

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: P885515

Luminaire Tested: **NAV-SB6D-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885515
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-SB6D-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 53464 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

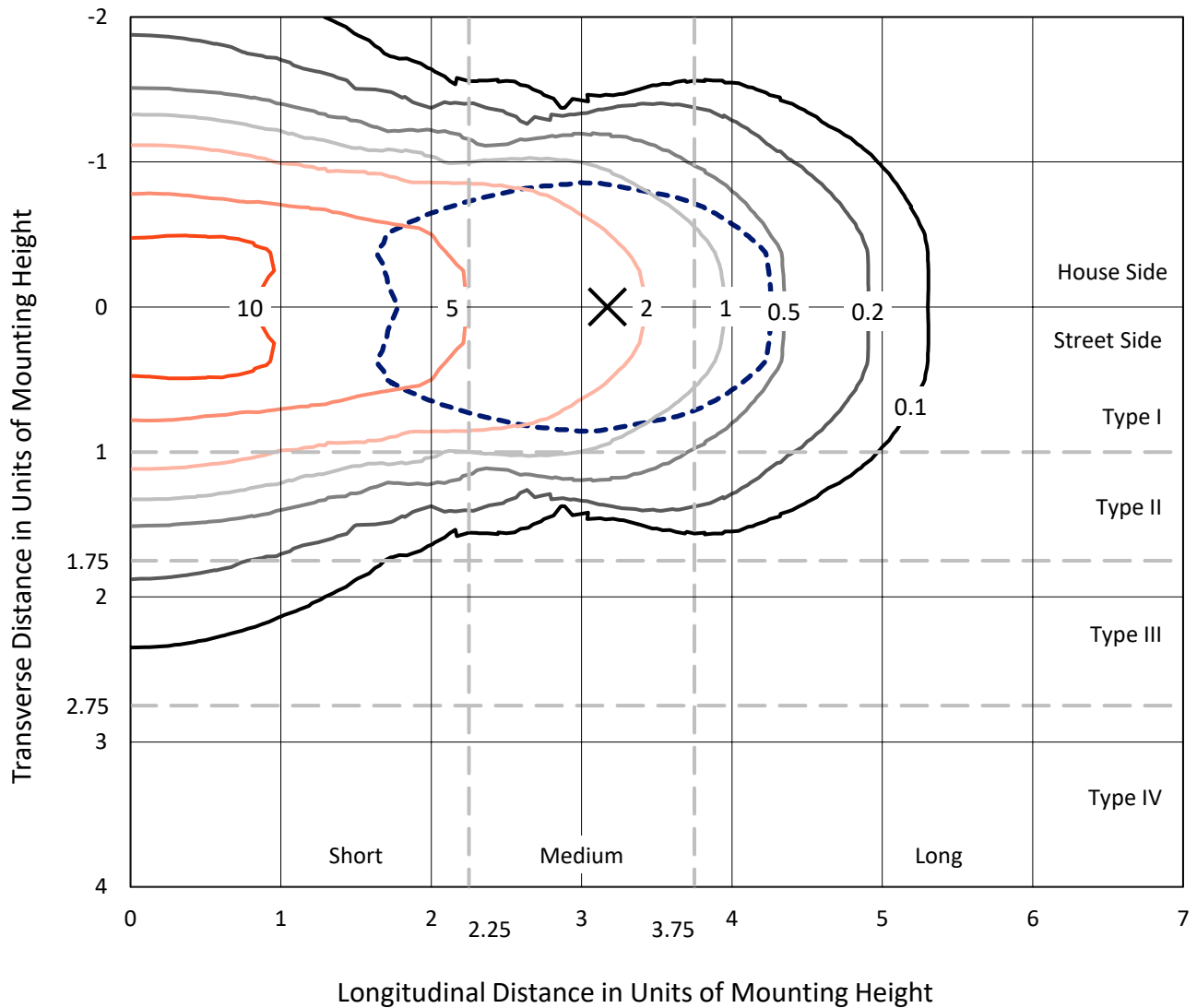
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

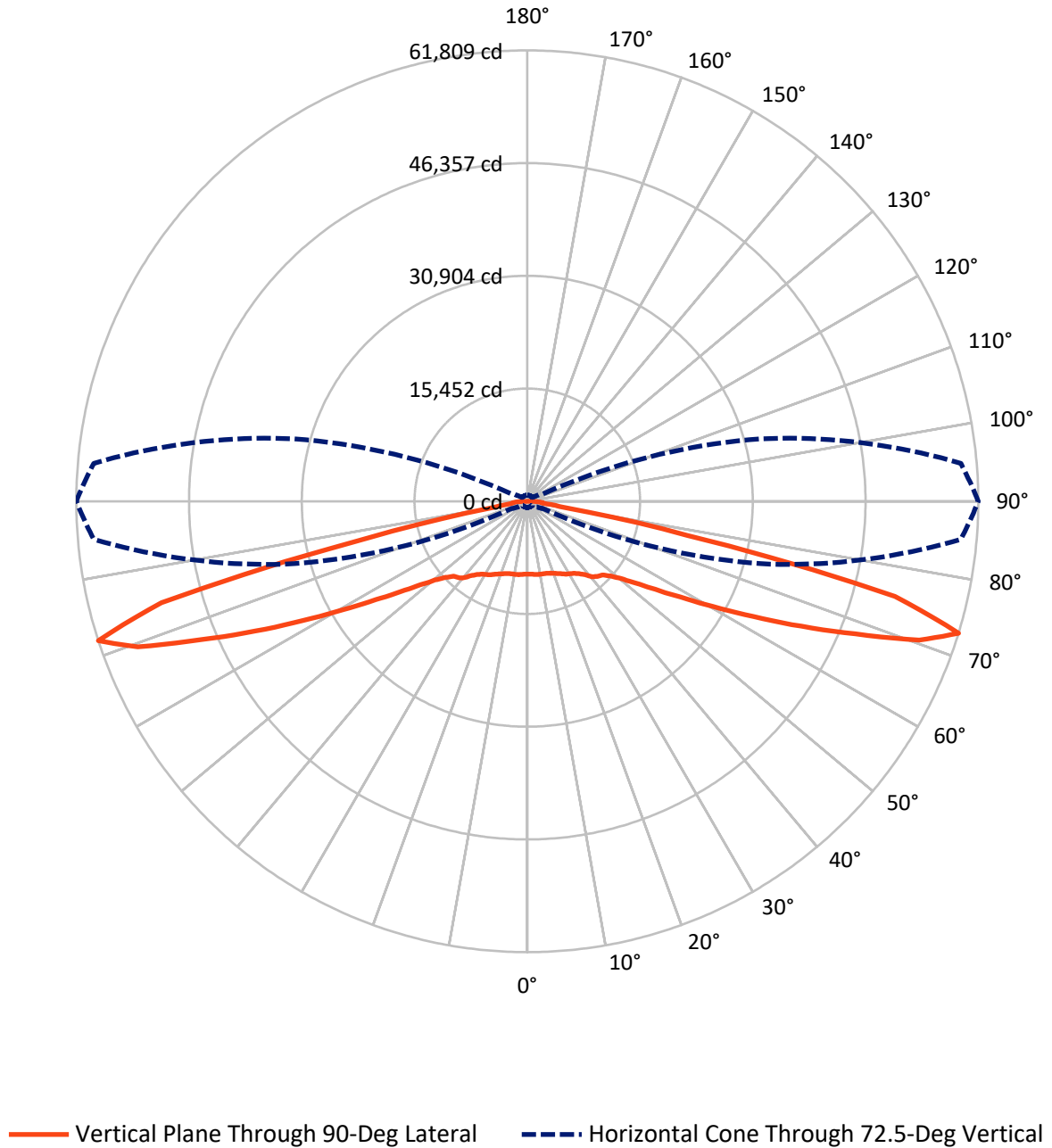
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	26732.0	0.0	26732.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26732.0	0.0	26732.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53464.0	0.0	53464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.7	1.8
10°-20°	2961.8	5.5
20°-30°	4938.6	9.2
30°-40°	6792.1	12.7
40°-50°	8295.0	15.5
50°-60°	9594.1	17.9
60°-70°	11439.4	21.4
70°-80°	7983.9	14.9
80°-90°	490.4	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°	53464.0	100.0
0°-180°	53464.0	100.0

Coefficient of Utilization



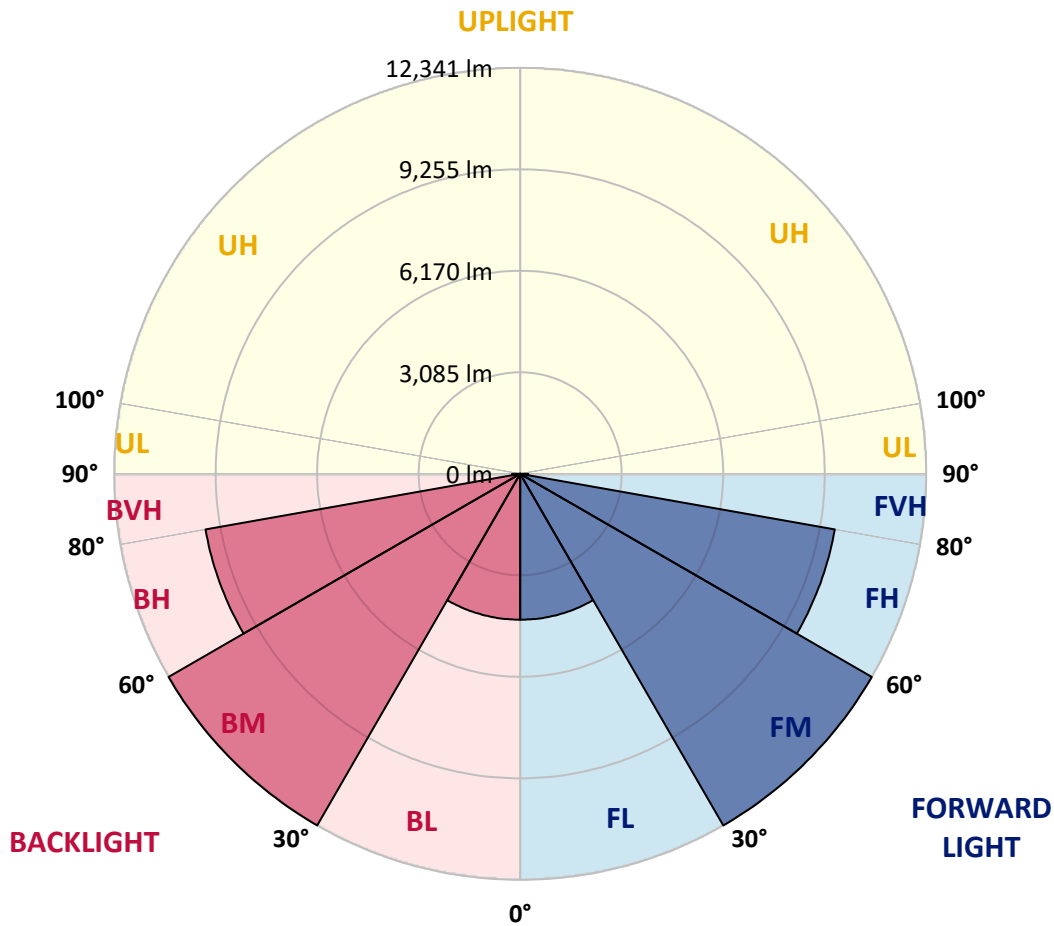
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4434.6	8.3			
