

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: P959750

Luminaire Tested: **NAV-SB1B-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959750
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-SB1B-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5514.5 lumens
Efficiency: N/A
Efficacy: 138.6 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

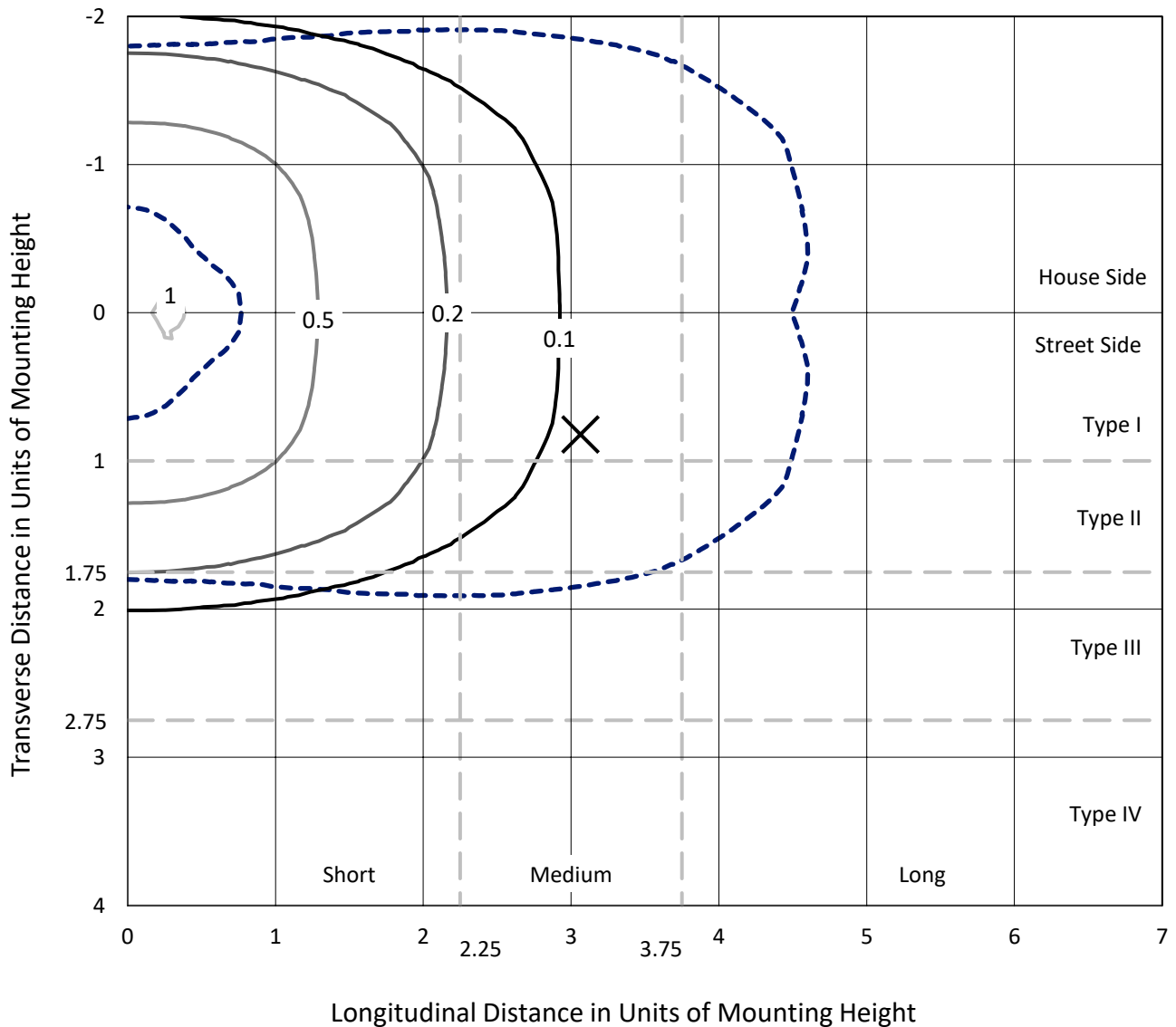
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

