

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: P959311

Luminaire Tested: **NAV-SB1A-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5096.3 lumens
Efficiency: N/A
Efficacy: 164.9 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

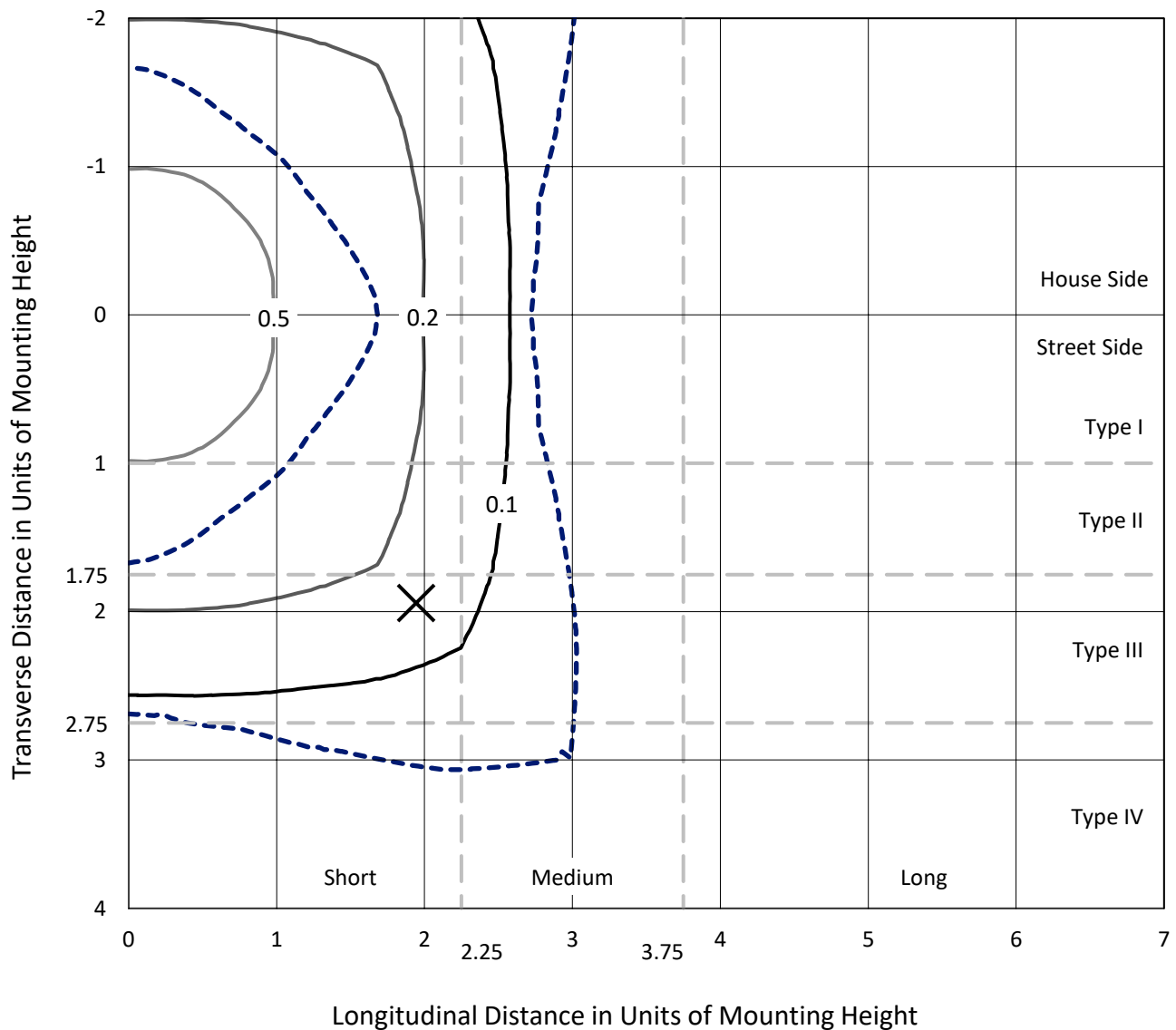
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

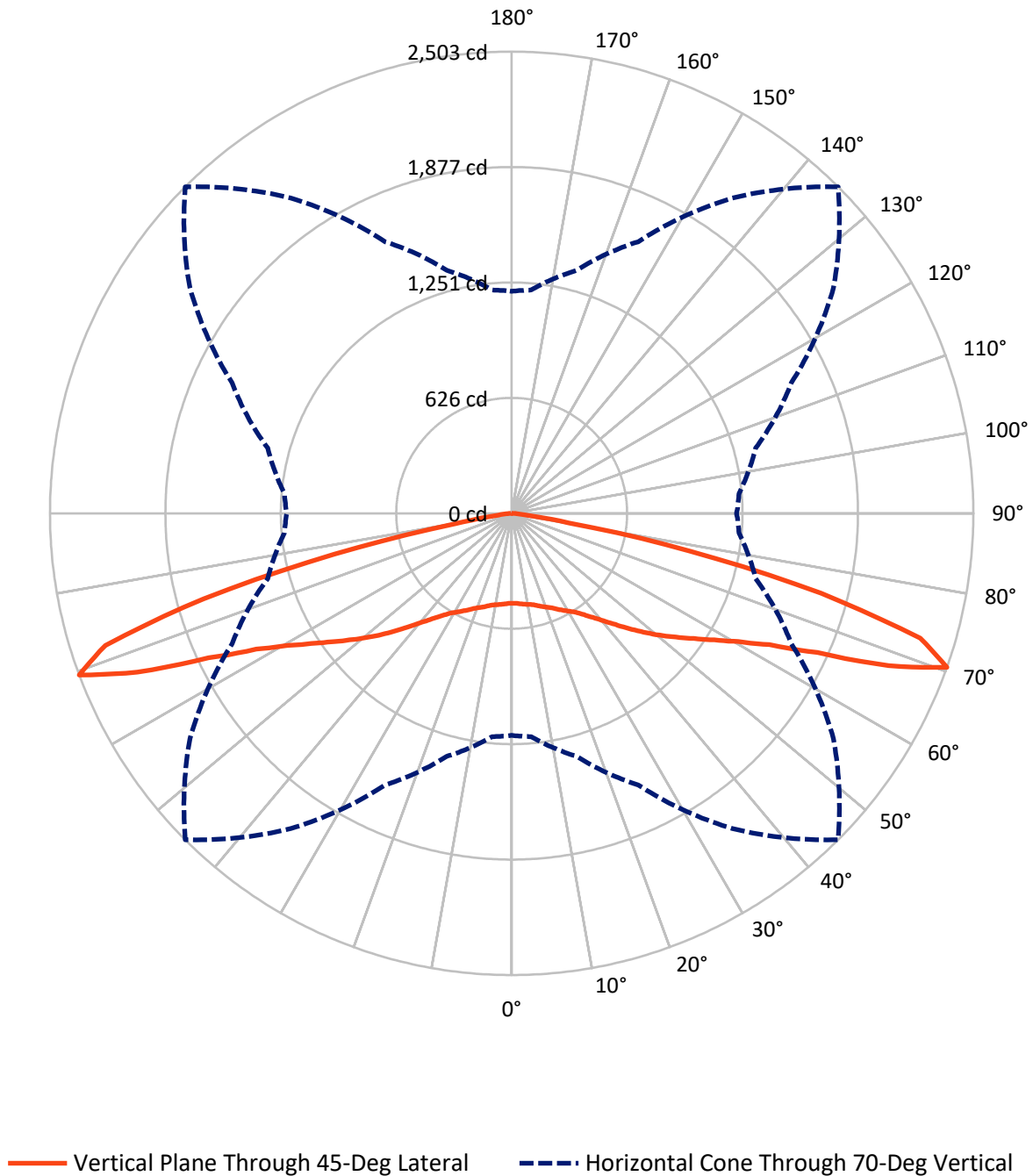
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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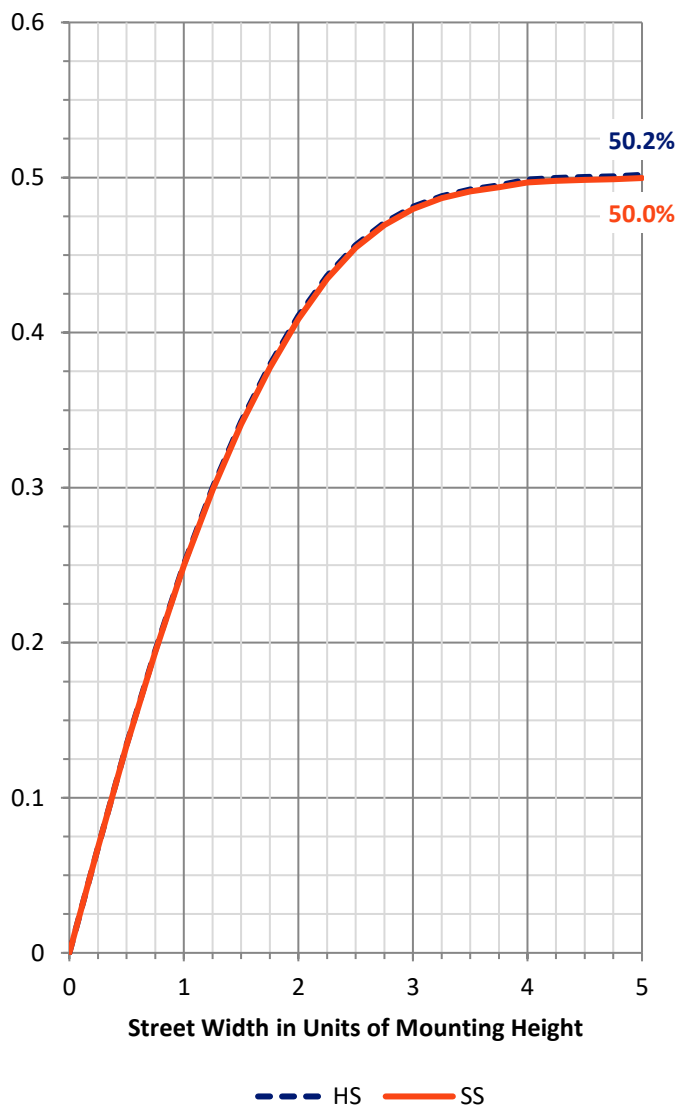
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2548.1	0.0	2548.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2548.1	0.0	2548.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5096.3	0.0	5096.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.9
10°-20°	147.1	2.9
20°-30°	262.8	5.2