FM (30°-60°)	12340.6	23.1			
FH (60°-80°)	9711.6	18.2			G4/12000
FVH (80°-90°)	245.2	0.5			G3/500
BL (0°-30°)	4434.6	8.3	B4/5000		
BM (30°-60°)	12340.6	23.1	B5		
BH (60°-80°)	9711.6	18.2	B5		G5
BVH (80°-90°)	245.2	0.5			G3/500
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°	9990.3	9990.3	9990.3	9990.3	9990.3	9990.3	9990.3	9990.3	9990.3	9990.3	9990.3
2.5°	9998.8	10010.2	10010.2	10001.7	10021.6	10004.5	10004.5	9996.0	10004.5	9996.0	9996.0
5°	10050.0	10064.2	10069.9	10067.0	10092.6	10078.4	10078.4	10067.0	10069.9	10061.3	10061.3
7.5°	10146.6	10166.5	10177.8	10192.1	10229.0	10211.9	10200.6	10166.5	10152.3	10129.5	10129.5
10°	10177.8	10200.6	10237.5	10311.4	10396.6	10399.5	10365.4	10280.1	10214.8	10163.6	10155.1
12.5°	10081.2	10112.5	10189.2	10339.8	10530.2	10606.9	10552.9	10410.8	10283.0	10192.1	10177.8
15°	9959.1	9993.2	10109.7	10337.0	10618.3	10797.3	10791.6	10604.1	10399.5	10257.4	10234.7
17.5°	9768.7	9802.8	9970.4	10288.7	10686.5	10982.0	11061.5	10868.3	10581.3	10390.9	10359.7
20°	9424.9	9456.1	9689.1	10135.2	10709.2	11178.0	11385.4	11215.0	10856.9	10598.4	10550.1
22.5°	8978.8	9027.1	9299.9	9871.0	10655.2	11382.6	11754.8	11638.3	11178.0	10820.0	10754.6
