

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: P971034

Luminaire Tested: **NAV-SB6C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43071.5 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 300.9
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

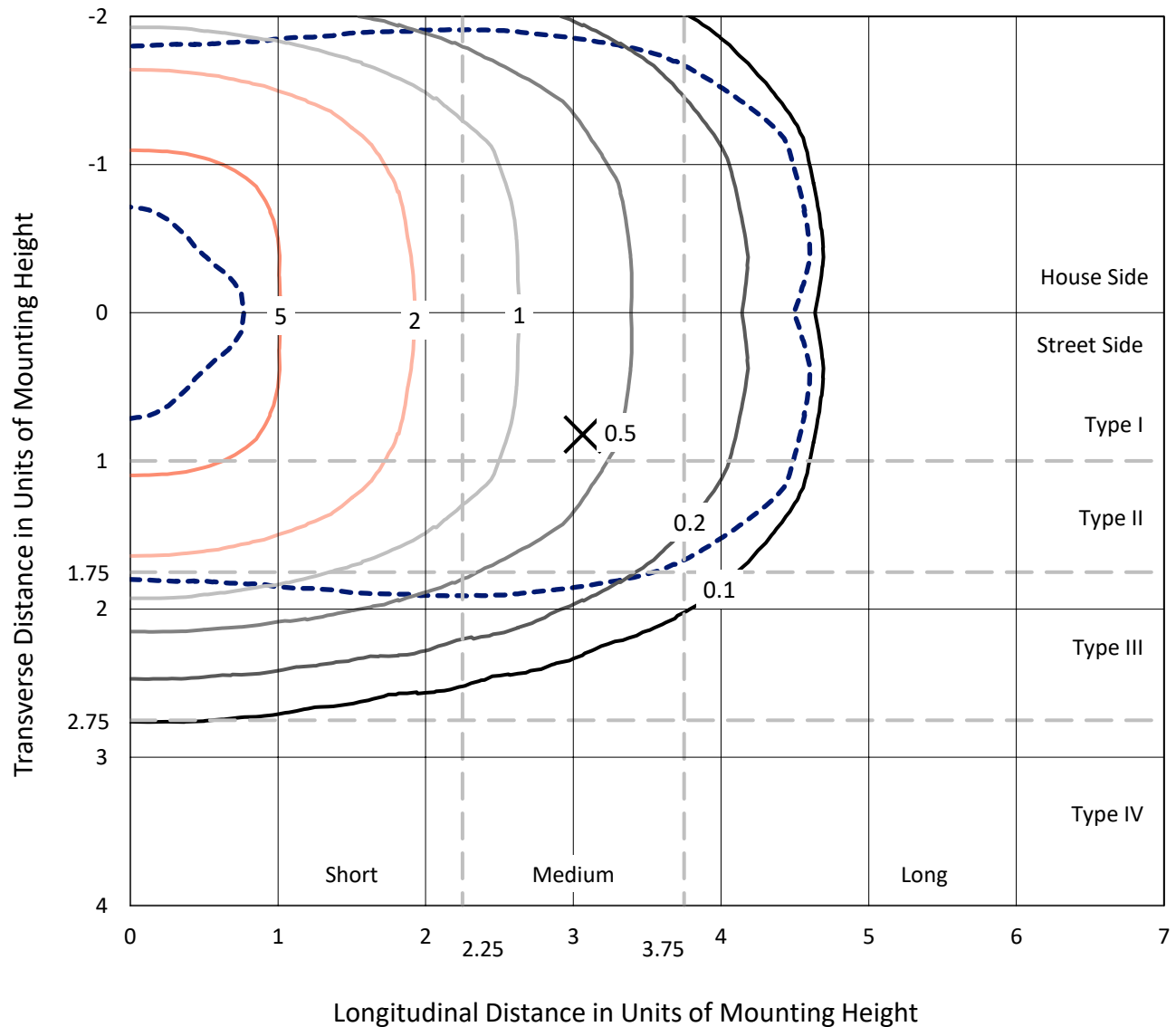


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Iso-Footcandle Lines of Horizontal Illumination