30°-40°	426.0	8.4
40°-50°	693.9	13.6
50°-60°	1058.0	20.8
60°-70°	1574.0	30.9
70°-80°	857.9	16.8
80°-90°	29.2	0.6
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°	5096.3	100.0
0°-180°	5096.3	100.0

Coefficient of Utilization



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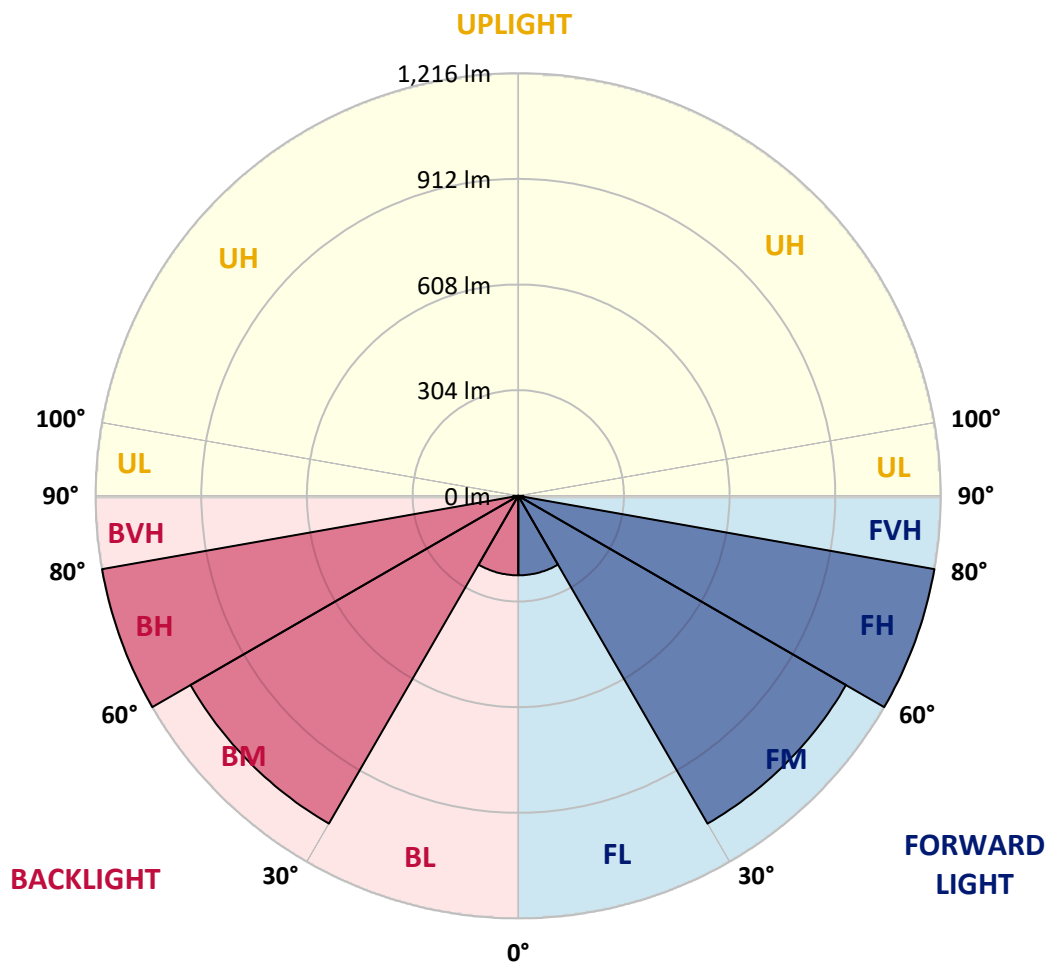
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.7	4.5			
FM	(30°-60°)	1089.0	21.4			
FH	(60°-80°)	1215.9	23.9			G1/1800
FVH	(80°-90°)	14.6	0.3			G1/100
BL	(0°-30°)	228.7	4.5	B1/500		
BM	(30°-60°)	1089.0	21.4	B2/2500		
BH	(60°-80°)	1215.9	23.9	B3/2500		G1/1800
BVH	(80°-90°)	14.6	0.3			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°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2
2.5°	490.5	491.0	489.9	489.4	488.9	488.2	488.4	489.7	490.8	490.5	490.8
