

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: P969433

Luminaire Tested: **NAV-SB5D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969433
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-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45324.5 lumens
Efficiency: N/A
Efficacy: 124.2 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



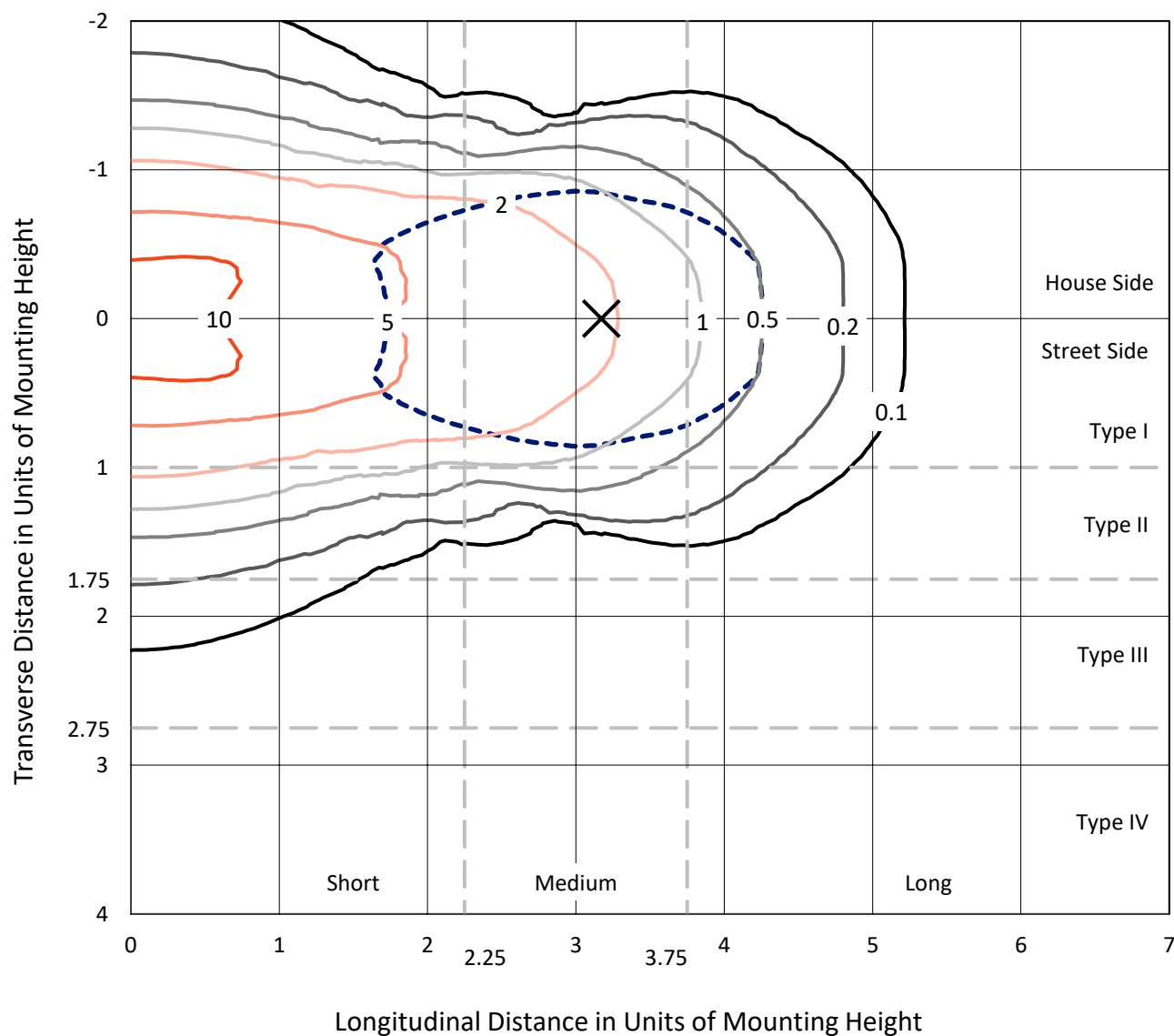
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

