

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: P969200

Luminaire Tested: **NAV-SB5D-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969200
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-SB5D-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45582.8 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

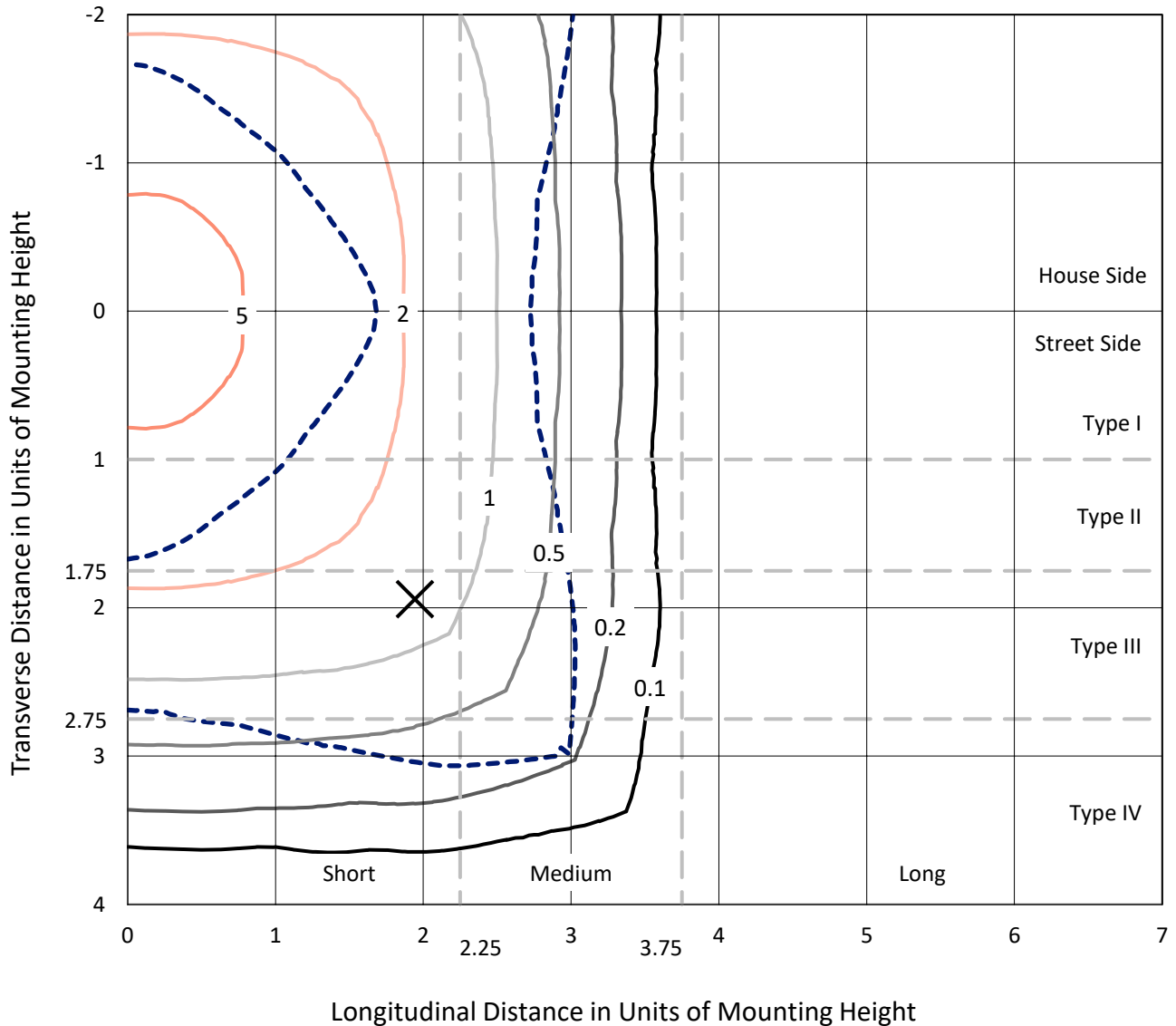
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

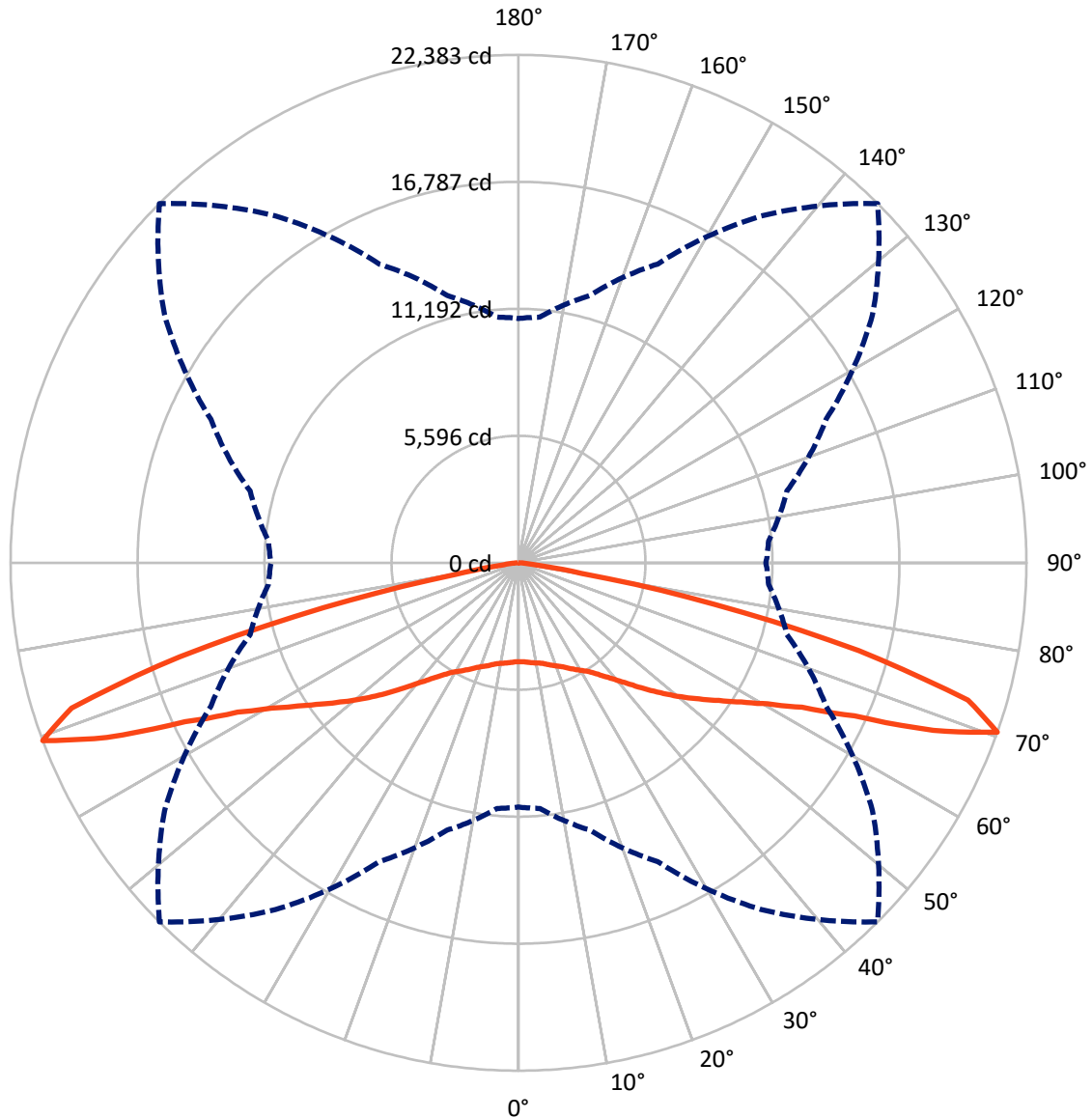
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	22791.4	0.0	22791.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22791.4	0.0	22791.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	45582.8	0.0	45582.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	0.9
10°-20°	1315.4	2.9
20°-30°	2350.7	5.2
30°-40°	3810.5	8.4
40°-50°	6206.7	13.6
50°-60°	9463.1	20.8
60°-70°	14078.0	30.9
70°-80°	7673.0	16.8
80°-90°	261.3	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°	45582.8	100.0
0°-180°	45582.8	100.0

Coefficient of Utilization



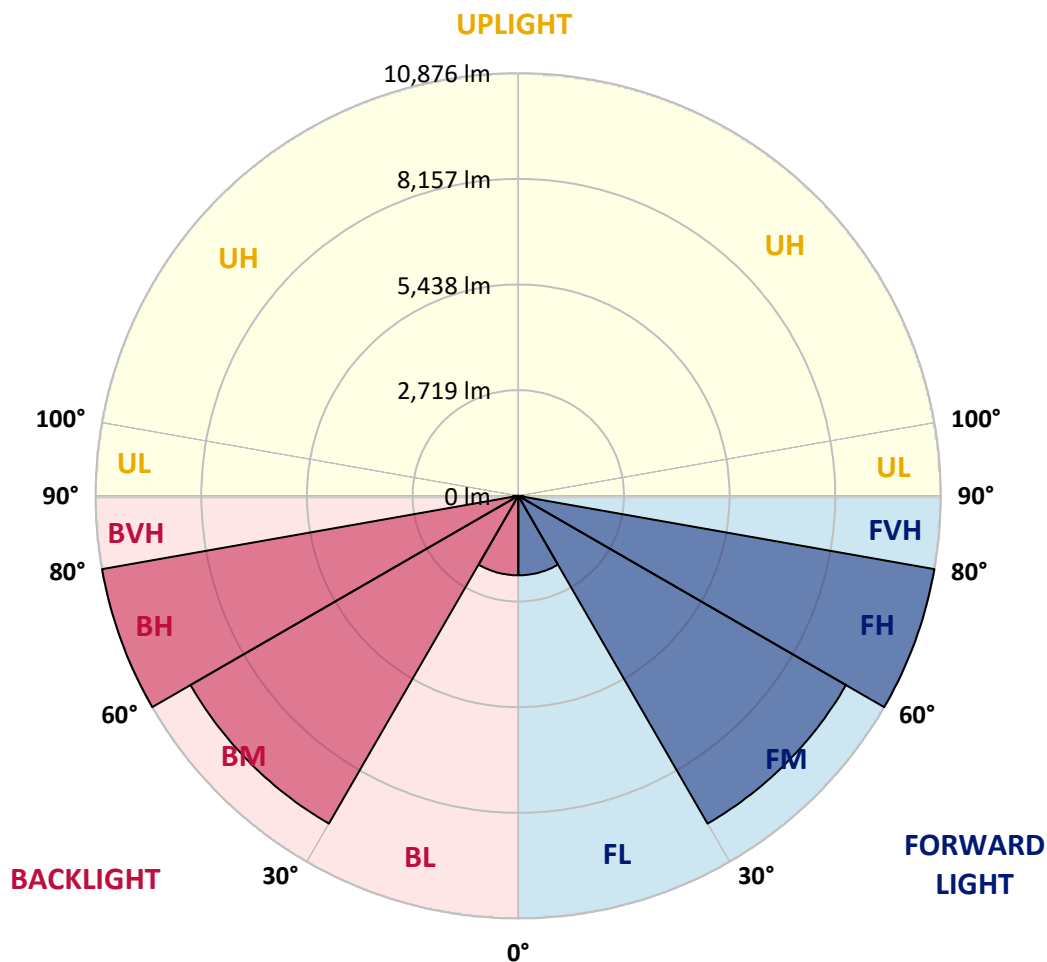
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.1	4.5			
