

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: P959964

Luminaire Tested: **NAV-SB1B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959964
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-SB1B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

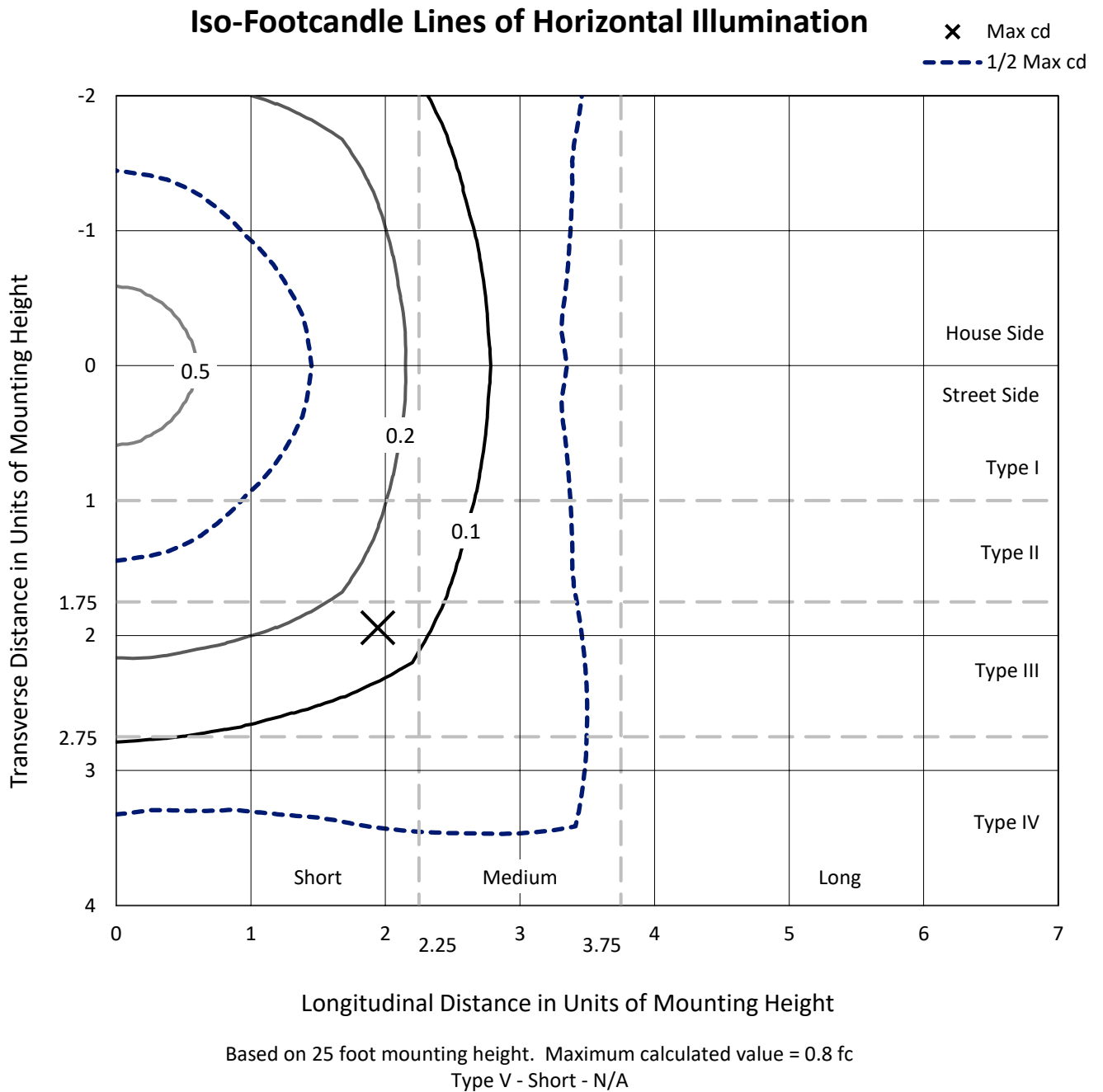
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 39.8
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

