

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: P969453

Luminaire Tested: **NAV-SB5D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969453
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-SB5D-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48752.1 lumens
Efficiency: N/A
Efficacy: 133.6 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): 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

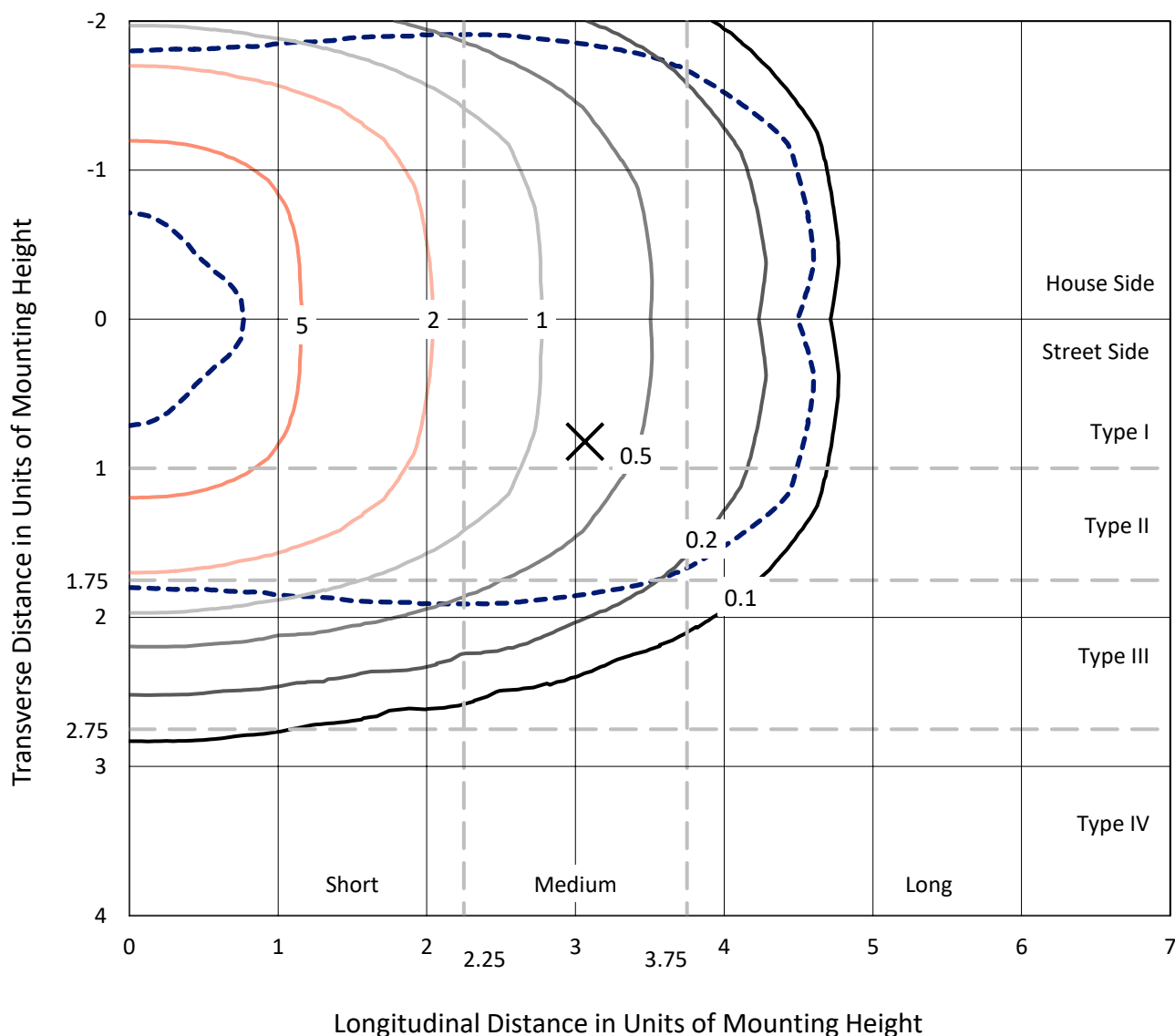


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

