

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: P959223

Luminaire Tested: **NAV-SB1A-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959223
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-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4393.1 lumens
Efficiency: N/A
Efficacy: 142.2 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

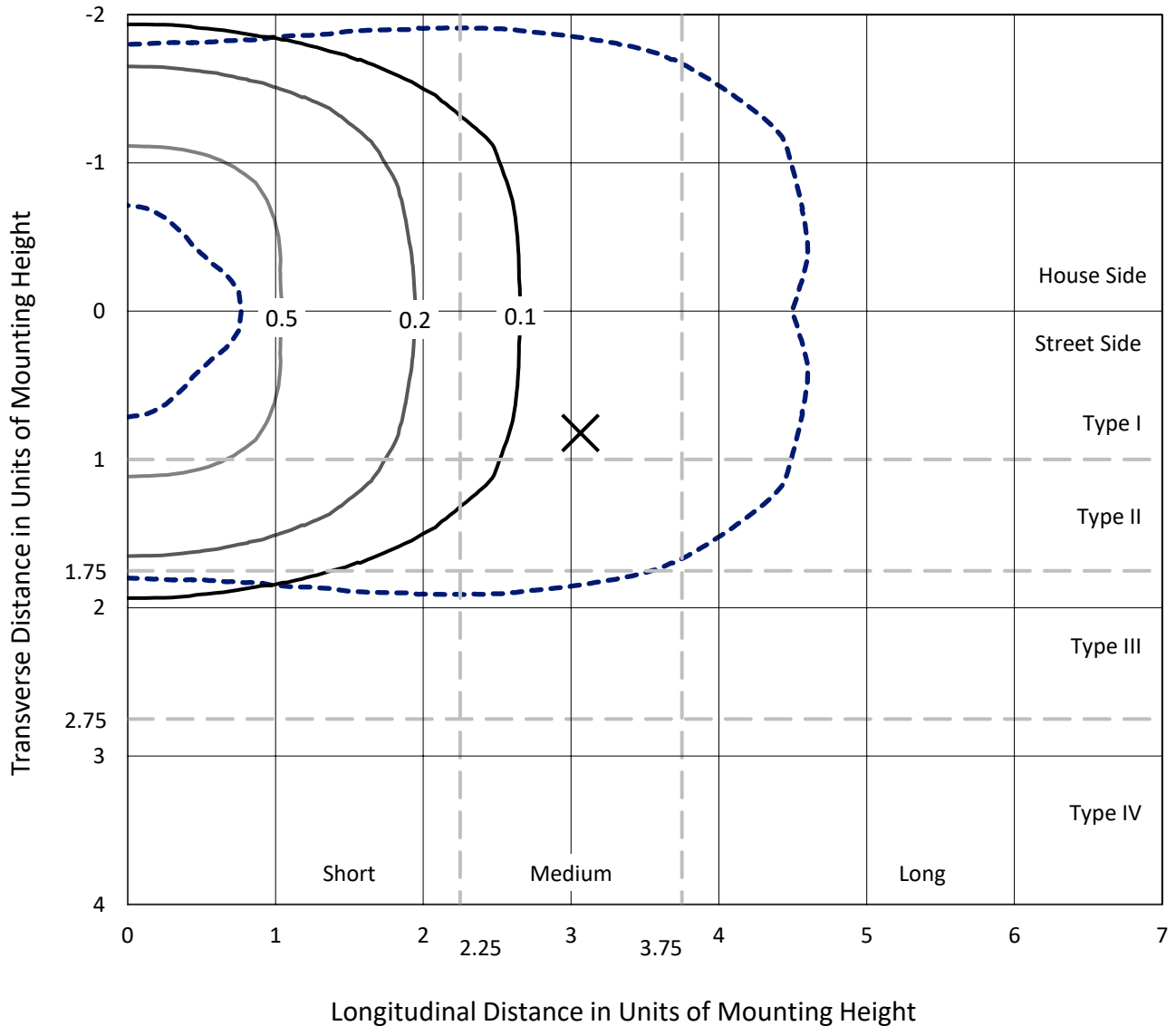
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

