

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: P967341

Luminaire Tested: **NAV-SB4D-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967341
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-SB4D-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39361 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 293.6
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

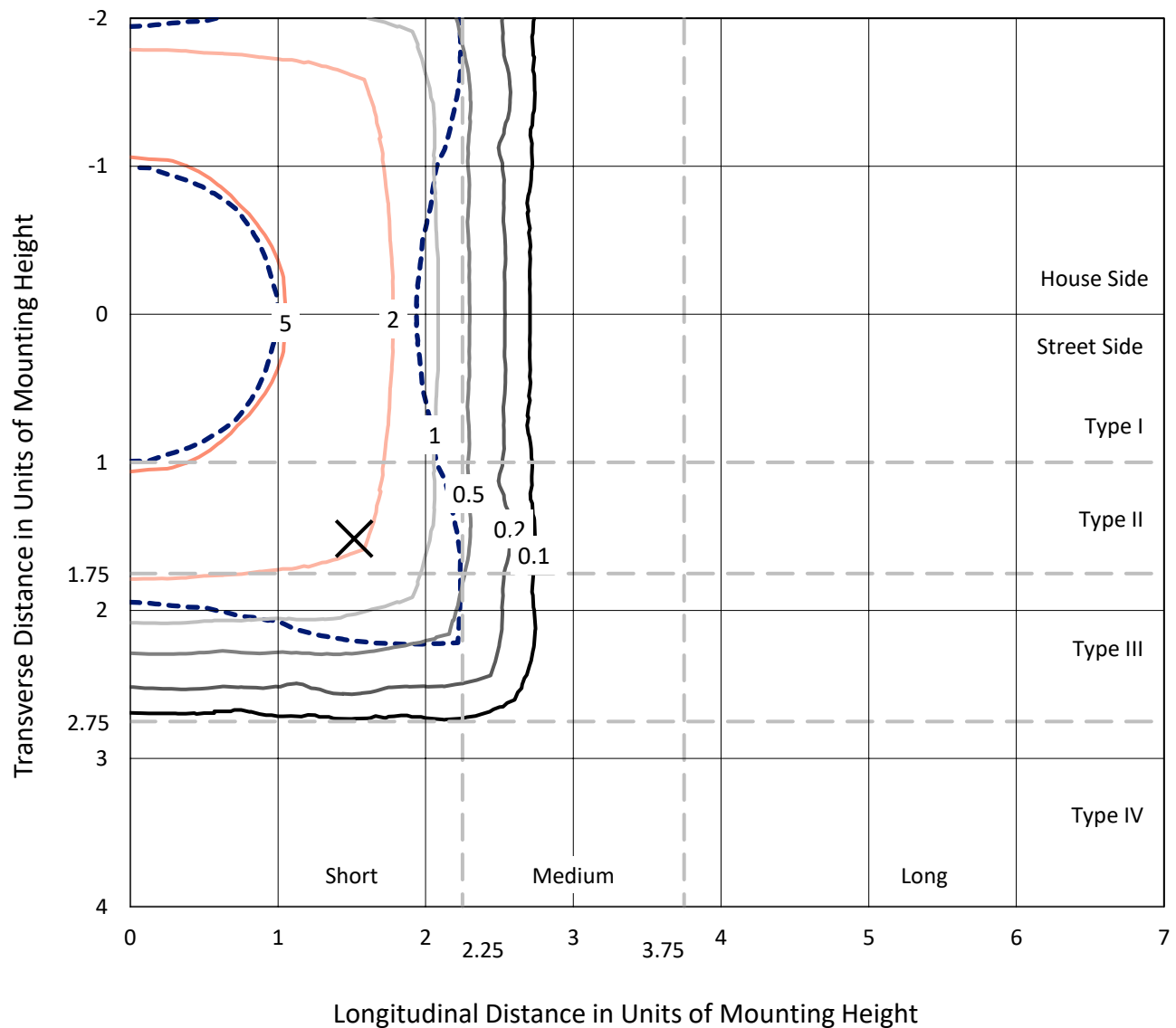


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Iso-Footcandle Lines of Horizontal Illumination