25°	8501.4	8552.6	8870.8	9547.1	10516.0	11530.3	12192.4	12118.5	11541.7	11095.6	11004.7
27.5°	8089.4	8143.4	8490.1	9226.0	10300.0	11587.2	12624.3	12661.2	11982.1	11399.6	11303.0
30°	7765.5	7816.7	8186.0	8967.4	10021.6	11530.3	13002.2	13257.9	12431.1	11663.9	11524.7
32.5°	7410.3	7475.7	7865.0	8652.0	9692.0	11394.0	13331.8	13902.9	12951.0	11948.0	11771.9
35°	6961.4	7021.1	7430.2	8220.1	9260.1	11175.2	13607.4	14618.9	13695.5	12379.9	12183.9
37.5°	6415.8	6472.7	6879.0	7680.3	8831.0	10868.3	13817.7	15425.9	14582.0	13002.2	12740.8
40°	5867.5	5921.4	6302.2	7077.9	8316.7	10476.2	13891.5	16215.8	15599.2	13857.4	13579.0
42.5°	5364.5	5412.8	5762.3	6484.0	7739.9	9976.1	13794.9	16903.4	16511.3	14454.1	14096.1
45°	4901.4	4944.0	5253.7	5927.1	7140.4	9368.0	13505.1	17642.2	17596.7	14880.3	14397.3
47.5°	4372.9	4415.5	4736.6	5387.3	6540.9	8654.9	13013.5	18369.6	19105.5	15846.4	15289.5
50°	3727.9	3764.8	4094.4	4765.0	5918.6	7896.2	12331.6	18940.7	21009.2	17309.7	16610.7
52.5°	2963.6	3003.3	3324.4	3995.0	5179.8	7080.7	11433.7	19312.9	23208.4	19446.4	18585.5