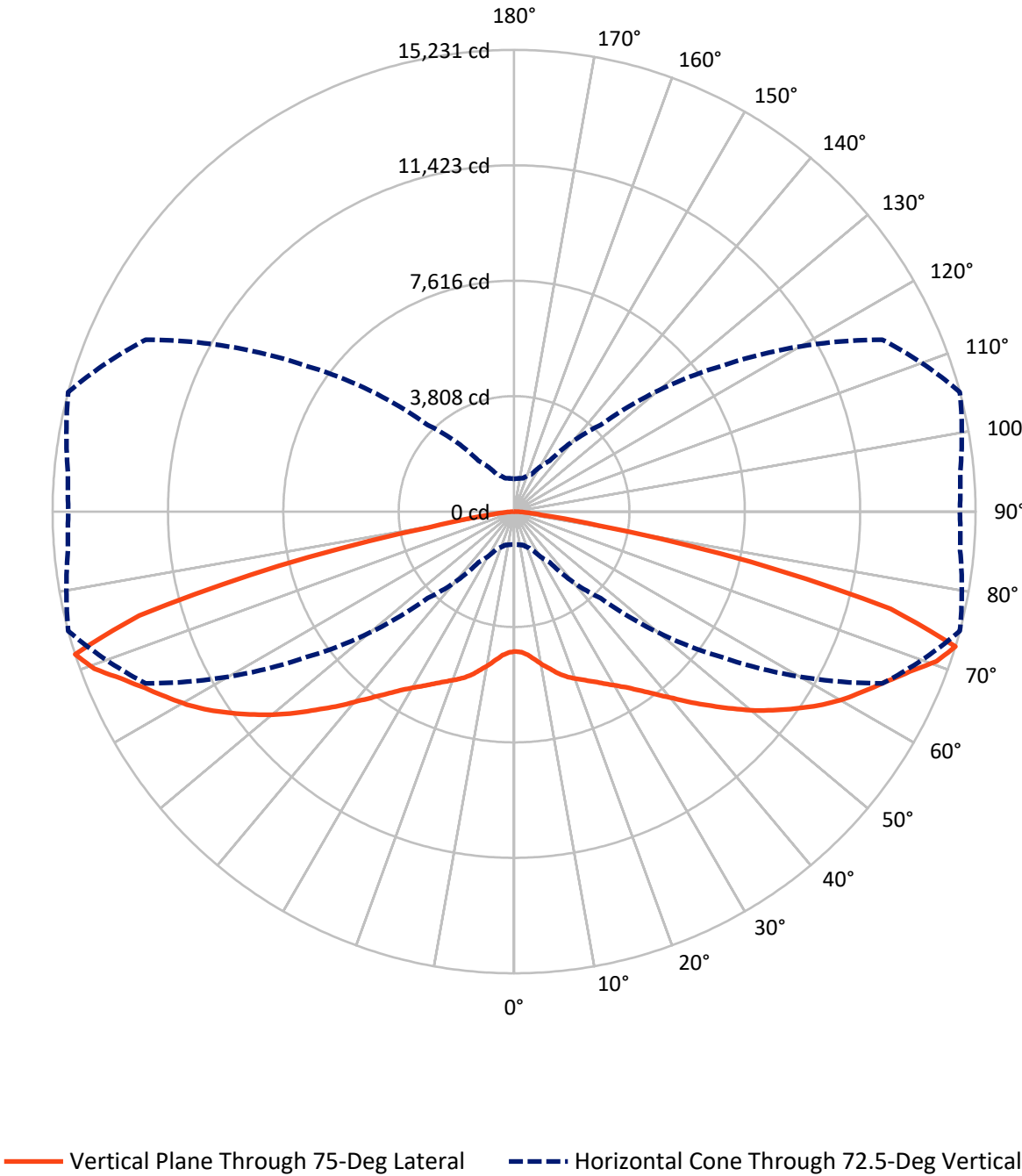
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21535.8	0.0	21535.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21535.8	0.0	21535.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	43071.5	0.0	43071.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.0	1.0
10°-20°	1490.6	3.5
20°-30°	2880.3	6.7
30°-40°	4863.6	11.3
40°-50°	7713.2	17.9
50°-60°	10327.1	24.0
60°-70°	9828.0	22.8
70°-80°	5128.4	11.9
80°-90°	388.2	0.9
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°	43071.5	100.0
0°-180°	43071.5	100.0

