

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: P959282

Luminaire Tested: **NAV-SB1A-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959282
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4652.5 lumens
Efficiency: N/A
Efficacy: 150.6 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

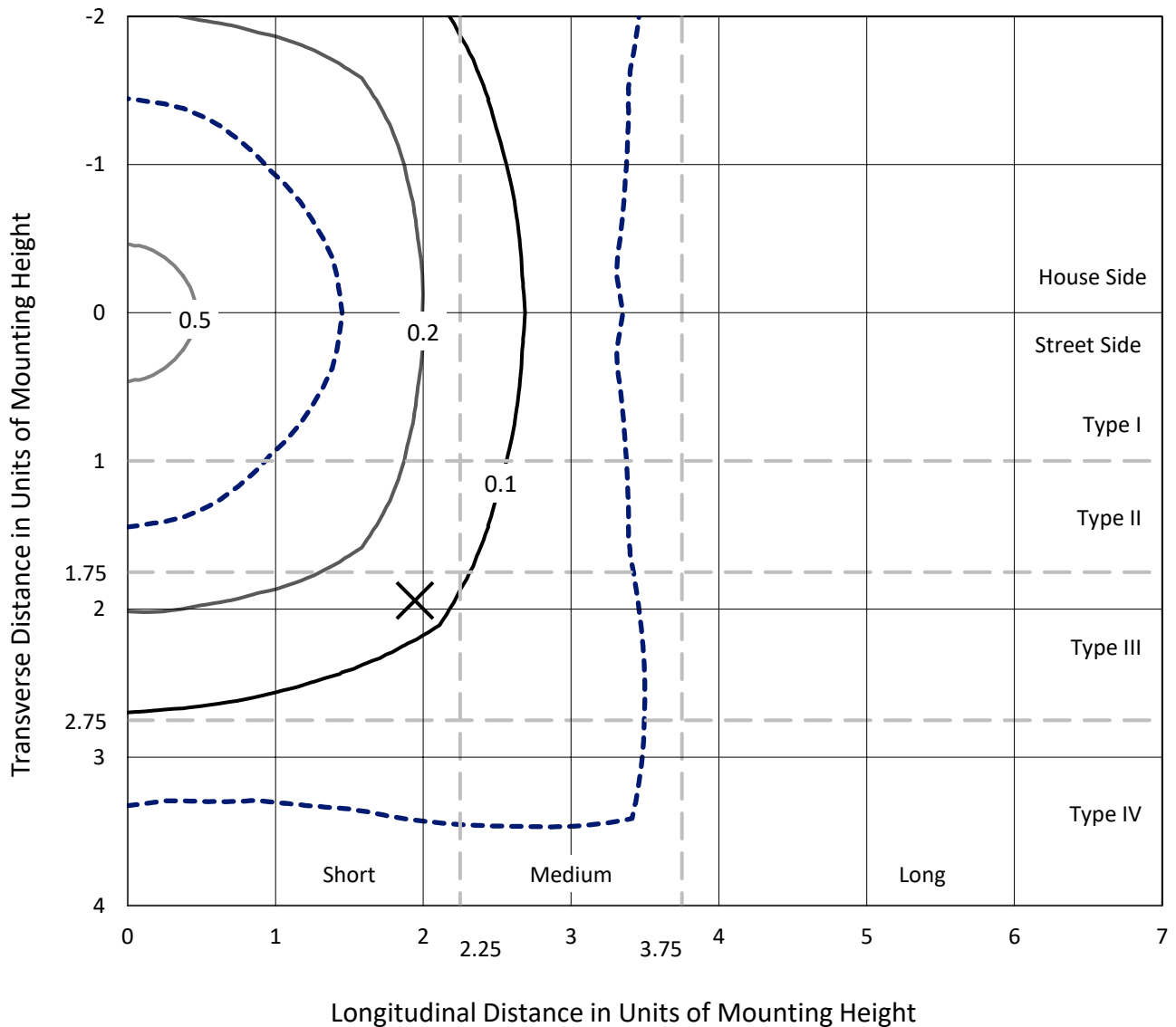
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959282
 CATALOG NUMBER: NAV-SB1A-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

