

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: P959436

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959436
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-SB1A-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4330.6 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

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

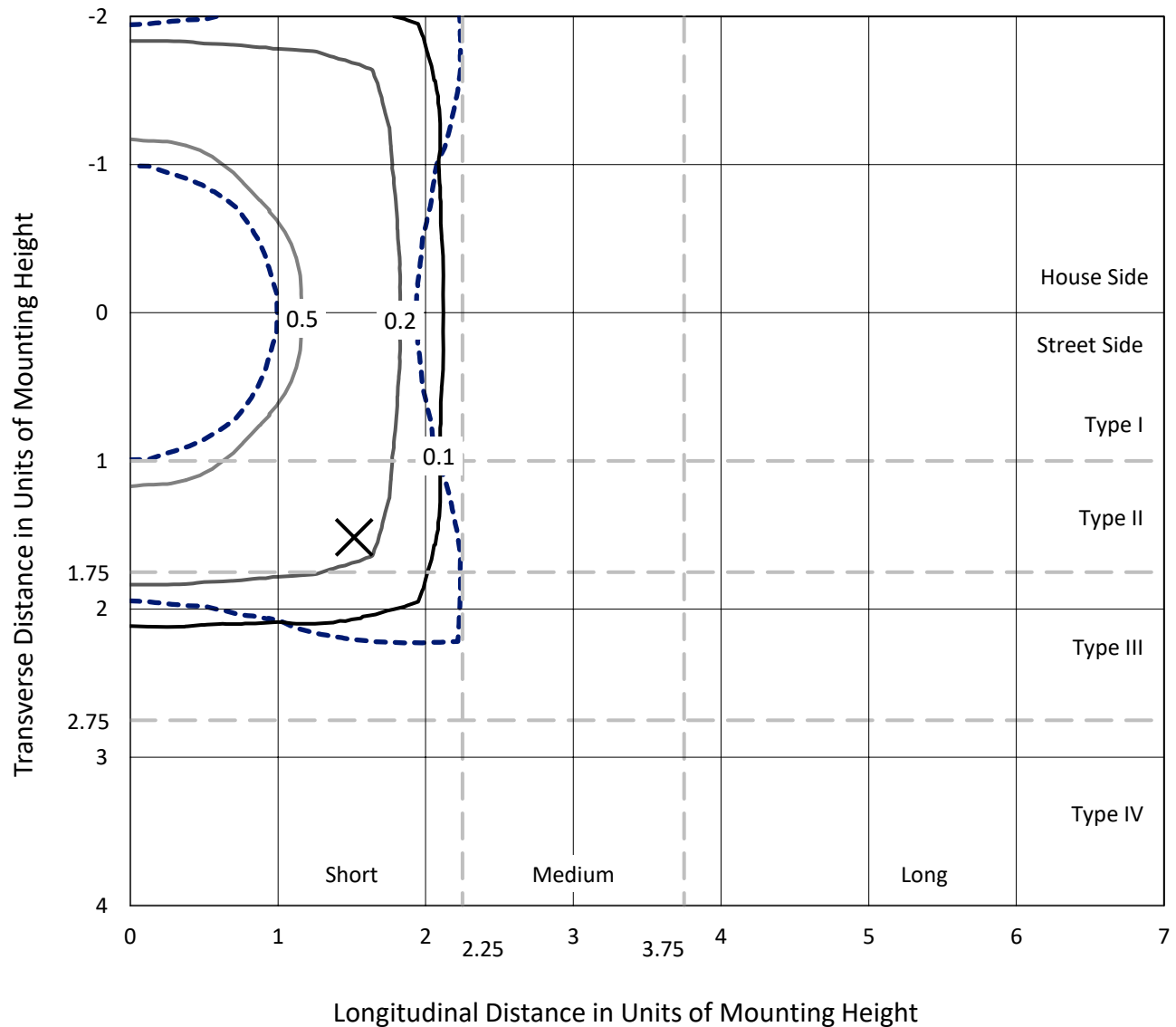


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Iso-Footcandle Lines of Horizontal Illumination

