

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: P959437

Luminaire Tested: **NAV-SB1A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959437
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-SB1A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4179.9 lumens
Efficiency: N/A
Efficacy: 135.3 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): 30.9
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



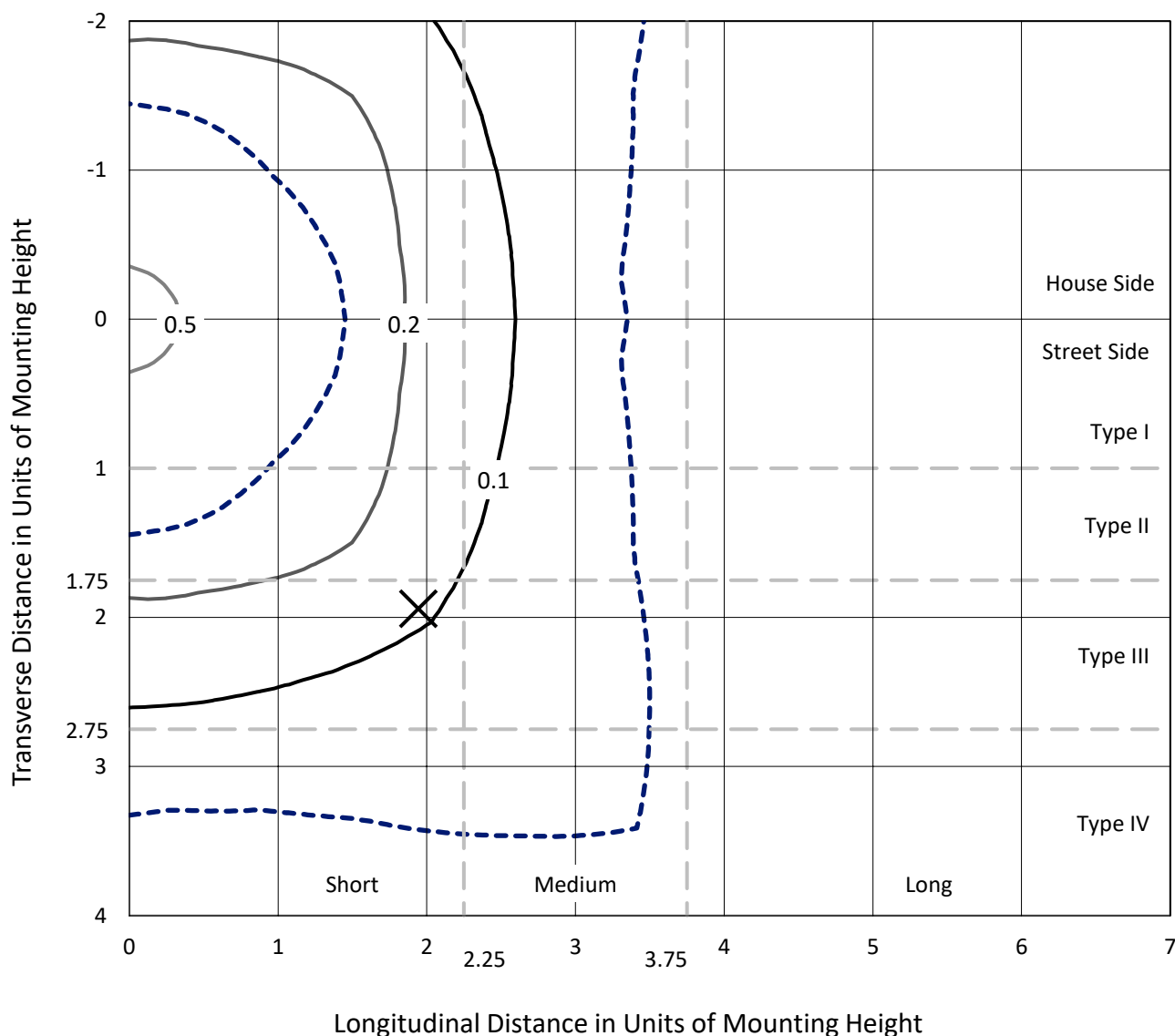
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