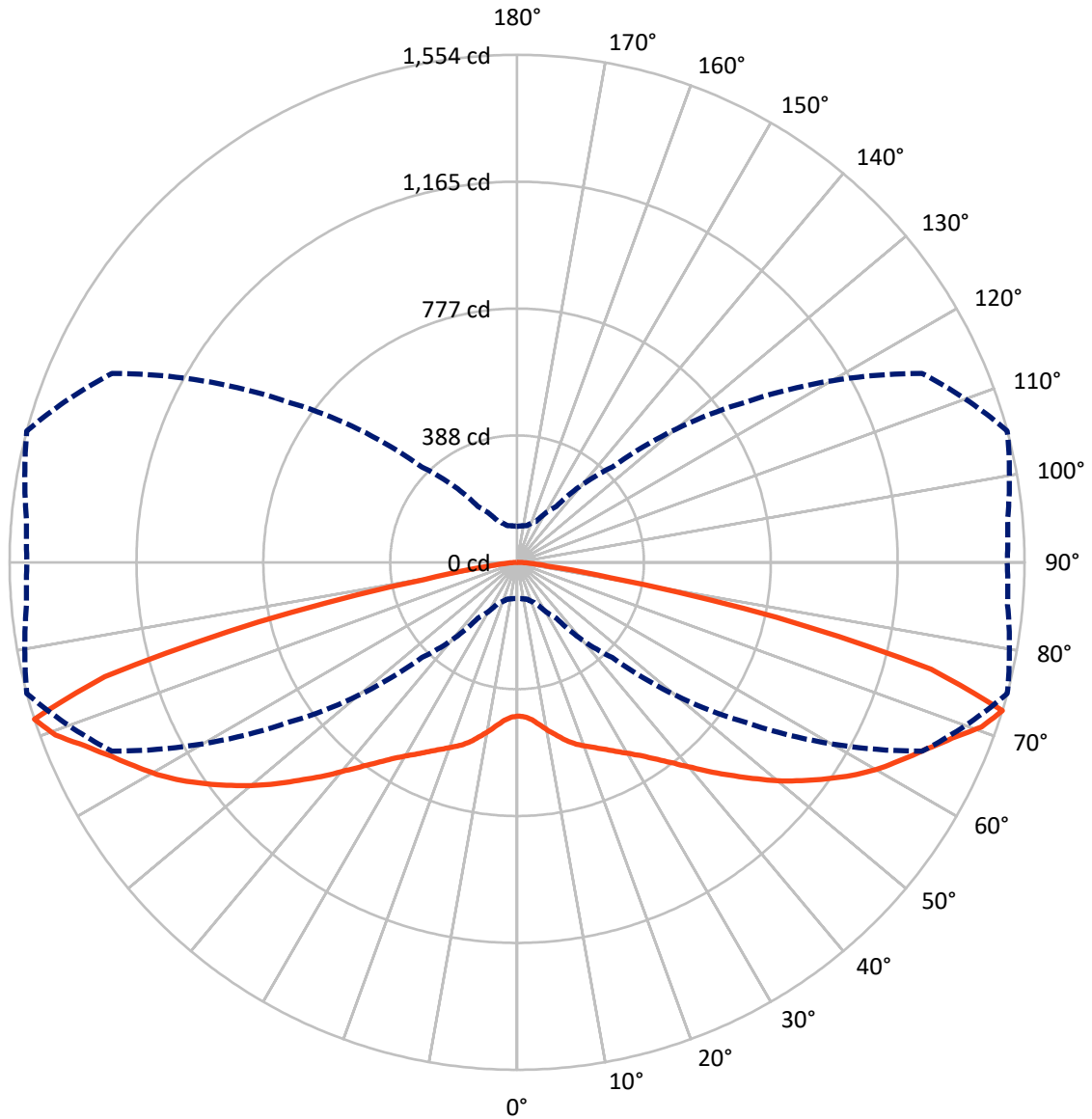
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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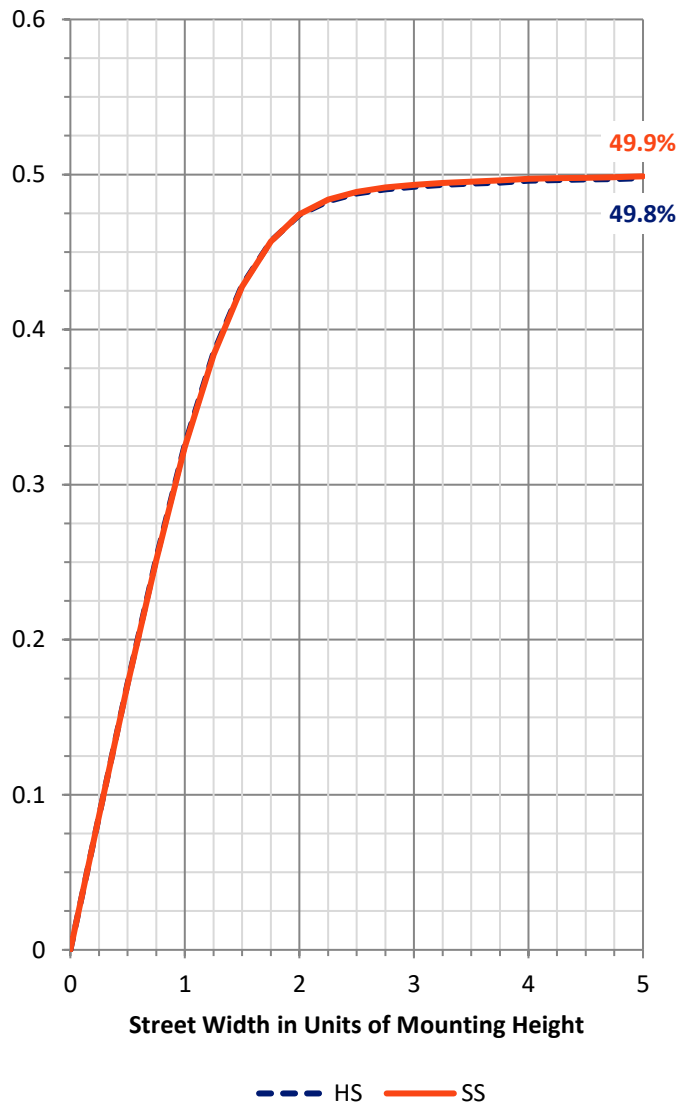
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2196.6	0.0	2196.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2196.6	0.0	2196.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4393.1	0.0	4393.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.0
10°-20°	152.0	3.5
20°-30°	293.8	6.7
30°-40°	496.1	11.3
40°-50°	786.7	17.9
50°-60°	1053.3	24.0
60°-70°	1002.4	22.8
70°-80°	523.1	11.9
80°-90°	39.6	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°	4393.1	100.0
0°-180°	4393.1	100.0