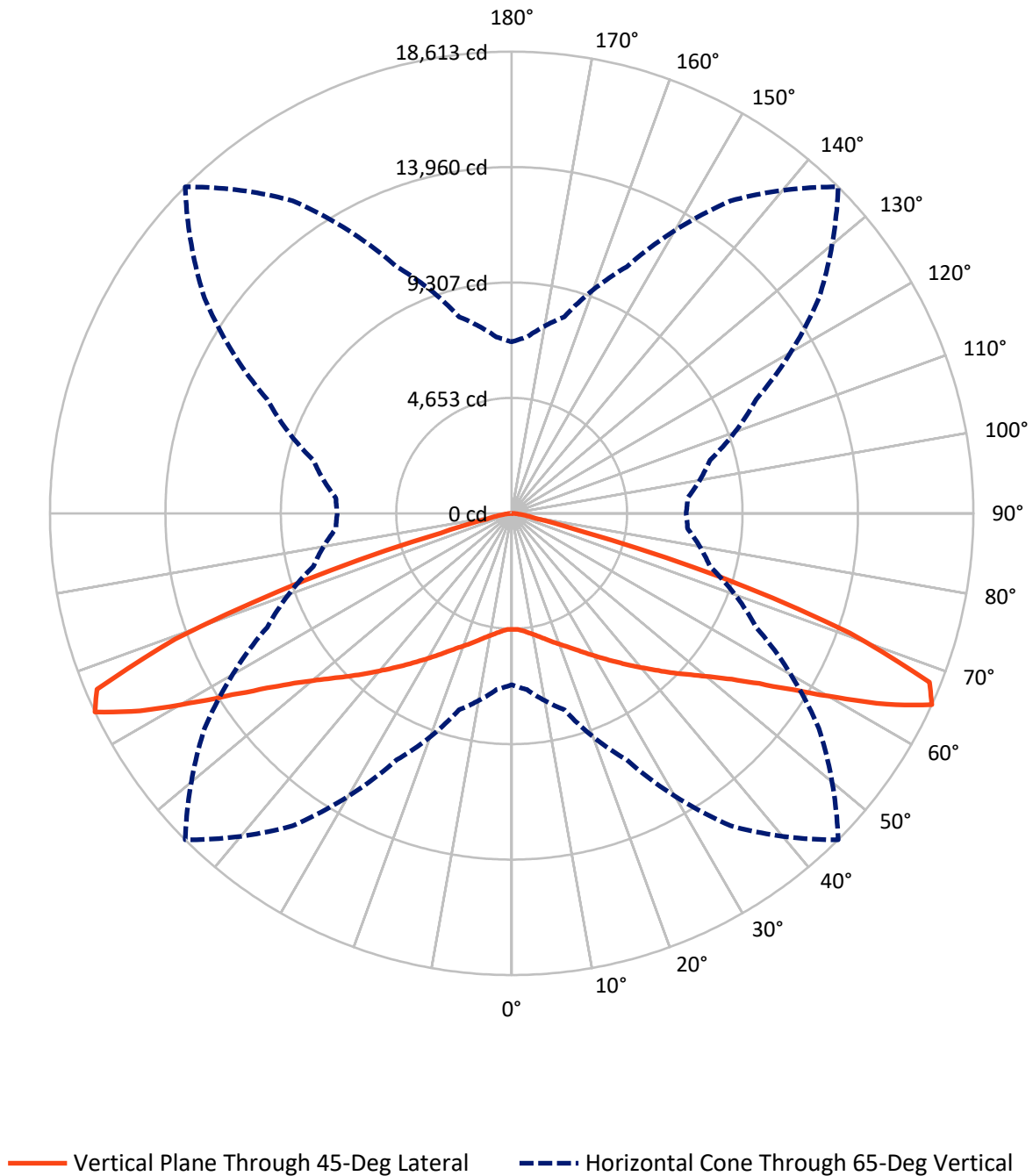
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19680.5	0.0	19680.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19680.5	0.0	19680.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39361.0	0.0	39361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.3	1.2
10°-20°	1508.5	3.8
20°-30°	2848.3	7.2
30°-40°	4663.9	11.8
40°-50°	7231.5	18.4
50°-60°	10682.4	27.1
60°-70°	10168.6	25.8
70°-80°	1640.8	4.2
80°-90°	154.7	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°	39361.0	100.0
0°-180°	39361.0	100.0

