

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: P968828

Luminaire Tested: **NAV-SB5C-750-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968828
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-SB5C-750-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42962.9 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

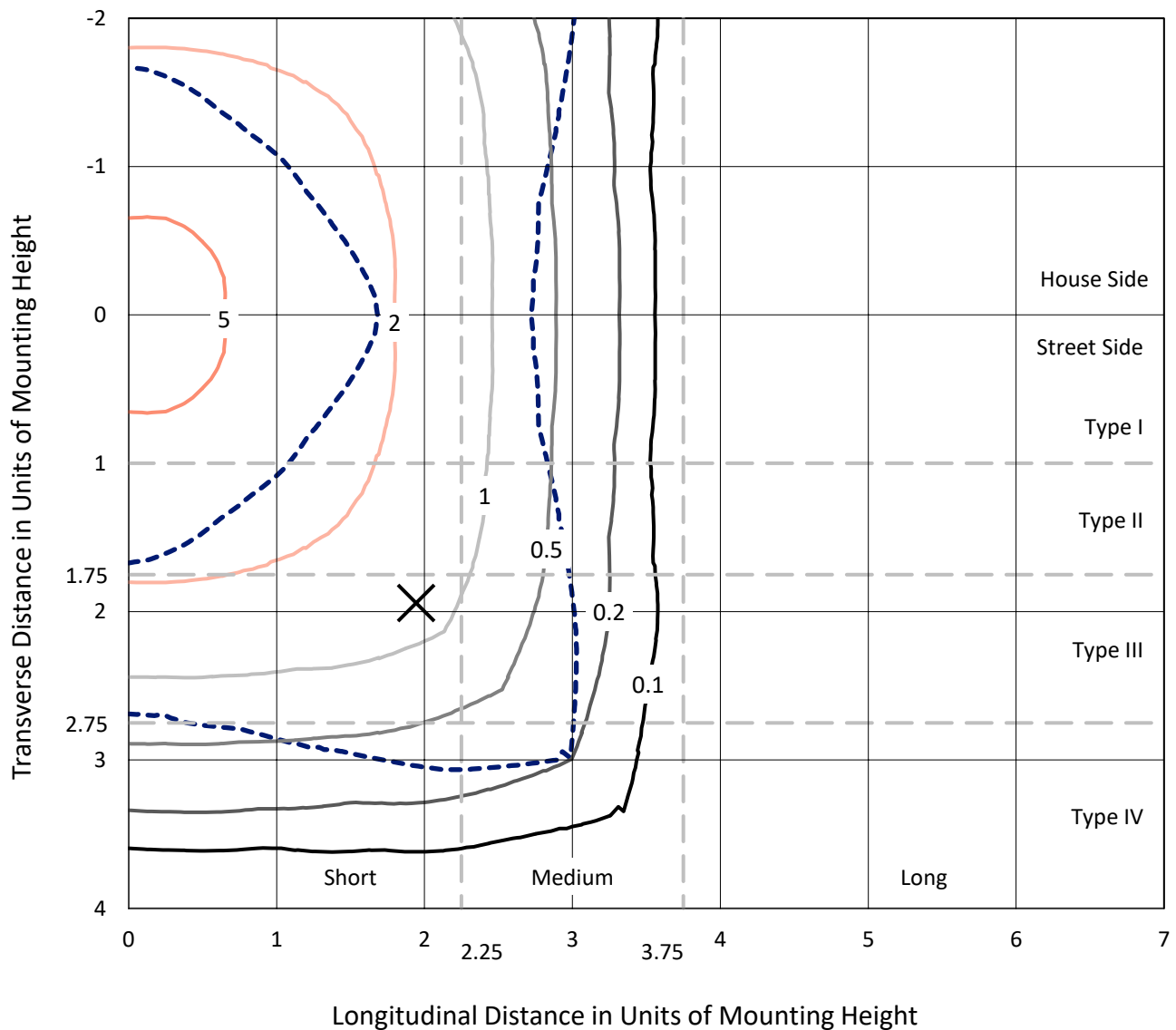
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

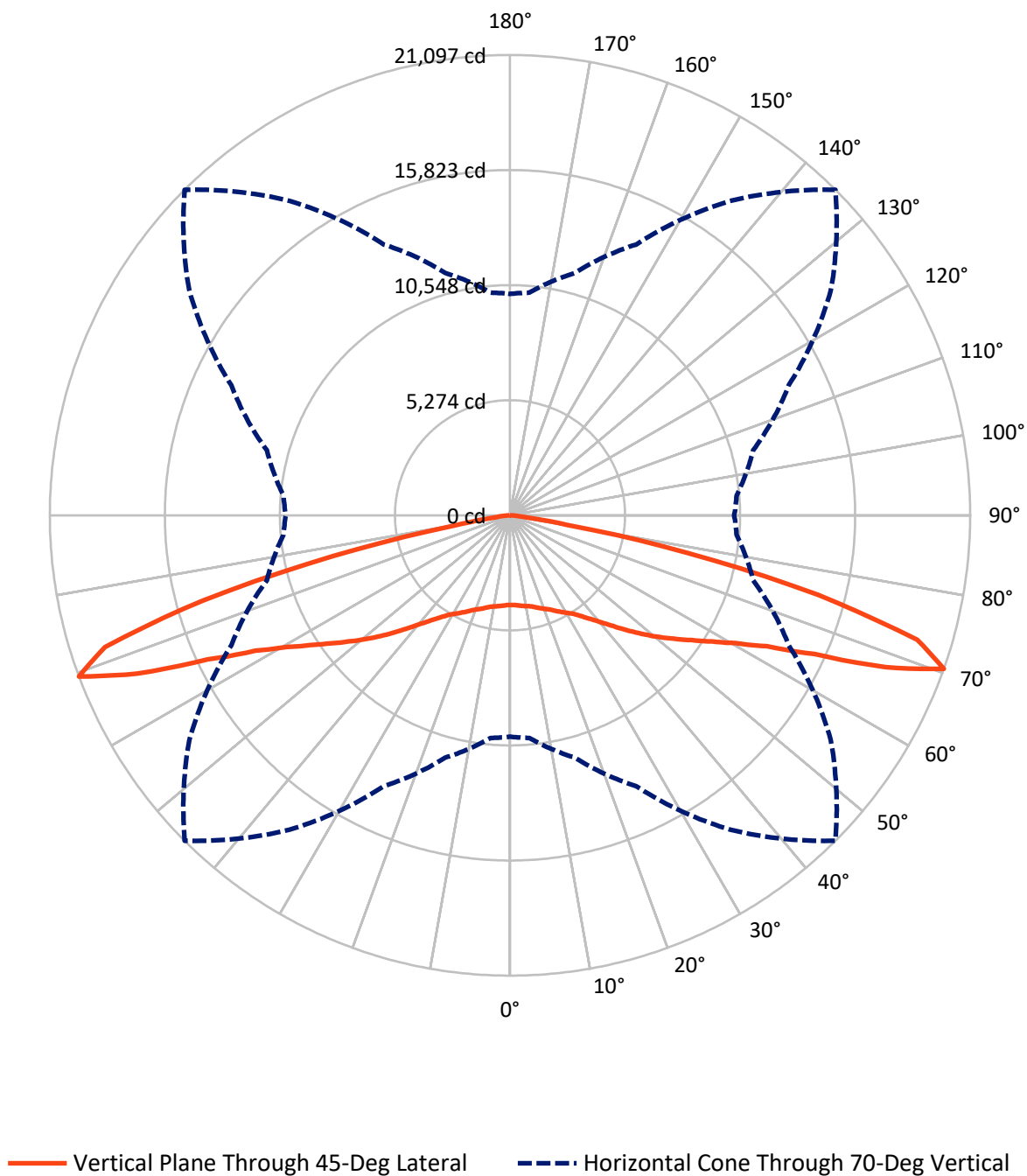
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21481.4	0.0	21481.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21481.4	0.0	21481.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	42962.9	0.0	42962.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	0.9
10°-20°	1239.8	2.9
20°-30°	2215.6	5.2
30°-40°	3591.5	8.4
40°-50°	5849.9	13.6
50°-60°	8919.2	20.8
60°-70°	13268.9	30.9
70°-80°	7232.0	16.8
80°-90°	246.3	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°	42962.9	100.0
0°-180°	42962.9	100.0

Coefficient of Utilization



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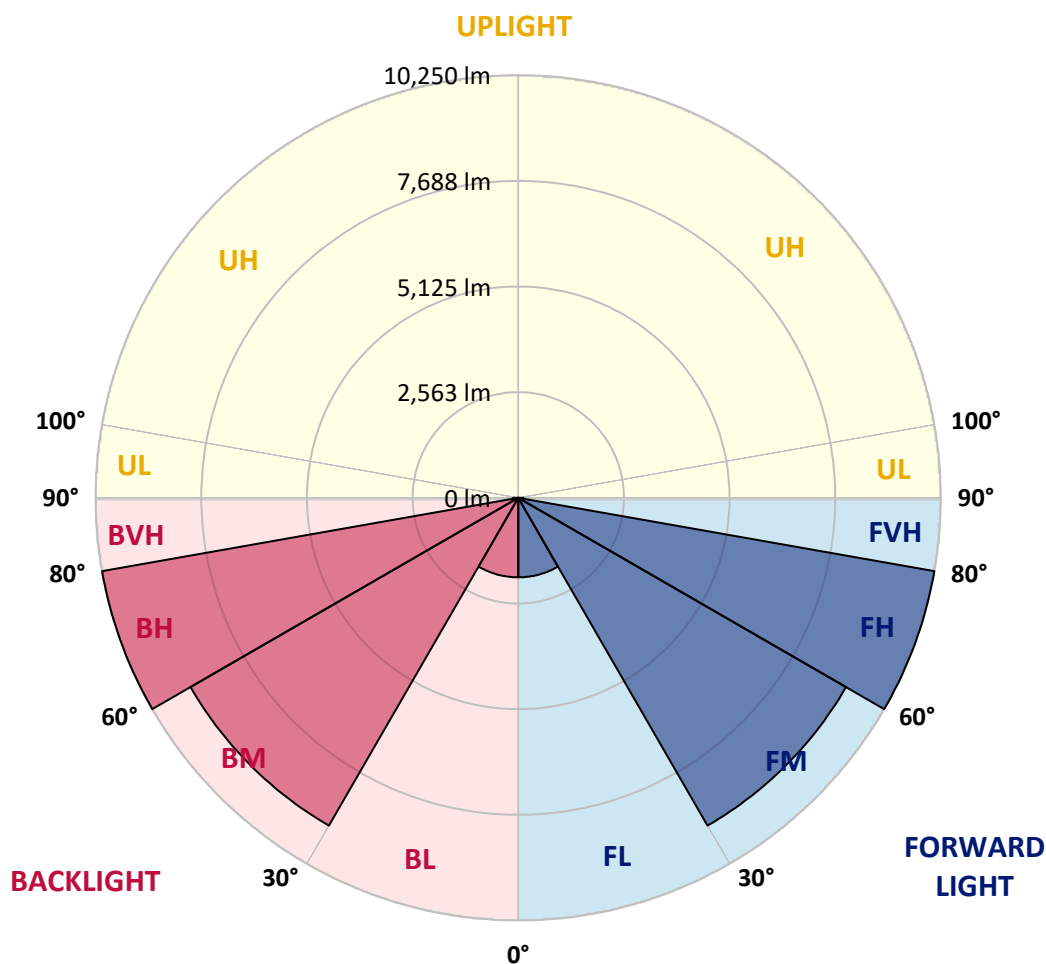