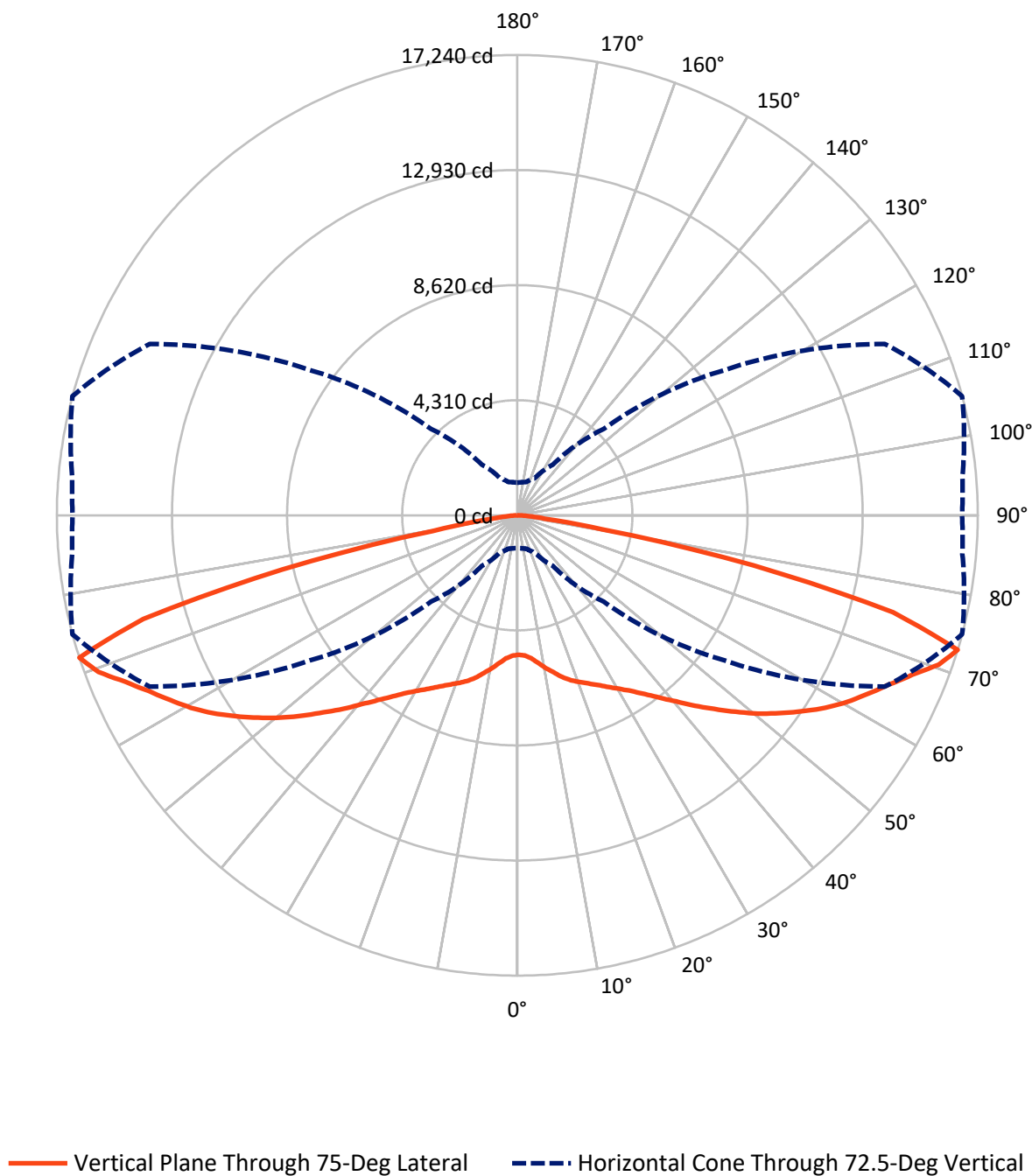


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24376.0	0.0	24376.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24376.0	0.0	24376.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48752.1	0.0	48752.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.0
10°-20°	1687.2	3.5
20°-30°	3260.2	6.7
30°-40°	5505.1	11.3
40°-50°	8730.5	17.9
50°-60°	11689.1	24.0
60°-70°	11124.2	22.8
70°-80°	5804.8	11.9
80°-90°	439.4	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°	48752.1	100.0
0°-180°	48752.1	100.0