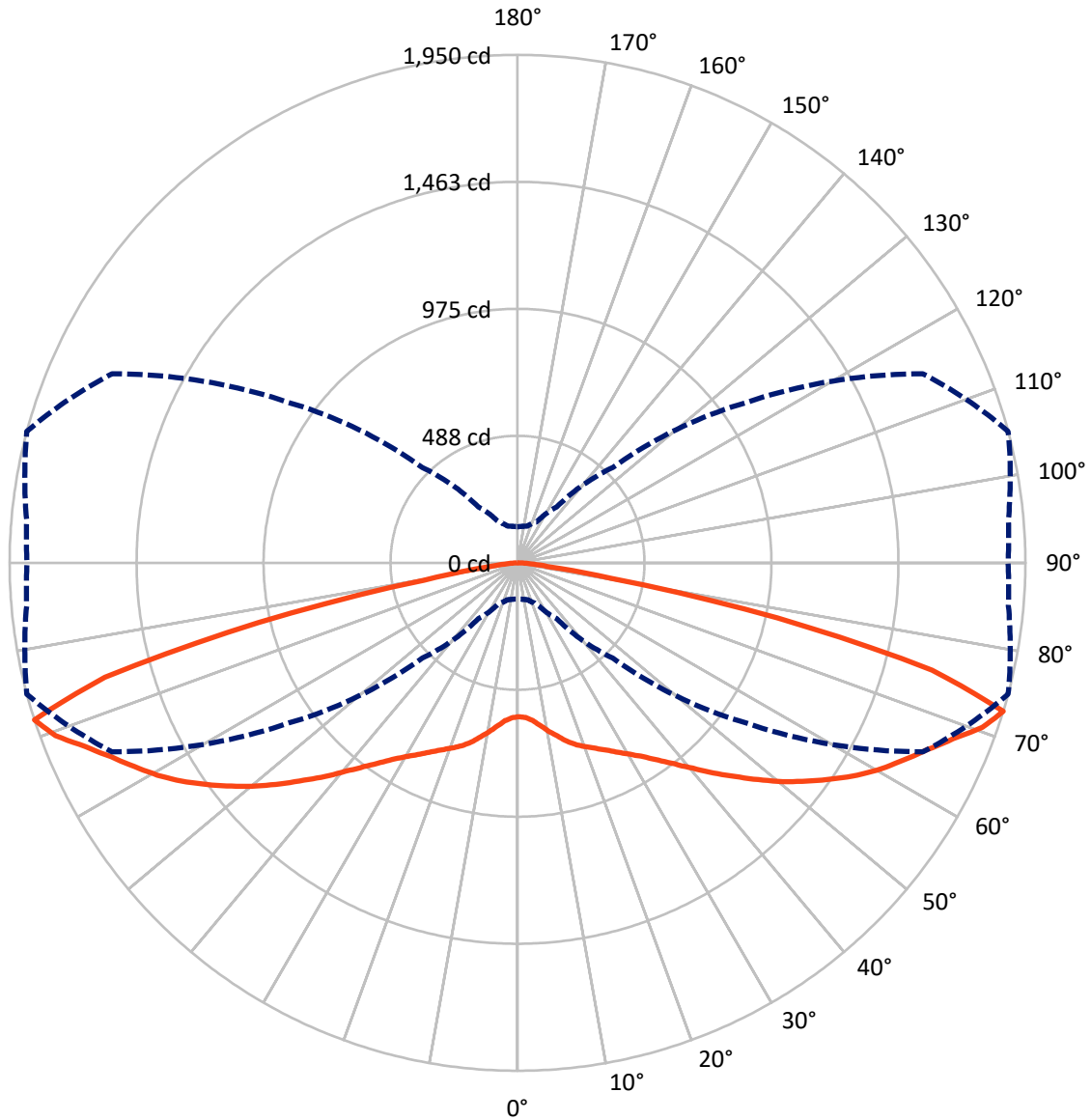
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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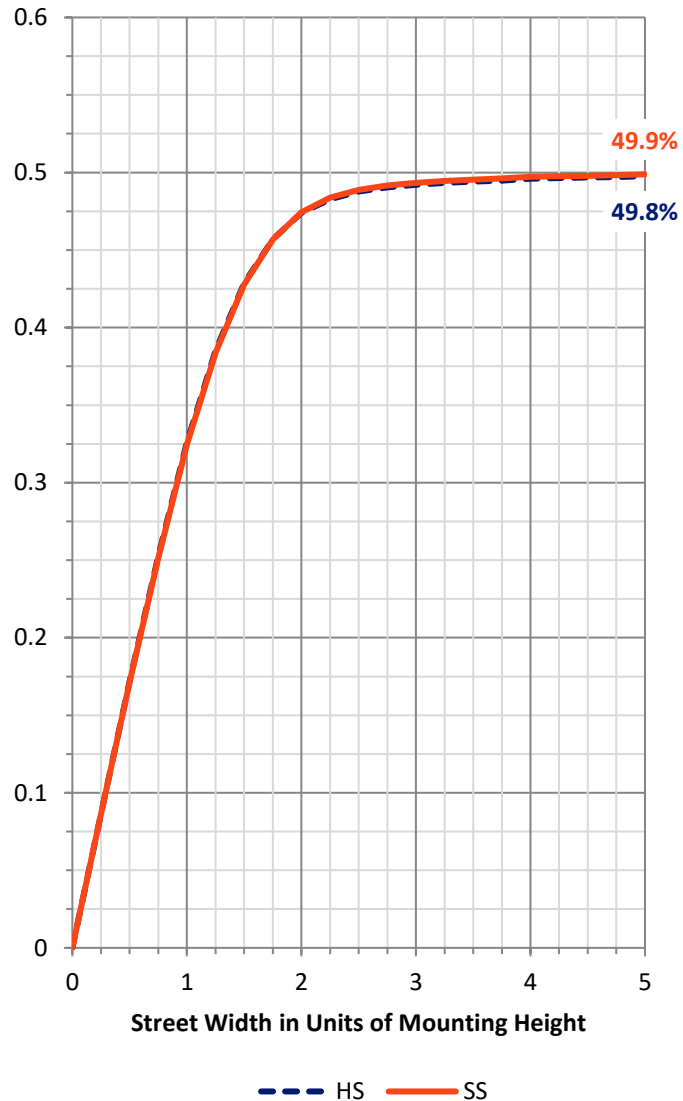
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2757.2	0.0	2757.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2757.2	0.0	2757.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5514.5	0.0	5514.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.0
10°-20°	190.8	3.5
20°-30°	368.8	6.7
30°-40°	622.7	11.3
40°-50°	987.5	17.9
50°-60°	1322.2	24.0
60°-70°	1258.3	22.8
70°-80°	656.6	11.9
80°-90°	49.7	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°	5514.5	100.0
0°-180°	5514.5	100.0

