

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: P959296

Luminaire Tested: **NAV-SB1A-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4550 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

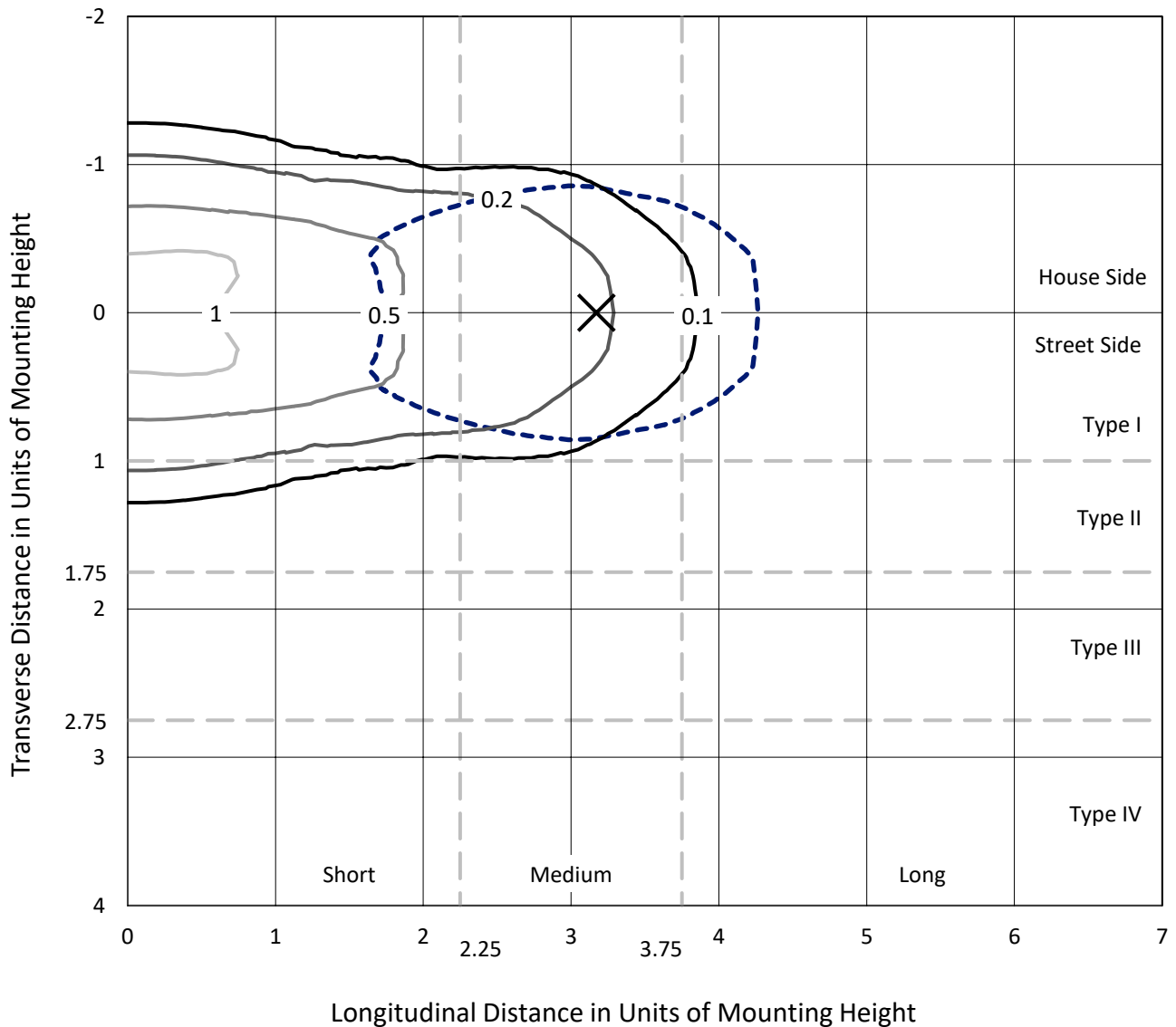
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959296
 CATALOG NUMBER: NAV-SB1A-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

