

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: P959192

Luminaire Tested: **NAV-SB1A-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3912.4 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

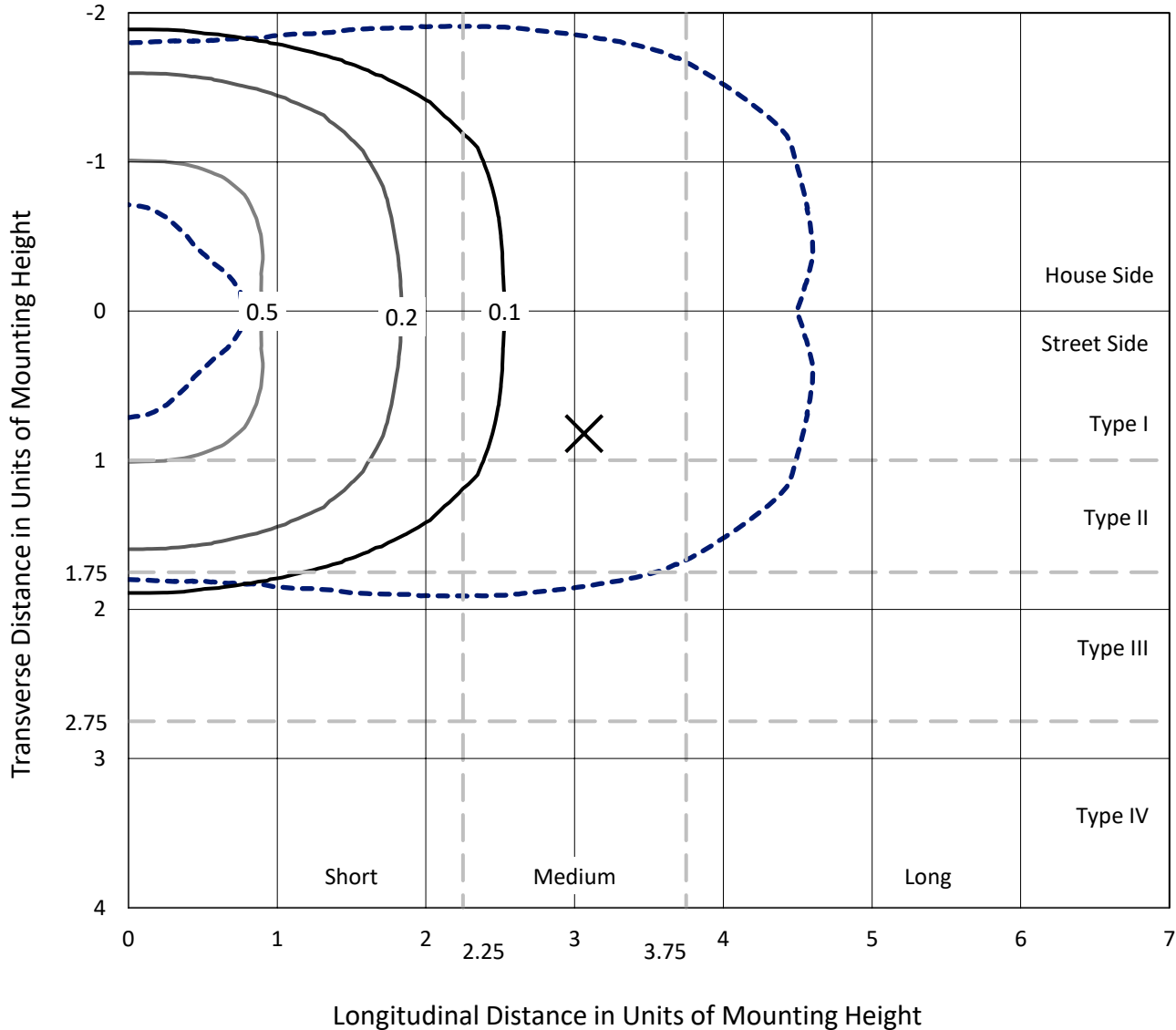
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959192
 CATALOG NUMBER: NAV-SB1A-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