Coefficient of Utilization

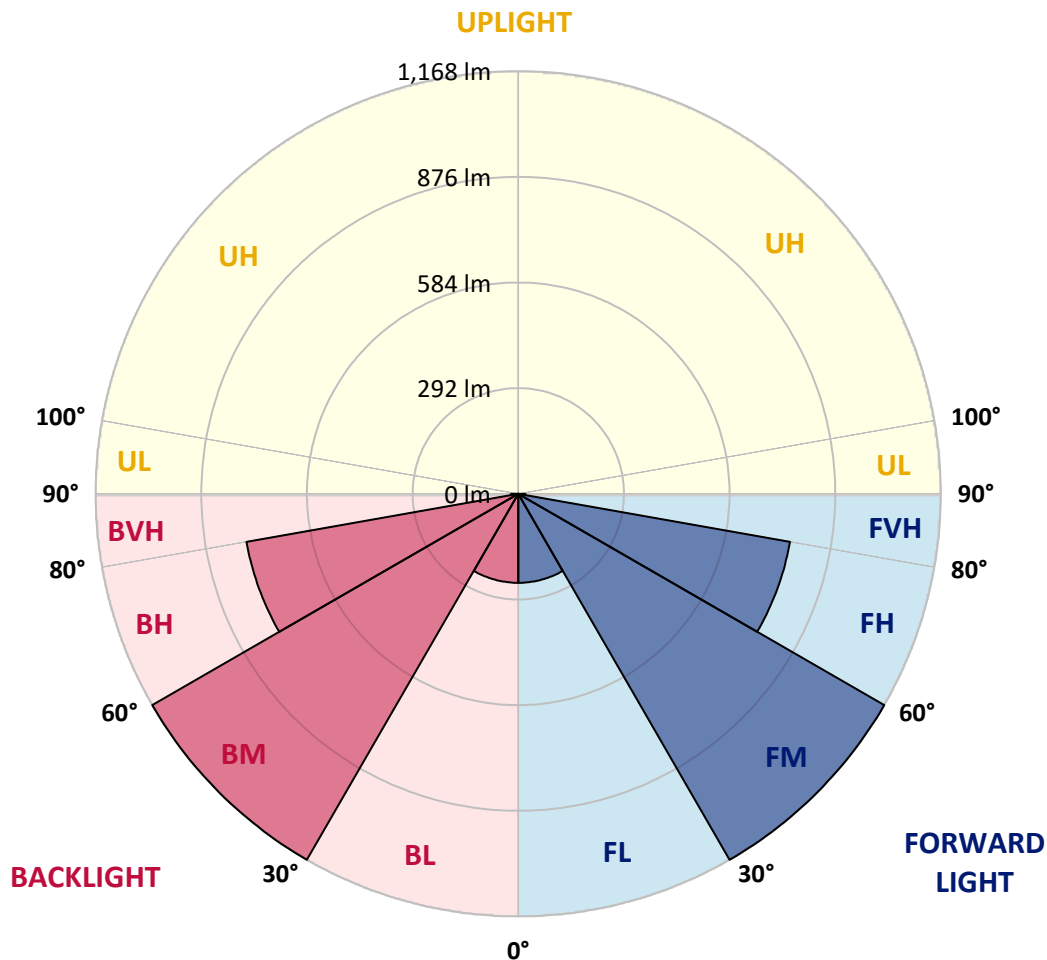


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.0	5.6			
FM (30°-60°)	1168.1	26.6			
FH (60°-80°)	762.8	17.4			G1/1800
FVH (80°-90°)	19.8	0.5			G1/100
BL (0°-30°)	246.0	5.6	B1/500		
BM (30°-60°)	1168.1	26.6	B2/2500		
BH (60°-80°)	762.8	17.4	B2/1000		G2/1000
BVH (80°-90°)	19.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
2.5°	470.6	470.2	470.6	471.0	470.8	470.8	471.9	472.6	474.0	473.8	473.6
5°	467.4	467.2	469.0	471.0	472.6	475.3	478.7	481.1	484.3	484.9	484.9
7.5°	465.9	465.2	468.3	471.9	476.8	483.6	490.1	496.8	502.2	504.0	504.5
10°	467.0	467.2	471.5	478.2	486.1	495.5	504.7	516.1	523.8	525.5	527.4
12.5°	472.1	471.7	478.9	489.6	500.4	512.3	523.1	535.7	544.0	548.2	550.0
15°	481.5	480.7	490.8	506.7	522.4	536.3	545.1	557.0	566.6	571.9	574.0
17.5°	492.8	493.2	506.5	527.2	547.8	563.4	571.7	577.8	585.2	589.9	592.1
20°	512.5	513.4	528.2	552.7	576.3	594.2	600.9	598.7	600.6	604.2	607.0
22.5°	539.0	539.5	556.1	582.5	607.2	626.9	631.4	622.2	616.6	619.1	620.8
25°	569.7	572.7	589.3	616.3	641.8	660.6	662.6	648.7	634.8	635.4	636.5
27.5°	607.2	609.9	626.7	653.6	679.4	695.8	695.6	676.9	656.5	651.4	652.9
30°	647.8	650.7	668.0	695.8	719.8	734.1	731.0	708.8	679.7	669.9	671.1
32.5°	696.0	697.8	715.3	743.1	765.4	776.7	770.3	742.9	706.5	695.6	698.2
35°	754.3	757.1	770.0	796.2	815.8	825.2	814.3	781.9	741.1	728.8	730.5
37.5°	820.9	819.2	833.9	857.3	873.4	879.2	864.3	825.8	780.5	766.0	768.6
