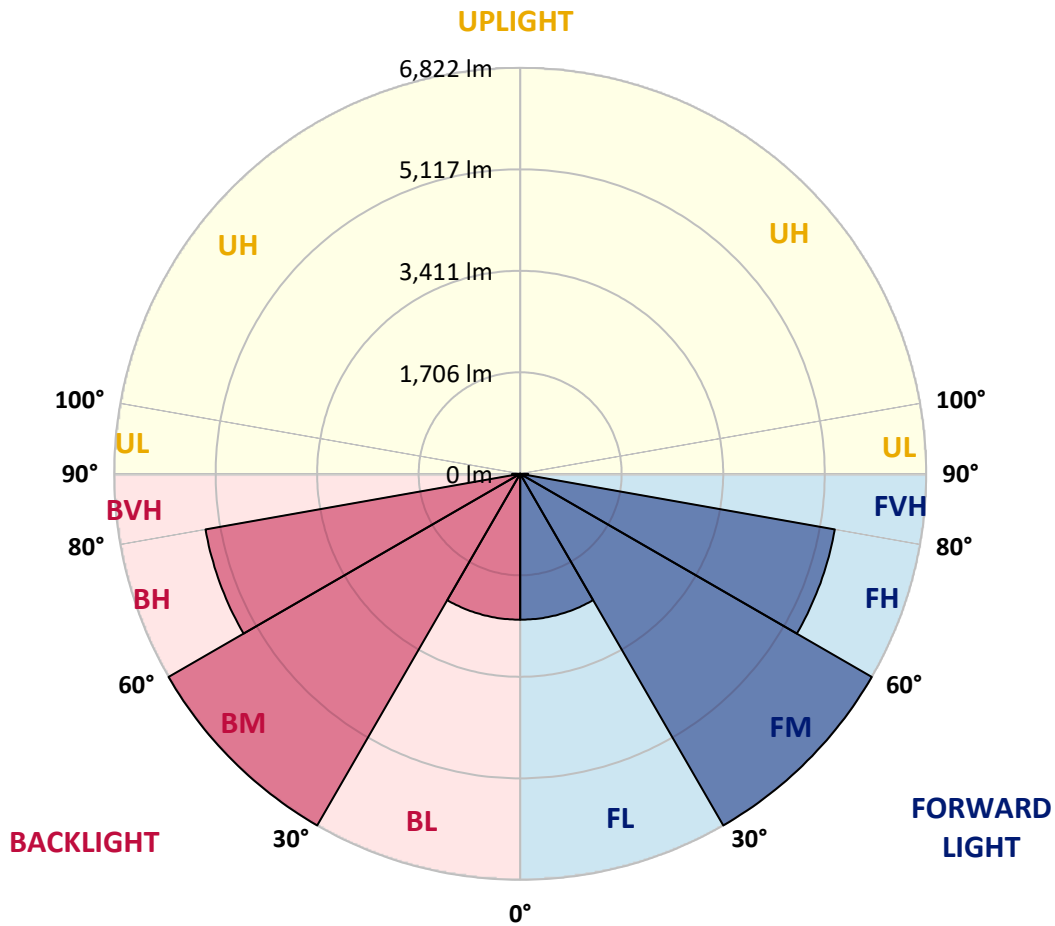
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2451.5	8.3			
FM (30°-60°)	6822.1	23.1			
FH (60°-80°)	5368.8	18.2			G3/7500
FVH (80°-90°)	135.5	0.5			G2/225
BL (0°-30°)	2451.5	8.3	B3/2500		
BM (30°-60°)	6822.1	23.1	B4/8500		
BH (60°-80°)	5368.8	18.2	B5		G5
BVH (80°-90°)	135.5	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°	5522.9	5522.9	5522.9	5522.9	5522.9	5522.9	5522.9	5522.9	5522.9	5522.9	5522.9
2.5°	5527.6	5533.8	5533.8	5529.1	5540.1	5530.7	5530.7	5526.0	5530.7	5526.0	5526.0
5°	5555.8	5563.7	5566.8	5565.3	5579.4	5571.5	5571.5	5565.3	5566.8	5562.1	5562.1
7.5°	5609.2	5620.2	5626.5	5634.4	5654.8	5645.4	5639.1	5620.2	5612.4	5599.8	5599.8
10°	5626.5	5639.1	5659.5	5700.3	5747.5	5749.0	5730.2	5683.1	5646.9	5618.7	5614.0
12.5°	5573.1	5590.4	5632.8	5716.1	5821.3	5863.7	5833.9	5755.3	5684.6	5634.4	5626.5
15°	5505.6	5524.4	5588.8	5714.5	5870.0	5969.0	5965.8	5862.1	5749.0	5670.5	5657.9
17.5°	5400.3	5419.2	5511.9	5687.8	5907.7	6071.1	6115.0	6008.2	5849.6	5744.3	5727.1
20°	5210.3	5227.5	5356.3	5603.0	5920.3	6179.4	6294.1	6199.9	6001.9	5859.0	5832.3
22.5°	4963.7	4990.4	5141.2	5456.9	5890.4	6292.5	6498.3	6433.9	6179.4	5981.5	5945.4
25°	4699.8	4728.0	4904.0	5277.8	5813.4	6374.2	6740.2	6699.4	6380.5	6133.9	6083.6
27.5°	4472.0	4501.8	4693.5	5100.3	5694.1	6405.6	6979.0	6999.4	6624.0	6302.0	6248.5
30°	4292.9	4321.2	4525.4	4957.4	5540.1	6374.2	7187.9	7329.2	6872.1	6448.0	6371.1
32.5°	4096.6	4132.7	4347.9	4783.0	5357.9	6298.8	7370.1	7685.8	7159.6	6605.1	6507.7
35°	3848.4	3881.4	4107.6	4544.3	5119.2	6177.9	7522.4	8081.6	7571.1	6843.9	6735.5
37.5°	3546.8	3578.2	3802.9	4245.8	4882.0	6008.2	7638.7	8527.7	8061.2	7187.9	7043.4
