

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: P969264

Luminaire Tested: **NAV-SB5D-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53294.9 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

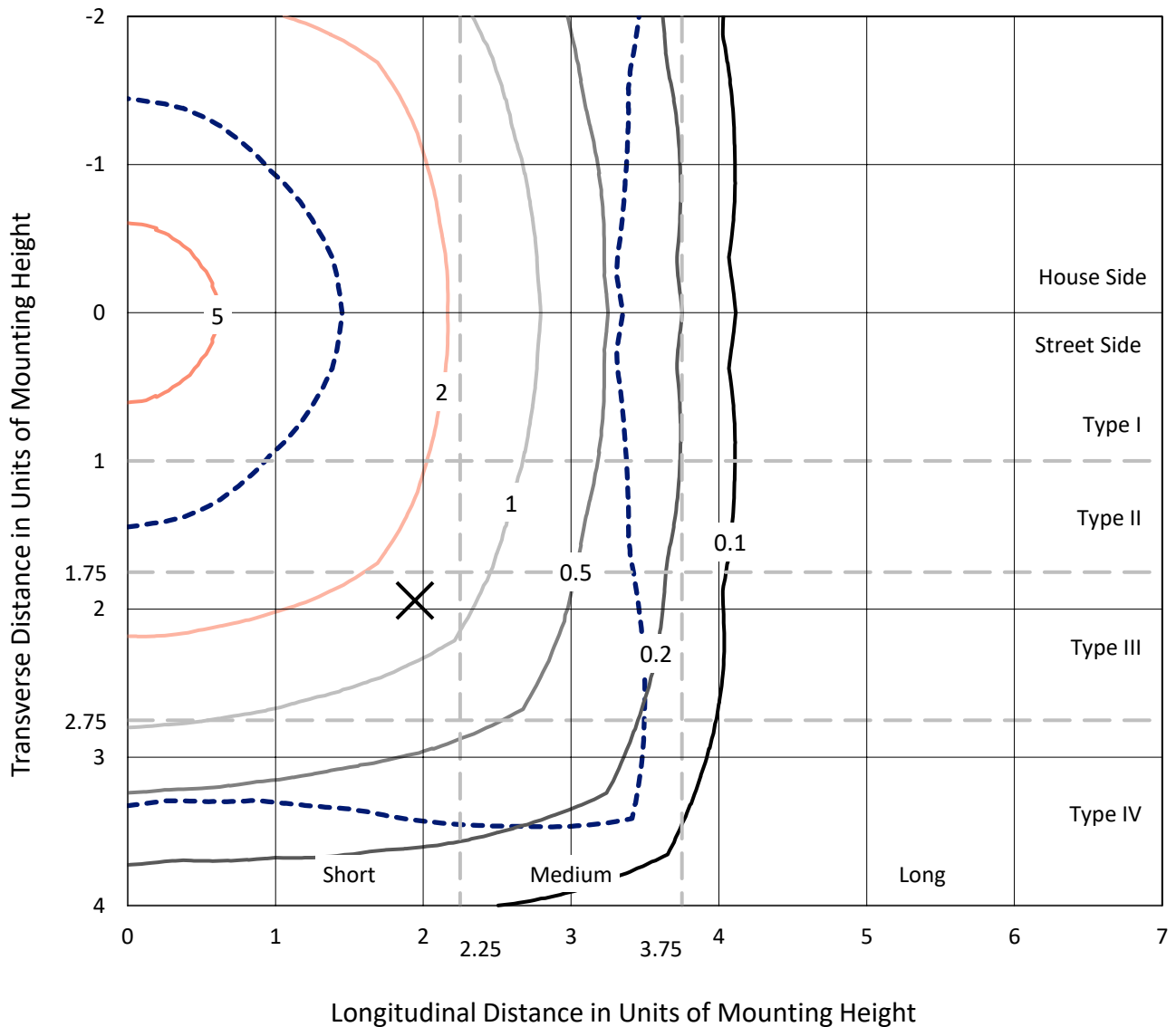
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