Coefficient of Utilization



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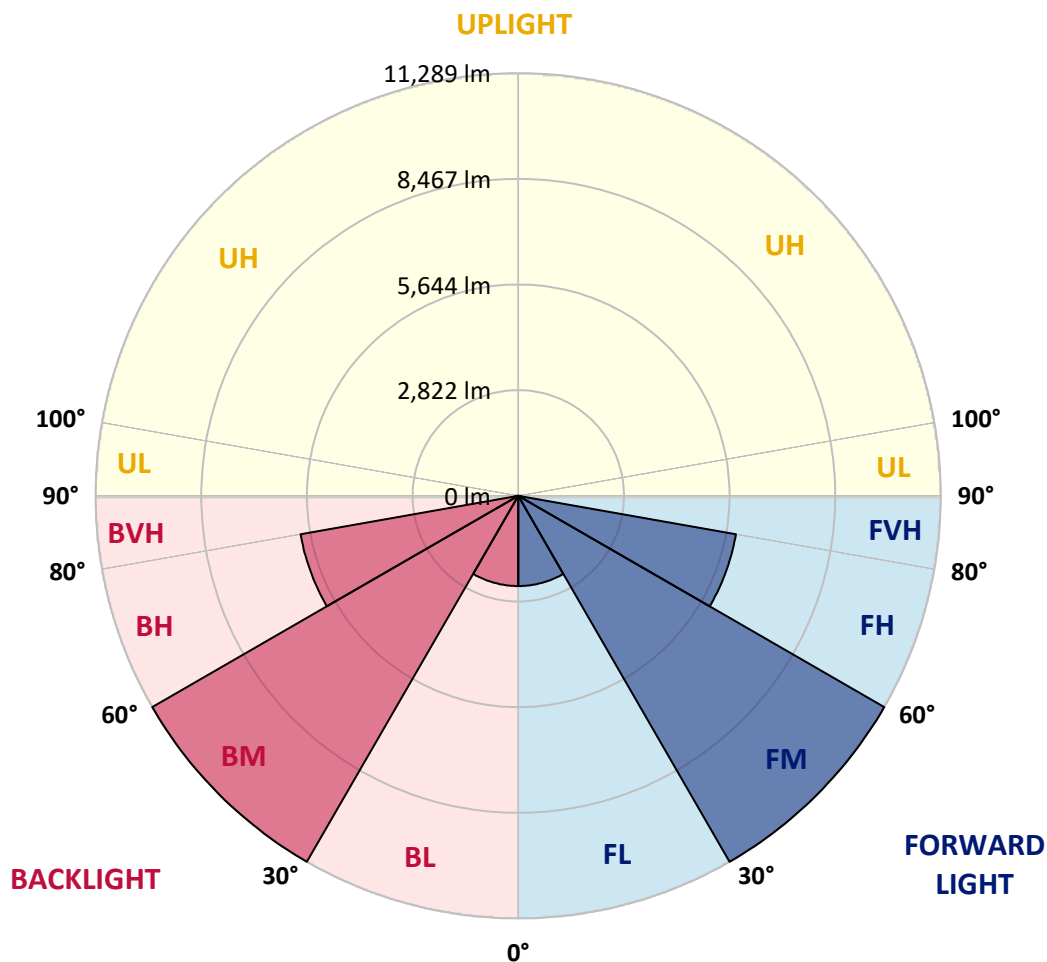
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2409.5	6.1			
FM	(30°-60°)	11288.9	28.7			
FH	(60°-80°)	5904.7	15.0			G3/7500
FVH	(80°-90°)	77.3	0.2			G1/100
BL	(0°-30°)	2409.5	6.1	B3/2500		
BM	(30°-60°)	11288.9	28.7	B5		
BH	(60°-80°)	5904.7	15.0	B5		G3/7500
BVH	(80°-90°)	77.3	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°	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4
2.5°	4715.9	4700.1	4712.0	4702.1	4694.2	4686.3	4690.3	4704.1	4710.1	4712.0	4712.0
5°	4779.2	4765.3	4771.3	4771.3	4757.4	4753.4	4755.5	4765.3	4777.2	4777.2	4777.2
7.5°	4881.9	4868.0	4881.9	4874.0	4862.1	4858.2	4856.1	4864.0	4881.9	4881.9	4875.9
10°	5006.3	4990.4	4998.3	4994.4	4980.6	4974.6	4972.7	4984.6	5000.4	4998.3	4994.4
12.5°	5142.5	5124.8	5134.6	5122.7	5118.8	5112.9	5112.9	5111.0	5120.8	5112.9	5116.8
15°	5294.5	5282.7	5286.6	5278.7	5284.7	5280.8	5264.9	5257.0	5261.0	5249.1	5251.2
17.5°	5474.3	5446.6	5460.5	5456.5	5456.5	5464.4	5438.8	5428.9	5436.8	5424.9	5434.8
20°	5681.7	5654.0	5659.9	5652.1	5642.1	5650.1	5618.4	5626.3	5632.3	5624.4	5642.1
22.5°	5908.7	5873.2	5871.2	5875.2	5853.5	5855.4	5833.7	5853.5	5865.4	5843.6	5865.4
25°	6141.8	6104.3	6129.9	6120.1	6092.4	6098.3	6082.6	6102.3	6112.2	6084.5	6116.2
27.5°	6388.6	6363.0	6386.7	6392.6	6359.0	6382.8	6359.0	6376.8	6386.7	6345.2	6376.8
30°	6677.0	6651.3	6673.1	6688.8	6649.4	6686.9	6667.1	6679.0	6681.0	6631.5	6661.2
32.5°	6991.0	6951.4	7006.8	7014.7	6971.2	7016.6	6991.0	7006.8	7016.6	6949.5	6994.9
35°	7374.2	7324.8	7387.9	7378.1	7340.5	7378.1	7354.4	7378.1	7401.7	7320.8	7370.2
37.5°	7786.8	7735.5	7802.6	7784.9	7749.3	7775.0	7761.2	7777.0	7814.5	7727.6	7780.9