Coefficient of Utilization



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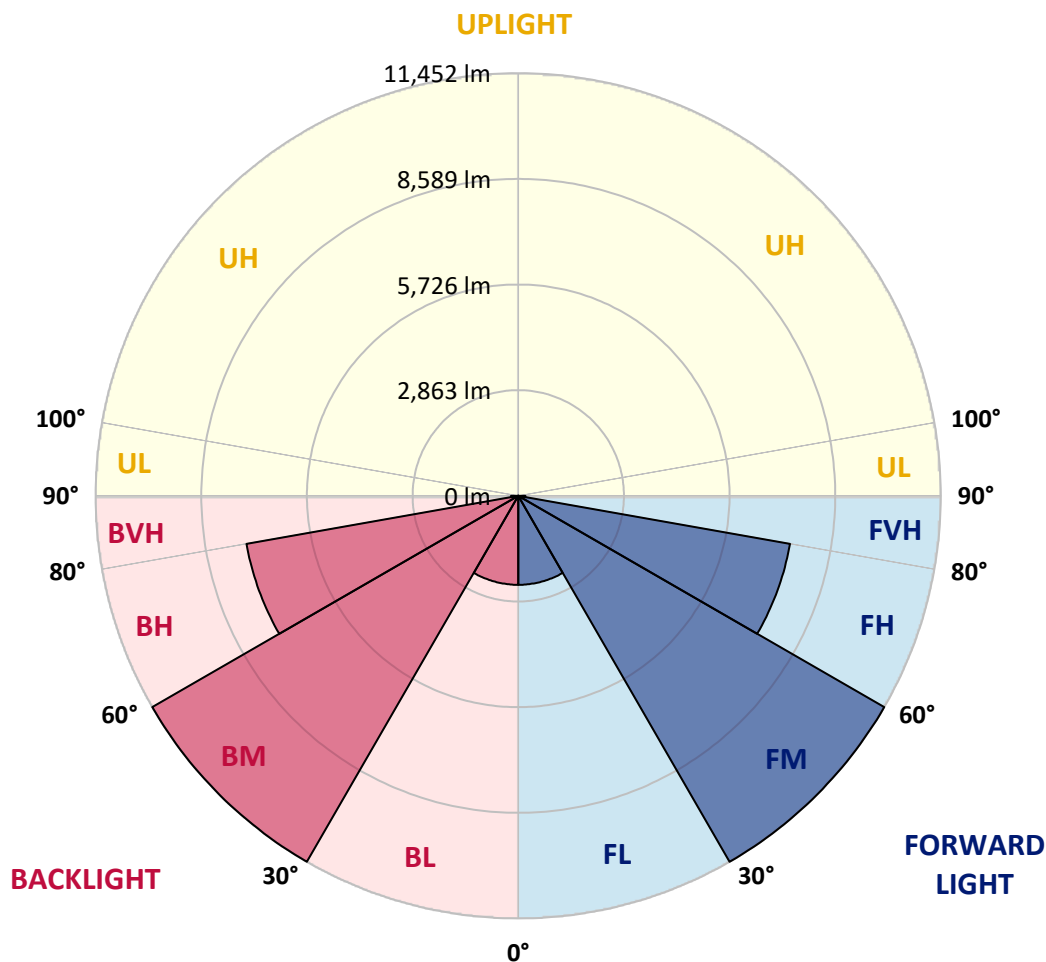
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2411.5	5.6			
FM	(30°-60°)	11451.9	26.6			
FH	(60°-80°)	7478.2	17.4			G3/7500
FVH	(80°-90°)	194.1	0.5			G2/225
BL	(0°-30°)	2411.5	5.6	B3/2500		
BM	(30°-60°)	11451.9	26.6	B5		
BH	(60°-80°)	7478.2	17.4	B5		G5
BVH	(80°-90°)	194.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4613.7	4613.7	4613.7	4613.7	4613.7	4613.7	4613.7	4613.7	4613.7	4613.7	4613.7
2.5°	4613.7	4609.3	4613.7	4618.1	4615.9	4615.9	4627.0	4633.5	4646.7	4644.5	4642.3
5°	4583.0	4580.7	4598.4	4618.1	4633.5	4660.0	4692.9	4717.0	4747.9	4754.5	4754.5
7.5°	4567.5	4560.9	4591.7	4627.0	4675.3	4741.2	4805.1	4871.0	4923.8	4941.4	4945.8
10°	4578.6	4580.7	4622.5	4688.5	4765.4	4857.8	4948.0	5060.1	5134.9	5152.5	5170.1
12.5°	4629.1	4624.7	4695.1	4800.7	4906.2	5022.8	5128.3	5251.5	5332.9	5374.6	5392.2
15°	4721.5	4712.6	4811.7	4967.8	5121.7	5258.0	5343.8	5460.4	5555.0	5607.8	5627.6
17.5°	4831.4	4835.8	4965.6	5167.9	5370.2	5524.1	5605.5	5664.9	5737.4	5783.7	5805.6
20°	5025.0	5033.8	5178.9	5418.6	5649.5	5825.5	5891.4	5869.5	5889.2	5924.4	5950.7
22.5°	5284.5	5288.9	5451.6	5711.1	5953.0	6146.5	6190.5	6100.3	6045.3	6069.5	6087.2
25°	5585.7	5614.3	5777.1	6043.2	6291.7	6476.4	6496.1	6359.8	6223.5	6230.1	6241.1
27.5°	5953.0	5979.3	6144.4	6408.2	6661.1	6821.7	6819.4	6636.9	6436.8	6386.3	6401.6
30°	6351.0	6379.6	6548.9	6821.7	7056.9	7197.7	7166.9	6949.2	6663.3	6568.7	6579.8
32.5°	6823.8	6841.5	7012.9	7285.7	7503.4	7615.5	7551.8	7283.4	6927.2	6819.4	6845.9
35°	7395.6	7422.0	7549.5	7806.8	7998.2	8090.5	7982.8	7666.1	7265.8	7144.9	7162.5
37.5°	8048.7	8031.2	8176.3	8405.0	8563.4	8620.6	8473.2	8097.1	7652.9	7510.0	7536.3
