

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: P959347

Luminaire Tested: **NAV-SB1A-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959347
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-750-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.2 lumens
Efficiency: N/A
Efficacy: 162.2 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

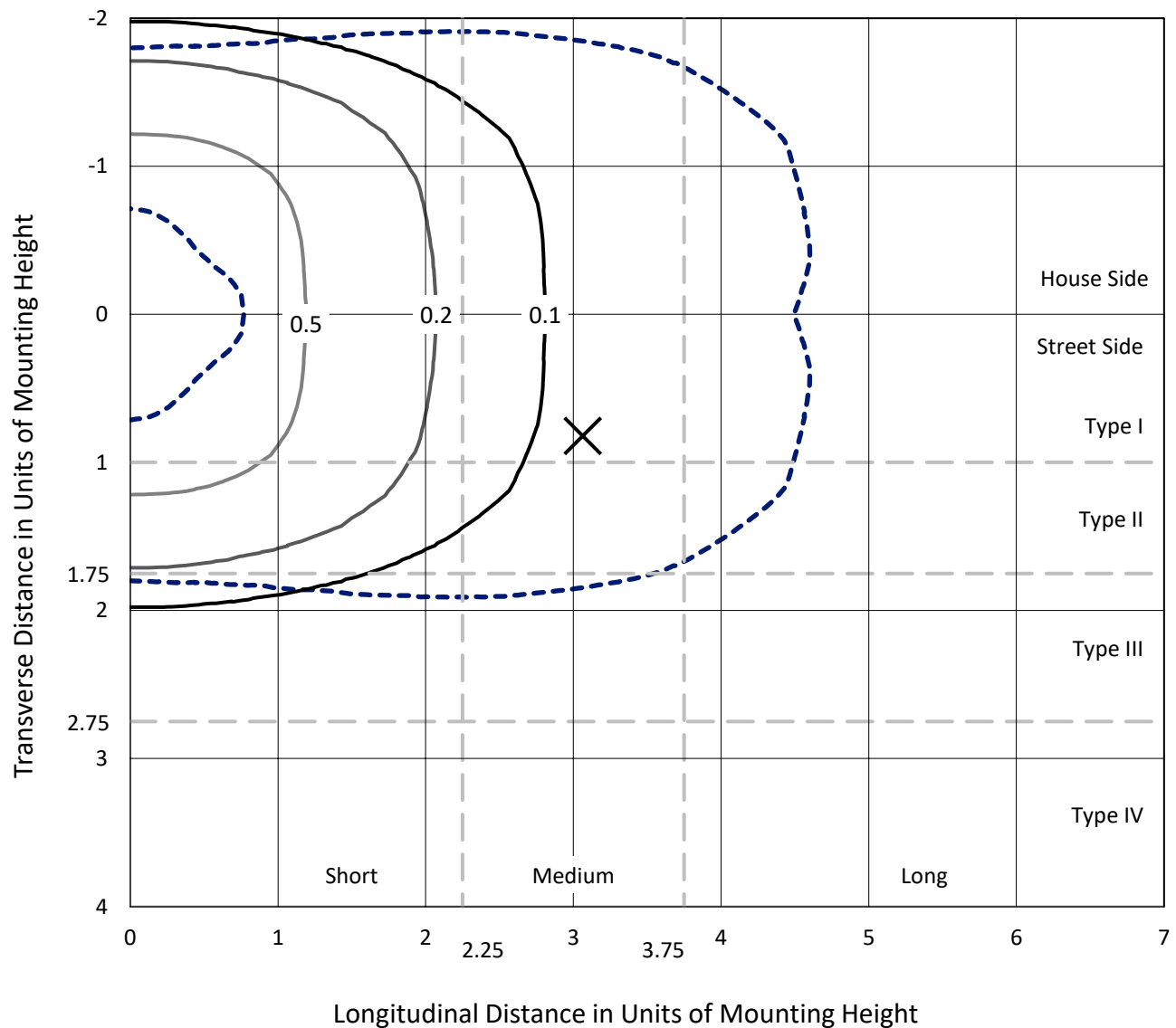


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

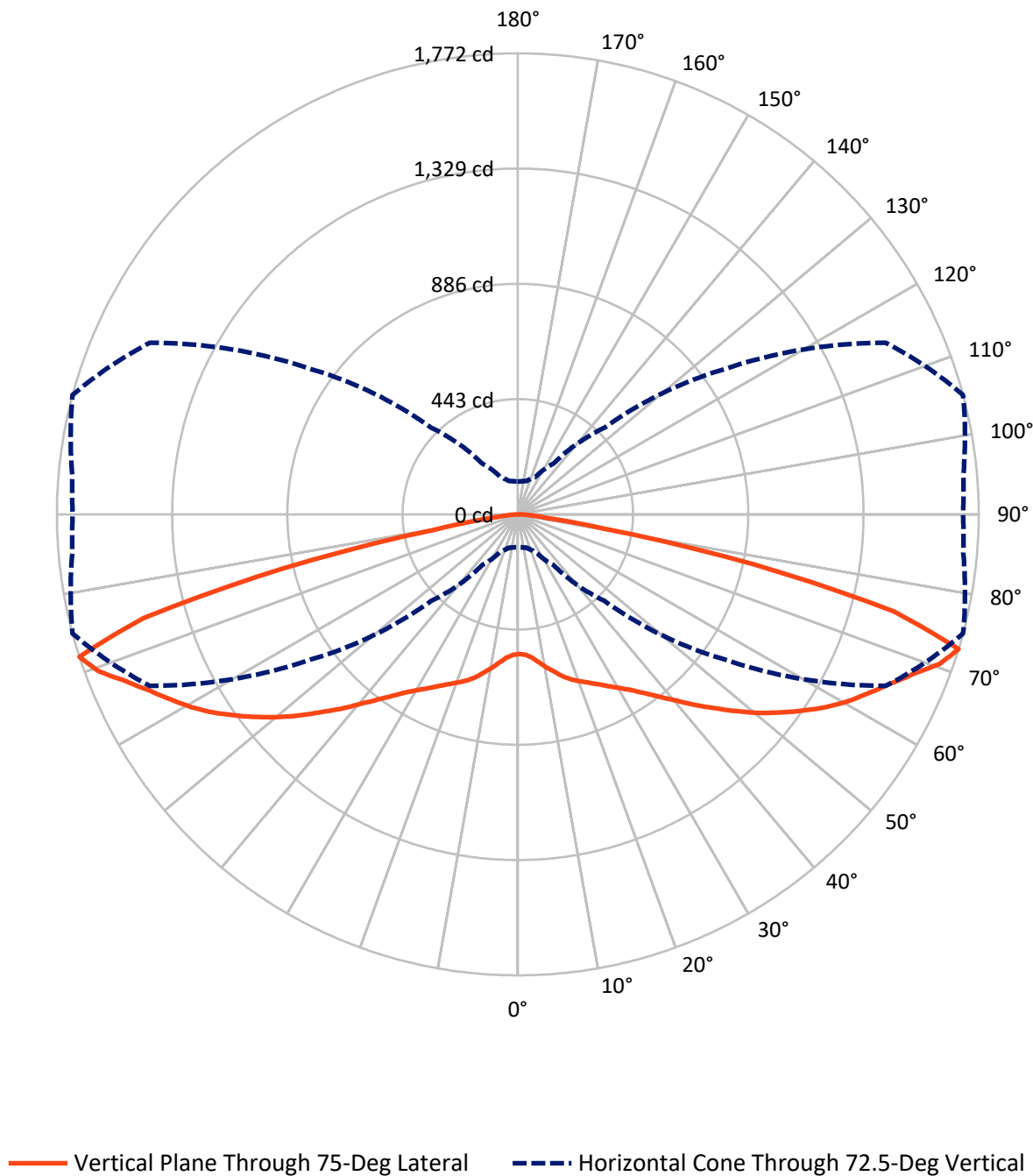


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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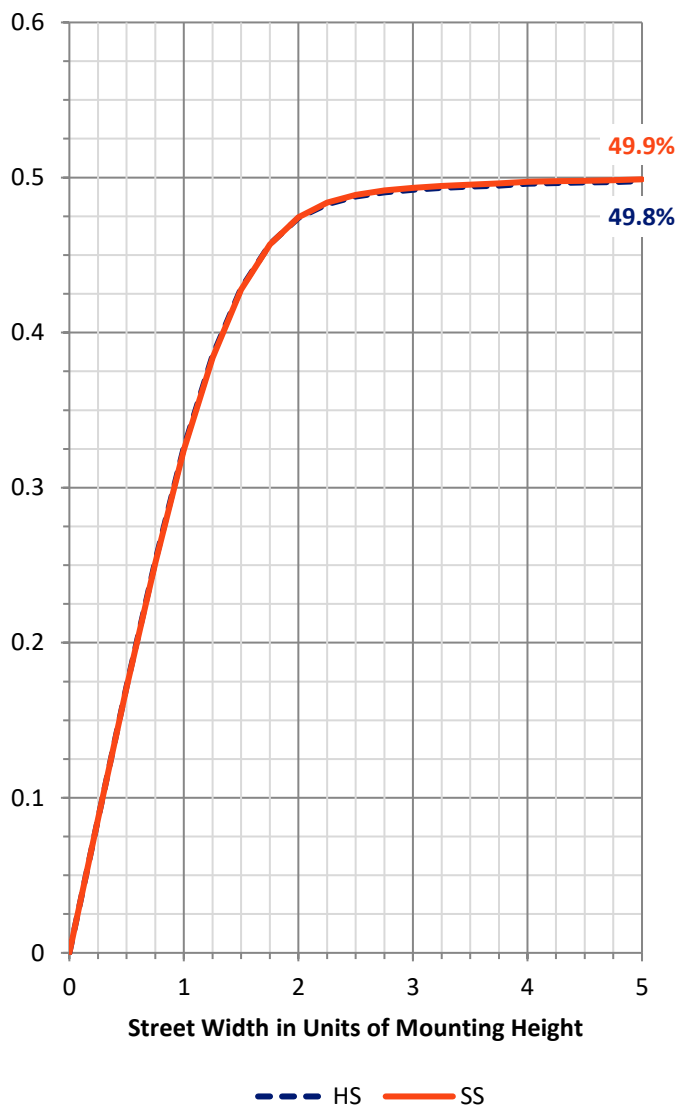
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2505.6	0.0	2505.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2505.6	0.0	2505.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5011.2	0.0	5011.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.0
