

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: P969464

Luminaire Tested: **NAV-SB5D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969464
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-SB5D-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 46835.3 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

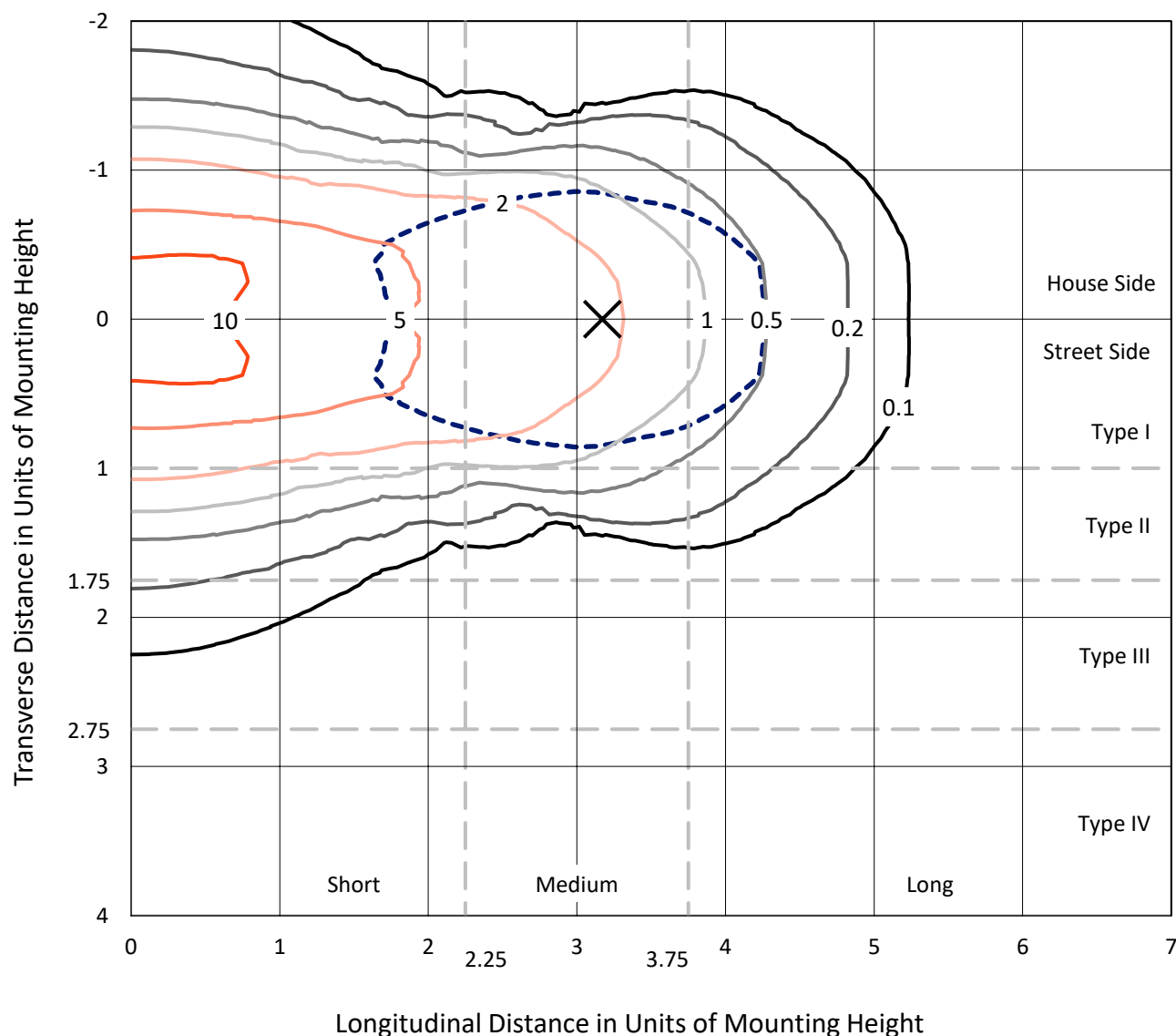
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

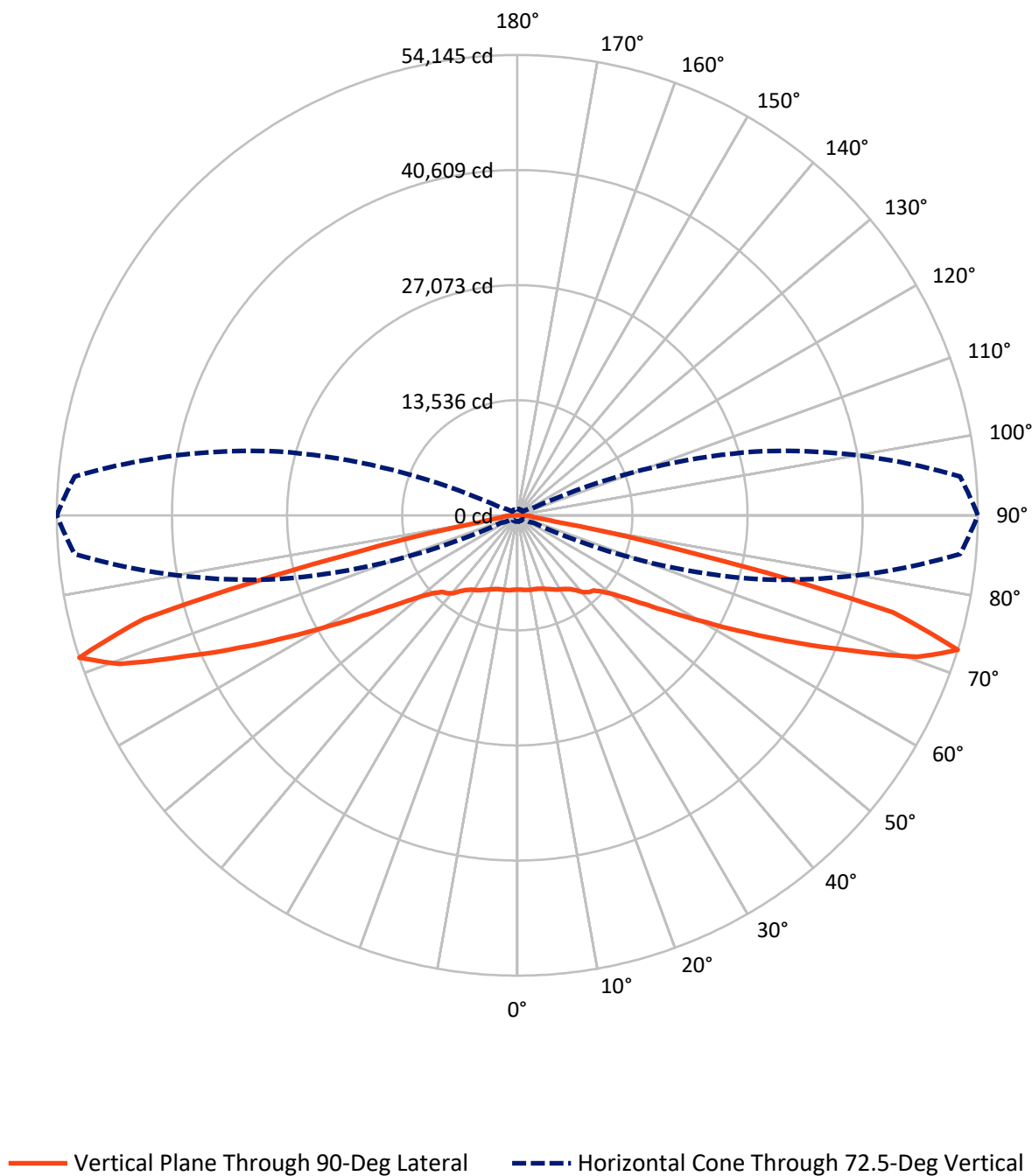
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	23417.7	0.0	23417.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23417.7	0.0	23417.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	46835.3	0.0	46835.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.6	1.8
10°-20°	2594.6	5.5
20°-30°	4326.3	9.2
30°-40°	5950.0	12.7
40°-50°	7266.6	15.5
50°-60°	8404.6	17.9
60°-70°	10021.1	21.4
70°-80°	6994.0	14.9
80°-90°	429.6	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°	46835.3	100.0
0°-180°	46835.3	100.0

Coefficient of Utilization



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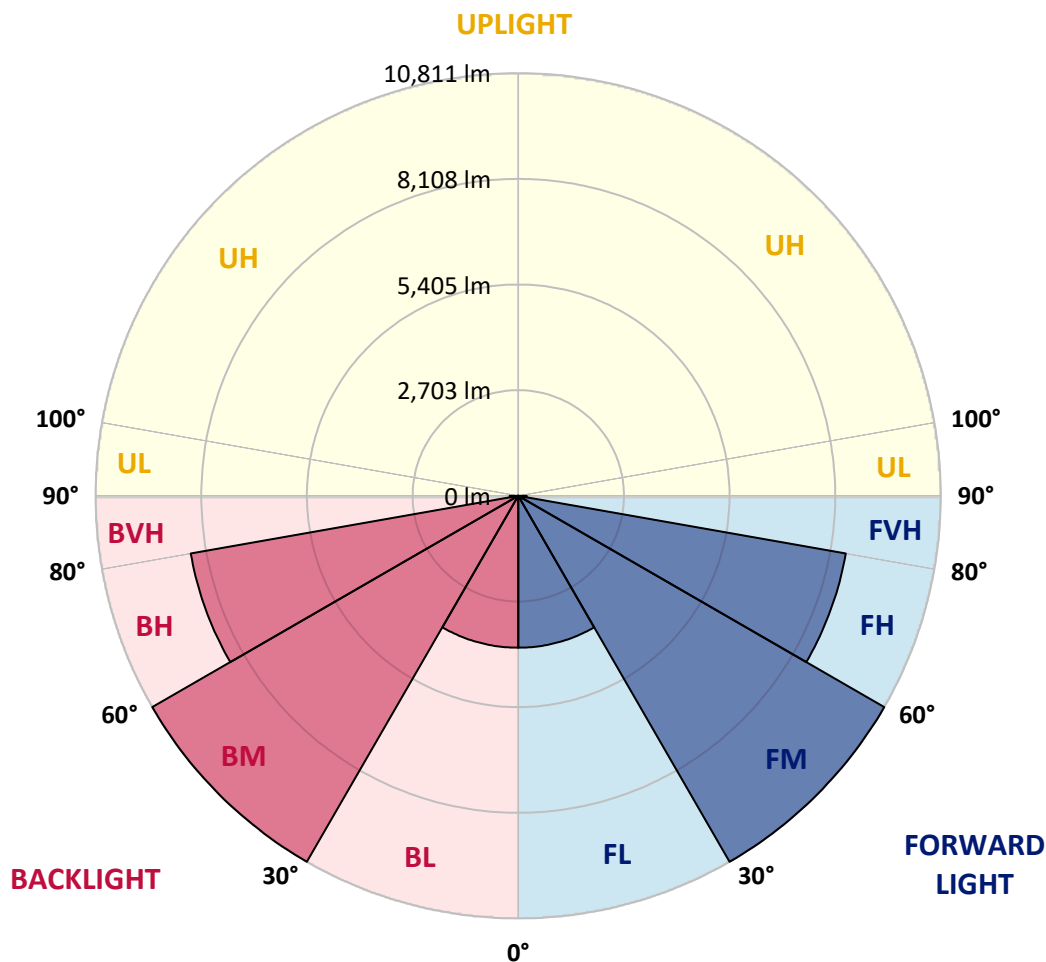