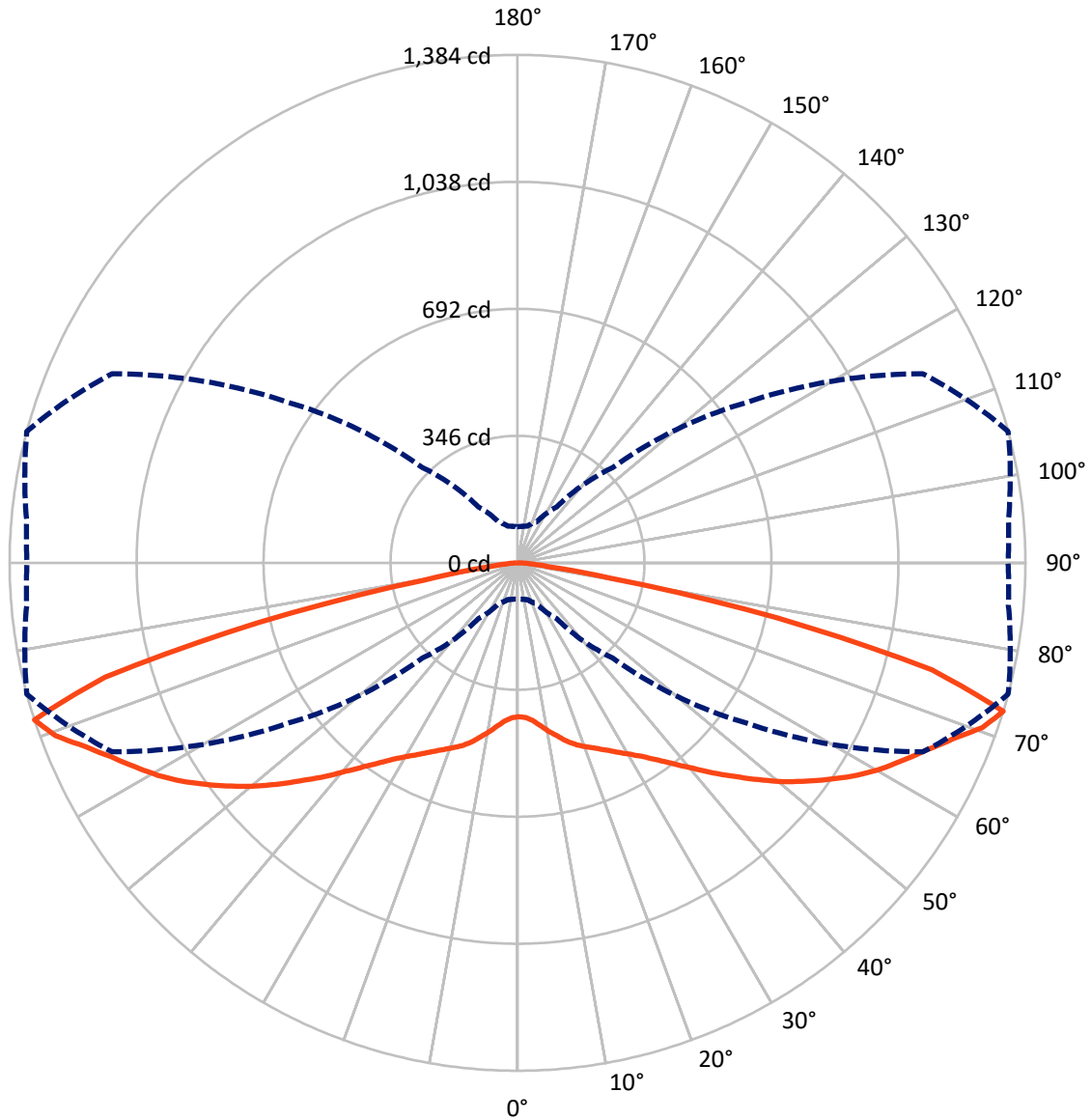
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P959192
CATALOG NUMBER: NAV-SB1A-722-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P959192
 CATALOG NUMBER: NAV-SB1A-722-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.2	0.0	1956.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1956.2	0.0	1956.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3912.4	0.0	3912.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.0
10°-20°	135.4	3.5
20°-30°	261.6	6.7
30°-40°	441.8	11.3
40°-50°	700.6	17.9
50°-60°	938.1	24.0
60°-70°	892.7	22.8
70°-80°	465.8	11.9
80°-90°	35.3	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°	3912.4	100.0
0°-180°	3912.4	100.0

