

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: P883475

Luminaire Tested: **NAV-SB3D-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883475
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 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: 26421 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

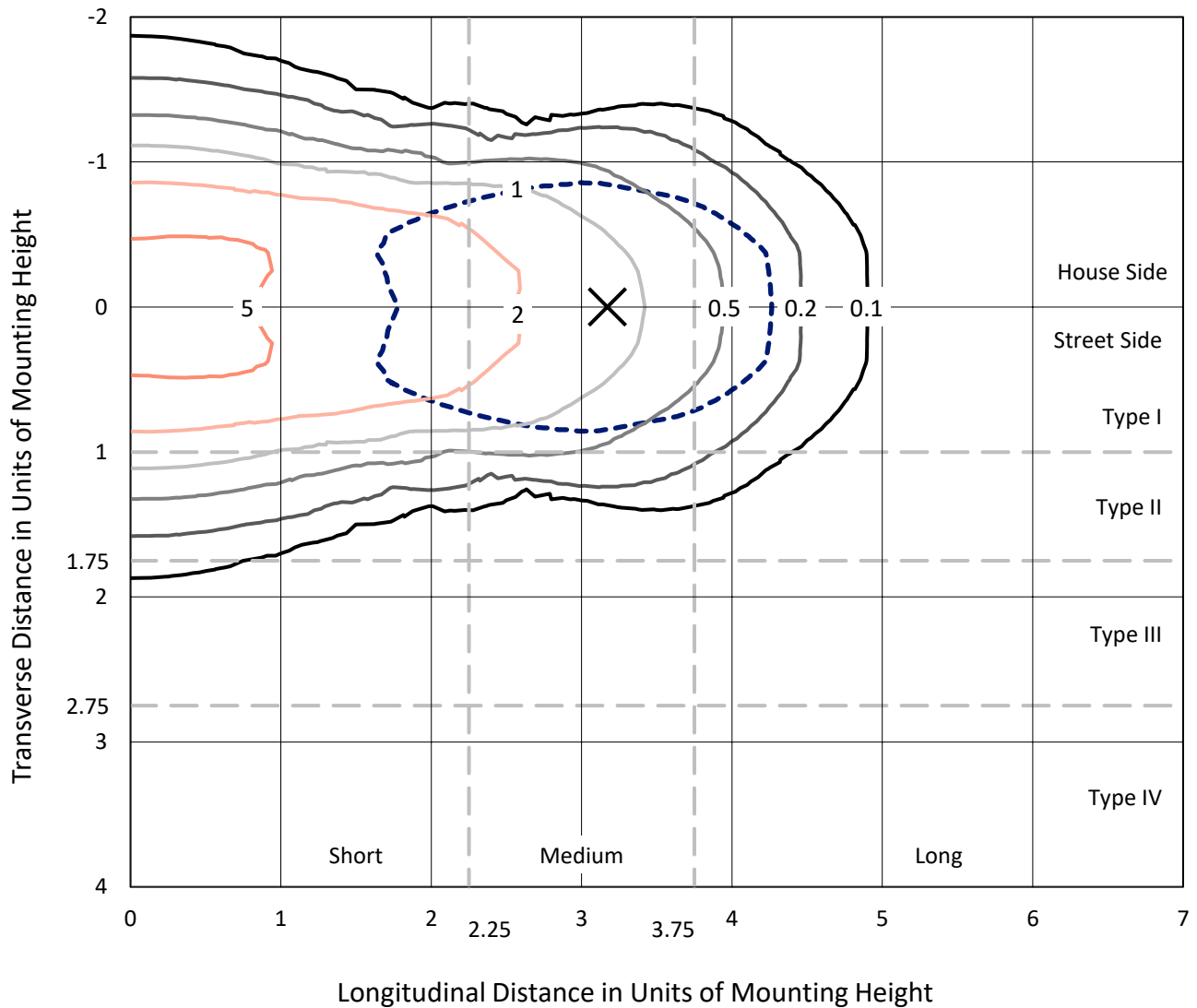
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

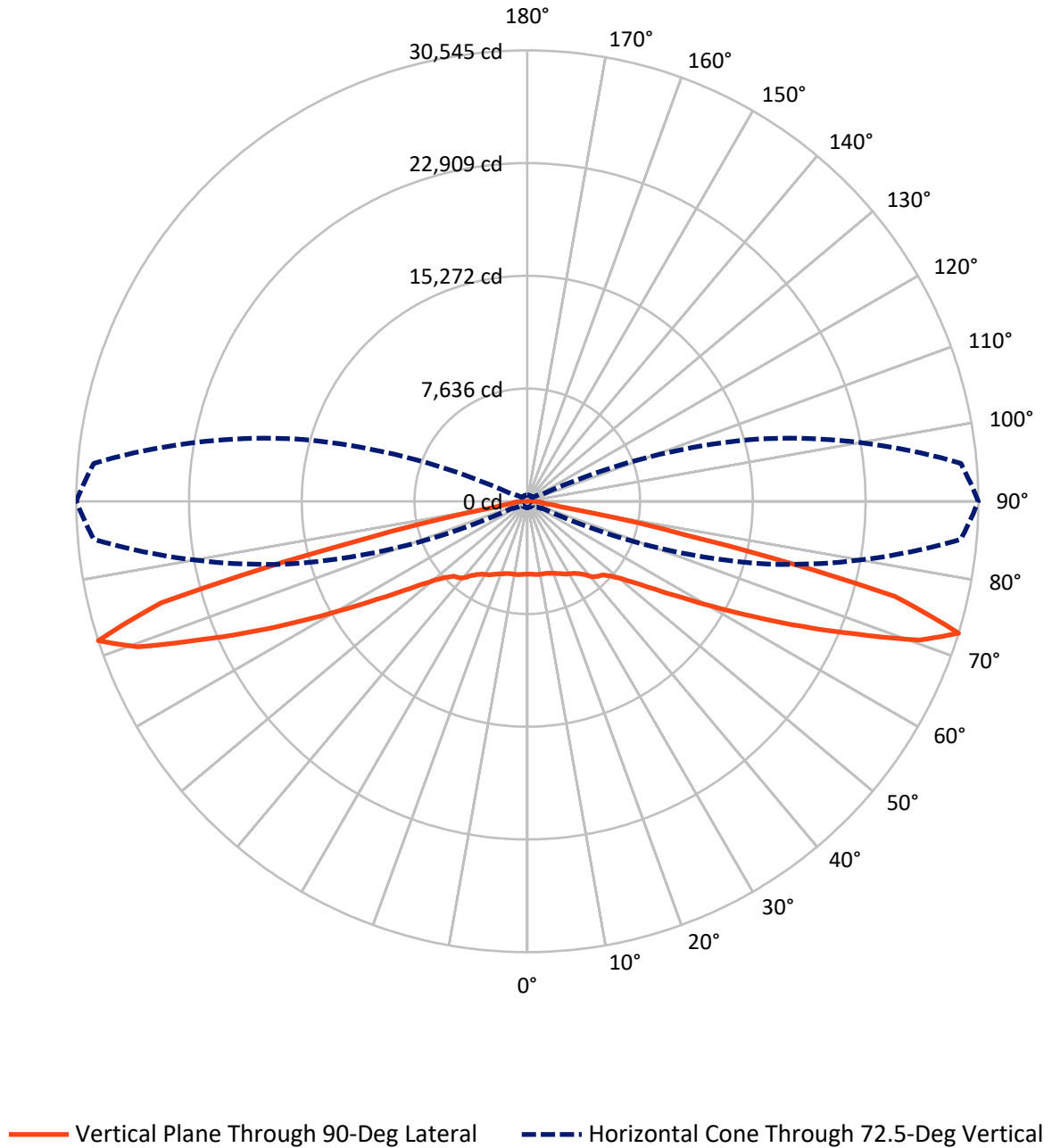
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13210.5	0.0	13210.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13210.5	0.0	13210.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26421.0	0.0	26421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.7	1.8
10°-20°	1463.7	5.5
20°-30°	2440.6	9.2
30°-40°	3356.6	12.7
40°-50°	4099.3	15.5
50°-60°	4741.2	17.9
60°-70°	5653.1	21.4
70°-80°	3945.5	14.9
80°-90°	242.3	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°	26421.0	100.0
0°-180°	26421.0	100.0

Coefficient of Utilization



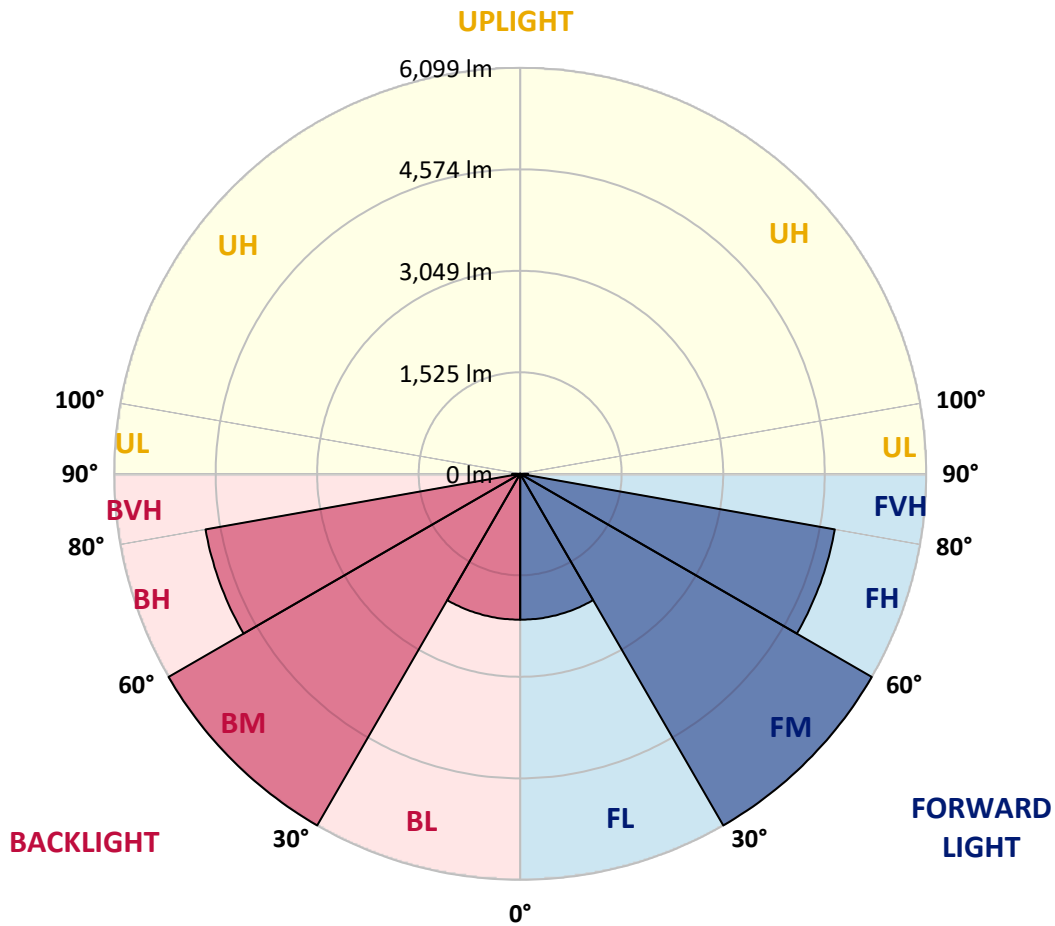