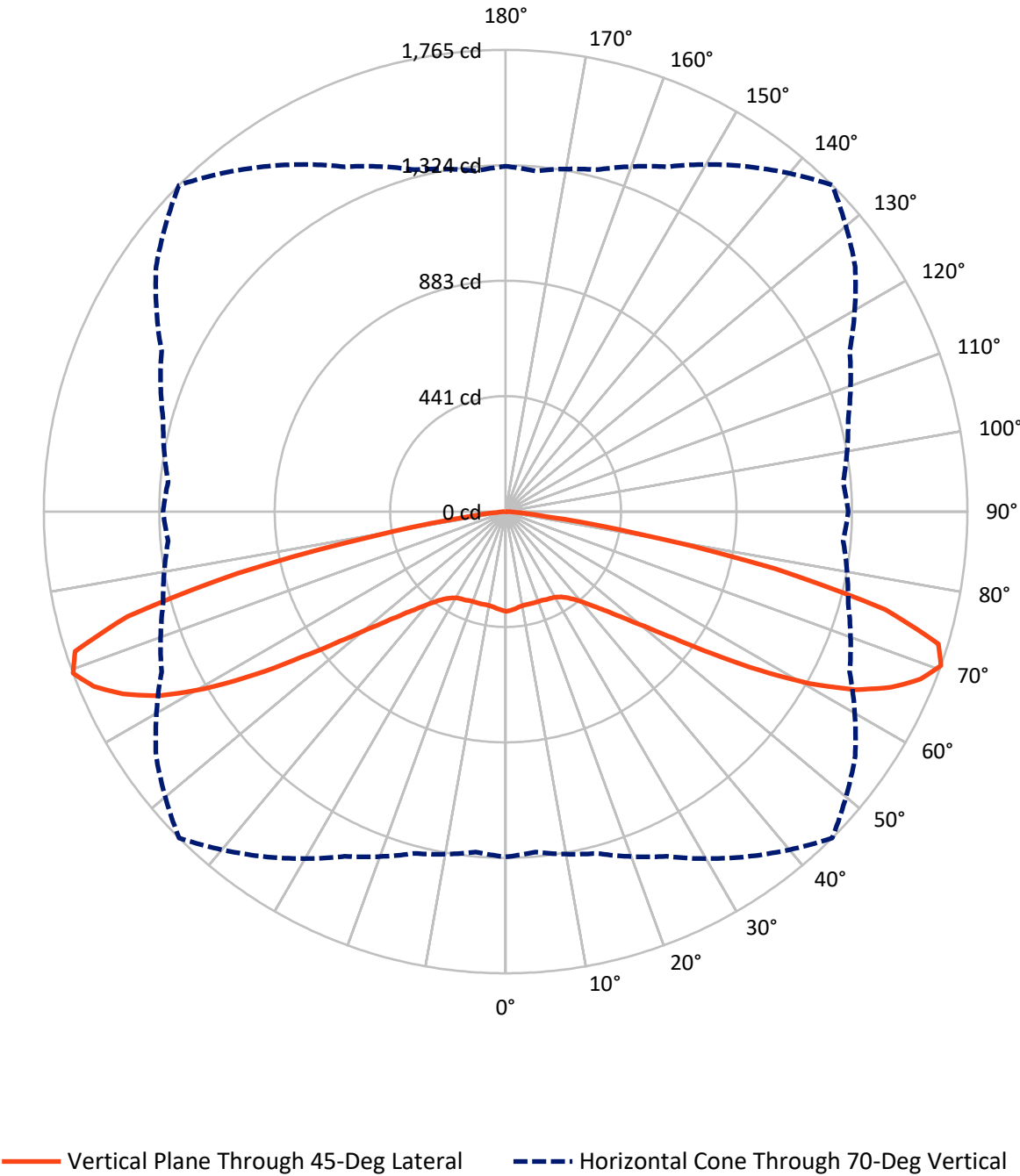


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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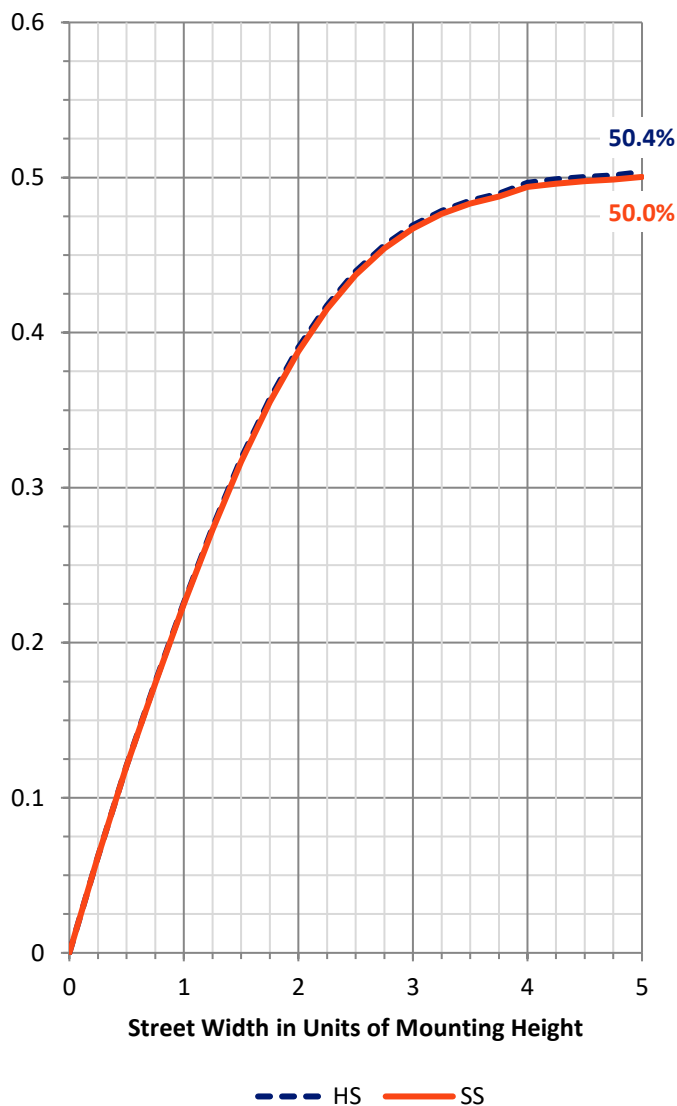
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2090.0	0.0	2090.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2090.0	0.0	2090.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4179.9	0.0	4179.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	0.8
10°-20°	104.1	2.5
20°-30°	173.3	4.1
30°-40°	262.1	6.3
40°-50°	435.6	10.4
50°-60°	821.9	19.7
60°-70°	1387.8	33.2
70°-80°	911.9	21.8
80°-90°	47.8	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°	4179.9	100.0
0°-180°	4179.9	100.0

