

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: P967154

Luminaire Tested: **NAV-SB4D-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-730-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43778.8 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

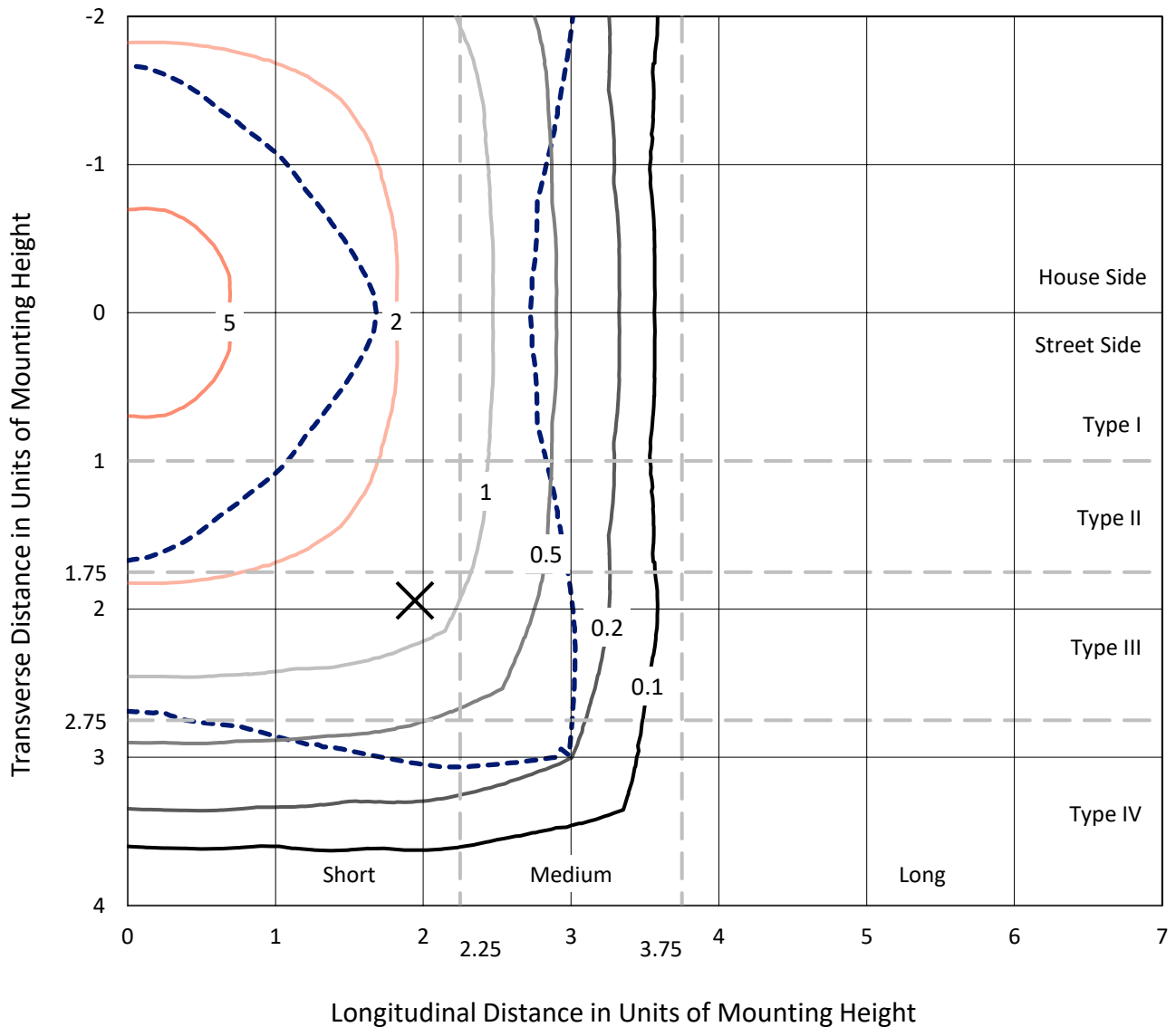
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

