

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: P970317

Luminaire Tested: **NAV-SB6B-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36676.5 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

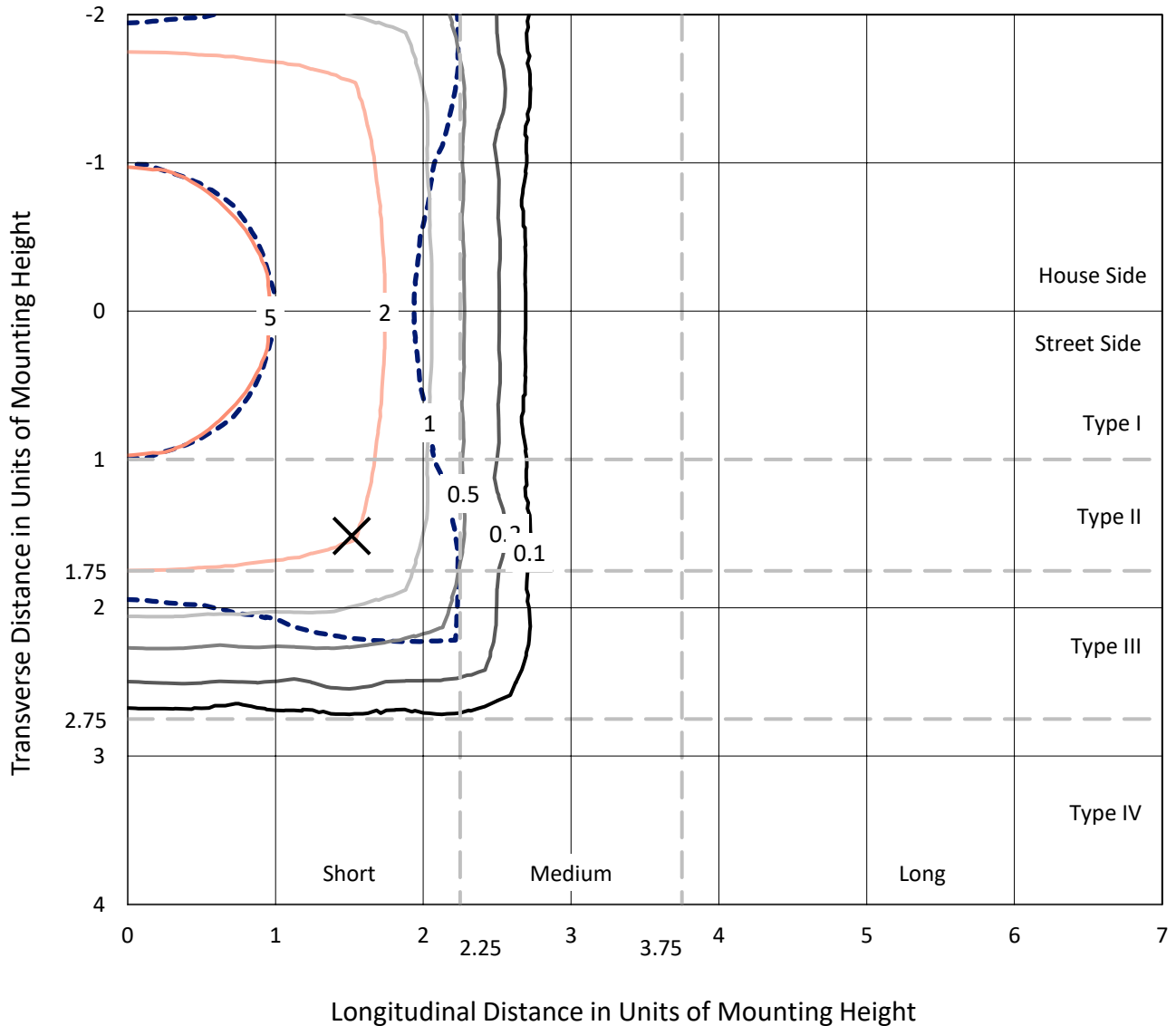
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

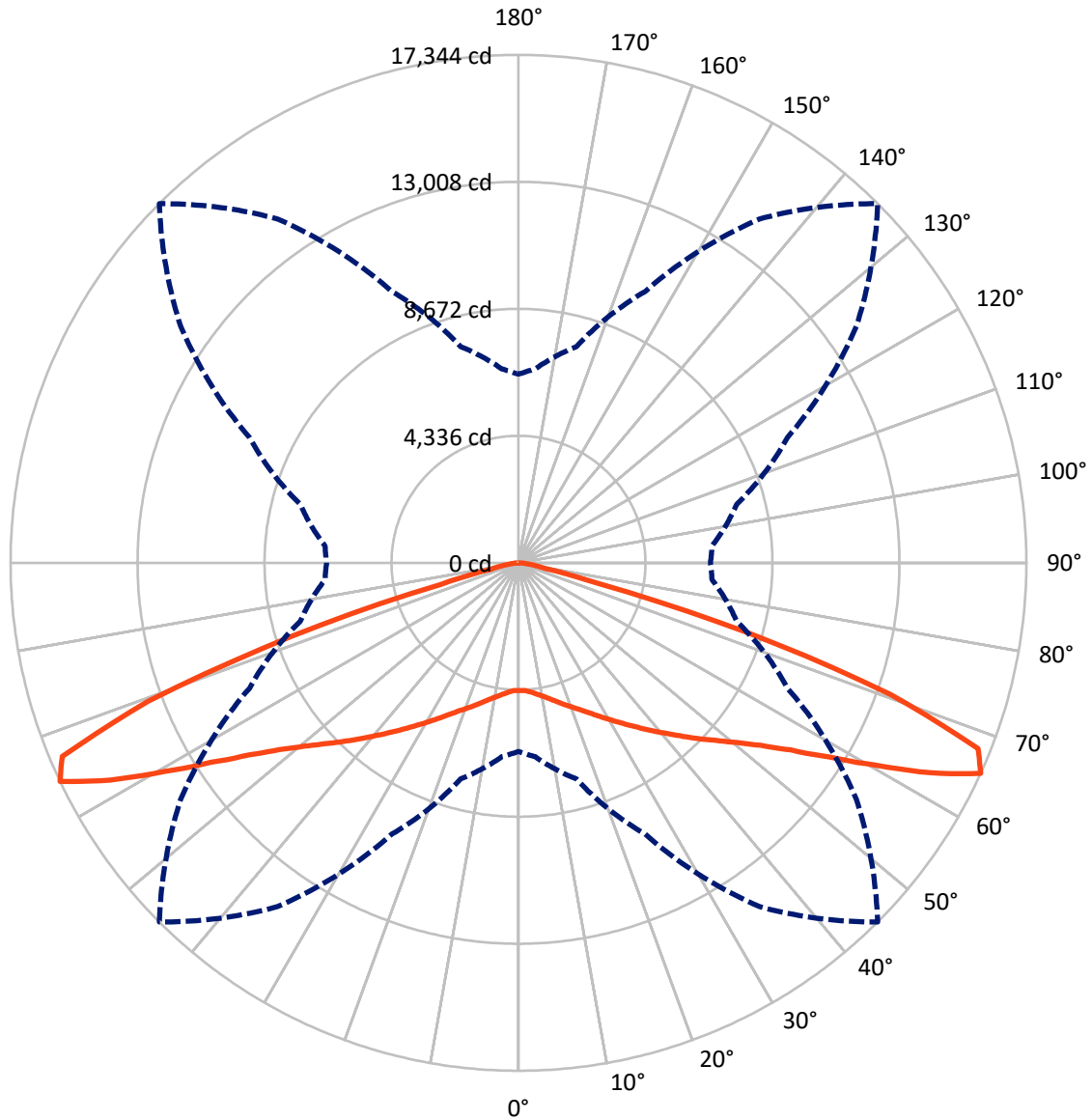
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18338.3	0.0	18338.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18338.3	0.0	18338.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	36676.5	0.0	36676.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.8	1.2
10°-20°	1405.6	3.8
20°-30°	2654.0	7.2
30°-40°	4345.8	11.8
40°-50°	6738.3	18.4
50°-60°	9953.8	27.1
60°-70°	9475.1	25.8
70°-80°	1528.9	4.2
80°-90°	144.1	0.4
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°	36676.5	100.0
0°-180°	36676.5	100.0

Coefficient of Utilization



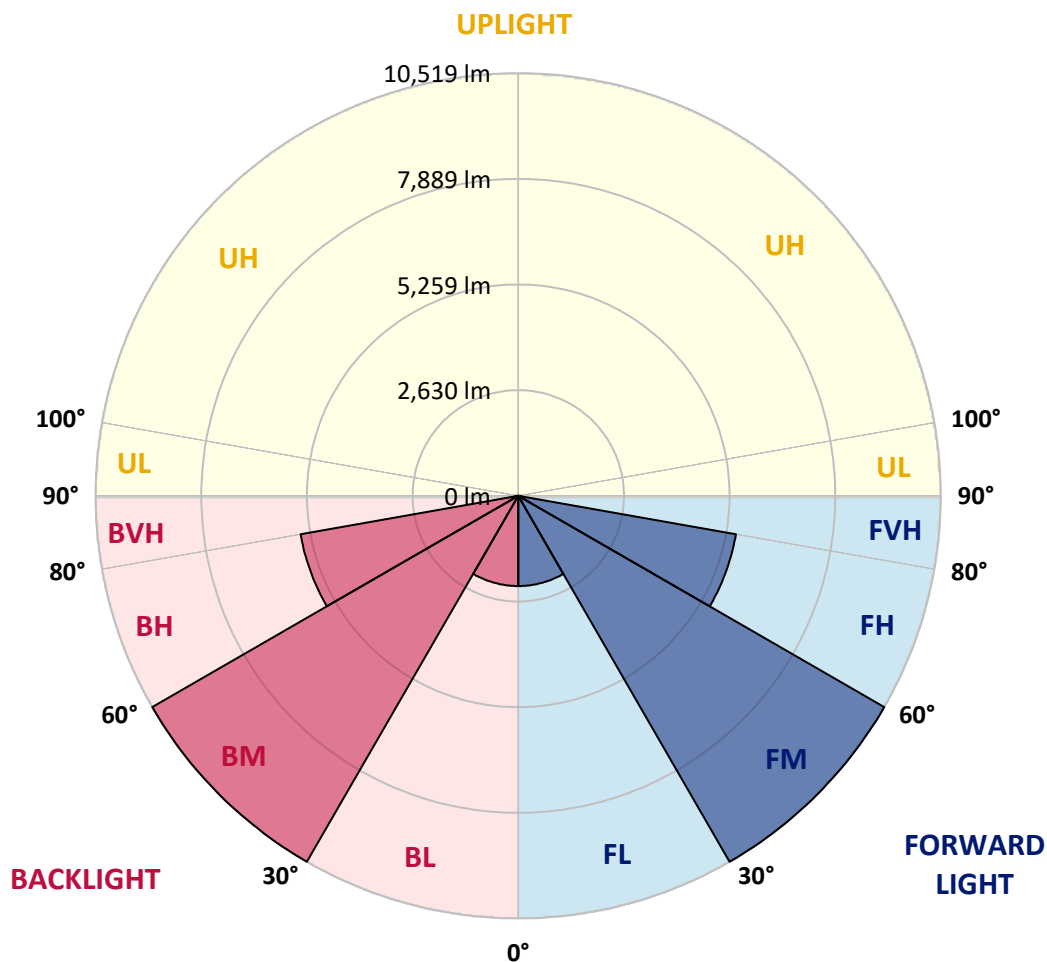
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.2	6.1			
FM (30°-60°)	10519.0	28.7			