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3884.7	8.3			
FM	(30°-60°)	10810.6	23.1			
FH	(60°-80°)	8507.6	18.2			G4/12000
FVH	(80°-90°)	214.8	0.5			G2/225
BL	(0°-30°)	3884.7	8.3	B4/5000		
BM	(30°-60°)	10810.6	23.1	B5		
BH	(60°-80°)	8507.6	18.2	B5		G5
BVH	(80°-90°)	214.8	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°	8751.7	8751.7	8751.7	8751.7	8751.7	8751.7	8751.7	8751.7	8751.7	8751.7	8751.7
2.5°	8759.1	8769.1	8769.1	8761.6	8779.0	8764.2	8764.2	8756.7	8764.2	8756.7	8756.7
5°	8803.9	8816.4	8821.4	8818.9	8841.2	8828.8	8828.8	8818.9	8821.4	8813.9	8813.9
7.5°	8888.6	8906.0	8916.0	8928.4	8960.8	8945.8	8935.8	8906.0	8893.5	8873.6	8873.6
10°	8916.0	8935.8	8968.2	9032.9	9107.6	9110.1	9080.3	9005.5	8948.4	8903.6	8896.1
12.5°	8831.3	8858.7	8925.9	9057.8	9224.6	9291.8	9244.5	9120.0	9008.0	8928.4	8916.0
15°	8724.3	8754.1	8856.2	9055.4	9301.8	9458.6	9453.6	9289.4	9110.1	8985.7	8965.8
17.5°	8557.5	8587.3	8734.2	9013.0	9361.5	9620.3	9690.0	9520.8	9269.4	9102.6	9075.2
20°	8256.4	8283.7	8487.8	8878.7	9381.4	9792.1	9973.9	9824.5	9510.9	9284.3	9242.0
22.5°	7865.5	7907.9	8146.8	8647.1	9334.2	9971.3	10297.4	10195.4	9792.1	9478.5	9421.3