10°-20°	173.4	3.5
20°-30°	335.1	6.7
30°-40°	565.9	11.3
40°-50°	897.4	17.9
50°-60°	1201.5	24.0
60°-70°	1143.5	22.8
70°-80°	596.7	11.9
80°-90°	45.2	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°	5011.2	100.0
0°-180°	5011.2	100.0

Coefficient of Utilization



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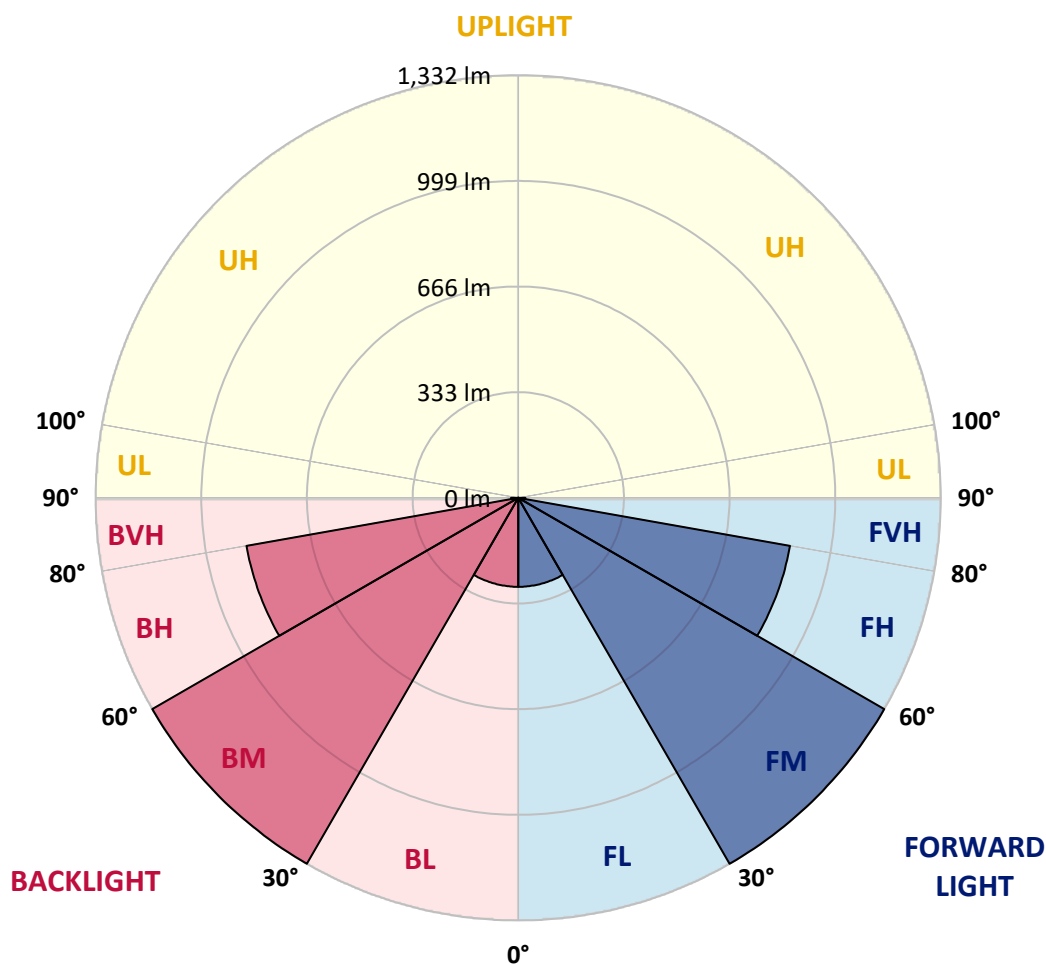
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.6	5.6			
FM	(30°-60°)	1332.4	26.6			
FH	(60°-80°)	870.1	17.4			G1/1800
FVH	(80°-90°)	22.6	0.5			G1/100
BL	(0°-30°)	280.6	5.6	B1/500		
BM	(30°-60°)	1332.4	26.6	B2/2500		
BH	(60°-80°)	870.1	17.4	B2/1000		G2/1000
BVH	(80°-90°)	22.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8
2.5°	536.8	536.3	536.8	537.3	537.0	537.0	538.3	539.0	540.6	540.4	540.1