FM (30°-60°)	9740.1	21.4			
FH (60°-80°)	10875.5	23.9			G4/12000
FVH (80°-90°)	130.6	0.3			G2/225
BL (0°-30°)	2045.1	4.5	B3/2500		
BM (30°-60°)	9740.1	21.4	B5		
BH (60°-80°)	10875.5	23.9	B5		G4/12000
BVH (80°-90°)	130.6	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°	4366.4	4366.4	4366.4	4366.4	4366.4	4366.4	4366.4	4366.4	4366.4	4366.4	4366.4
2.5°	4387.0	4391.5	4382.4	4377.8	4373.3	4366.4	4368.7	4380.1	4389.3	4387.0	4389.3
5°	4423.6	4428.1	4421.2	4419.0	4409.9	4407.5	4407.5	4419.0	4425.8	4421.2	4423.6
7.5°	4464.8	4471.7	4460.2	4457.9	4453.3	4448.7	4446.4	4457.9	4464.8	4464.8	4464.8
10°	4503.6	4510.5	4501.4	4494.5	4489.9	4489.9	4485.4	4494.5	4506.0	4503.6	4503.6
12.5°	4544.8	4549.5	4540.2	4535.7	4535.7	4542.6	4535.7	4540.2	4549.5	4544.8	4542.6
15°	4595.2	4597.5	4595.2	4602.0	4613.5	4636.4	4615.8	4611.3	4615.8	4604.4	4604.4
17.5°	4663.9	4668.5	4677.6	4693.6	4709.7	4750.8	4714.2	4702.8	4702.8	4679.8	4679.8
20°	4748.5	4755.4	4769.1	4796.6	4817.2	4856.0	4819.4	4803.5	4796.6	4766.9	4766.9
22.5°	4837.8	4849.2	4869.8	4906.5	4943.1	4979.7	4943.1	4915.6	4895.0	4856.0	4853.8