25°	7447.3	7492.2	7770.9	8363.4	9212.2	10100.8	10680.7	10616.0	10110.7	9720.0	9640.3
27.5°	7086.4	7133.8	7437.4	8082.1	9023.0	10150.6	11059.0	11091.4	10496.5	9986.3	9901.6
30°	6802.7	6847.5	7171.1	7855.6	8779.0	10100.8	11390.1	11614.2	10889.8	10217.7	10095.8
32.5°	6491.5	6548.8	6889.8	7579.3	8490.3	9981.2	11678.8	12179.2	11345.3	10466.7	10312.3
35°	6098.3	6150.6	6509.0	7200.9	8112.0	9789.7	11920.3	12806.5	11997.4	10845.0	10673.2
37.5°	5620.4	5670.2	6026.1	6728.0	7736.1	9520.8	12104.5	13513.3	12774.1	11390.1	11161.1
40°	5140.0	5187.3	5520.9	6200.3	7285.6	9177.3	12169.2	14205.3	13665.2	12139.4	11895.4
42.5°	4699.4	4741.8	5047.9	5680.1	6780.3	8739.3	12084.5	14807.7	14464.2	12662.0	12348.4
45°	4293.7	4331.0	4602.4	5192.2	6255.1	8206.6	11830.7	15454.8	15415.0	13035.4	12612.3
47.5°	3830.7	3868.0	4149.3	4719.3	5730.0	7581.8	11400.0	16092.0	16736.7	13881.7	13393.9
50°	3265.6	3298.0	3586.8	4174.2	5184.8	6917.2	10802.7	16592.3	18404.4	15163.6	14551.3
52.5°	2596.1	2631.0	2912.2	3499.7	4537.7	6202.8	10016.1	16918.4	20331.0	17035.4	16281.2