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1927.6	4.5			
FM	(30°-60°)	9180.3	21.4			
FH	(60°-80°)	10250.4	23.9			G4/12000
FVH	(80°-90°)	123.1	0.3			G2/225
BL	(0°-30°)	1927.6	4.5	B3/2500		
BM	(30°-60°)	9180.3	21.4	B5		
BH	(60°-80°)	10250.4	23.9	B5		G4/12000
BVH	(80°-90°)	123.1	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°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4134.8	4139.2	4130.5	4126.1	4121.8	4115.4	4117.5	4128.3	4137.0	4134.8	4137.0
5°	4169.3	4173.6	4167.1	4165.0	4156.4	4154.2	4154.2	4165.0	4171.4	4167.1	4169.3
7.5°	4208.1	4214.6	4203.8	4201.7	4197.4	4193.1	4190.9	4201.7	4208.1	4208.1	4208.1
10°	4244.8	4251.3	4242.7	4236.2	4231.9	4231.9	4227.5	4236.2	4247.0	4244.8	4244.8
12.5°	4283.7	4288.0	4279.4	4275.0	4275.0	4281.5	4275.0	4279.4	4288.0	4283.7	4281.5
15°	4331.1	4333.3	4331.1	4337.6	4348.4	4369.9	4350.5	4346.2	4350.5	4339.7	4339.7
17.5°	4395.8	4400.1	4408.7	4423.8	4439.0	4477.7	4443.3	4432.5	4432.5	4410.9	4410.9
20°	4475.6	4482.1	4495.0	4520.9	4540.3	4576.9	4542.5	4527.3	4520.9	4492.9	4492.9
22.5°	4559.7	4570.5	4590.0	4624.4	4658.9	4693.5	4658.9	4633.1	4613.6	4576.9	4574.8