Coefficient of Utilization

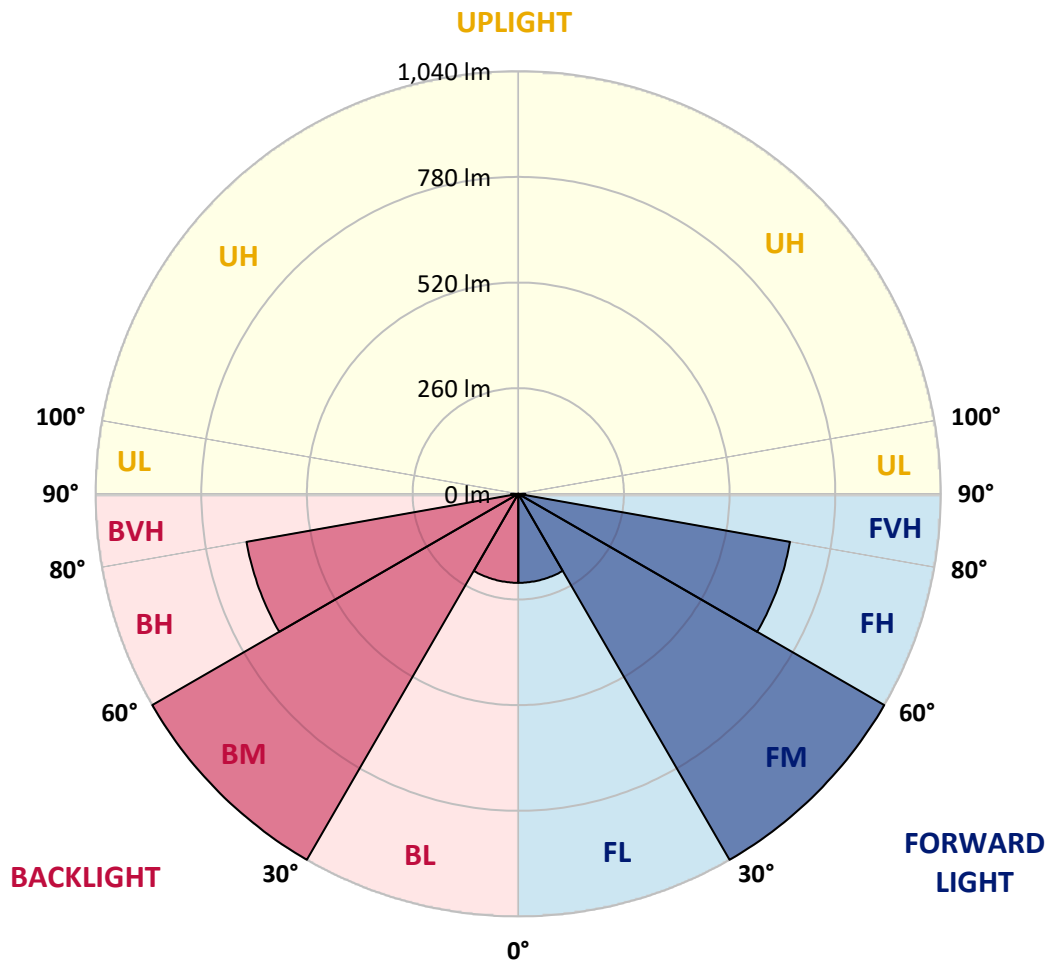


REPORT NUMBER: P959192
 CATALOG NUMBER: NAV-SB1A-722-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.0	5.6			
FM (30°-60°)	1040.2	26.6			
FH (60°-80°)	679.3	17.4			G1/1800
FVH (80°-90°)	17.6	0.5			G1/100
BL (0°-30°)	219.0	5.6	B1/500		
BM (30°-60°)	1040.2	26.6	B2/2500		
BH (60°-80°)	679.3	17.4	B2/1000		G2/1000
BVH (80°-90°)	17.6	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 III Medium