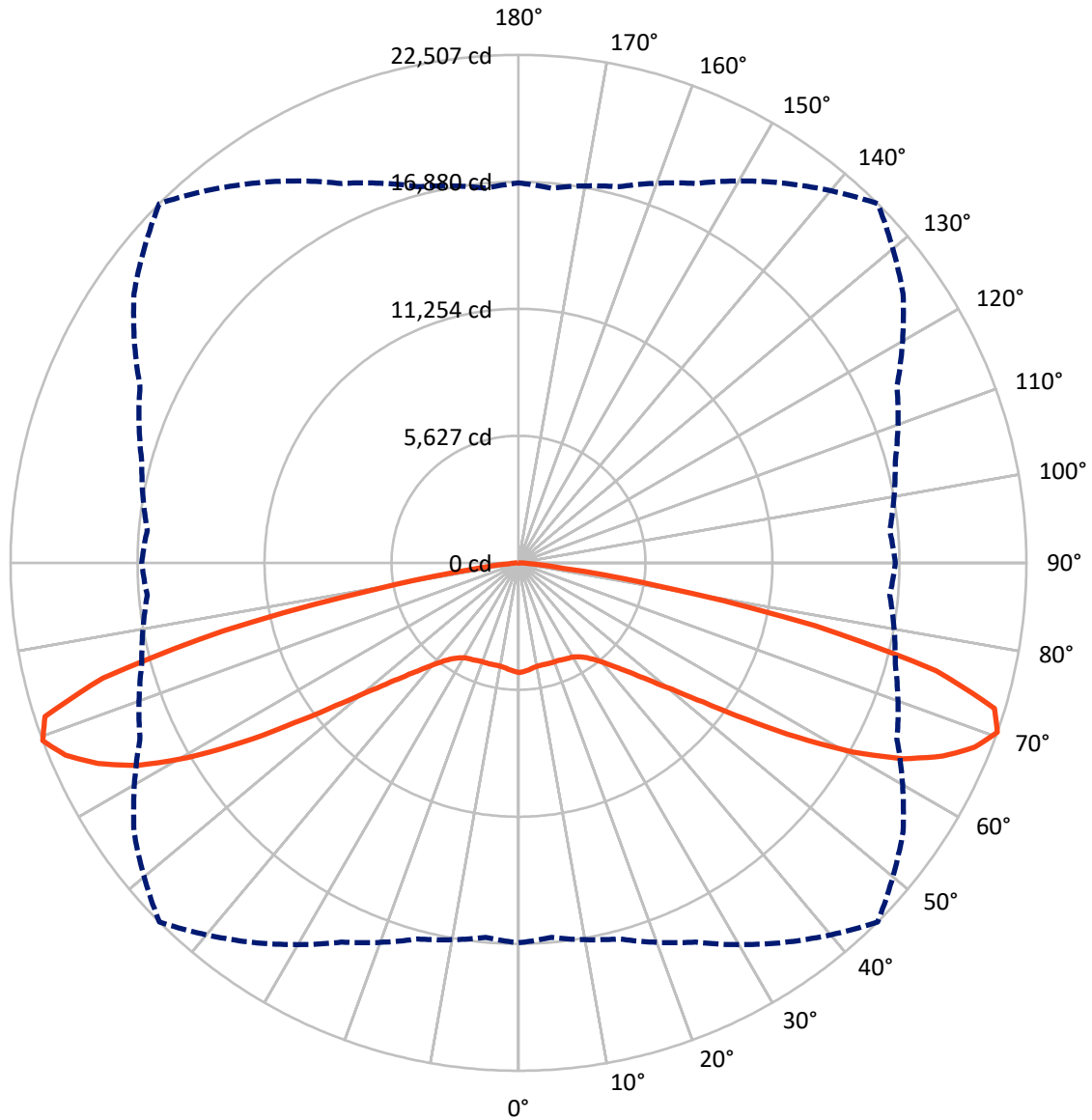
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	26647.4	0.0	26647.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26647.4	0.0	26647.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	53294.9	0.0	53294.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	0.8
10°-20°	1327.9	2.5
20°-30°	2209.8	4.1
30°-40°	3341.9	6.3
40°-50°	5553.4	10.4
50°-60°	10479.1	19.7
60°-70°	17694.4	33.2
70°-80°	11627.0	21.8
80°-90°	609.1	1.1
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°	53294.9	100.0
0°-180°	53294.9	100.0