55°	2204.9	2233.3	2511.8	3114.2	4264.9	6151.6	10308.5	19418.0	25703.2	22367.4	21290.5
57.5°	1599.7	1616.7	1795.8	2244.7	3233.5	4989.5	8941.8	19145.3	28672.4	26112.3	24757.0
60°	1295.7	1301.4	1355.3	1554.2	2247.5	3676.8	7291.0	18207.6	31894.6	30939.9	29232.2
62.5°	1176.3	1176.3	1190.5	1244.5	1520.1	2426.5	5293.5	16264.1	35349.7	37040.3	34753.0
65°	1093.9	1093.9	1099.6	1125.2	1199.1	1545.7	3341.5	13098.8	38262.1	44186.4	41293.9
67.5°	1020.1	1022.9	1020.1	1028.6	1071.2	1142.2	1937.8	9047.0	39830.5	51591.0	48468.4
70°	943.3	949.0	934.8	934.8	968.9	971.8	1213.3	4961.1	38529.2	57796.6	56975.5
72.5°	852.4	860.9	838.2	832.5	858.1	846.7	912.1	2381.1	33079.4	59649.2	61808.7
75°	772.9	784.2	733.1	718.9	718.9	710.3	741.6	1221.8	21469.5	48658.7	52045.7
77.5°	701.8	724.6	642.2	596.7	585.3	559.8	605.2	747.3	9390.8	22844.7	22370.2
80°	579.6	610.9	528.5	474.5	454.6	426.2	477.4	522.8	2793.1	5304.9	5080.4
82.5°	431.9	446.1	375.1	338.1	321.1	301.2	358.0	363.7	909.2	1878.2	2122.5
85°	275.6	281.3	230.2	198.9	190.4	181.8	227.3	198.9	346.6	1380.9	2006.0
87.5°	96.6	110.8	88.1	79.6	85.2	71.0	105.1	59.7	96.6	974.6	1207.6
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)