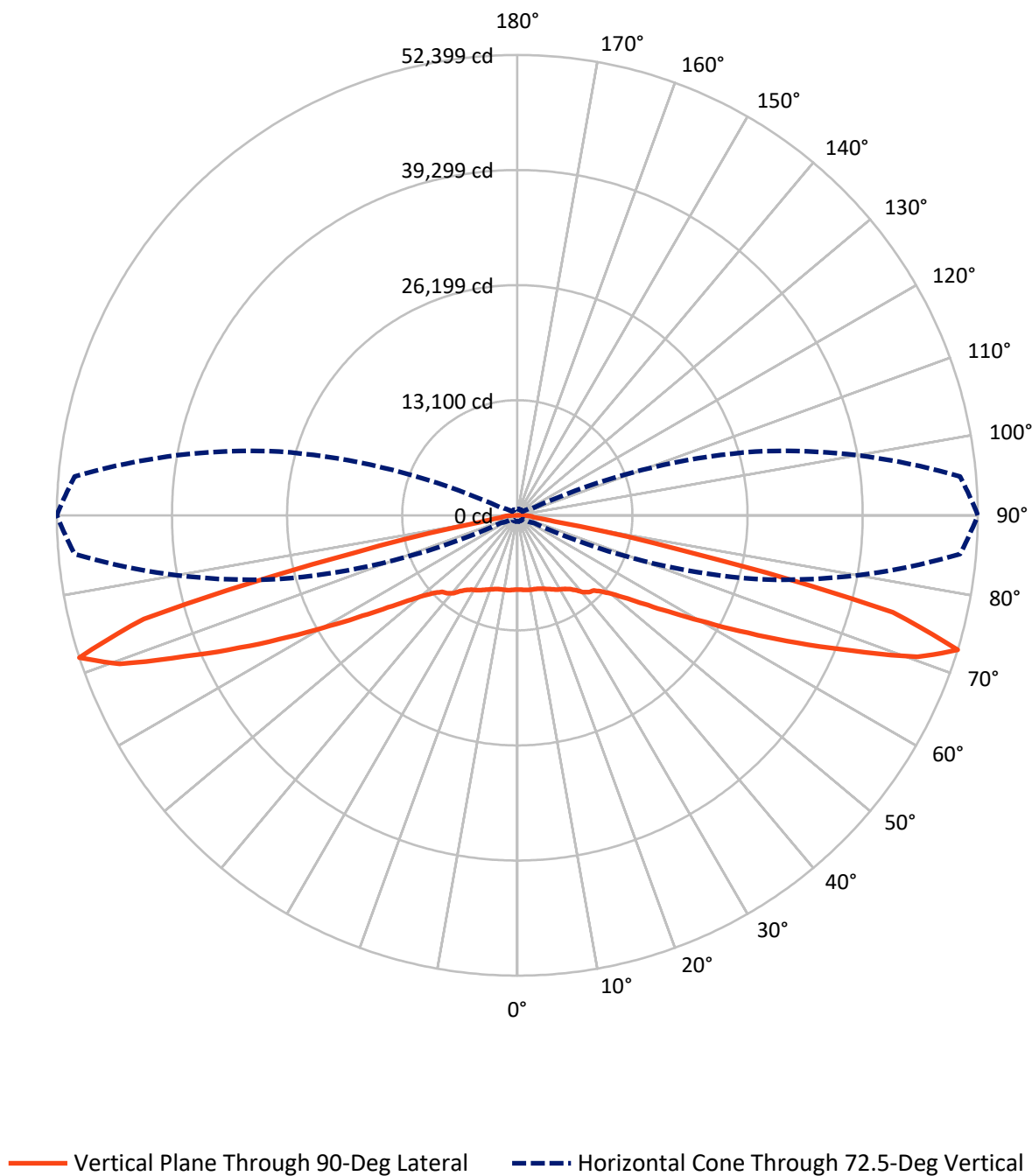


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc

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	22662.2	0.0	22662.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22662.2	0.0	22662.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	45324.5	0.0	45324.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.2	1.8
10°-20°	2510.9	5.5
20°-30°	4186.7	9.2
30°-40°	5758.1	12.7
40°-50°	7032.2	15.5
50°-60°	8133.4	17.9
60°-70°	9697.8	21.4
70°-80°	6768.4	14.9
80°-90°	415.7	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°	45324.5	100.0
0°-180°	45324.5	100.0