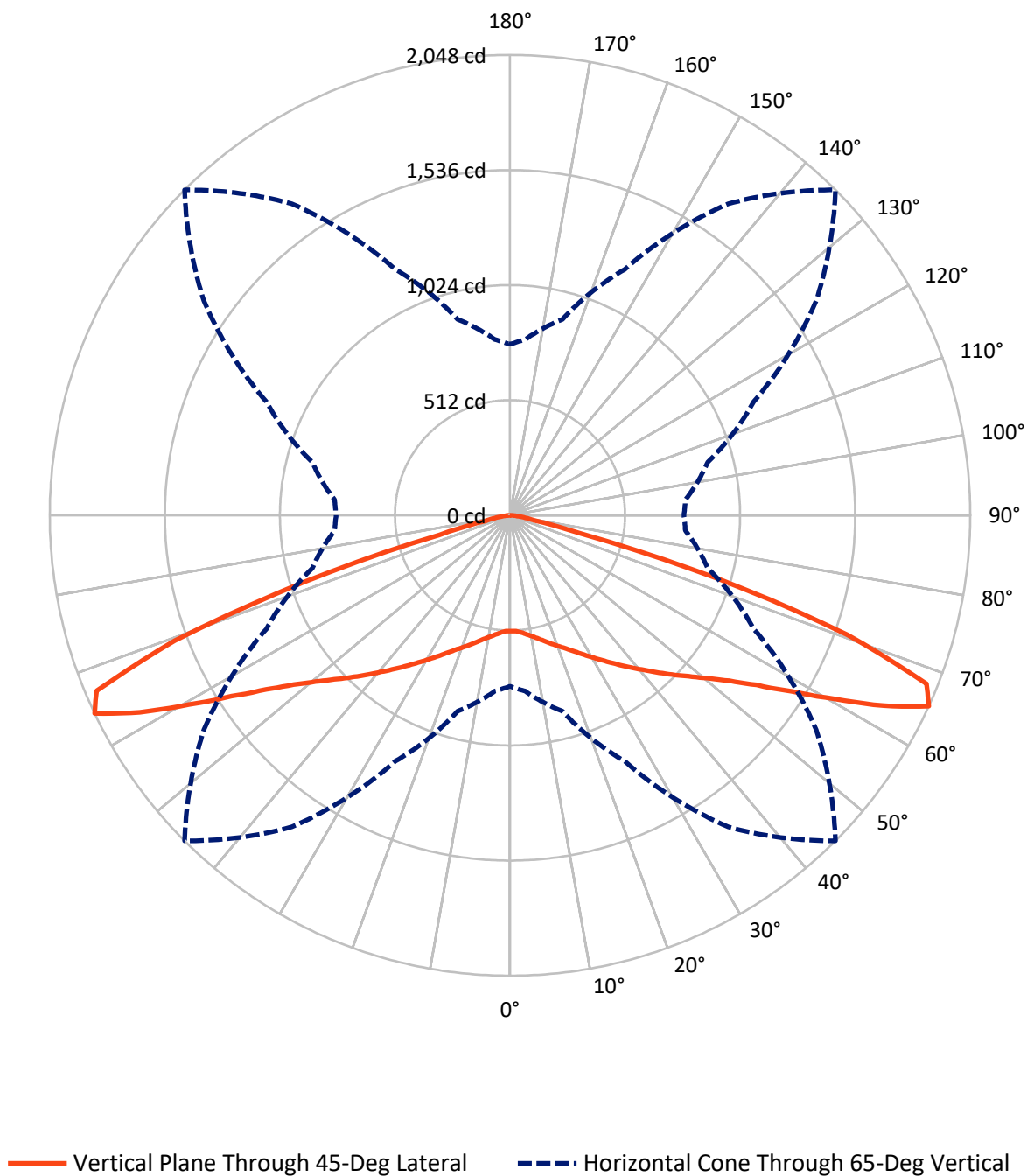
× Max cd
- - - 1/2 Max cd



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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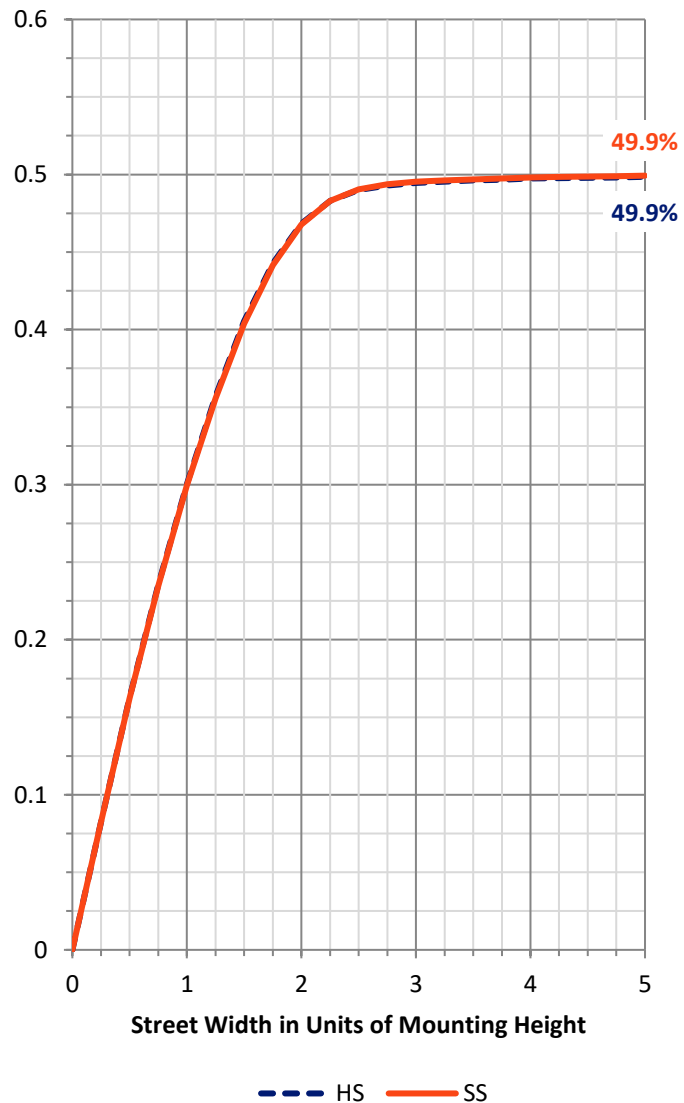
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.3	0.0	2165.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2165.3	0.0	2165.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4330.6	0.0	4330.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.2
10°-20°	166.0	3.8
20°-30°	313.4	7.2
30°-40°	513.1	11.8
40°-50°	795.6	18.4
50°-60°	1175.3	27.1
60°-70°	1118.8	25.8
70°-80°	180.5	4.2
80°-90°	17.0	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°	4330.6	100.0
0°-180°	4330.6	100.0