Coefficient of Utilization

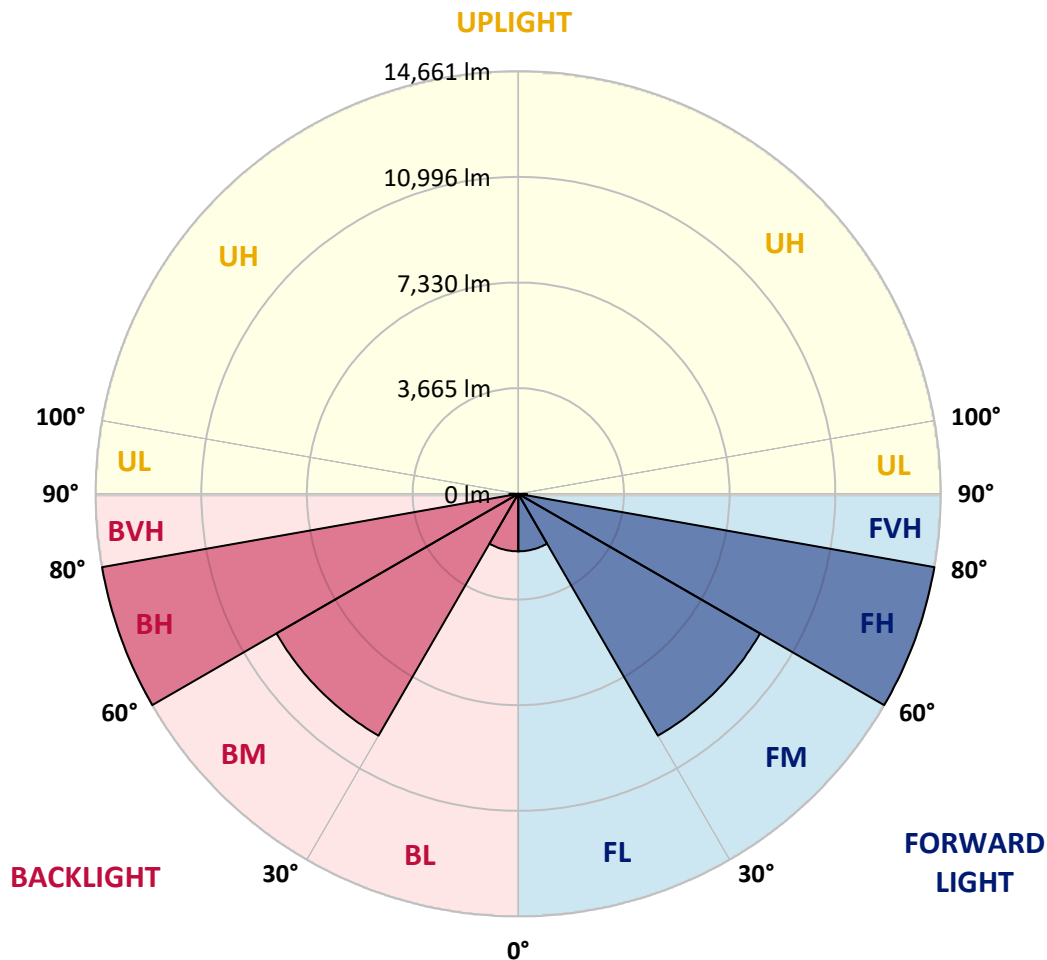


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.0	3.7			
FM (30°-60°)	9687.2	18.2			
FH (60°-80°)	14660.7	27.5			G5
FVH (80°-90°)	304.6	0.6			G3/500
BL (0°-30°)	1995.0	3.7	B3/2500		
BM (30°-60°)	9687.2	18.2	B5		
BH (60°-80°)	14660.7	27.5	B5		G5
BVH (80°-90°)	304.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6
2.5°	4831.1	4845.0	4839.4	4828.4	4828.4	4820.1	4828.4	4833.9	4842.2	4847.7	4845.0
5°	4767.4	4778.4	4775.7	4767.4	4770.1	4761.8	4767.4	4775.7	4781.2	4784.0	4784.0
7.5°	4712.0	4723.1	4717.6	4703.6	4703.6	4695.3	4698.1	4706.4	4714.8	4717.6	4717.6
10°	4698.1	4709.3	4692.6	4670.4	4662.1	4651.0	4653.8	4662.1	4678.7	4687.0	4687.0
12.5°	4703.6	4712.0	4695.3	4662.1	4653.8	4642.7	4642.7	4651.0	4673.2	4684.2	4687.0
15°	4720.3	4728.6	4703.6	4667.6	4659.3	4651.0	4648.3	4659.3	4684.2	4703.6	4706.4
17.5°	4750.8	4759.1	4720.3	4670.4	4659.3	4662.1	4659.3	4667.6	4706.4	4742.5	4742.5
20°	4778.4	4784.0	4731.4	4670.4	4659.3	4662.1	4659.3	4675.9	4725.9	4775.7	4778.4
22.5°	4786.8	4792.3	4742.5	4689.8	4681.5	4684.2	4681.5	4698.1	4745.2	4795.1	4795.1
25°	4789.5	4797.8	4759.1	4717.6	4731.4	4736.9	4731.4	4734.2	4770.1	4814.4	4811.7
27.5°	4831.1	4842.2	4806.1	4770.1	4778.4	4775.7	4784.0	4792.3	4820.1	4864.3	4853.3
30°	4916.9	4925.2	4894.8	4858.8	4853.3	4833.9	4858.8	4886.5	4916.9	4955.8	4947.5
32.5°	5058.3	5074.9	5036.1	4997.3	4972.4	4961.3	4980.7	5027.7	5069.3	5110.9	5094.2
35°	5293.7	5304.8	5268.8	5196.8	5152.5	5152.5	5169.1	5230.0	5296.5	5349.1	5329.7
37.5°	5626.1	5640.0	5576.3	5490.4	5423.9	5423.9	5446.0	5509.8	5609.5	5684.3	5656.6
40°	6030.6	6050.0	5969.6	5880.9	5817.3	5806.2	5833.9	5905.9	6000.0	6094.2	6063.8