25°	4656.8	4669.7	4699.9	4756.0	4803.5	4853.1	4812.1	4760.3	4721.5	4669.7	4667.5
27.5°	4794.8	4809.9	4846.6	4915.6	4976.0	5019.1	4980.4	4913.4	4859.5	4797.0	4794.8
30°	4989.0	5004.0	5047.2	5120.5	5161.5	5189.6	5163.6	5111.9	5047.2	4976.0	4976.0
32.5°	5239.2	5258.6	5306.0	5375.0	5383.7	5388.0	5379.3	5353.5	5306.0	5219.7	5221.9
35°	5556.2	5577.7	5631.8	5687.8	5679.1	5687.8	5674.8	5666.2	5631.8	5532.5	5532.5
37.5°	5944.5	5970.3	6026.4	6069.5	6048.0	6037.2	6039.4	6041.6	6022.1	5912.1	5912.1
40°	6395.3	6429.7	6470.7	6516.0	6479.3	6447.0	6468.6	6485.9	6468.6	6356.4	6356.4
42.5°	6859.0	6908.6	6951.8	7016.4	6986.3	6945.3	6975.4	6994.9	6958.2	6837.5	6846.1
45°	7374.5	7421.9	7478.0	7575.1	7553.5	7510.4	7553.5	7557.8	7495.3	7352.9	7368.0
47.5°	7907.3	7956.9	8041.0	8170.4	8161.8	8114.3	8170.4	8140.2	8060.4	7890.0	7879.2
50°	8412.0	8481.0	8610.4	8791.6	8808.8	8750.6	8826.1	8767.8	8634.2	8420.6	8416.3
52.5°	8886.5	8959.8	9164.7	9410.6	9473.2	9397.7	9499.1	9397.7	9197.1	8923.1	8897.3
55°	9384.8	9466.7	9710.4	10031.8	10156.9	10100.9	10195.8	10042.6	9757.9	9425.7	9380.4