5°	494.6	495.1	494.4	494.0	493.0	492.8	492.8	494.0	494.9	494.4	494.6
7.5°	499.2	499.9	498.7	498.5	497.9	497.4	497.1	498.5	499.2	499.2	499.2
10°	503.5	504.3	503.3	502.5	501.9	501.9	501.4	502.5	503.8	503.5	503.5
12.5°	508.1	508.6	507.6	507.1	507.1	507.9	507.1	507.6	508.6	508.1	507.9
15°	513.7	514.0	513.7	514.6	515.8	518.3	516.1	515.6	516.1	514.8	514.8
17.5°	521.4	521.9	523.0	524.8	526.5	531.2	527.1	525.8	525.8	523.3	523.3
20°	530.9	531.7	533.2	536.3	538.5	542.9	538.8	537.0	536.3	532.9	532.9
22.5°	540.9	542.1	544.5	548.6	552.7	556.8	552.7	549.6	547.2	542.9	542.6
25°	552.4	553.9	557.5	564.2	569.8	575.6	570.8	564.7	560.1	553.9	553.7
27.5°	568.8	570.5	574.9	583.1	590.3	595.4	590.8	582.8	576.5	569.0	568.8
30°	591.8	593.6	598.7	607.4	612.2	615.6	612.5	606.4	598.7	590.3	590.3
32.5°	621.5	623.8	629.5	637.6	638.6	639.1	638.1	635.0	629.5	619.2	619.4
