

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: P967356

Luminaire Tested: **NAV-SB4D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37159.3 lumens
Efficiency: N/A
Efficacy: 126.6 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): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



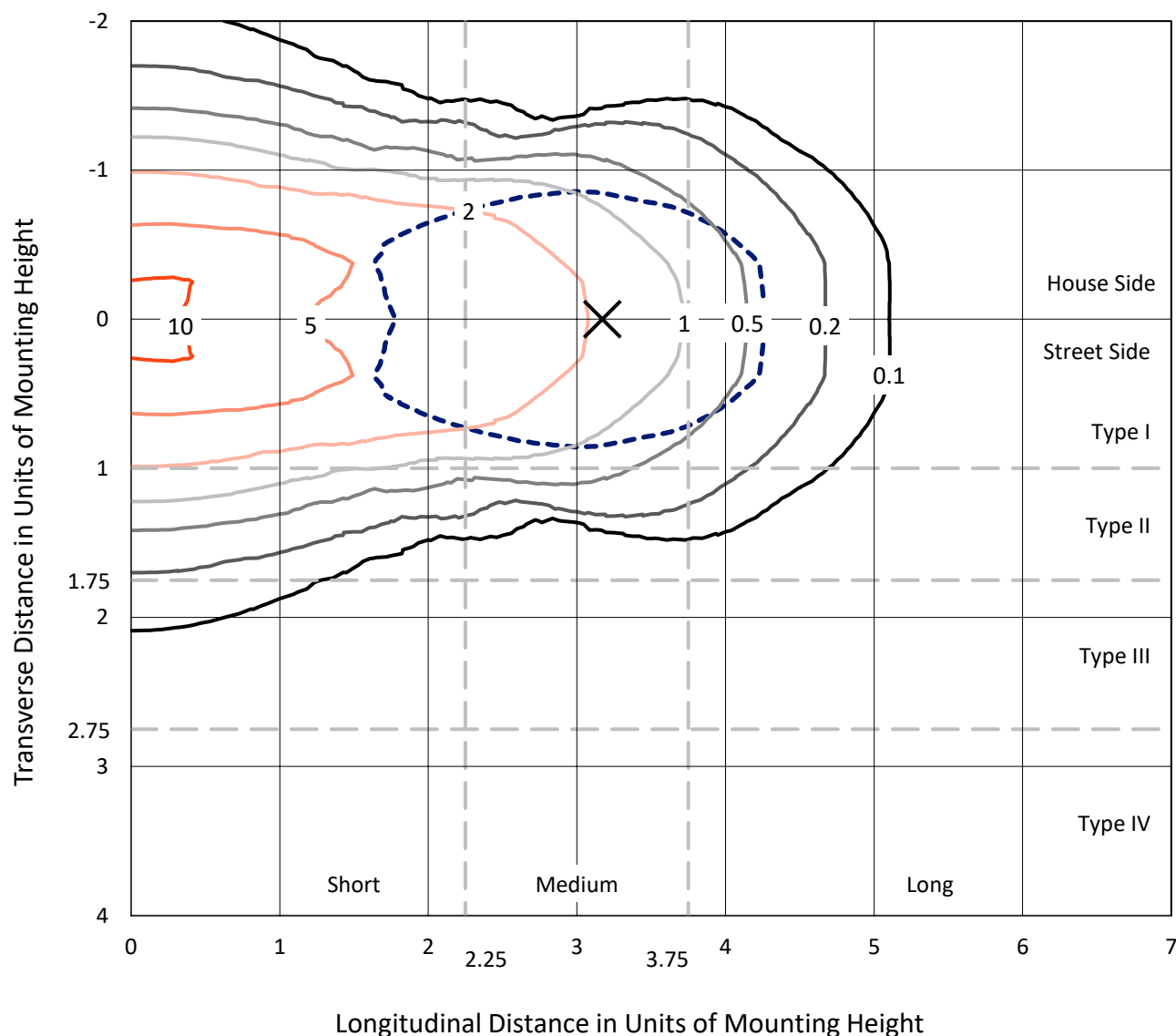
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