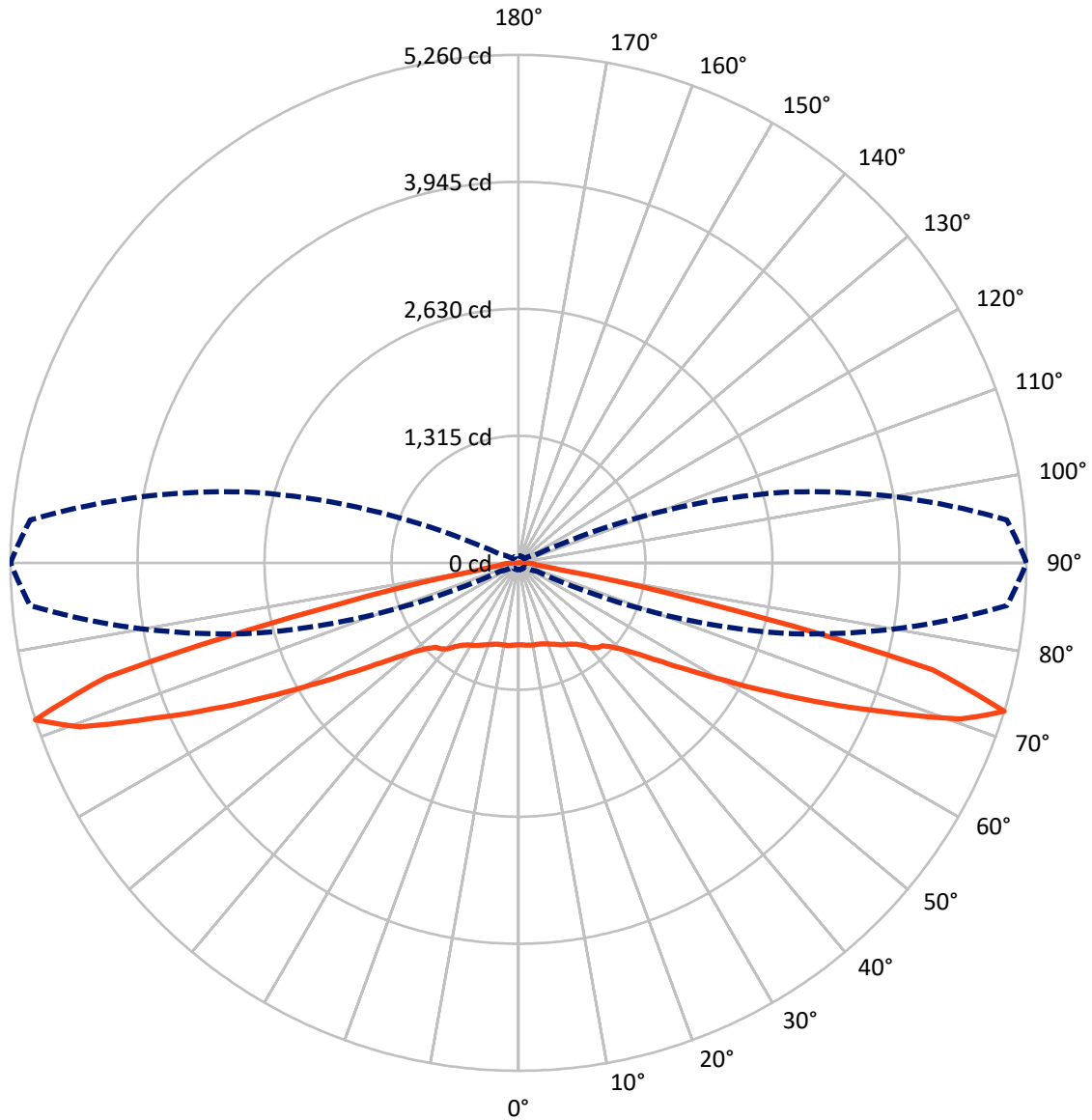
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type I - Short - N/A