FH (60°-80°)	5502.0	15.0			G3/7500
FVH (80°-90°)	72.1	0.2			G1/100
BL (0°-30°)	2245.2	6.1	B3/2500		
BM (30°-60°)	10519.0	28.7	B5		
BH (60°-80°)	5502.0	15.0	B5		G3/7500
BVH (80°-90°)	72.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9
2.5°	4394.3	4379.6	4390.6	4381.5	4374.1	4366.7	4370.4	4383.3	4388.8	4390.6	4390.6
5°	4453.2	4440.3	4445.8	4445.8	4432.9	4429.3	4431.1	4440.3	4451.4	4451.4	4451.4
7.5°	4548.8	4536.0	4548.8	4541.6	4530.5	4526.8	4525.0	4532.3	4548.8	4548.8	4543.4
10°	4664.8	4650.1	4657.5	4653.8	4640.9	4635.4	4633.5	4644.6	4659.3	4657.5	4653.8
12.5°	4791.8	4775.3	4784.4	4773.4	4769.7	4764.2	4764.2	4762.4	4771.6	4764.2	4767.9
15°	4933.5	4922.5	4926.2	4918.8	4924.3	4920.6	4905.9	4898.5	4902.2	4891.2	4893.0
17.5°	5100.9	5075.2	5088.1	5084.4	5084.4	5091.8	5067.8	5058.6	5066.0	5054.9	5064.1
20°	5294.1	5268.4	5273.9	5266.6	5257.3	5264.7	5235.3	5242.7	5248.2	5240.8	5257.3
22.5°	5505.8	5472.7	5470.8	5474.5	5454.2	5456.1	5435.9	5454.2	5465.3	5445.0	5465.3
25°	5722.9	5687.9	5711.9	5702.7	5677.0	5682.4	5667.7	5686.1	5695.3	5669.6	5699.0