25°	4940.8	4954.4	4986.5	5046.1	5096.4	5149.0	5105.5	5050.6	5009.4	4954.4	4952.2
27.5°	5087.2	5103.3	5142.1	5215.4	5279.5	5325.2	5284.0	5213.0	5155.9	5089.5	5087.2
30°	5293.2	5309.2	5355.0	5432.8	5476.3	5506.0	5478.5	5423.6	5355.0	5279.5	5279.5
32.5°	5558.7	5579.3	5629.6	5702.8	5711.9	5716.5	5707.4	5679.9	5629.6	5538.1	5540.3
35°	5895.1	5917.9	5975.1	6034.7	6025.5	6034.7	6021.0	6011.7	5975.1	5869.9	5869.9
37.5°	6306.9	6334.4	6394.0	6439.7	6416.8	6405.3	6407.7	6409.9	6389.3	6272.6	6272.6
40°	6785.3	6821.9	6865.3	6913.4	6874.5	6840.1	6863.1	6881.3	6863.1	6744.1	6744.1
42.5°	7277.3	7329.9	7375.7	7444.4	7412.3	7368.8	7400.8	7421.4	7382.6	7254.3	7263.6
45°	7824.2	7874.6	7934.0	8037.0	8014.2	7968.4	8014.2	8018.7	7952.4	7801.3	7817.4
47.5°	8389.4	8442.1	8531.4	8668.6	8659.5	8609.2	8668.6	8636.6	8551.9	8371.2	8359.7
50°	8925.0	8998.2	9135.5	9327.7	9346.1	9284.2	9364.3	9302.5	9160.6	8934.1	8929.5
52.5°	9428.4	9506.3	9723.7	9984.5	10050.8	9970.8	10078.3	9970.8	9757.9	9467.3	9439.8
55°	9957.1	10044.0	10302.6	10643.6	10776.3	10716.8	10817.5	10655.0	10352.9	10000.5	9952.4