35°	659.1	661.6	668.0	674.7	673.6	674.7	673.1	672.1	668.0	656.3	656.3
37.5°	705.1	708.2	714.8	720.0	717.4	716.2	716.4	716.7	714.3	701.3	701.3
40°	758.6	762.7	767.5	773.0	768.5	764.8	767.3	769.4	767.3	754.0	754.0
42.5°	813.6	819.5	824.6	832.3	828.7	823.9	827.5	829.7	825.4	811.1	812.1
45°	874.7	880.4	887.0	898.5	896.1	890.9	896.1	896.6	889.1	872.2	874.0
47.5°	938.0	943.8	953.9	969.1	968.1	962.6	969.1	965.6	956.1	935.9	934.6
50°	997.8	1006.0	1021.4	1042.8	1044.9	1038.0	1046.9	1040.1	1024.2	998.9	998.4
52.5°	1054.1	1062.8	1087.1	1116.3	1123.7	1114.8	1126.8	1114.8	1091.0	1058.5	1055.4
55°	1113.3	1123.0	1151.9	1190.0	1204.8	1198.1	1209.4	1191.3	1157.5	1118.1	1112.7
57.5°	1182.8	1188.7	1223.2	1268.5	1293.7	1295.2	1300.2	1269.6	1228.7	1183.9	1177.7
60°	1258.3	1266.5	1304.1	1358.3	1398.0	1410.8	1405.4	1359.9	1312.3	1260.9	1252.7