27.5°	5952.9	5929.0	5951.2	5956.6	5925.3	5947.5	5925.3	5941.9	5951.2	5912.5	5941.9
30°	6221.6	6197.7	6218.0	6232.6	6195.8	6230.8	6212.4	6223.5	6225.2	6179.3	6206.9
32.5°	6514.2	6477.4	6528.9	6536.3	6495.8	6538.1	6514.2	6528.9	6538.1	6475.5	6517.9
35°	6871.2	6825.2	6884.1	6874.9	6839.9	6874.9	6852.7	6874.9	6896.9	6821.5	6867.5
37.5°	7255.8	7207.9	7270.5	7253.9	7220.8	7244.7	7231.9	7246.5	7281.5	7200.5	7250.2
40°	7679.0	7620.2	7704.8	7675.3	7644.0	7640.4	7647.7	7657.0	7703.0	7612.8	7642.2
42.5°	8131.7	8069.1	8196.1	8150.1	8105.9	8076.5	8100.4	8118.8	8163.0	8061.7	8115.1
45°	8648.7	8577.0	8742.6	8687.4	8617.5	8556.8	8595.4	8623.0	8687.4	8566.0	8628.6
47.5°	9219.3	9138.3	9314.9	9298.4	9184.3	9051.8	9140.1	9219.3	9267.1	9119.8	9169.5
50°	9776.8	9714.2	9946.1	9966.4	9826.5	9640.6	9763.9	9883.6	9896.4	9703.2	9727.1
52.5°	10299.4	10236.9	10573.6	10700.6	10575.4	10354.7	10485.2	10606.7	10509.2	10258.9	10266.3
55°	10717.1	10665.6	11094.4	11421.9	11464.2	11282.1	11359.4	11355.7	11035.5	10650.9	10663.8