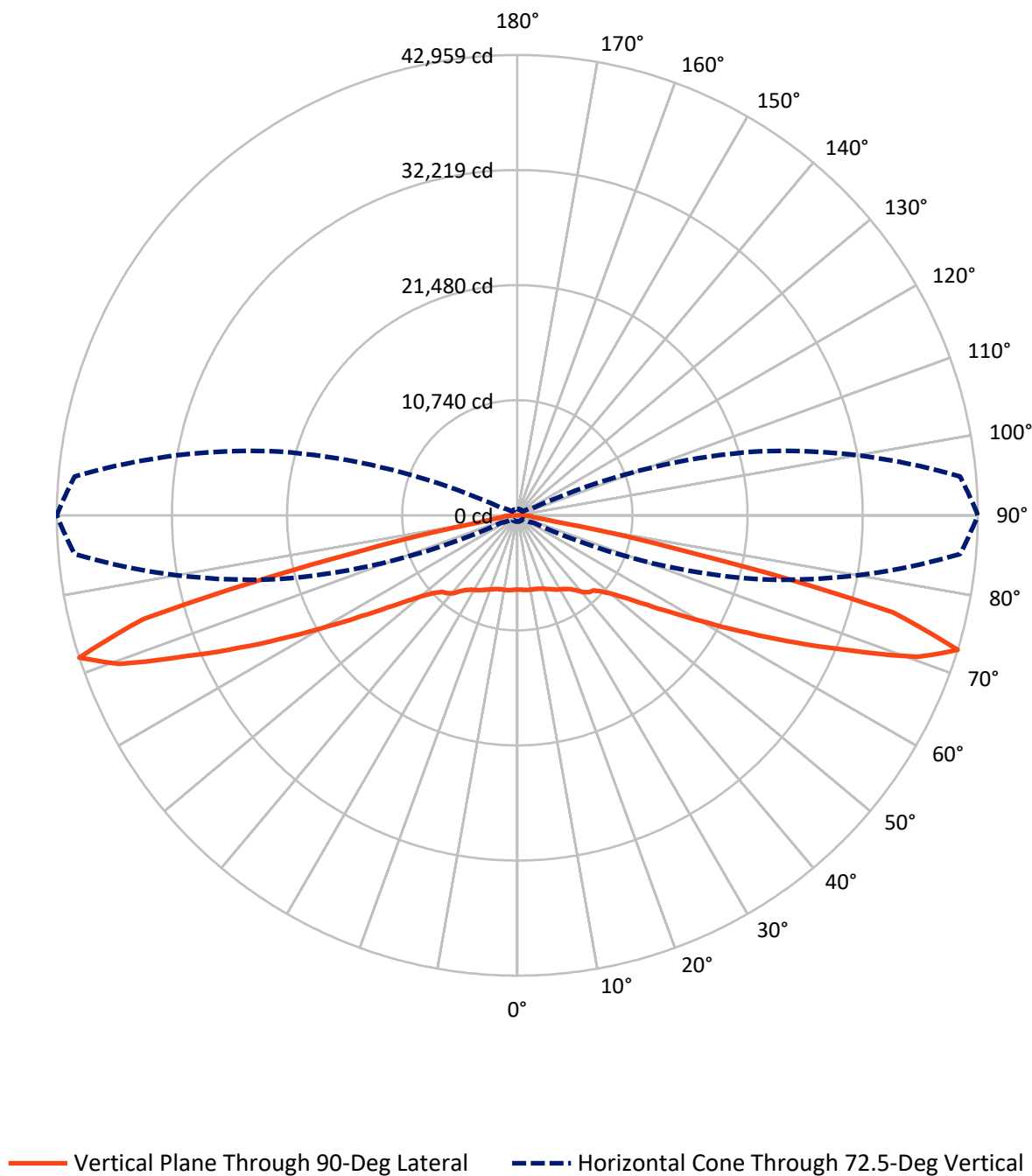


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc

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	18579.7	0.0	18579.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18579.7	0.0	18579.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	37159.3	0.0	37159.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.3	1.8
10°-20°	2058.6	5.5
20°-30°	3432.5	9.2
30°-40°	4720.8	12.7
40°-50°	5765.3	15.5
50°-60°	6668.2	17.9
60°-70°	7950.8	21.4
70°-80°	5549.1	14.9
80°-90°	340.8	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°	37159.3	100.0
0°-180°	37159.3	100.0