40°	8241.1	8177.9	8268.7	8237.1	8203.6	8199.6	8207.5	8217.3	8266.7	8170.0	8201.5
42.5°	8726.8	8659.7	8796.0	8746.6	8699.3	8667.6	8693.3	8713.0	8760.5	8651.8	8709.1
45°	9281.8	9204.8	9382.5	9323.3	9248.3	9183.1	9224.6	9254.2	9323.3	9192.9	9260.1
47.5°	9894.0	9807.1	9996.7	9979.0	9856.5	9714.3	9809.1	9894.0	9945.4	9787.4	9840.7
50°	10492.4	10425.3	10674.0	10695.8	10545.7	10346.2	10478.6	10606.9	10620.7	10413.4	10439.1
52.5°	11053.3	10986.2	11347.5	11483.8	11349.5	11112.5	11252.8	11383.0	11278.4	11009.8	11017.7
55°	11501.5	11446.3	11906.4	12258.0	12303.4	12107.8	12190.7	12186.8	11843.2	11430.5	11444.3
57.5°	11610.2	11602.3	12182.8	12927.4	13401.4	13425.0	13261.1	12842.4	12101.9	11546.9	11511.5
60°	11116.4	11165.8	11963.7	13276.9	14540.9	15066.2	14357.2	13162.4	11807.7	11037.5	10946.6
62.5°	9639.3	9769.6	10731.3	12850.4	15461.1	16954.1	15236.0	12676.6	10599.0	9593.8	9534.6
65°	6908.1	7135.1	8197.6	10966.4	15378.2	18613.0	15109.6	10877.5	8276.6	7117.4	7032.4
67.5°	3134.1	3365.2	4267.7	7508.4	13367.7	18162.7	13336.2	7587.4	4481.0	3377.0	3327.7
70°	1135.5	1175.1	1465.3	3005.7	8543.3	14471.8	8908.6	3027.4	1558.2	1252.0	1236.3
72.5°	687.3	693.2	754.4	1076.2	2968.2	8786.1	3094.6	1111.8	770.2	683.3	695.2
75°	436.4	432.4	537.2	657.6	1052.6	2964.3	1103.9	657.6	535.2	487.8	491.7
77.5°	314.0	323.9	385.1	491.7	663.6	1005.2	651.7	470.1	385.1	316.0	322.0
80°	235.0	241.0	280.4	383.1	466.1	626.1	414.7	347.6	290.3	197.5	203.4
82.5°	169.8	169.8	183.7	278.5	284.3	337.7	225.1	244.9	191.6	140.2	140.2
85°	100.8	98.7	114.5	165.8	148.1	124.4	102.7	150.1	120.4	86.9	84.9
87.5°	35.6	37.5	35.6	47.4	39.5	33.6	31.6	41.5	33.6	29.6	27.7
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)