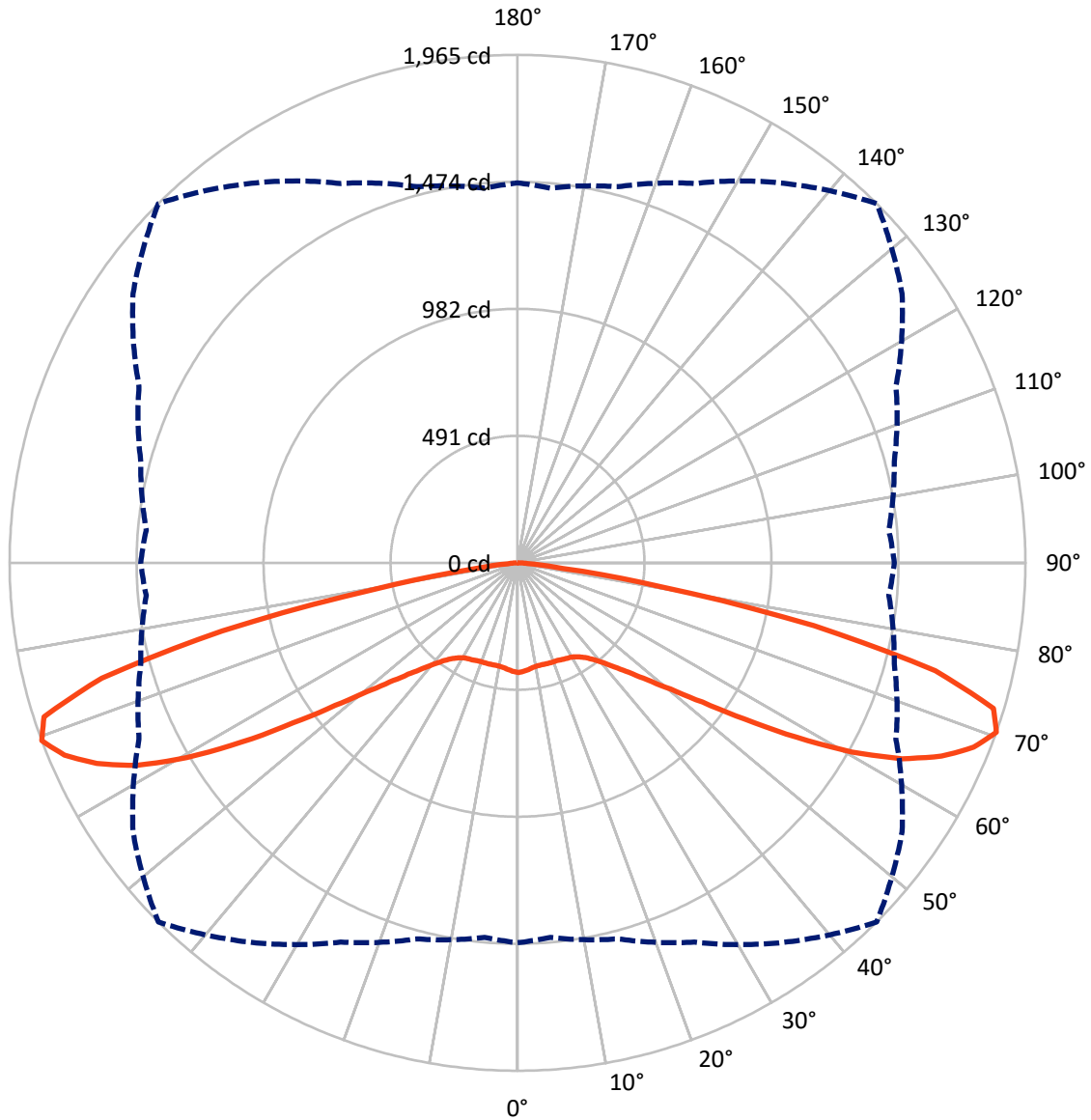
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

REPORT NUMBER: P959282
CATALOG NUMBER: NAV-SB1A-735-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P959282
 CATALOG NUMBER: NAV-SB1A-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2326.2	0.0	2326.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2326.2	0.0	2326.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4652.5	0.0	4652.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.8
10°-20°	115.9	2.5
20°-30°	192.9	4.1
30°-40°	291.7	6.3
40°-50°	484.8	10.4
50°-60°	914.8	19.7
60°-70°	1544.7	33.2
70°-80°	1015.0	21.8
80°-90°	53.2	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°	4652.5	100.0
0°-180°	4652.5	100.0