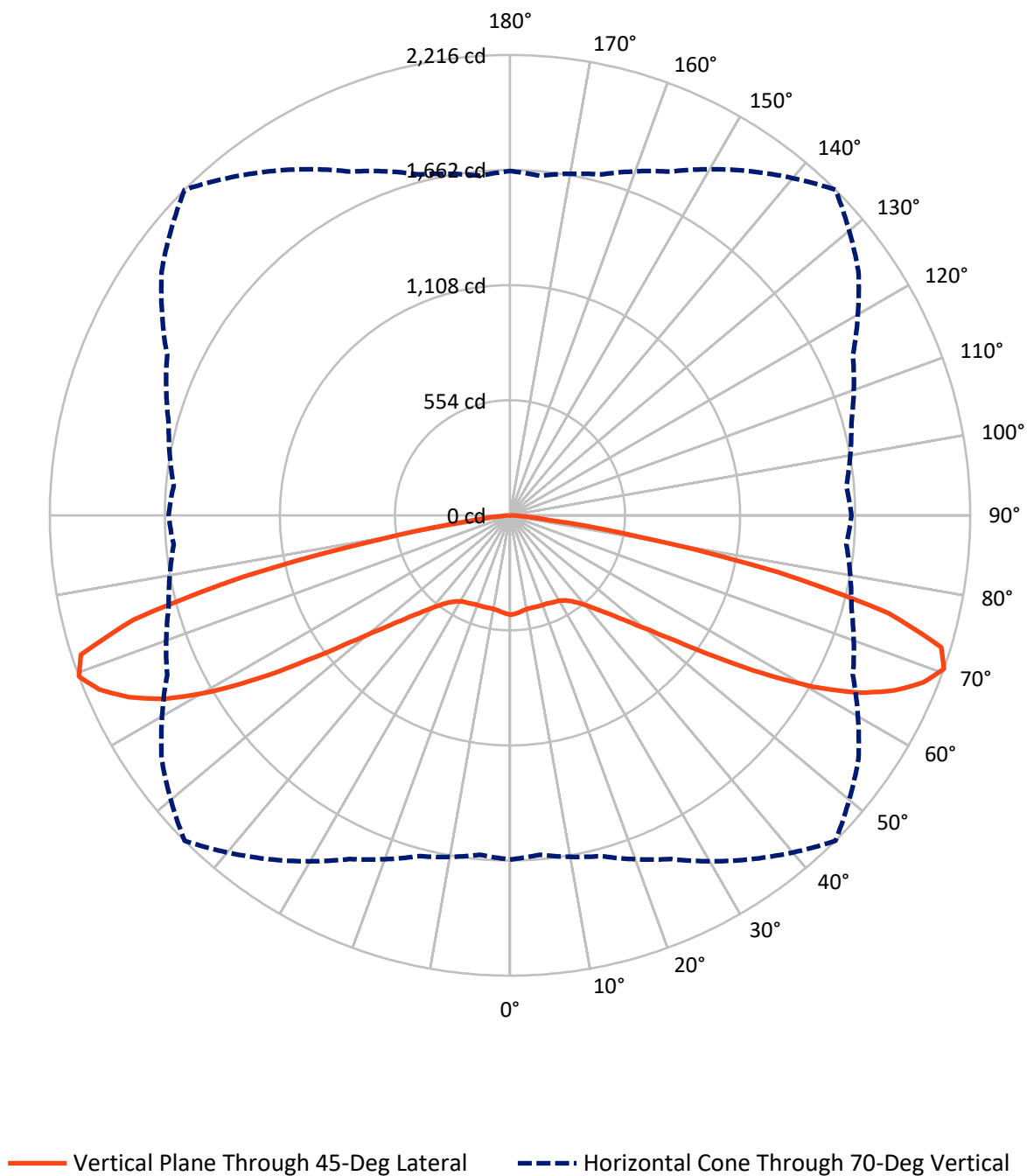


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2624.0	0.0	2624.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2624.0	0.0	2624.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5248.0	0.0	5248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	0.8
10°-20°	130.8	2.5
20°-30°	217.6	4.1
30°-40°	329.1	6.3
40°-50°	546.9	10.4
50°-60°	1031.9	19.7
60°-70°	1742.4	33.2
70°-80°	1144.9	21.8
80°-90°	60.0	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°	5248.0	100.0
0°-180°	5248.0	100.0