5°	533.2	533.0	535.0	537.3	539.0	542.1	546.0	548.8	552.4	553.2	553.2
7.5°	531.5	530.6	534.2	538.3	544.0	551.7	559.0	566.7	572.9	574.9	575.4
10°	532.7	533.0	537.8	545.5	554.4	565.2	575.6	588.8	597.5	599.5	601.6
12.5°	538.5	538.0	546.2	558.5	570.8	584.4	596.7	611.0	620.4	625.4	627.4
15°	549.3	548.3	559.9	578.0	595.9	611.7	621.8	635.3	646.3	652.4	654.8
17.5°	562.1	562.6	577.7	601.3	624.8	642.7	652.2	659.1	667.6	672.9	675.5
20°	584.7	585.7	602.6	630.5	657.3	677.7	685.4	682.9	685.2	689.3	692.4
22.5°	614.8	615.3	634.3	664.5	692.6	715.1	720.3	709.7	703.4	706.1	708.2
25°	649.8	653.2	672.1	703.2	732.1	753.5	755.8	739.9	724.1	724.9	726.1
27.5°	692.6	695.7	714.8	745.6	775.0	793.7	793.5	772.1	748.9	743.0	744.8
30°	738.9	742.2	762.0	793.7	821.0	837.4	833.8	808.5	775.2	764.2	765.6
32.5°	794.0	796.0	815.9	847.7	873.0	886.0	878.6	847.4	806.0	793.5	796.5