Coefficient of Utilization



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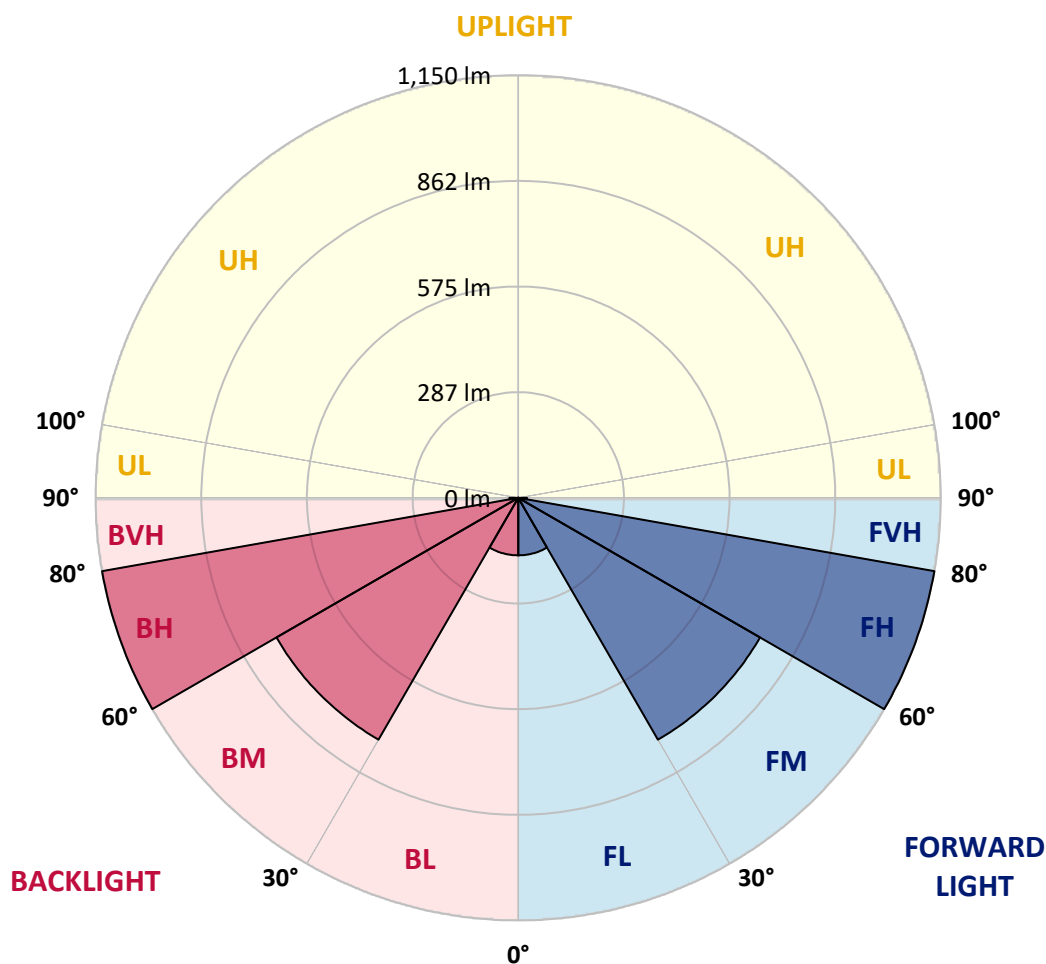
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.5	3.7			
FM	(30°-60°)	759.8	18.2			
FH	(60°-80°)	1149.9	27.5			G1/1800
FVH	(80°-90°)	23.9	0.6			G1/100
BL	(0°-30°)	156.5	3.7	B1/500		
BM	(30°-60°)	759.8	18.2	B1/1000		
BH	(60°-80°)	1149.9	27.5	B3/2500		G1/1800
BVH	(80°-90°)	23.9	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°	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3
2.5°	378.9	380.0	379.6	378.7	378.7	378.0	378.7	379.1	379.8	380.2	380.0
5°	373.9	374.7	374.5	373.9	374.1	373.5	373.9	374.5	374.9	375.3	375.3
7.5°	369.5	370.4	370.0	368.9	368.9	368.3	368.5	369.1	369.8	370.0	370.0
10°	368.5	369.3	368.1	366.3	365.6	364.8	365.0	365.6	367.0	367.6	367.6
12.5°	368.9	369.5	368.3	365.6	365.0	364.2	364.2	364.8	366.5	367.4	367.6
15°	370.2	370.8	368.9	366.1	365.4	364.8	364.6	365.4	367.4	368.9	369.1
17.5°	372.6	373.3	370.2	366.3	365.4	365.6	365.4	366.1	369.1	372.0	372.0
20°	374.7	375.3	371.0	366.3	365.4	365.6	365.4	366.7	370.6	374.5	374.7
22.5°	375.5	375.9	372.0	367.9	367.2	367.4	367.2	368.5	372.2	376.1	376.1
25°	375.7	376.3	373.3	370.0	371.0	371.6	371.0	371.3	374.1	377.6	377.4
27.5°	378.9	379.8	377.0	374.1	374.7	374.5	375.3	375.9	378.0	381.5	380.7
30°	385.6	386.3	383.9	381.1	380.7	379.1	381.1	383.2	385.6	388.7	388.1
32.5°	396.7	398.0	394.9	392.0	390.0	389.1	390.6	394.3	397.6	400.9	399.5
35°	415.2	416.0	413.3	407.5	404.2	404.2	405.4	410.2	415.4	419.5	418.0