REPORT NUMBER: P959296
CATALOG NUMBER: NAV-SB1A-735-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P959296
 CATALOG NUMBER: NAV-SB1A-735-U-T1

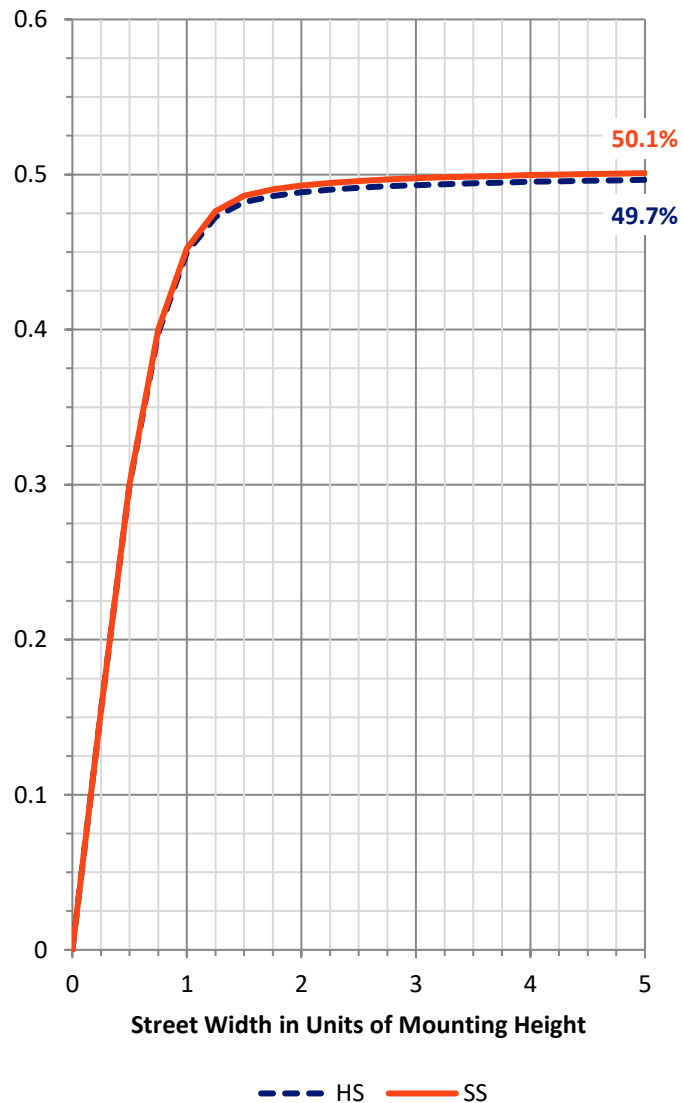
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2275.0	0.0	2275.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2275.0	0.0	2275.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4550.0	0.0	4550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.8
10°-20°	252.1	5.5
20°-30°	420.3	9.2
30°-40°	578.0	12.7
40°-50°	705.9	15.5
50°-60°	816.5	17.9
60°-70°	973.5	21.4
70°-80°	679.5	14.9
80°-90°	41.7	0.9
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°	4550.0	100.0
0°-180°	4550.0	100.0