Coefficient of Utilization



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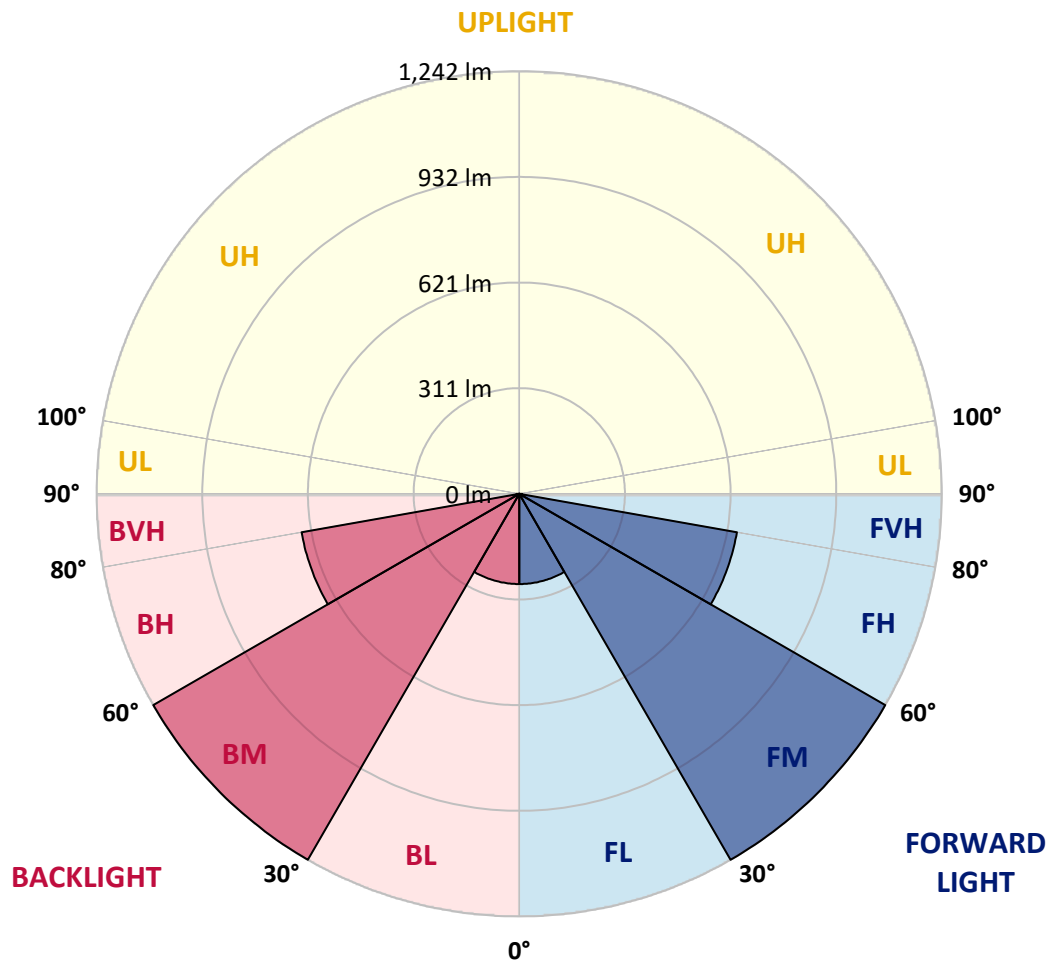
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.1	6.1			
FM	(30°-60°)	1242.0	28.7			
FH	(60°-80°)	649.7	15.0			G0/660
FVH	(80°-90°)	8.5	0.2			G0/10
BL	(0°-30°)	265.1	6.1	B1/500		
BM	(30°-60°)	1242.0	28.7	B2/2500		
BH	(60°-80°)	649.7	15.0	B2/1000		G0/660
BVH	(80°-90°)	8.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4
2.5°	518.9	517.1	518.4	517.3	516.5	515.6	516.1	517.5	518.2	518.4	518.4
5°	525.8	524.3	524.9	524.9	523.5	523.0	523.2	524.3	525.6	525.6	525.6
7.5°	537.1	535.6	537.1	536.3	534.9	534.5	534.3	535.2	537.1	537.1	536.5
10°	550.8	549.1	549.9	549.5	548.0	547.3	547.1	548.4	550.1	549.9	549.5
12.5°	565.8	563.9	564.9	563.6	563.2	562.5	562.5	562.3	563.4	562.5	562.9
15°	582.5	581.2	581.7	580.8	581.5	581.0	579.2	578.4	578.8	577.5	577.8
17.5°	602.3	599.2	600.8	600.3	600.3	601.2	598.4	597.3	598.2	596.9	598.0
20°	625.1	622.1	622.7	621.9	620.7	621.7	618.2	619.0	619.7	618.8	620.7
22.5°	650.1	646.2	646.0	646.4	644.0	644.2	641.9	644.0	645.3	642.9	645.3
25°	675.8	671.6	674.4	673.3	670.3	671.0	669.2	671.4	672.5	669.4	672.9
27.5°	702.9	700.1	702.6	703.4	699.7	702.2	699.7	701.6	702.6	698.1	701.6
30°	734.6	731.7	734.2	735.9	731.5	735.7	733.5	734.8	735.0	729.6	732.9
32.5°	769.2	764.9	770.9	771.8	767.0	772.0	769.2	770.9	772.0	764.6	769.6
35°	811.3	805.9	812.8	811.8	807.6	811.8	809.1	811.8	814.4	805.4	810.9
37.5°	856.7	851.1	858.4	856.5	852.6	855.5	853.9	855.7	859.8	850.2	856.1