Coefficient of Utilization



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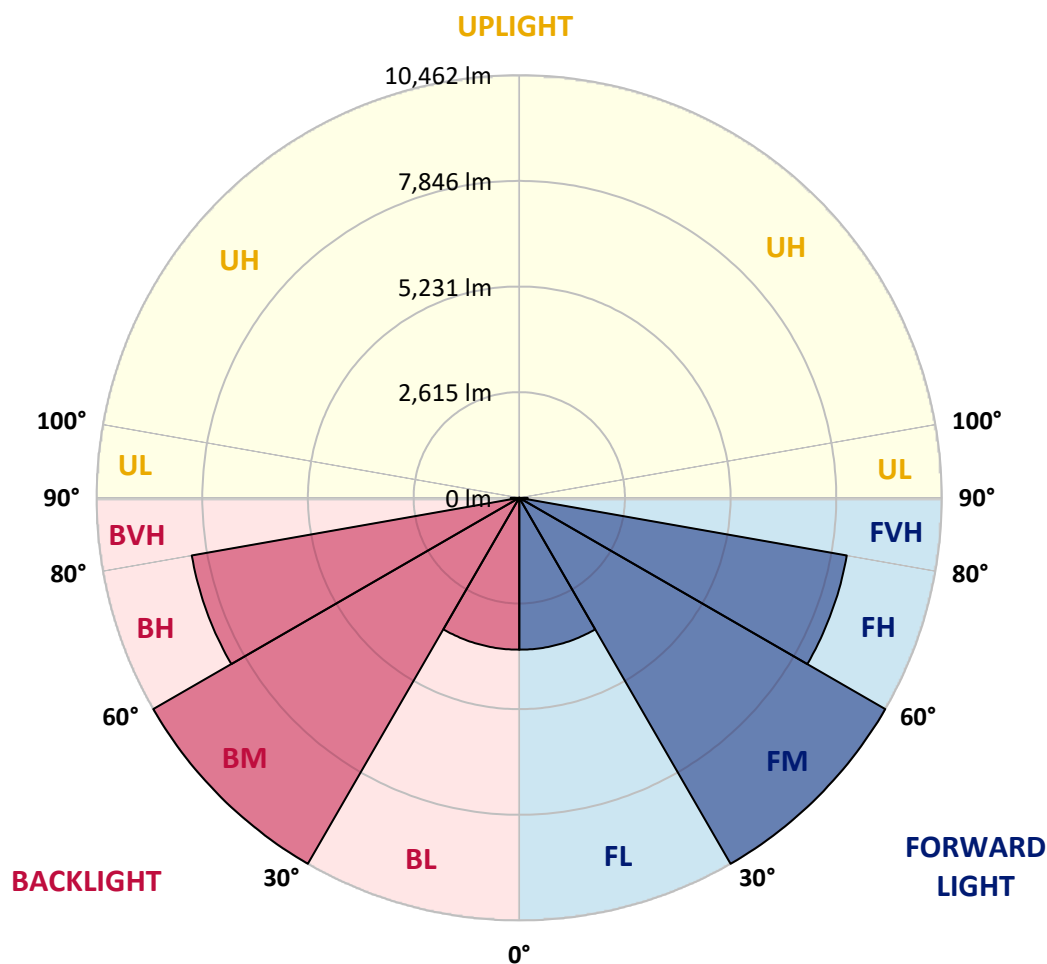
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3759.4	8.3			
FM	(30°-60°)	10461.8	23.1			
FH	(60°-80°)	8233.1	18.2			G4/12000
FVH	(80°-90°)	207.9	0.5			G2/225
BL	(0°-30°)	3759.4	8.3	B4/5000		
BM	(30°-60°)	10461.8	23.1	B5		
BH	(60°-80°)	8233.1	18.2	B5		G5
BVH	(80°-90°)	207.9	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°	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4
2.5°	8476.5	8486.2	8486.2	8479.0	8495.8	8481.4	8481.4	8474.2	8481.4	8474.2	8474.2
5°	8519.9	8532.0	8536.8	8534.4	8556.1	8544.0	8544.0	8534.4	8536.8	8529.5	8529.5
7.5°	8601.8	8618.7	8628.3	8640.3	8671.7	8657.3	8647.6	8618.7	8606.6	8587.3	8587.3
10°	8628.3	8647.6	8678.9	8741.5	8813.8	8816.2	8787.3	8715.1	8659.6	8616.3	8609.1
12.5°	8546.4	8572.9	8638.0	8765.6	8927.0	8992.0	8946.3	8825.9	8717.4	8640.3	8628.3
15°	8442.8	8471.7	8570.5	8763.2	9001.7	9153.5	9148.6	8989.7	8816.2	8695.8	8676.5
17.5°	8281.5	8310.4	8452.5	8722.2	9059.5	9310.1	9377.5	9213.7	8970.4	8809.0	8782.5
20°	7990.0	8016.5	8214.0	8592.2	9078.8	9476.2	9652.1	9507.6	9204.1	8984.8	8943.8
22.5°	7611.9	7652.8	7884.0	8368.2	9033.0	9649.7	9965.3	9866.4	9476.2	9172.7	9117.4
25°	7207.2	7250.5	7520.3	8093.6	8914.9	9774.9	10336.2	10273.6	9784.5	9406.4	9329.3
27.5°	6857.9	6903.7	7197.6	7821.4	8731.9	9823.1	10702.3	10733.6	10158.0	9664.1	9582.2
30°	6583.3	6626.6	6939.8	7602.2	8495.8	9774.9	11022.6	11239.4	10538.5	9888.2	9770.1
32.5°	6282.1	6337.6	6667.5	7334.8	8216.4	9659.3	11302.1	11786.3	10979.3	10129.0	9979.7
35°	5901.5	5952.2	6299.0	6968.7	7850.3	9473.9	11535.8	12393.3	11610.5	10495.2	10328.9