Coefficient of Utilization

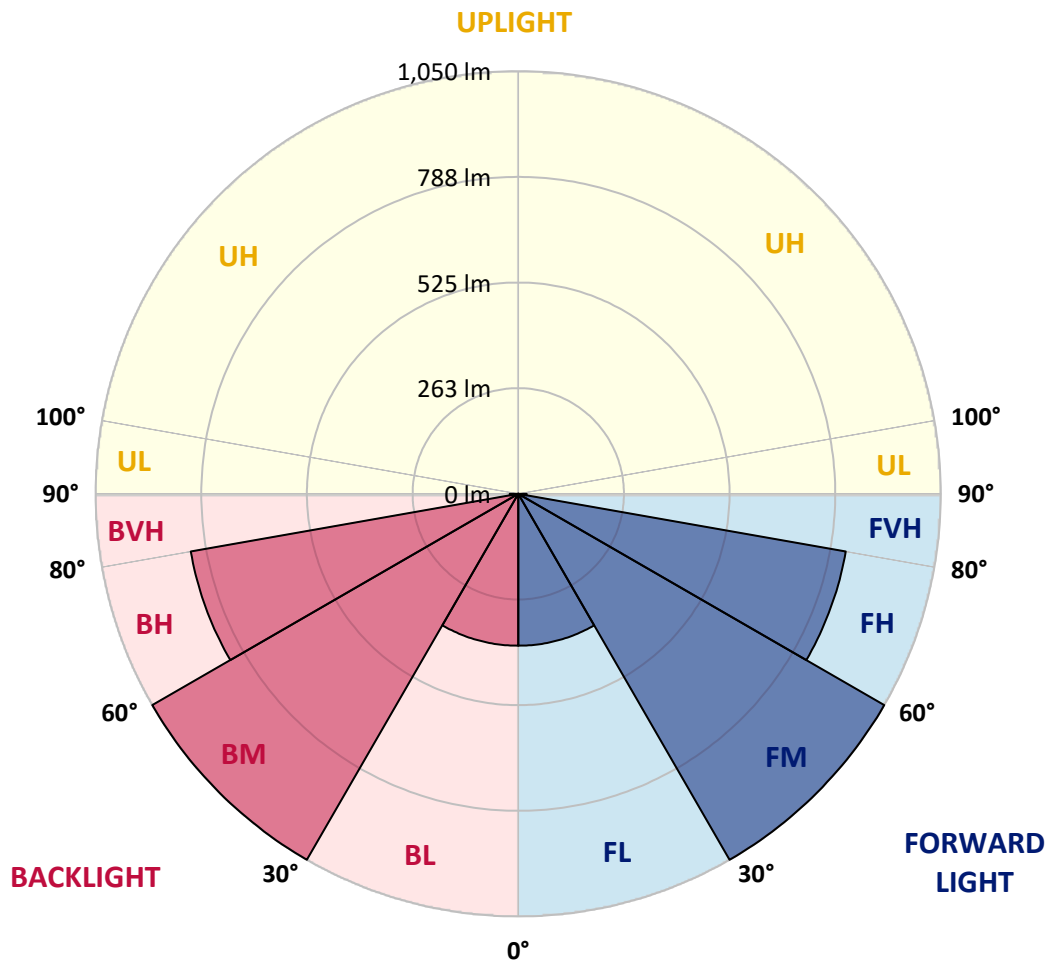


REPORT NUMBER: P959296
 CATALOG NUMBER: NAV-SB1A-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.4	8.3			
FM (30°-60°)	1050.2	23.1			
FH (60°-80°)	826.5	18.2			G1/1800
FVH (80°-90°)	20.9	0.5			G1/100
BL (0°-30°)	377.4	8.3	B1/500		
BM (30°-60°)	1050.2	23.1	B2/2500		
BH (60°-80°)	826.5	18.2	B2/1000		G2/1000
BVH (80°-90°)	20.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type I Short