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.5	8.3			
FM (30°-60°)	6098.5	23.1			
FH (60°-80°)	4799.3	18.2			G2/5000
FVH (80°-90°)	121.2	0.5			G2/225
BL (0°-30°)	2191.5	8.3	B3/2500		
BM (30°-60°)	6098.5	23.1	B4/8500		
BH (60°-80°)	4799.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	121.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0
2.5°	4941.3	4946.9	4946.9	4942.7	4952.5	4944.1	4944.1	4939.9	4944.1	4939.9	4939.9
5°	4966.5	4973.6	4976.4	4975.0	4987.6	4980.6	4980.6	4975.0	4976.4	4972.1	4972.1
7.5°	5014.3	5024.1	5029.7	5036.7	5055.0	5046.6	5041.0	5024.1	5017.1	5005.8	5005.8
10°	5029.7	5041.0	5059.2	5095.7	5137.8	5139.2	5122.4	5080.3	5048.0	5022.7	5018.5
12.5°	4982.0	4997.4	5035.3	5109.8	5203.8	5241.7	5215.1	5144.9	5081.7	5036.7	5029.7
15°	4921.6	4938.4	4996.0	5108.4	5247.4	5335.8	5333.0	5240.3	5139.2	5069.0	5057.8
17.5°	4827.5	4844.4	4927.2	5084.5	5281.1	5427.1	5466.4	5370.9	5229.1	5135.0	5119.6
20°	4657.6	4673.1	4788.2	5008.7	5292.3	5524.0	5626.5	5542.2	5365.3	5237.5	5213.7
22.5°	4437.2	4461.0	4595.8	4878.1	5265.6	5625.1	5809.0	5751.5	5524.0	5347.1	5314.8