Coefficient of Utilization



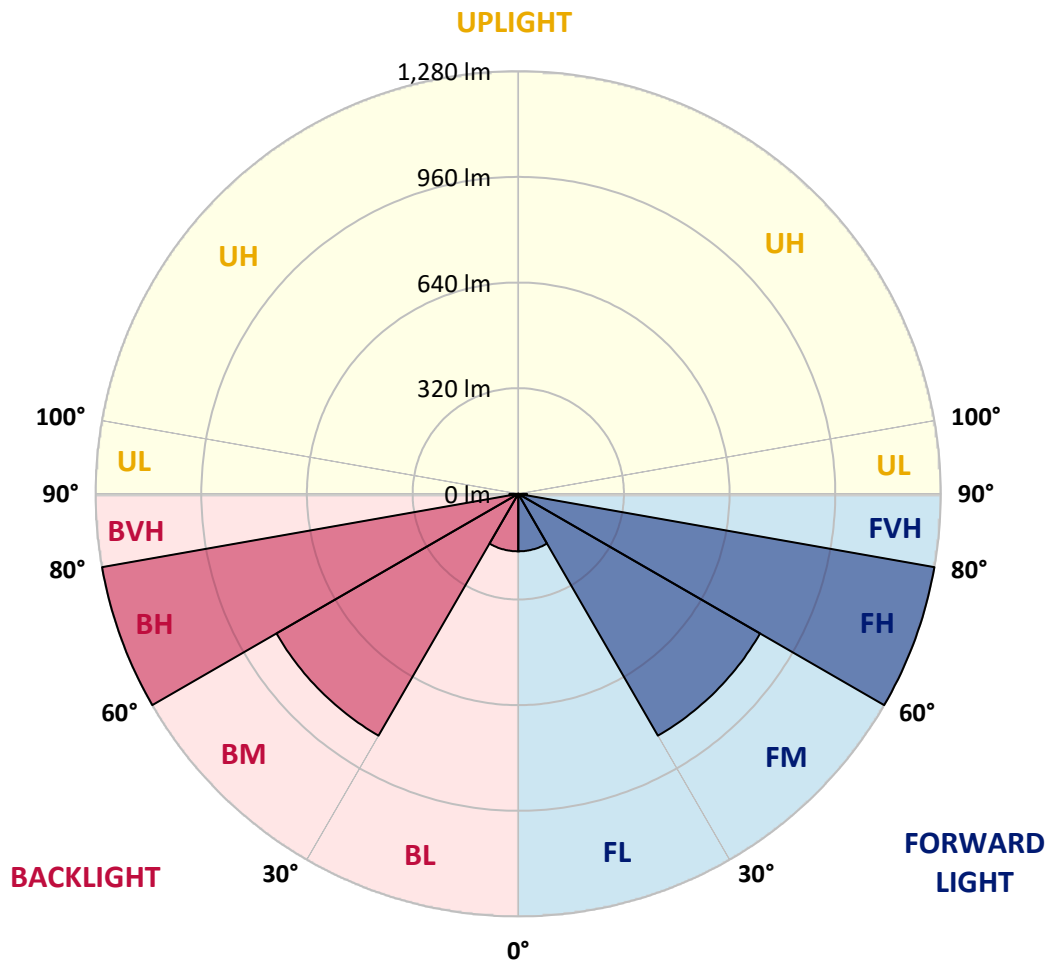
REPORT NUMBER: P959282
 CATALOG NUMBER: NAV-SB1A-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.2	3.7			
FM (30°-60°)	845.7	18.2			
FH (60°-80°)	1279.8	27.5			G1/1800
FVH (80°-90°)	26.6	0.6			G1/100
BL (0°-30°)	174.2	3.7	B1/500		
BM (30°-60°)	845.7	18.2	B1/1000		
BH (60°-80°)	1279.8	27.5	B3/2500		G1/1800
BVH (80°-90°)	26.6	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