57.5°	9971.4	10021.0	10312.2	10694.0	10905.4	10918.3	10961.5	10702.6	10357.5	9980.0	9928.3
60°	10607.7	10676.7	10993.8	11451.1	11785.3	11893.3	11848.0	11464.0	11062.8	10629.2	10560.3
62.5°	11423.0	11498.6	11878.1	12426.0	12954.5	13221.9	13045.1	12488.6	11992.5	11472.6	11382.0
65°	12098.2	12182.2	12868.2	13845.3	14807.3	15344.4	14900.0	13875.4	12982.4	12249.2	12128.3
67.5°	11608.5	11712.1	12788.4	14582.9	16974.9	18577.5	17056.9	14802.9	13053.7	12059.3	11910.5
70°	10146.2	10243.2	11498.6	13692.2	17585.3	21096.9	17952.1	14095.5	11539.6	10426.5	10277.7
72.5°	6736.1	7048.8	8319.2	10950.7	15702.4	19522.3	15857.7	10728.5	7717.4	6720.9	6503.1
75°	2234.6	2484.8	3351.9	5677.0	10517.1	14600.2	10012.4	5023.4	2655.2	1911.0	1807.5
77.5°	562.9	649.2	895.1	1624.1	4195.2	8312.8	3776.7	1326.6	722.5	504.7	450.8
80°	273.9	302.0	431.4	541.4	1050.4	2642.2	985.7	509.0	340.8	263.1	241.6
82.5°	151.0	153.1	243.7	306.3	390.4	683.8	405.5	297.7	196.3	159.6	159.6
85°	92.8	90.6	129.5	163.9	163.9	243.7	194.1	163.9	112.1	99.2	103.5
87.5°	36.7	36.7	47.5	51.8	45.3	62.5	49.6	53.9	43.2	41.0	43.2
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)