62.5°	1355.0	1364.0	1409.0	1473.9	1536.7	1568.4	1547.4	1481.4	1422.6	1360.9	1350.1
65°	1435.1	1445.0	1526.4	1642.4	1756.4	1820.2	1767.4	1645.9	1540.0	1453.0	1438.7
67.5°	1377.0	1389.3	1517.0	1729.8	2013.6	2203.6	2023.4	1755.9	1548.5	1430.5	1412.9
70°	1203.6	1215.0	1364.0	1624.2	2086.0	2502.5	2129.4	1672.0	1368.8	1236.8	1219.1
72.5°	799.0	836.1	986.9	1299.0	1862.6	2315.8	1881.1	1272.6	915.4	797.2	771.4
75°	265.1	294.8	397.6	673.4	1247.5	1731.8	1187.7	595.9	315.0	226.7	214.4
77.5°	66.7	77.0	106.2	192.7	497.6	986.0	448.0	157.3	85.7	59.9	53.5
80°	32.5	35.8	51.1	64.3	124.6	313.4	117.0	60.4	40.4	31.3	28.7
82.5°	17.9	18.1	28.9	36.3	46.3	81.1	48.1	35.3	23.3	19.0	19.0
85°	11.0	10.8	15.4	19.5	19.5	28.9	23.1	19.5	13.3	11.8	12.3
87.5°	4.3	4.3	5.6	6.1	5.3	7.4	5.8	6.4	5.1	4.8	5.1
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)