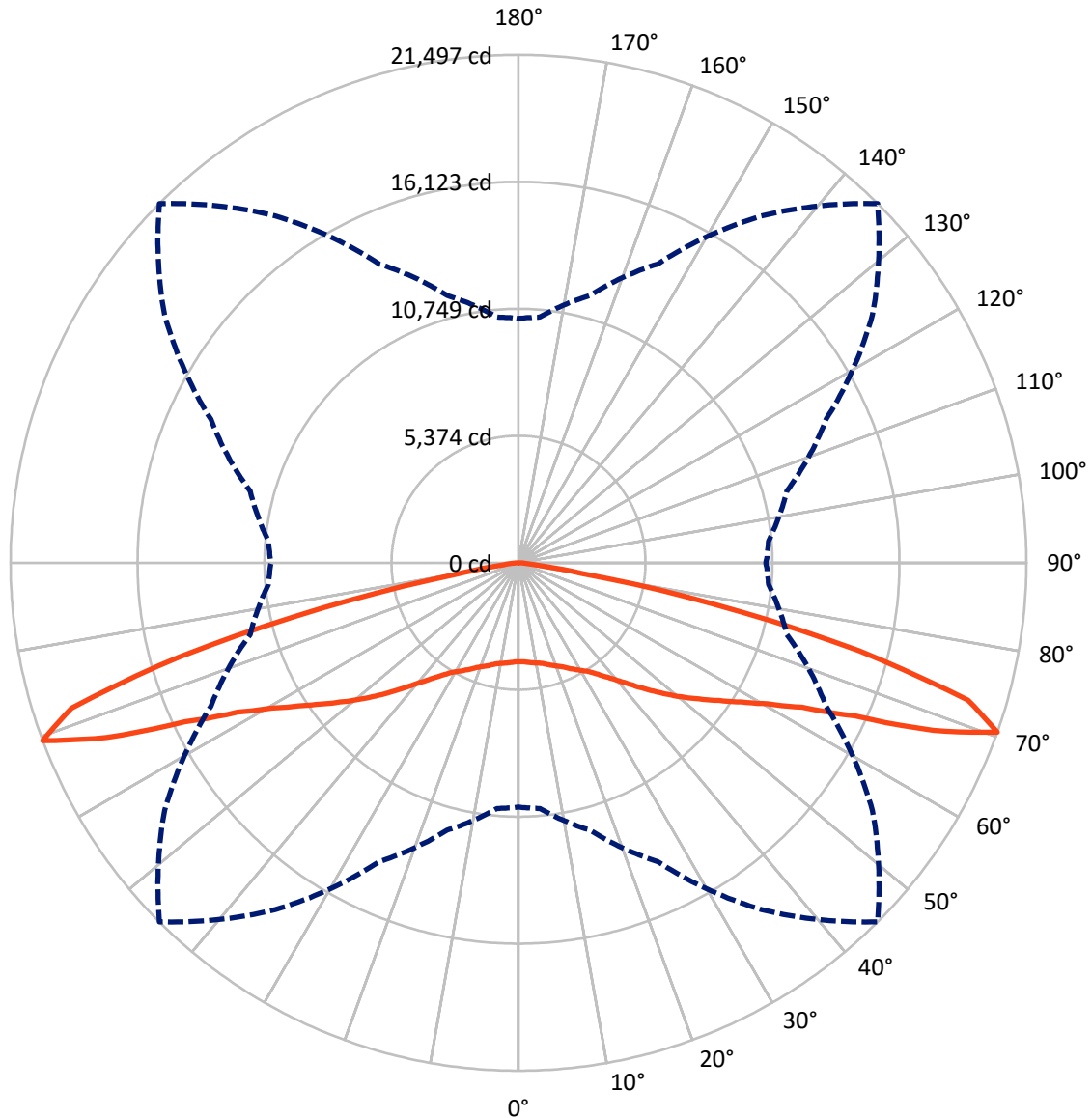
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21889.4	0.0	21889.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21889.4	0.0	21889.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	43778.8	0.0	43778.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	0.9
10°-20°	1263.3	2.9
20°-30°	2257.7	5.2
30°-40°	3659.7	8.4
40°-50°	5961.0	13.6
50°-60°	9088.5	20.8
60°-70°	13520.9	30.9
70°-80°	7369.3	16.8
80°-90°	251.0	0.6
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°	43778.8	100.0
0°-180°	43778.8	100.0