Coefficient of Utilization



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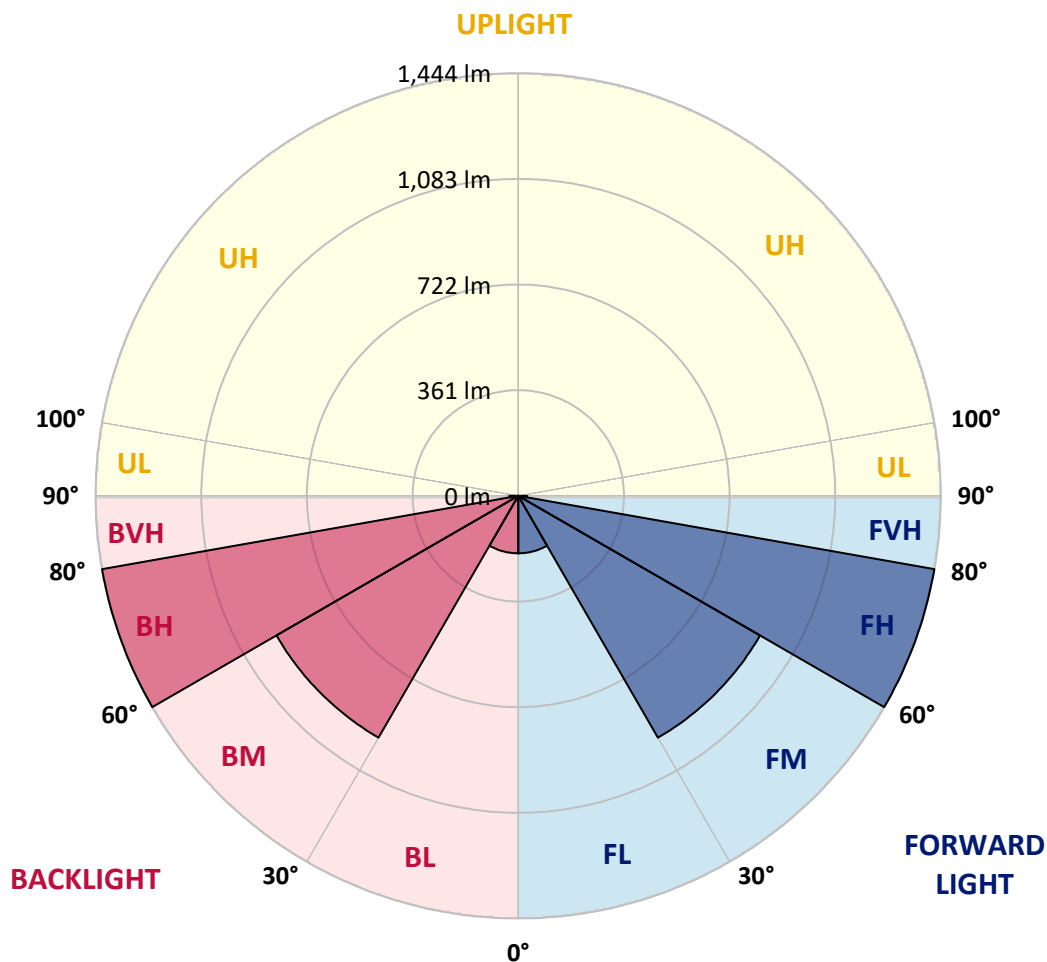
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.4	3.7			
FM	(30°-60°)	953.9	18.2			
FH	(60°-80°)	1443.7	27.5			G1/1800
FVH	(80°-90°)	30.0	0.6			G1/100
BL	(0°-30°)	196.4	3.7	B1/500		
BM	(30°-60°)	953.9	18.2	B1/1000		
BH	(60°-80°)	1443.7	27.5	B3/2500		G1/1800
BVH	(80°-90°)	30.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7
2.5°	475.7	477.1	476.5	475.5	475.5	474.7	475.5	476.0	476.8	477.3	477.1
5°	469.4	470.6	470.3	469.4	469.8	468.9	469.4	470.3	470.8	471.1	471.1
7.5°	464.0	465.0	464.5	463.2	463.2	462.4	462.6	463.4	464.2	464.5	464.5
10°	462.6	463.7	462.1	459.9	459.1	458.0	458.3	459.1	460.7	461.6	461.6
12.5°	463.2	464.0	462.4	459.1	458.3	457.2	457.2	458.0	460.2	461.2	461.6
15°	464.8	465.7	463.2	459.6	458.8	458.0	457.8	458.8	461.2	463.2	463.4
17.5°	467.8	468.6	464.8	459.9	458.8	459.1	458.8	459.6	463.4	467.0	467.0
20°	470.6	471.1	465.9	459.9	458.8	459.1	458.8	460.4	465.4	470.3	470.6
22.5°	471.4	471.9	467.0	461.8	460.9	461.2	460.9	462.6	467.3	472.2	472.2
25°	471.6	472.4	468.6	464.5	465.9	466.5	465.9	466.2	469.8	474.1	473.9
27.5°	475.7	476.8	473.2	469.8	470.6	470.3	471.1	471.9	474.7	479.0	477.9
30°	484.2	485.0	482.0	478.5	477.9	476.0	478.5	481.1	484.2	488.0	487.2
32.5°	498.0	499.7	495.9	492.1	489.6	488.5	490.5	495.1	499.2	503.3	501.6
35°	521.3	522.3	518.9	511.7	507.4	507.4	509.0	515.0	521.5	526.7	524.8
37.5°	554.0	555.3	549.1	540.7	534.1	534.1	536.3	542.5	552.4	559.8	557.0