55°	1931.5	1956.4	2200.4	2728.0	3736.1	5388.9	9030.5	17010.5	22516.4	19594.2	18650.8
57.5°	1401.4	1416.3	1573.1	1966.4	2832.6	4370.9	7833.2	16771.6	25117.5	22874.8	21687.6
60°	1135.0	1140.0	1187.3	1361.5	1968.9	3220.9	6387.0	15950.1	27940.2	27103.8	25607.9
62.5°	1030.5	1030.5	1042.9	1090.2	1331.7	2125.6	4637.2	14247.6	30966.9	32447.9	30444.1
65°	958.3	958.3	963.3	985.6	1050.4	1354.0	2927.2	11474.8	33518.2	38708.0	36174.1
67.5°	893.6	896.1	893.6	901.1	938.4	1000.6	1697.6	7925.3	34892.2	45194.6	42459.1
70°	826.4	831.4	818.9	818.9	848.8	851.3	1062.8	4346.0	33752.2	50630.8	49911.5
72.5°	746.7	754.2	734.3	729.3	751.7	741.8	799.0	2085.9	28978.1	52253.7	54145.4
75°	677.0	687.0	642.2	629.8	629.8	622.3	649.6	1070.3	18807.6	42625.9	45592.8
77.5°	614.8	634.7	562.5	522.8	512.7	490.4	530.1	654.7	8226.4	20012.4	19596.7
80°	507.8	535.2	463.0	415.6	398.2	373.4	418.2	458.0	2446.8	4647.1	4450.5
82.5°	378.3	390.8	328.5	296.2	281.3	263.8	313.6	318.6	796.5	1645.3	1859.4
85°	241.5	246.4	201.6	174.2	166.8	159.3	199.2	174.2	303.7	1209.7	1757.3
87.5°	84.7	97.1	77.2	69.7	74.7	62.2	92.1	52.3	84.7	853.7	1057.9
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)