Coefficient of Utilization

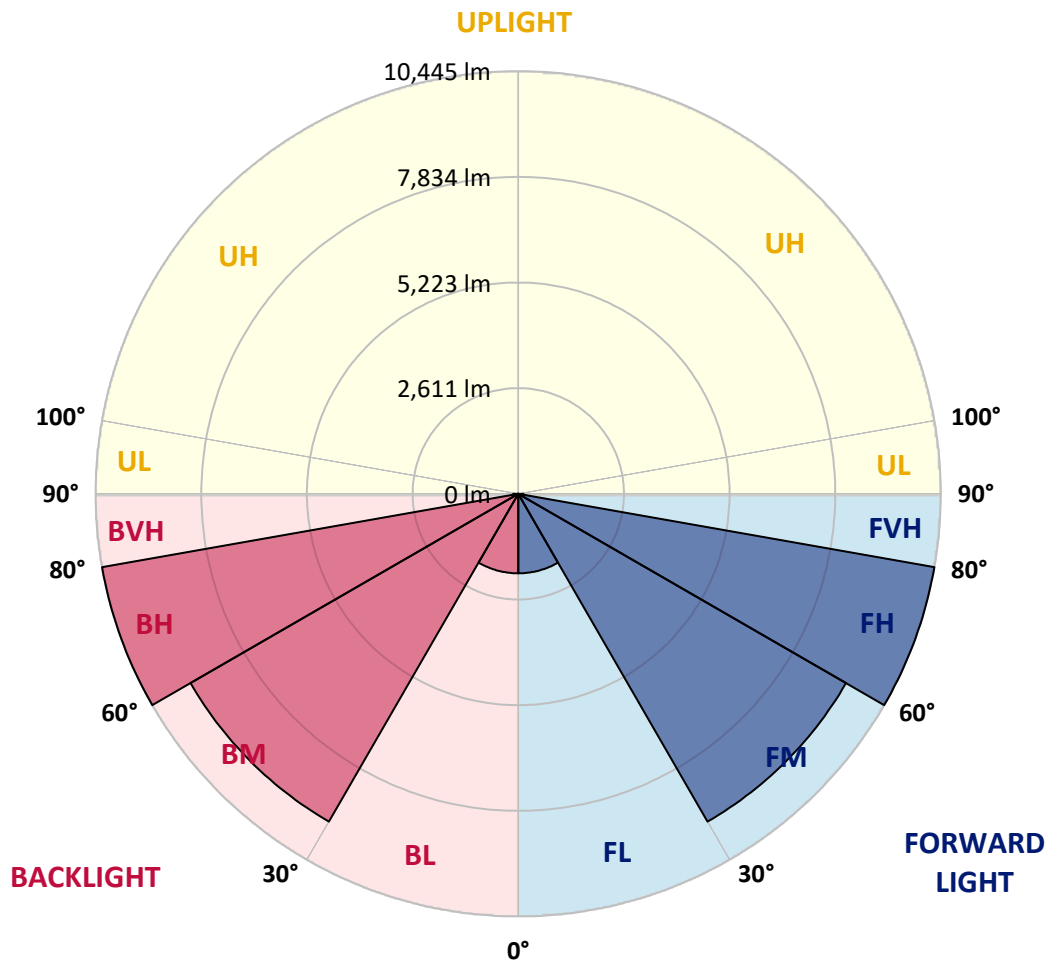


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.2	4.5			
FM (30°-60°)	9354.6	21.4			
FH (60°-80°)	10445.1	23.9			G4/12000
FVH (80°-90°)	125.5	0.3			G2/225
BL (0°-30°)	1964.2	4.5	B3/2500		
BM (30°-60°)	9354.6	21.4	B5		
BH (60°-80°)	10445.1	23.9	B5		G4/12000
BVH (80°-90°)	125.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4193.6	4193.6	4193.6	4193.6	4193.6	4193.6	4193.6	4193.6	4193.6	4193.6	4193.6
2.5°	4213.4	4217.8	4209.0	4204.5	4200.1	4193.6	4195.7	4206.7	4215.5	4213.4	4215.5
5°	4248.5	4252.9	4246.3	4244.1	4235.3	4233.1	4233.1	4244.1	4250.7	4246.3	4248.5
7.5°	4288.1	4294.6	4283.7	4281.4	4277.1	4272.7	4270.5	4281.4	4288.1	4288.1	4288.1
10°	4325.4	4332.1	4323.2	4316.7	4312.3	4312.3	4307.9	4316.7	4327.7	4325.4	4325.4
12.5°	4365.0	4369.4	4360.6	4356.1	4356.1	4362.8	4356.1	4360.6	4369.4	4365.0	4362.8
15°	4413.3	4415.5	4413.3	4419.9	4431.0	4452.9	4433.1	4428.7	4433.1	4422.2	4422.2
17.5°	4479.2	4483.7	4492.5	4507.8	4523.2	4562.8	4527.6	4516.7	4516.7	4494.6	4494.6
20°	4560.6	4567.2	4580.4	4606.8	4626.5	4663.9	4628.7	4613.3	4606.8	4578.2	4578.2
22.5°	4646.3	4657.3	4677.1	4712.2	4747.4	4782.5	4747.4	4721.0	4701.3	4663.9	4661.7
25°	4745.2	4758.4	4789.2	4846.3	4894.7	4945.2	4903.5	4850.7	4811.1	4758.4	4756.2
27.5°	4885.9	4901.2	4938.7	5009.0	5070.5	5114.4	5074.9	5006.8	4951.8	4888.1	4885.9
30°	5083.7	5099.1	5143.0	5217.8	5259.5	5288.1	5261.7	5208.9	5143.0	5070.5	5070.5
32.5°	5338.6	5358.4	5406.8	5477.1	5485.9	5490.3	5481.5	5455.2	5406.8	5318.8	5321.1
35°	5661.7	5683.7	5738.7	5795.8	5787.0	5795.8	5782.6	5773.8	5738.7	5637.6	5637.6
37.5°	6057.3	6083.7	6140.9	6184.8	6162.8	6151.8	6154.1	6156.3	6136.5	6024.4	6024.4