42.5°	6518.1	6540.2	6435.0	6357.5	6307.5	6307.5	6321.4	6387.9	6473.8	6590.1	6581.8
45°	7141.4	7180.1	7036.1	6958.5	6911.5	6922.5	6930.8	6989.1	7066.6	7199.6	7194.0
47.5°	7883.8	7922.5	7770.2	7689.9	7681.6	7734.1	7700.9	7742.5	7784.1	7936.4	7892.1
50°	8725.9	8792.3	8687.1	8681.5	8698.2	8795.1	8717.6	8739.8	8692.6	8789.6	8731.5
52.5°	9756.4	9853.3	9834.0	9867.2	10052.8	10252.3	10074.9	9997.3	9820.1	9850.6	9748.1
55°	11005.7	11152.5	11180.2	11379.7	11800.7	12208.0	11831.2	11518.1	11141.4	11072.2	10964.1
57.5°	12426.8	12543.1	12676.1	13083.3	13870.0	14593.0	13870.0	13177.5	12584.6	12443.4	12343.7
60°	13955.9	14099.9	14227.3	14828.5	15997.5	17014.1	15975.3	14875.5	14091.6	13900.4	13734.3
62.5°	15598.6	15784.2	15872.8	16540.4	17903.3	19116.7	17922.7	16590.2	15720.4	15515.4	15349.3
65°	17174.8	17327.1	17426.8	18138.8	19440.8	20656.8	19529.3	18216.3	17321.6	17052.9	16919.9
67.5°	17908.8	17991.9	18235.7	19041.8	20415.8	21803.6	20648.5	19127.7	18127.6	17656.8	17662.3
70°	16834.1	16665.1	17252.3	18543.2	20532.2	22507.3	20798.1	18504.4	17280.1	16515.5	16698.3
72.5°	13008.5	12717.6	13737.0	15944.8	19202.5	22058.5	19335.5	16069.4	14371.4	12820.1	13205.2
75°	7077.6	6748.0	8155.2	10947.5	15313.2	19119.4	15665.1	11260.5	9080.5	7025.0	7482.1
77.5°	1997.2	1872.6	3008.4	5296.5	9210.6	13424.0	9565.2	5412.8	3567.9	2116.4	2351.9
80°	612.2	592.8	803.3	1595.6	3911.4	6429.4	3759.1	1615.0	1022.1	645.4	681.4
82.5°	362.8	332.4	398.9	581.7	997.2	2019.5	969.5	606.7	487.6	326.9	354.5
85°	207.8	193.9	235.4	282.6	335.2	429.4	279.8	288.1	260.3	174.6	182.9
87.5°	85.9	77.6	91.4	88.7	77.6	99.7	74.8	88.7	105.3	69.3	63.8
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)