Coefficient of Utilization



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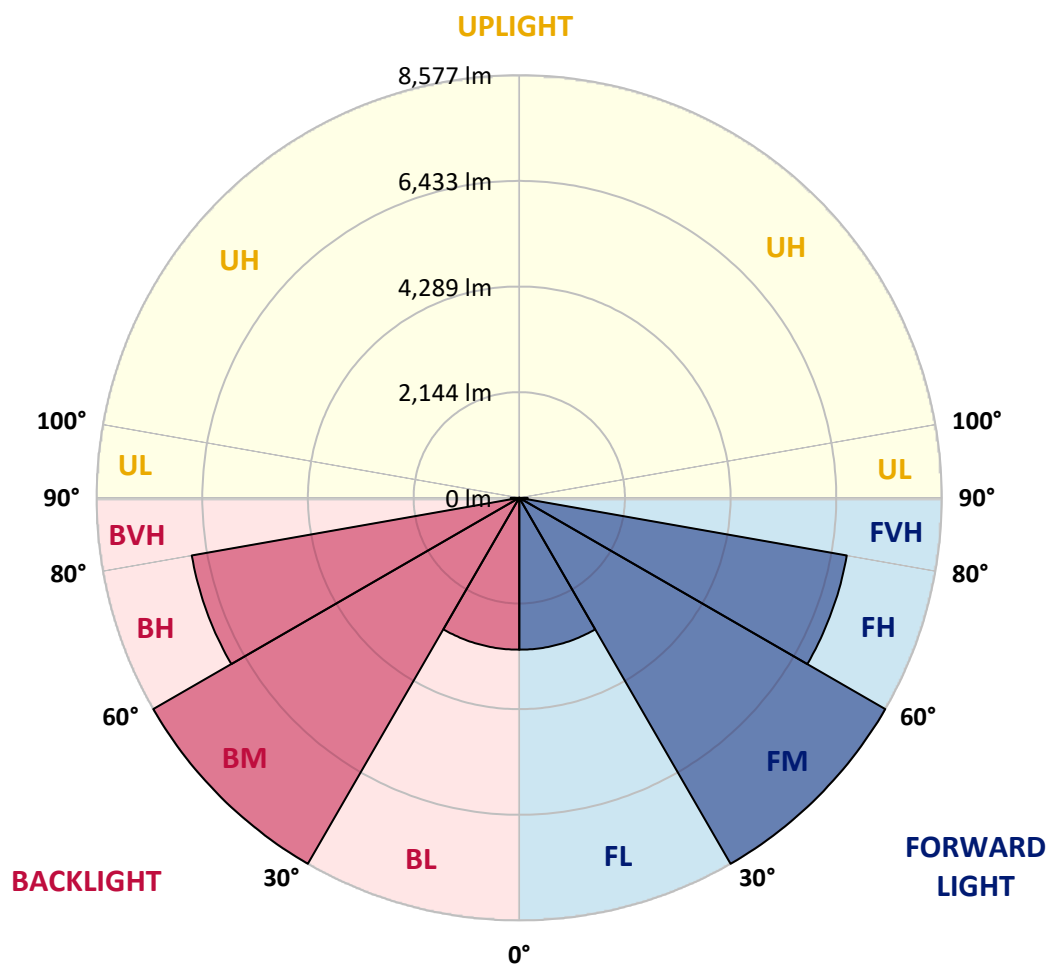
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3082.2	8.3			
FM	(30°-60°)	8577.1	23.1			
FH	(60°-80°)	6749.9	18.2			G3/7500
FVH	(80°-90°)	170.4	0.5			G2/225
BL	(0°-30°)	3082.2	8.3	B4/5000		
BM	(30°-60°)	8577.1	23.1	B5		
BH	(60°-80°)	6749.9	18.2	B5		G5
BVH	(80°-90°)	170.4	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°	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7
2.5°	6949.5	6957.4	6957.4	6951.6	6965.3	6953.5	6953.5	6947.6	6953.5	6947.6	6947.6
5°	6985.1	6994.9	6998.9	6997.0	7014.7	7004.8	7004.8	6997.0	6998.9	6993.0	6993.0
7.5°	7052.2	7066.0	7073.9	7083.9	7109.5	7097.6	7089.7	7066.0	7056.2	7040.4	7040.4
10°	7073.9	7089.7	7115.4	7166.8	7226.0	7228.0	7204.3	7145.1	7099.7	7064.1	7058.2
12.5°	7006.8	7028.5	7081.8	7186.5	7318.8	7372.1	7334.6	7235.9	7147.0	7083.9	7073.9
15°	6921.9	6945.6	7026.6	7184.5	7380.1	7504.4	7500.5	7370.2	7228.0	7129.3	7113.5
17.5°	6789.6	6813.3	6929.8	7151.0	7427.5	7632.9	7688.1	7553.8	7354.4	7222.0	7200.3
20°	6550.6	6572.3	6734.2	7044.3	7443.2	7769.1	7913.3	7794.8	7545.9	7366.3	7332.6
22.5°	6240.6	6274.1	6463.8	6860.6	7405.7	7911.3	8170.0	8089.0	7769.1	7520.3	7474.8
25°	5908.8	5944.3	6165.5	6635.5	7309.0	8014.0	8474.1	8422.7	8021.9	7711.8	7648.7
27.5°	5622.4	5659.9	5900.9	6412.4	7158.9	8053.5	8774.3	8799.9	8328.0	7923.1	7856.0
30°	5397.3	5432.8	5689.6	6232.6	6965.3	8014.0	9037.0	9214.8	8640.0	8106.8	8010.1
32.5°	5150.4	5195.8	5466.4	6013.5	6736.3	7919.2	9266.0	9663.0	9001.4	8304.2	8181.9
35°	4838.4	4879.9	5164.3	5713.2	6436.1	7767.1	9457.6	10160.6	9518.9	8604.5	8468.2