40°	890.5	889.6	905.7	928.1	937.0	940.5	918.3	876.4	826.2	810.4	815.6
42.5°	953.6	952.8	974.6	999.5	1010.0	1006.0	978.0	930.0	878.8	860.9	865.3
45°	1004.0	1003.1	1029.8	1064.8	1085.4	1078.7	1041.0	989.1	932.2	913.6	917.9
47.5°	1042.7	1043.2	1071.9	1115.2	1151.4	1153.8	1105.4	1049.5	991.0	969.9	976.2
50°	1070.8	1072.1	1102.9	1150.9	1200.3	1222.0	1171.1	1111.4	1051.8	1028.0	1035.1
52.5°	1077.8	1080.2	1117.2	1173.5	1231.6	1273.2	1237.9	1170.9	1109.4	1086.7	1092.5
55°	1040.8	1045.7	1092.5	1171.8	1250.9	1306.8	1296.7	1231.2	1167.5	1144.2	1150.7
57.5°	955.7	962.7	1017.4	1120.8	1246.7	1329.8	1342.2	1289.0	1225.6	1203.1	1208.3
60°	836.6	844.9	897.4	1010.2	1186.5	1338.4	1374.3	1345.3	1279.0	1257.2	1261.9
62.5°	657.0	667.8	730.5	862.8	1059.6	1298.7	1401.7	1396.3	1327.0	1299.8	1303.0
65°	421.5	432.9	499.1	655.4	890.2	1177.1	1410.2	1445.9	1377.7	1339.8	1344.5
67.5°	254.1	259.3	292.0	397.2	650.7	993.8	1337.9	1500.8	1436.8	1389.8	1393.4
70°	162.7	165.5	185.0	233.3	367.9	725.2	1159.0	1511.2	1508.7	1441.1	1440.7
72.5°	110.4	111.2	116.4	138.2	208.2	412.0	854.8	1368.0	1553.5	1507.3	1500.1
75°	80.8	85.7	94.0	97.8	118.2	205.9	489.8	961.1	1309.2	1329.4	1280.5
77.5°	60.1	60.4	71.8	76.3	84.4	109.7	207.3	536.5	812.8	853.5	761.3
80°	50.9	48.2	48.0	61.5	63.4	68.4	92.7	185.3	291.1	176.5	133.5
82.5°	42.4	39.5	35.7	48.0	43.3	41.9	40.2	75.3	92.7	45.5	38.8
85°	29.6	28.3	27.0	31.4	24.7	21.1	19.3	35.3	39.1	19.3	17.0
87.5°	12.8	13.2	13.4	13.9	10.4	7.4	7.4	9.8	9.8	7.6	5.6
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)