25°	4201.3	4226.5	4383.8	4718.0	5196.8	5698.1	6025.3	5988.8	5703.7	5483.3	5438.3
27.5°	3997.7	4024.3	4195.6	4559.3	5090.1	5726.2	6238.7	6257.0	5921.4	5633.5	5585.8
30°	3837.6	3862.9	4045.4	4431.5	4952.5	5698.1	6425.5	6551.8	6143.2	5764.1	5695.3
32.5°	3662.1	3694.4	3886.7	4275.7	4789.6	5630.7	6588.3	6870.6	6400.2	5904.5	5817.5
35°	3440.2	3469.7	3671.9	4062.2	4576.2	5522.6	6724.5	7224.4	6768.1	6117.9	6021.1
37.5°	3170.6	3198.7	3399.5	3795.5	4364.1	5370.9	6828.5	7623.2	7206.2	6425.5	6296.3
40°	2899.6	2926.3	3114.4	3497.8	4110.0	5177.2	6865.0	8013.6	7708.9	6848.1	6710.5
42.5°	2651.1	2674.9	2847.6	3204.3	3824.9	4930.0	6817.2	8353.4	8159.6	7143.0	6966.1
45°	2422.2	2443.2	2596.3	2929.1	3528.7	4629.5	6674.0	8718.5	8696.0	7353.6	7114.9
47.5°	2161.0	2182.1	2340.7	2662.3	3232.4	4277.1	6431.1	9077.9	9441.6	7831.0	7555.8
50°	1842.3	1860.5	2023.4	2354.8	2924.9	3902.2	6094.1	9360.2	10382.4	8554.2	8208.7
52.5°	1464.5	1484.2	1642.9	1974.3	2559.8	3499.2	5650.4	9544.1	11469.2	9610.1	9184.6
55°	1089.6	1103.7	1241.3	1539.0	2107.7	3040.0	5094.3	9596.1	12702.1	11053.6	10521.4