40°	8730.4	8721.6	8880.0	9099.9	9185.6	9220.9	9003.2	8592.0	8099.3	7945.4	7995.9
42.5°	9348.4	9341.8	9555.2	9799.2	9902.6	9863.0	9588.2	9117.5	8616.2	8440.2	8484.1
45°	9843.2	9834.5	10096.1	10439.2	10641.4	10575.5	10206.0	9698.0	9139.5	8957.0	8998.8
47.5°	10223.7	10228.1	10509.5	10934.0	11288.0	11312.2	10837.2	10289.7	9715.7	9508.9	9570.5
50°	10498.6	10511.8	10813.0	11283.6	11767.4	11980.7	11481.5	10896.6	10311.6	10078.5	10148.9
52.5°	10566.7	10590.9	10953.8	11505.7	12075.3	12482.1	12136.9	11479.4	10876.8	10654.7	10711.9
55°	10203.9	10252.3	10711.9	11488.1	12264.4	12812.0	12713.1	12070.9	11446.4	11217.7	11281.5
57.5°	9370.4	9438.6	9975.2	10988.9	12222.6	13038.5	13159.5	12638.2	12016.0	11796.0	11846.6
60°	8202.7	8284.0	8798.6	9904.8	11633.2	13122.0	13473.9	13190.2	12539.3	12326.0	12372.2
62.5°	6441.2	6546.8	7162.5	8459.9	10388.6	12732.9	13742.3	13689.5	13009.9	12743.8	12774.6
65°	4132.1	4244.3	4893.0	6425.8	8728.3	11540.9	13825.8	14175.4	13506.9	13135.3	13181.5
67.5°	2491.6	2542.2	2863.2	3894.6	6379.6	9744.3	13117.6	14714.3	14087.5	13625.6	13660.9
70°	1594.4	1623.0	1814.2	2287.1	3606.6	7109.7	11362.8	14815.4	14791.2	14129.3	14124.9
72.5°	1082.0	1090.8	1141.3	1354.6	2040.8	4039.7	8380.8	13412.3	15231.0	14778.0	14707.6
75°	791.7	840.1	921.5	958.8	1159.0	2018.7	4802.8	9423.1	12836.2	13034.1	12554.7
77.5°	589.4	591.5	703.8	747.7	826.9	1075.3	2032.0	5260.3	7969.6	8367.6	7463.7
80°	499.2	472.8	470.6	602.6	622.4	670.8	908.3	1816.5	2854.4	1730.7	1308.5
82.5°	415.6	387.0	349.6	470.6	424.5	411.2	393.6	738.9	908.3	446.4	380.5
85°	290.3	277.1	263.9	307.9	241.9	206.7	189.1	345.2	382.6	189.1	167.2
87.5°	125.4	129.8	131.9	136.3	101.2	72.6	72.6	96.8	96.8	74.7	54.9
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)