REPORT NUMBER: P959192
 CATALOG NUMBER: NAV-SB1A-722-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1
2.5°	419.1	418.7	419.1	419.5	419.3	419.3	420.2	420.9	422.1	421.9	421.7
5°	416.3	416.0	417.7	419.5	420.9	423.3	426.3	428.4	431.3	431.8	431.8
7.5°	414.9	414.3	417.1	420.2	424.7	430.7	436.4	442.5	447.2	448.8	449.3
10°	415.9	416.0	419.8	425.9	432.9	441.3	449.5	459.6	466.5	468.0	469.7
12.5°	420.5	420.0	426.5	436.0	445.7	456.2	465.9	477.0	484.4	488.2	489.8
15°	428.9	428.0	437.1	451.2	465.2	477.6	485.4	496.0	504.6	509.4	511.2
17.5°	438.9	439.3	451.1	469.4	487.8	501.8	509.2	514.6	521.2	525.3	527.4
20°	456.4	457.3	470.5	492.2	513.2	529.2	535.2	533.1	534.9	538.1	540.6
22.5°	480.0	480.4	495.2	518.8	540.8	558.3	562.3	554.1	549.1	551.3	552.9
25°	507.4	509.9	524.8	548.9	571.5	588.2	590.1	577.7	565.3	565.9	566.9
27.5°	540.8	543.1	558.1	582.1	605.1	619.6	619.4	602.9	584.7	580.0	581.5
30°	576.9	579.5	594.9	619.6	641.0	653.8	651.0	631.2	605.3	596.7	597.7
32.5°	619.8	621.5	637.0	661.8	681.5	691.8	685.9	661.6	629.2	619.4	621.9
35°	671.8	674.1	685.7	709.1	726.5	734.9	725.1	696.4	660.0	649.0	650.6
37.5°	731.1	729.5	742.7	763.5	777.9	783.0	769.7	735.5	695.2	682.1	684.6
40°	793.0	792.2	806.6	826.6	834.4	837.6	817.8	780.4	735.7	721.7	726.3
42.5°	849.2	848.6	868.0	890.1	899.5	896.0	870.9	828.2	782.7	766.7	770.7
45°	894.1	893.3	917.1	948.2	966.6	960.6	927.1	880.9	830.1	813.6	817.4
47.5°	928.6	929.1	954.7	993.2	1025.3	1027.6	984.4	934.7	882.5	863.8	869.3
50°	953.7	954.9	982.3	1025.0	1068.9	1088.2	1042.9	989.8	936.6	915.5	921.9
52.5°	959.8	962.1	995.0	1045.1	1096.9	1133.9	1102.5	1042.7	988.0	967.8	973.0
55°	926.9	931.3	973.0	1043.6	1114.1	1163.8	1154.8	1096.4	1039.8	1019.0	1024.8
57.5°	851.2	857.3	906.1	998.1	1110.3	1184.4	1195.4	1148.0	1091.5	1071.5	1076.0
60°	745.1	752.5	799.2	899.7	1056.7	1192.0	1224.0	1198.1	1139.0	1119.6	1123.8
62.5°	585.1	594.7	650.6	768.4	943.6	1156.6	1248.2	1243.5	1181.7	1157.6	1160.4
65°	375.4	385.5	444.4	583.7	792.8	1048.4	1255.8	1287.6	1226.9	1193.1	1197.3
67.5°	226.3	230.9	260.0	353.7	579.5	885.1	1191.6	1336.6	1279.6	1237.7	1240.9
70°	144.8	147.4	164.8	207.8	327.6	645.9	1032.2	1345.7	1343.6	1283.4	1283.0
72.5°	98.3	99.1	103.6	123.0	185.4	367.0	761.3	1218.3	1383.5	1342.3	1336.0
75°	72.0	76.3	83.7	87.1	105.3	183.4	436.2	856.0	1165.9	1184.0	1140.4
77.5°	53.5	53.7	64.0	68.0	75.1	97.7	184.6	477.9	724.0	760.0	677.9
80°	45.3	42.9	42.7	54.7	56.6	60.9	82.5	165.0	259.3	157.2	118.9
82.5°	37.7	35.2	31.8	42.7	38.5	37.3	35.8	67.1	82.5	40.6	34.5
85°	26.3	25.2	24.0	28.0	21.9	18.8	17.2	31.4	34.7	17.2	15.2
87.5°	11.4	11.8	12.0	12.4	9.2	6.6	6.6	8.8	8.8	6.8	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)