Coefficient of Utilization



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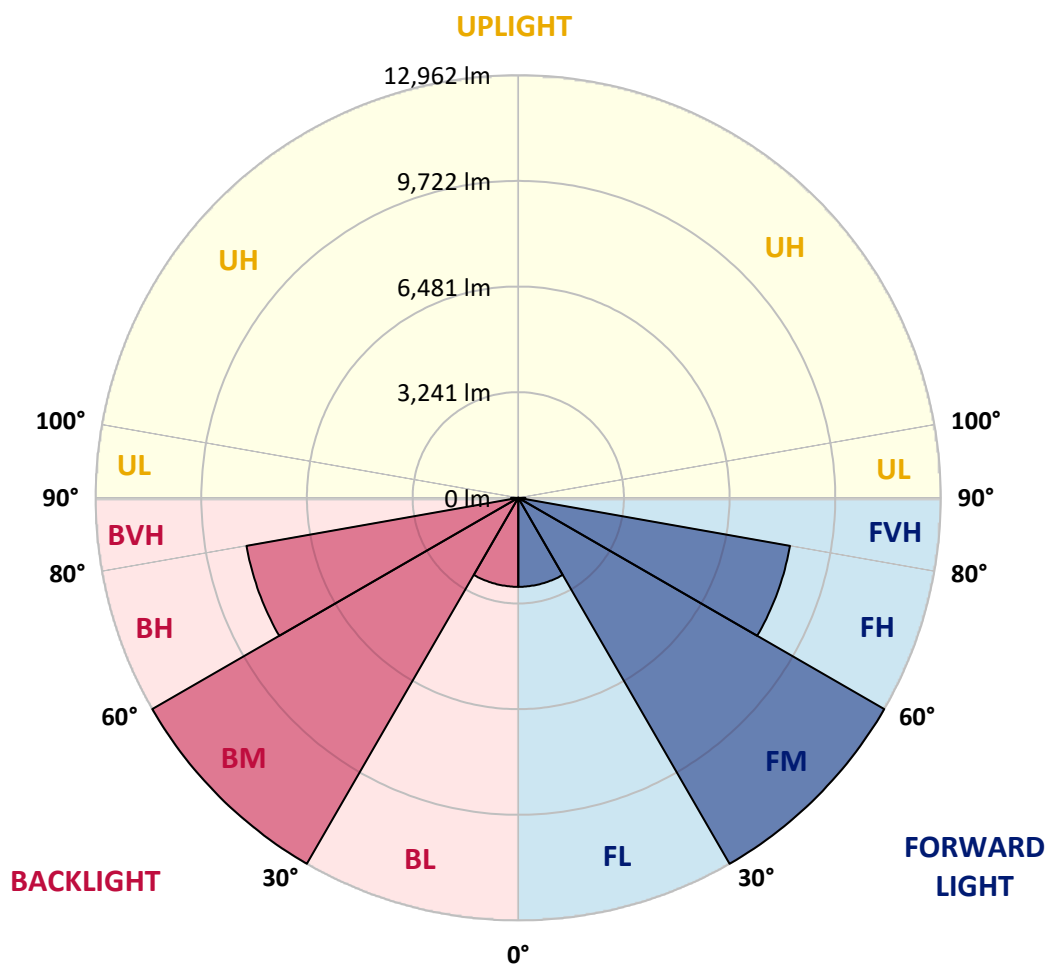
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.5	5.6			
FM	(30°-60°)	12962.3	26.6			
FH	(60°-80°)	8464.5	17.4			G4/12000
FVH	(80°-90°)	219.7	0.5			G2/225
BL	(0°-30°)	2729.5	5.6	B4/5000		
BM	(30°-60°)	12962.3	26.6	B5		
BH	(60°-80°)	8464.5	17.4	B5		G5
BVH	(80°-90°)	219.7	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°	5222.2	5222.2	5222.2	5222.2	5222.2	5222.2	5222.2	5222.2	5222.2	5222.2	5222.2
2.5°	5222.2	5217.2	5222.2	5227.2	5224.7	5224.7	5237.1	5244.6	5259.6	5257.0	5254.6
5°	5187.4	5184.9	5204.7	5227.2	5244.6	5274.4	5311.9	5339.2	5374.1	5381.6	5381.6
7.5°	5170.0	5162.5	5197.4	5237.1	5291.9	5366.6	5438.8	5513.5	5573.2	5593.1	5598.0
10°	5182.4	5184.9	5232.2	5306.8	5394.0	5498.5	5600.6	5727.5	5812.2	5832.0	5851.9
12.5°	5239.6	5234.7	5314.3	5433.8	5553.2	5685.2	5804.7	5944.1	6036.1	6083.5	6103.4
15°	5344.1	5334.2	5446.2	5622.9	5797.2	5951.6	6048.6	6180.5	6287.6	6347.3	6369.8
17.5°	5468.7	5473.6	5620.5	5849.5	6078.5	6252.7	6344.9	6412.0	6494.2	6546.5	6571.4
20°	5687.7	5697.7	5862.0	6133.3	6394.6	6593.7	6668.4	6643.5	6665.9	6705.8	6735.6
22.5°	5981.4	5986.4	6170.6	6464.3	6738.1	6957.2	7006.9	6904.9	6842.7	6870.1	6889.9
25°	6322.4	6354.8	6539.0	6840.1	7121.4	7330.5	7352.9	7198.6	7044.3	7051.7	7064.2
27.5°	6738.1	6768.0	6954.6	7253.3	7539.6	7721.3	7718.9	7512.2	7285.7	7228.5	7245.9
30°	7188.6	7221.0	7412.7	7721.3	7987.6	8147.0	8112.2	7865.6	7542.1	7435.0	7447.5
32.5°	7723.8	7743.7	7937.9	8246.5	8492.9	8619.9	8547.7	8244.1	7840.8	7718.9	7748.7
35°	8371.0	8400.9	8545.2	8836.4	9053.0	9157.6	9035.6	8677.1	8224.1	8087.2	8107.1
37.5°	9110.3	9090.3	9254.6	9513.5	9692.7	9757.5	9590.6	9165.0	8662.2	8500.4	8530.3