57.5°	10579.5	10632.1	10941.1	11346.1	11570.4	11584.1	11629.9	11355.3	10989.1	10588.7	10533.7
60°	11254.6	11327.8	11664.2	12149.3	12504.1	12618.5	12570.4	12163.1	11737.5	11277.5	11204.3
62.5°	12119.6	12199.8	12602.5	13183.8	13744.4	14028.2	13840.6	13250.1	12723.7	12172.3	12076.1
65°	12835.9	12925.1	13652.9	14689.6	15710.2	16280.0	15808.6	14721.6	13774.2	12996.1	12868.0
67.5°	12316.4	12426.3	13568.2	15472.2	18010.1	19710.4	18097.1	15705.7	13849.7	12794.7	12636.8
70°	10764.9	10867.9	12199.8	14527.0	18657.7	22383.3	19046.8	14955.0	12243.2	11062.3	10904.5
72.5°	7146.8	7478.6	8826.6	11618.5	16659.9	20712.8	16824.7	11382.7	8188.1	7130.8	6899.7
75°	2370.8	2636.3	3556.2	6023.2	11158.5	15490.5	10623.0	5329.8	2817.1	2027.6	1917.7
77.5°	597.3	688.8	949.7	1723.2	4451.1	8819.7	4007.0	1407.4	766.6	535.5	478.3
80°	290.6	320.4	457.7	574.4	1114.5	2803.4	1045.8	540.1	361.6	279.2	256.4
82.5°	160.2	162.5	258.6	324.9	414.2	725.4	430.2	315.8	208.3	169.3	169.3
85°	98.4	96.1	137.4	173.9	173.9	258.6	205.9	173.9	119.0	105.3	109.9
87.5°	38.9	38.9	50.3	54.9	48.1	66.3	52.7	57.2	45.8	43.5	45.8
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)