37.5°	441.3	442.4	437.4	430.6	425.4	425.4	427.1	432.1	439.9	445.8	443.6
40°	472.9	474.5	468.2	461.2	456.2	455.4	457.6	463.2	470.6	478.0	475.6
42.5°	511.2	512.9	504.7	498.7	494.7	494.7	495.8	501.0	507.8	516.9	516.2
45°	560.1	563.1	551.9	545.8	542.0	542.9	543.6	548.2	554.2	564.7	564.3
47.5°	618.3	621.4	609.5	603.1	602.5	606.6	604.0	607.2	610.5	622.5	619.0
50°	684.4	689.6	681.3	680.9	682.2	689.8	683.7	685.4	681.7	689.4	684.8
52.5°	765.2	772.8	771.3	773.9	788.4	804.1	790.2	784.1	770.2	772.5	764.5
55°	863.2	874.7	876.9	892.5	925.6	957.5	927.9	903.3	873.8	868.4	860.0
57.5°	974.7	983.8	994.1	1026.1	1087.8	1144.5	1087.8	1033.5	987.0	975.9	968.1
60°	1094.6	1105.9	1115.8	1163.0	1254.7	1334.4	1253.0	1166.7	1105.3	1090.2	1077.2
62.5°	1223.4	1238.0	1245.0	1297.2	1404.1	1499.4	1405.7	1301.1	1233.0	1216.9	1203.9
65°	1347.1	1358.9	1366.8	1422.6	1524.8	1620.1	1531.7	1428.7	1358.5	1337.4	1327.1
67.5°	1404.6	1411.1	1430.3	1493.4	1601.3	1710.1	1619.5	1500.2	1421.8	1384.9	1385.3
70°	1320.3	1307.1	1353.1	1454.4	1610.4	1765.3	1631.2	1451.3	1355.3	1295.3	1309.6
72.5°	1020.3	997.4	1077.4	1250.6	1506.0	1730.1	1516.5	1260.3	1127.2	1005.5	1035.7
75°	555.1	529.2	639.6	858.6	1201.0	1499.6	1228.7	883.1	712.2	550.9	586.8
77.5°	156.6	146.9	236.0	415.4	722.4	1052.9	750.2	424.6	279.8	165.9	184.5
80°	48.0	46.5	63.0	125.2	306.8	504.3	294.8	126.7	80.2	50.6	53.4
82.5°	28.5	26.0	31.3	45.6	78.2	158.4	76.1	47.6	38.2	25.6	27.8
85°	16.3	15.2	18.4	22.1	26.2	33.7	21.9	22.5	20.4	13.7	14.3
87.5°	6.8	6.0	7.2	7.0	6.0	7.8	5.8	7.0	8.3	5.4	5.0
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)