37.5°	4459.3	4498.7	4781.1	5338.1	6137.9	7553.8	9603.7	10721.5	10135.0	9037.0	8855.3
40°	4078.1	4115.6	4380.2	4919.4	5780.4	7281.3	9655.1	11270.5	10841.9	9631.4	9437.9
42.5°	3728.5	3762.2	4005.0	4506.6	5379.5	6933.7	9588.0	11748.4	11475.9	10046.1	9797.3
45°	3406.6	3436.2	3651.6	4119.6	4962.8	6511.1	9386.5	12261.9	12230.3	10342.4	10006.7
47.5°	3039.3	3069.0	3292.1	3744.3	4546.1	6015.4	9044.9	12767.5	13279.0	11013.8	10626.7
50°	2591.0	2616.7	2845.8	3311.9	4113.6	5488.2	8570.9	13164.4	14602.2	12030.8	11545.1
52.5°	2059.7	2087.4	2310.6	2776.6	3600.2	4921.3	7946.8	13423.1	16130.6	13516.0	12917.6
55°	1532.5	1552.3	1745.8	2164.5	2964.3	4275.6	7164.7	13496.2	17864.6	15546.1	14797.6
57.5°	1111.8	1123.7	1248.1	1560.2	2247.4	3467.9	6214.9	13306.7	19928.4	18149.0	17207.0
60°	900.6	904.5	942.0	1080.2	1562.1	2555.4	5067.5	12655.0	22167.8	21504.3	20317.3
62.5°	817.6	817.6	827.5	865.0	1056.6	1686.5	3679.1	11304.1	24569.2	25744.3	24154.5
65°	760.3	760.3	764.2	782.1	833.4	1074.3	2322.4	9104.2	26593.5	30711.0	28700.6
67.5°	709.0	710.9	709.0	714.9	744.6	793.9	1346.8	6288.0	27683.6	35857.6	33687.1
70°	655.7	659.6	649.7	649.7	673.4	675.4	843.3	3448.1	26779.2	40170.7	39600.0
72.5°	592.4	598.4	582.6	578.6	596.4	588.6	634.0	1655.0	22991.4	41458.3	42959.2
75°	537.2	545.1	509.5	499.7	499.7	493.7	515.5	849.2	14922.1	33819.5	36173.6
77.5°	487.8	503.6	446.3	414.7	406.8	389.1	420.7	519.4	6526.9	15877.9	15548.1
80°	402.8	424.6	367.4	329.8	316.0	296.2	331.8	363.4	1941.2	3687.0	3531.0
82.5°	300.2	310.1	260.7	235.0	223.1	209.3	248.9	252.8	631.9	1305.3	1475.2
85°	191.6	195.5	160.0	138.3	132.3	126.4	158.0	138.3	241.0	959.8	1394.2
87.5°	67.1	77.0	61.2	55.2	59.2	49.4	73.1	41.5	67.1	677.4	839.3
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)