40°	9881.9	9872.0	10051.2	10300.0	10397.2	10437.0	10190.6	9725.1	9167.5	8993.2	9050.5
42.5°	10581.4	10573.9	10815.3	11091.6	11208.6	11163.8	10852.7	10320.0	9752.5	9553.3	9603.1
45°	11141.4	11131.4	11427.6	11816.0	12045.0	11970.3	11552.1	10977.1	10344.9	10138.3	10185.5
47.5°	11572.0	11577.0	11895.6	12376.1	12776.7	12804.2	12266.5	11646.7	10997.0	10763.0	10832.7
50°	11883.1	11898.1	12239.1	12771.8	13319.4	13560.9	12995.8	12333.7	11671.6	11407.7	11487.4
52.5°	11960.3	11987.7	12398.4	13023.2	13667.9	14128.4	13737.6	12993.3	12311.3	12059.8	12124.6
55°	11549.6	11604.3	12124.6	13003.3	13882.0	14501.7	14389.8	13662.9	12956.0	12697.1	12769.3
57.5°	10606.2	10683.4	11290.8	12438.3	13834.6	14758.2	14895.0	14305.1	13600.6	13351.8	13409.0
60°	9284.4	9376.6	9959.1	11211.1	13167.6	14852.7	15251.0	14929.8	14193.1	13951.7	14004.0
62.5°	7290.7	7410.1	8107.1	9575.8	11758.7	14412.1	15554.7	15494.9	14725.8	14424.6	14459.5
65°	4677.1	4804.1	5538.4	7273.3	9879.4	13063.0	15649.2	16045.0	15288.3	14867.6	14919.9
67.5°	2820.2	2877.5	3240.8	4408.3	7221.0	11029.4	14847.7	16654.8	15945.4	15422.8	15462.5
70°	1804.6	1837.0	2053.6	2588.7	4082.2	8047.4	12861.4	16769.3	16741.9	15992.8	15987.7
72.5°	1224.7	1234.6	1291.9	1533.3	2309.9	4572.5	9486.2	15181.3	17239.8	16727.1	16647.3
75°	896.1	950.9	1042.9	1085.3	1311.8	2285.0	5436.3	10665.9	14529.2	14753.1	14210.5
77.5°	667.1	669.5	796.5	846.3	935.9	1217.2	2300.0	5954.0	9020.6	9471.2	8448.2
80°	565.1	535.2	532.7	682.0	704.4	759.2	1028.0	2056.0	3230.9	1959.0	1481.0
82.5°	470.5	438.1	395.8	532.7	480.4	465.5	445.6	836.4	1028.0	505.3	430.6
85°	328.6	313.6	298.7	348.5	273.8	234.0	214.0	390.8	433.1	214.0	189.2
87.5°	141.9	146.9	149.3	154.4	114.5	82.1	82.1	109.6	109.6	84.7	62.2
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)