40°	593.9	595.7	587.8	579.1	572.9	571.7	574.5	581.6	590.8	600.1	597.1
42.5°	641.9	644.0	633.7	626.1	621.2	621.2	622.5	629.0	637.4	648.9	648.1
45°	703.3	707.0	692.9	685.2	680.6	681.6	682.4	688.2	695.9	709.0	708.4
47.5°	776.3	780.1	765.2	757.3	756.4	761.6	758.3	762.4	766.5	781.5	777.2
50°	859.3	865.8	855.5	854.8	856.5	866.0	858.4	860.6	856.0	865.5	859.8
52.5°	960.7	970.3	968.3	971.6	989.9	1009.5	992.1	984.4	967.0	970.0	959.9
55°	1083.7	1098.2	1101.0	1120.5	1162.0	1202.1	1165.0	1134.2	1097.1	1090.3	1079.6
57.5°	1223.6	1235.1	1248.2	1288.3	1365.8	1436.9	1365.8	1297.6	1239.2	1225.3	1215.4
60°	1374.2	1388.5	1401.0	1460.2	1575.3	1675.4	1573.1	1464.8	1387.6	1368.8	1352.4
62.5°	1536.0	1554.3	1563.0	1628.7	1763.0	1882.4	1764.8	1633.6	1548.1	1527.9	1511.5
65°	1691.2	1706.2	1716.1	1786.2	1914.4	2034.1	1923.1	1793.7	1705.7	1679.3	1666.1
67.5°	1763.5	1771.7	1795.7	1875.0	2010.3	2147.1	2033.3	1883.5	1785.0	1738.7	1739.2
70°	1657.6	1641.0	1698.8	1825.9	2021.8	2216.4	2048.1	1822.1	1701.6	1626.3	1644.3
72.5°	1280.9	1252.3	1352.7	1570.1	1890.9	2172.1	1903.9	1582.4	1415.1	1262.4	1300.3
75°	696.9	664.5	803.1	1078.0	1507.9	1882.7	1542.5	1108.8	894.2	691.8	736.8
77.5°	196.7	184.4	296.2	521.5	907.0	1321.8	941.9	533.0	351.4	208.4	231.5
80°	60.3	58.4	79.1	157.1	385.2	633.1	370.1	159.1	100.7	63.6	67.1
82.5°	35.8	32.7	39.3	57.3	98.2	198.8	95.4	59.8	48.0	32.2	35.0
85°	20.5	19.1	23.2	27.8	33.0	42.2	27.6	28.4	25.6	17.2	18.0
87.5°	8.4	7.7	9.0	8.7	7.7	9.8	7.4	8.7	10.4	6.9	6.3
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)