40°	6516.7	6551.9	6593.6	6639.7	6602.4	6569.4	6591.5	6609.0	6591.5	6477.2	6477.2
42.5°	6989.3	7039.8	7083.8	7149.7	7118.9	7077.2	7108.0	7127.7	7090.3	6967.2	6976.0
45°	7514.6	7562.9	7620.1	7719.0	7696.9	7653.1	7696.9	7701.3	7637.6	7492.5	7507.9
47.5°	8057.4	8108.0	8193.6	8325.6	8316.7	8268.5	8325.6	8294.8	8213.4	8039.8	8028.8
50°	8571.8	8642.1	8773.9	8958.6	8976.1	8916.8	8993.8	8934.4	8798.1	8580.5	8576.2
52.5°	9055.3	9130.0	9338.8	9589.4	9653.0	9576.2	9679.5	9576.2	9371.8	9092.7	9066.2
55°	9562.9	9646.5	9894.8	10222.3	10349.8	10292.6	10389.4	10233.3	9943.2	9604.8	9558.5
57.5°	10160.8	10211.4	10508.1	10897.1	11112.4	11125.7	11169.6	10905.9	10554.2	10169.5	10116.9
60°	10809.1	10879.5	11202.6	11668.5	12009.2	12119.1	12073.0	11681.7	11272.9	10831.2	10760.9
62.5°	11640.0	11716.9	12103.7	12662.0	13200.5	13473.0	13292.8	12725.7	12220.3	11690.5	11598.2
65°	12327.9	12413.7	13112.5	14108.2	15088.4	15635.8	15182.9	14139.0	13229.1	12481.7	12358.6
67.5°	11829.0	11934.5	13031.2	14859.8	17297.3	18930.3	17380.8	15084.0	13301.5	12288.3	12136.7
70°	10338.9	10437.7	11716.9	13952.1	17919.4	21497.4	18293.0	14363.1	11758.7	10624.5	10472.9
72.5°	6864.0	7182.7	8477.3	11158.7	16000.6	19893.0	16158.8	10932.2	7864.0	6848.6	6626.6
75°	2277.0	2532.0	3415.5	5784.8	10716.9	14877.5	10202.5	5118.8	2705.6	1947.3	1841.8
77.5°	573.7	661.5	912.1	1655.0	4274.9	8470.6	3848.5	1351.7	736.3	514.3	459.4
80°	279.1	307.7	439.6	551.7	1070.4	2692.4	1004.4	518.6	347.3	268.1	246.2
82.5°	153.9	156.0	248.4	312.1	397.8	696.7	413.2	303.3	200.0	162.7	162.7
85°	94.5	92.4	131.9	167.1	167.1	248.4	197.8	167.1	114.3	101.1	105.5
87.5°	37.4	37.4	48.4	52.8	46.1	63.8	50.5	54.9	44.0	41.7	44.0
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)