35°	860.5	863.6	878.3	908.3	930.6	941.3	928.8	892.0	845.3	831.3	833.3
37.5°	936.4	934.4	951.3	977.8	996.3	1003.0	985.8	942.1	890.4	873.7	876.8
40°	1015.8	1014.7	1033.2	1058.7	1068.8	1072.8	1047.4	999.7	942.3	924.4	930.3
42.5°	1087.6	1086.9	1111.7	1140.1	1152.1	1147.5	1115.5	1060.8	1002.4	982.0	987.1
45°	1145.2	1144.2	1174.6	1214.5	1238.1	1230.4	1187.5	1128.3	1063.3	1042.1	1046.9
47.5°	1189.5	1190.0	1222.7	1272.1	1313.3	1316.1	1260.9	1197.2	1130.4	1106.3	1113.5
50°	1221.5	1223.0	1258.1	1312.8	1369.1	1393.9	1335.9	1267.8	1199.8	1172.6	1180.8
52.5°	1229.4	1232.3	1274.4	1338.6	1405.0	1452.2	1412.0	1335.6	1265.5	1239.6	1246.3
55°	1187.2	1192.8	1246.3	1336.6	1426.9	1490.7	1479.1	1404.5	1331.8	1305.1	1312.5
57.5°	1090.2	1098.2	1160.6	1278.5	1422.1	1517.0	1531.0	1470.5	1398.0	1372.5	1378.3
60°	954.4	963.8	1023.7	1152.4	1353.5	1526.7	1567.6	1534.6	1458.9	1434.1	1439.5