REPORT NUMBER: P959282
 CATALOG NUMBER: NAV-SB1A-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	421.8	422.9	422.5	421.5	421.5	420.8	421.5	422.0	422.7	423.2	422.9
5°	416.2	417.2	416.9	416.2	416.5	415.7	416.2	416.9	417.4	417.6	417.6
7.5°	411.3	412.4	411.8	410.6	410.6	409.9	410.1	410.8	411.5	411.8	411.8
10°	410.1	411.1	409.7	407.7	407.0	406.0	406.3	407.0	408.5	409.2	409.2
12.5°	410.6	411.3	409.9	407.0	406.3	405.3	405.3	406.0	408.0	408.9	409.2
15°	412.0	412.8	410.6	407.4	406.7	406.0	405.8	406.7	408.9	410.6	410.8
17.5°	414.7	415.4	412.0	407.7	406.7	407.0	406.7	407.4	410.8	414.0	414.0
20°	417.2	417.6	413.1	407.7	406.7	407.0	406.7	408.2	412.6	416.9	417.2
22.5°	417.9	418.4	414.0	409.4	408.7	408.9	408.7	410.1	414.2	418.6	418.6
25°	418.1	418.8	415.4	411.8	413.1	413.5	413.1	413.3	416.5	420.2	420.0
27.5°	421.8	422.7	419.5	416.5	417.2	416.9	417.6	418.4	420.8	424.7	423.6
30°	429.3	430.0	427.3	424.1	423.6	422.0	424.1	426.6	429.3	432.7	431.9
32.5°	441.6	443.0	439.6	436.2	434.1	433.1	434.8	438.9	442.5	446.2	444.7
35°	462.2	463.1	459.9	453.7	449.8	449.8	451.2	456.5	462.4	467.0	465.2
37.5°	491.2	492.3	486.8	479.3	473.4	473.4	475.4	481.0	489.6	496.2	493.8
40°	526.4	528.2	521.1	513.4	507.8	506.9	509.3	515.6	523.8	532.0	529.3
42.5°	569.0	570.9	561.8	554.9	550.6	550.6	551.9	557.6	565.2	575.3	574.6
45°	623.4	626.8	614.2	607.4	603.3	604.3	605.1	610.1	616.8	628.5	628.0
47.5°	688.2	691.6	678.3	671.3	670.6	675.2	672.3	675.9	679.5	692.8	689.0
50°	761.8	767.5	758.4	757.9	759.3	767.8	761.1	762.9	758.8	767.3	762.2
52.5°	851.7	860.2	858.4	861.4	877.6	895.0	879.6	872.8	857.3	859.9	851.0
55°	960.7	973.5	976.0	993.4	1030.1	1065.7	1032.8	1005.5	972.6	966.6	957.1
57.5°	1084.9	1095.0	1106.6	1142.2	1210.8	1274.0	1210.8	1150.4	1098.6	1086.3	1077.6
60°	1218.3	1230.9	1242.0	1294.5	1396.6	1485.3	1394.6	1298.6	1230.1	1213.5	1198.9
62.5°	1361.7	1377.9	1385.6	1443.9	1562.9	1668.8	1564.6	1448.3	1372.4	1354.4	1340.0
65°	1499.3	1512.6	1521.3	1583.4	1697.1	1803.3	1704.9	1590.2	1512.1	1488.7	1477.0
67.5°	1563.4	1570.6	1591.9	1662.2	1782.3	1903.4	1802.6	1669.8	1582.5	1541.4	1541.9
70°	1469.5	1454.8	1506.0	1618.8	1792.4	1964.8	1815.6	1615.4	1508.5	1441.8	1457.8
72.5°	1135.6	1110.2	1199.2	1391.9	1676.3	1925.7	1688.0	1402.8	1254.6	1119.2	1152.8
75°	617.9	589.1	712.0	955.7	1336.8	1669.1	1367.6	983.0	792.7	613.3	653.1
77.5°	174.4	163.5	262.6	462.4	804.1	1171.9	835.0	472.5	311.5	184.7	205.3
80°	53.4	51.8	70.1	139.3	341.4	561.3	328.2	140.9	89.3	56.4	59.4
82.5°	31.7	29.0	34.8	50.7	87.0	176.3	84.7	53.0	42.5	28.5	31.0
85°	18.1	16.9	20.6	24.7	29.2	37.5	24.4	25.1	22.8	15.3	16.0
87.5°	7.5	6.8	8.0	7.7	6.8	8.7	6.6	7.7	9.2	6.0	5.5
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)