37.5°	5439.1	5487.2	5831.7	6511.0	7486.6	9213.7	11714.0	13077.4	12362.0	11022.6	10801.0
40°	4974.2	5019.9	5342.7	6000.3	7050.6	8881.2	11776.6	13747.1	13224.3	11747.7	11511.7
42.5°	4547.8	4588.8	4885.0	5496.9	6561.5	8457.3	11694.7	14330.0	13997.6	12253.6	11950.1
45°	4155.1	4191.3	4453.8	5024.8	6053.3	7941.8	11449.0	14956.3	14917.7	12614.9	12205.4
47.5°	3707.1	3743.3	4015.4	4567.1	5545.0	7337.3	11032.3	15572.9	16196.8	13433.9	12961.7
50°	3160.4	3191.6	3471.1	4039.5	5017.6	6694.1	10454.2	16057.1	17810.7	14674.4	14081.9
52.5°	2512.4	2546.1	2818.3	3386.8	4391.2	6002.7	9693.0	16372.6	19675.1	16485.9	15756.0
55°	1869.2	1893.3	2129.3	2640.1	3615.6	5215.1	8739.2	16461.8	21790.1	18962.1	18049.1
57.5°	1356.2	1370.6	1522.3	1902.9	2741.3	4229.9	7580.5	16230.6	24307.3	22136.9	20987.9
60°	1098.4	1103.2	1149.0	1317.6	1905.4	3117.0	6181.0	15435.6	27038.8	26229.4	24781.7
62.5°	997.2	997.2	1009.3	1055.0	1288.7	2057.1	4487.6	13788.0	29967.9	31401.2	29462.1
65°	927.4	927.4	932.2	953.9	1016.5	1310.4	2832.8	11104.5	32436.9	37459.3	35007.1
67.5°	864.8	867.2	864.8	872.0	908.2	968.3	1642.8	7669.7	33766.6	43736.6	41089.4
70°	799.7	804.5	792.5	792.5	821.4	823.8	1028.6	4205.8	32663.4	48997.5	48301.4
72.5°	722.6	729.9	710.6	705.8	727.4	717.8	773.3	2018.5	28043.3	50568.1	52398.7
75°	655.2	664.8	621.5	609.5	609.5	602.2	628.7	1035.8	18200.9	41250.8	44122.0
77.5°	595.0	614.3	544.4	505.8	496.2	474.6	513.1	633.6	7961.1	19366.8	18964.6
80°	491.4	517.9	448.0	402.3	385.4	361.3	404.7	443.2	2367.9	4497.2	4306.9
82.5°	366.1	378.2	318.0	286.7	272.2	255.3	303.5	308.3	770.8	1592.2	1799.4
85°	233.7	238.5	195.2	168.6	161.4	154.2	192.7	168.6	293.9	1170.7	1700.6
87.5°	81.9	94.0	74.7	67.4	72.3	60.3	89.2	50.6	81.9	826.3	1023.8
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)