40°	906.7	899.7	909.8	906.3	902.6	902.1	903.0	904.2	909.5	898.9	902.4
42.5°	960.1	952.7	967.8	962.4	957.1	953.7	956.4	958.7	963.8	951.9	958.2
45°	1021.2	1012.7	1032.3	1025.8	1017.5	1010.3	1015.0	1018.1	1025.8	1011.5	1018.8
47.5°	1088.6	1079.0	1099.8	1097.9	1084.4	1068.8	1079.2	1088.6	1094.2	1076.9	1082.7
50°	1154.5	1147.0	1174.4	1176.8	1160.3	1138.4	1152.9	1167.0	1168.5	1145.7	1148.5
52.5°	1216.2	1208.7	1248.4	1263.5	1248.8	1222.6	1238.1	1252.4	1240.9	1211.3	1212.2
55°	1265.5	1259.3	1309.9	1348.7	1353.6	1332.2	1341.3	1340.8	1303.0	1257.6	1259.1
57.5°	1277.4	1276.5	1340.4	1422.3	1474.5	1477.0	1459.0	1413.0	1331.5	1270.4	1266.5
60°	1223.0	1228.5	1316.3	1460.7	1599.8	1657.6	1579.6	1448.1	1299.1	1214.4	1204.4
62.5°	1060.6	1074.9	1180.7	1413.9	1701.1	1865.4	1676.3	1394.7	1166.1	1055.5	1049.0
65°	760.0	785.0	901.9	1206.5	1692.0	2047.8	1662.4	1196.8	910.6	783.1	773.8
67.5°	344.8	370.2	469.6	826.0	1470.8	1998.3	1467.3	834.8	493.0	371.6	366.1
70°	124.9	129.3	161.2	330.7	939.9	1592.2	980.1	333.1	171.5	137.8	136.0
72.5°	75.6	76.3	83.0	118.4	326.6	966.7	340.5	122.3	84.8	75.1	76.5
75°	48.0	47.6	59.1	72.4	115.8	326.2	121.5	72.4	58.8	53.7	54.1
77.5°	34.5	35.7	42.3	54.1	73.0	110.6	71.8	51.8	42.3	34.7	35.5
80°	25.8	26.5	30.9	42.1	51.2	68.9	45.6	38.2	32.0	21.7	22.3
82.5°	18.7	18.7	20.2	30.6	31.3	37.1	24.8	27.0	21.1	15.5	15.5
85°	11.1	10.9	12.6	18.2	16.3	13.7	11.3	16.5	13.2	9.5	9.3
87.5°	3.9	4.1	3.9	5.2	4.3	3.7	3.5	4.6	3.7	3.3	3.1
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)