62.5°	749.4	761.7	833.3	984.3	1208.7	1481.4	1598.9	1592.7	1513.6	1482.7	1486.2
65°	480.7	493.8	569.3	747.6	1015.5	1342.7	1608.6	1649.2	1571.5	1528.3	1533.6
67.5°	289.9	295.8	333.1	453.2	742.2	1133.8	1526.2	1712.0	1639.1	1585.3	1589.4
70°	185.5	188.8	211.0	266.1	419.6	827.2	1322.0	1723.7	1720.9	1643.9	1643.4
72.5°	125.9	126.9	132.8	157.6	237.4	470.0	975.1	1560.5	1772.1	1719.3	1711.1
75°	92.1	97.8	107.2	111.5	134.8	234.8	558.8	1096.3	1493.4	1516.5	1460.7
77.5°	68.6	68.8	81.9	87.0	96.2	125.2	236.4	612.0	927.2	973.5	868.4
80°	58.1	55.0	54.7	70.1	72.4	78.0	105.7	211.4	332.1	201.3	152.2
82.5°	48.4	45.0	40.7	54.7	49.4	47.9	45.8	86.0	105.7	52.0	44.3
85°	33.7	32.3	30.7	35.8	28.2	24.1	22.0	40.2	44.5	22.0	19.5
87.5°	14.6	15.1	15.4	15.9	11.8	8.4	8.4	11.3	11.3	8.7	6.4
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)