57.5°	790.5	799.0	887.4	1109.3	1597.9	2465.7	4418.9	9461.3	14169.4	12904.3	12234.5
60°	640.3	643.1	669.8	768.1	1110.7	1817.0	3603.1	8997.9	15761.7	15289.9	14446.0
62.5°	581.3	581.3	588.3	615.0	751.2	1199.2	2616.0	8037.4	17469.2	18304.7	17174.3
65°	540.6	540.6	543.4	556.0	592.6	763.9	1651.3	6473.2	18908.5	21836.2	20406.7
67.5°	504.1	505.5	504.1	508.3	529.4	564.5	957.6	4470.9	19683.6	25495.4	23952.2
70°	466.2	469.0	462.0	462.0	478.8	480.2	599.6	2451.7	19040.5	28562.1	28156.3
72.5°	421.2	425.5	414.2	411.4	424.1	418.4	450.7	1176.7	16347.3	29477.6	30544.8
75°	381.9	387.5	362.3	355.3	355.3	351.0	366.5	603.8	10609.9	24046.3	25720.1
77.5°	346.8	358.1	317.3	294.9	289.3	276.6	299.1	369.3	4640.8	11289.5	11055.0
80°	286.4	301.9	261.2	234.5	224.7	210.6	235.9	258.4	1380.3	2621.6	2510.6
82.5°	213.4	220.5	185.3	167.1	158.7	148.8	176.9	179.7	449.3	928.2	1048.9
85°	136.2	139.0	113.7	98.3	94.1	89.9	112.3	98.3	171.3	682.4	991.3
87.5°	47.7	54.8	43.5	39.3	42.1	35.1	52.0	29.5	47.7	481.6	596.8
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)