57.5°	10818.4	10811.0	11352.0	12045.7	12487.4	12509.4	12356.7	11966.6	11276.5	10759.4	10726.3
60°	10358.3	10404.3	11147.7	12371.4	13549.2	14038.6	13378.0	12264.7	11002.3	10284.6	10200.1
62.5°	8981.9	9103.3	9999.5	11973.9	14406.7	15797.8	14196.9	11812.0	9876.2	8939.5	8884.3
65°	6436.9	6648.6	7638.5	10218.4	14329.4	17343.6	14079.1	10135.6	7712.1	6632.0	6552.8
67.5°	2920.3	3135.7	3976.6	6996.3	12456.1	16924.0	12426.7	7069.9	4175.3	3146.6	3100.7
70°	1058.1	1094.9	1365.4	2800.7	7960.6	13484.7	8301.0	2821.0	1451.9	1166.7	1151.9
72.5°	640.4	645.9	702.9	1002.9	2765.8	8186.9	2883.5	1036.0	717.7	636.7	647.7
75°	406.7	403.0	500.5	612.7	980.8	2762.1	1028.7	612.7	498.7	454.5	458.2
77.5°	292.6	301.8	358.9	458.2	618.3	936.6	607.2	438.0	358.9	294.4	299.9
80°	218.9	224.5	261.3	357.0	434.3	583.3	386.4	323.9	270.5	184.0	189.5
82.5°	158.3	158.3	171.2	259.4	265.0	314.7	209.8	228.2	178.5	130.7	130.7
85°	93.9	92.0	106.7	154.6	138.0	115.9	95.7	139.8	112.2	81.0	79.1
87.5°	33.1	35.0	33.1	44.2	36.8	31.3	29.4	38.6	31.3	27.6	25.7
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)