REPORT NUMBER: P959296
 CATALOG NUMBER: NAV-SB1A-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2
2.5°	851.0	851.9	851.9	851.2	852.9	851.5	851.5	850.6	851.5	850.6	850.6
5°	855.3	856.5	857.0	856.7	859.0	857.7	857.7	856.7	857.0	856.3	856.3
7.5°	863.5	865.2	866.1	867.4	870.5	869.1	868.1	865.2	864.0	862.0	862.0
10°	866.1	868.1	871.2	877.5	884.8	885.0	882.1	874.8	869.3	865.0	864.3
12.5°	857.9	860.6	867.2	880.0	896.2	902.7	898.1	886.0	875.1	867.4	866.1
15°	847.6	850.4	860.4	879.8	903.6	918.9	918.4	902.4	885.0	872.9	871.0
17.5°	831.4	834.2	848.5	875.6	909.5	934.6	941.4	925.0	900.5	884.3	881.6
20°	802.1	804.7	824.6	862.5	911.4	951.3	968.9	954.5	923.9	902.0	897.8
22.5°	764.1	768.2	791.4	840.1	906.8	968.7	1000.4	990.5	951.3	920.9	915.2
25°	723.5	727.9	754.9	812.5	894.9	981.2	1037.6	1031.4	982.3	944.2	936.5
27.5°	688.4	693.0	722.5	785.2	876.6	986.2	1074.4	1077.5	1019.7	970.2	962.0
30°	660.9	665.2	696.7	763.1	852.9	981.2	1106.5	1128.3	1057.9	992.6	980.8
32.5°	630.7	636.2	669.3	736.4	824.8	969.6	1134.6	1183.2	1102.2	1016.8	1001.8
35°	592.4	597.5	632.3	699.6	788.0	951.1	1158.0	1244.1	1165.5	1053.6	1036.9
37.5°	546.0	550.8	585.4	653.6	751.5	925.0	1176.0	1312.8	1241.0	1106.5	1084.2
40°	499.4	503.9	536.4	602.4	707.8	891.5	1182.2	1380.1	1327.6	1179.4	1155.6
42.5°	456.5	460.6	490.4	551.9	658.7	849.0	1174.0	1438.6	1405.2	1230.1	1199.7
45°	417.2	420.8	447.1	504.4	607.7	797.2	1149.3	1501.4	1497.5	1266.4	1225.3
47.5°	372.2	375.8	403.1	458.5	556.7	736.6	1107.5	1563.3	1626.0	1348.6	1301.2
50°	317.2	320.4	348.5	405.5	503.7	672.0	1049.5	1611.9	1787.9	1473.1	1413.7
52.5°	252.3	255.6	282.9	340.0	440.9	602.6	973.0	1643.6	1975.1	1655.0	1581.7
55°	187.7	190.0	213.7	265.1	363.0	523.6	877.3	1652.5	2187.5	1903.5	1811.9
57.5°	136.1	137.6	152.8	191.1	275.2	424.7	761.0	1629.3	2440.1	2222.3	2106.9
60°	110.3	110.7	115.3	132.2	191.3	312.9	620.5	1549.5	2714.3	2633.1	2487.8
62.5°	100.1	100.1	101.3	105.9	129.4	206.5	450.5	1384.2	3008.4	3152.3	2957.6
65°	93.1	93.1	93.6	95.7	102.1	131.5	284.3	1114.8	3256.2	3760.4	3514.2
67.5°	86.8	87.0	86.8	87.5	91.1	97.2	164.9	770.0	3389.7	4390.6	4124.8
70°	80.3	80.8	79.5	79.5	82.4	82.7	103.2	422.2	3279.0	4918.7	4848.8
72.5°	72.6	73.3	71.3	70.8	73.0	72.1	77.6	202.6	2815.2	5076.3	5260.1
75°	65.8	66.7	62.4	61.2	61.2	60.5	63.1	103.9	1827.2	4141.0	4429.2
77.5°	59.8	61.7	54.6	50.7	49.8	47.7	51.5	63.6	799.2	1944.1	1903.8
80°	49.3	52.0	45.0	40.4	38.6	36.3	40.6	44.5	237.7	451.5	432.3
82.5°	36.8	37.9	31.9	28.8	27.4	25.6	30.4	31.0	77.4	159.8	180.6
85°	23.5	24.0	19.6	16.9	16.2	15.5	19.4	16.9	29.5	117.6	170.8
87.5°	8.2	9.4	7.5	6.8	7.3	6.0	8.9	5.1	8.2	82.9	102.8
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)