40°	3243.7	3273.5	3484.0	3912.8	4597.7	5791.5	7679.5	8964.4	8623.6	7660.7	7506.7
42.5°	2965.6	2992.3	3185.5	3584.5	4278.8	5515.0	7626.1	9344.6	9127.8	7990.5	7792.6
45°	2709.6	2733.2	2904.4	3276.6	3947.4	5178.9	7465.9	9753.0	9727.8	8226.2	7959.1
47.5°	2417.4	2441.0	2618.5	2978.2	3615.9	4784.6	7194.2	10155.1	10561.9	8760.2	8452.3
50°	2060.9	2081.3	2263.5	2634.2	3271.9	4365.2	6817.2	10470.8	11614.3	9569.2	9182.8
52.5°	1638.3	1660.3	1837.8	2208.5	2863.5	3914.4	6320.8	10676.6	12830.1	10750.4	10274.4
55°	1218.9	1234.6	1388.6	1721.6	2357.7	3400.7	5698.8	10734.7	14209.2	12365.2	11769.8
57.5°	884.3	893.8	992.7	1240.9	1787.5	2758.3	4943.2	10583.9	15850.7	14435.4	13686.2
60°	716.3	719.4	749.3	859.2	1242.5	2032.6	4030.6	10065.5	17632.0	17104.2	16160.1
62.5°	650.3	650.3	658.2	688.0	840.4	1341.4	2926.4	8991.1	19542.0	20476.6	19212.2
65°	604.7	604.7	607.9	622.0	662.9	854.5	1847.2	7241.3	21152.1	24427.1	22828.1
67.5°	563.9	565.5	563.9	568.6	592.2	631.5	1071.3	5001.4	22019.1	28520.6	26794.3
70°	521.5	524.6	516.8	516.8	535.6	537.2	670.7	2742.6	21299.7	31951.2	31497.2
72.5°	471.2	475.9	463.4	460.2	474.4	468.1	504.2	1316.3	18287.0	32975.3	34169.1
75°	427.3	433.5	405.3	397.4	397.4	392.7	410.0	675.4	11868.8	26899.5	28771.9
77.5°	388.0	400.5	355.0	329.9	323.6	309.4	334.6	413.1	5191.4	12629.0	12366.7
80°	320.4	337.7	292.2	262.3	251.3	235.6	263.9	289.0	1544.1	2932.6	2808.5
82.5°	238.8	246.6	207.3	186.9	177.5	166.5	197.9	201.1	502.6	1038.3	1173.4
85°	152.4	155.5	127.2	110.0	105.2	100.5	125.7	110.0	191.6	763.4	1109.0
87.5°	53.4	61.3	48.7	44.0	47.1	39.3	58.1	33.0	53.4	538.8	667.6
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)