Coefficient of Utilization

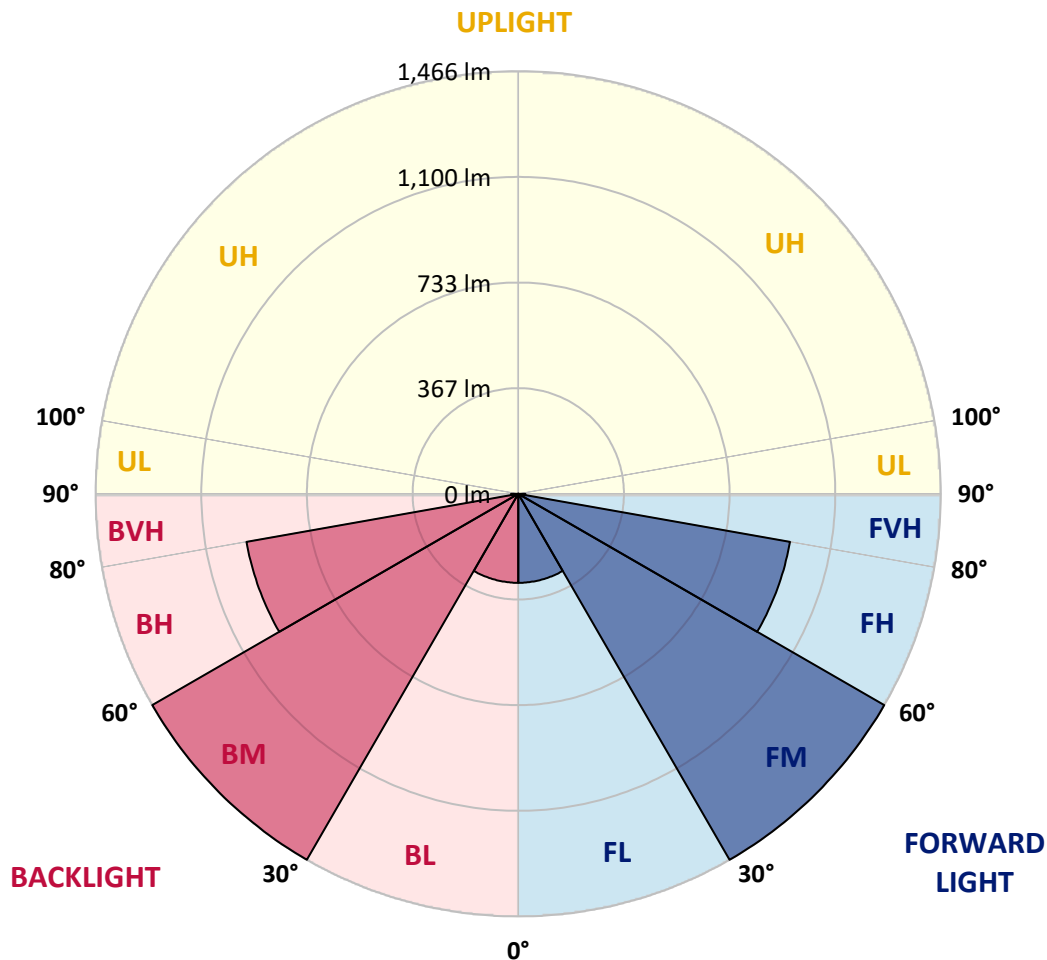


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.7	5.6			
FM (30°-60°)	1466.2	26.6			
FH (60°-80°)	957.4	17.4			G1/1800
FVH (80°-90°)	24.9	0.5			G1/100
BL (0°-30°)	308.7	5.6	B1/500		
BM (30°-60°)	1466.2	26.6	B2/2500		
BH (60°-80°)	957.4	17.4	B2/1000		G2/1000
BVH (80°-90°)	24.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7
2.5°	590.7	590.1	590.7	591.2	591.0	591.0	592.3	593.3	594.9	594.6	594.4
5°	586.7	586.5	588.8	591.2	593.3	596.7	600.9	603.9	607.9	608.7	608.7
7.5°	584.8	583.9	587.8	592.3	598.6	607.0	615.2	623.6	630.4	632.6	633.2
10°	586.2	586.5	591.8	600.2	610.1	622.0	633.4	647.9	657.4	659.7	661.9
12.5°	592.7	592.1	601.2	614.6	628.1	643.1	656.6	672.4	682.8	688.1	690.3
15°	604.5	603.4	616.0	636.0	655.7	673.2	684.2	699.0	711.2	718.0	720.5
17.5°	618.6	619.1	635.7	661.6	687.6	707.2	717.7	725.3	734.6	740.5	743.3
20°	643.4	644.5	663.1	693.7	723.3	745.8	754.3	751.4	754.0	758.5	761.9
22.5°	676.6	677.1	698.0	731.2	762.2	787.0	792.5	781.0	774.0	777.1	779.3
25°	715.1	718.8	739.6	773.7	805.5	829.2	831.7	814.3	796.8	797.7	799.1
27.5°	762.2	765.6	786.7	820.4	852.8	873.4	873.1	849.7	824.1	817.6	819.6
30°	813.1	816.8	838.4	873.4	903.5	921.6	917.6	889.7	853.1	841.0	842.4
32.5°	873.7	876.0	897.9	932.7	960.6	975.0	966.9	932.5	886.9	873.1	876.5
35°	946.9	950.3	966.6	999.5	1024.0	1035.9	1022.0	981.5	930.3	914.8	917.1
37.5°	1030.5	1028.3	1046.8	1076.1	1096.3	1103.7	1084.9	1036.7	979.8	961.6	964.9
40°	1117.8	1116.6	1136.9	1165.1	1176.1	1180.6	1152.7	1100.0	1037.0	1017.2	1023.8
42.5°	1196.9	1196.1	1223.3	1254.6	1267.8	1262.8	1227.5	1167.4	1103.1	1080.7	1086.2
45°	1260.2	1259.1	1292.6	1336.5	1362.4	1354.0	1306.7	1241.7	1170.1	1146.8	1152.1
47.5°	1308.9	1309.5	1345.5	1399.8	1445.2	1448.3	1387.5	1317.4	1243.9	1217.4	1225.3
50°	1344.2	1345.8	1384.4	1444.6	1506.6	1533.9	1470.0	1395.1	1320.2	1290.4	1299.4
52.5°	1352.9	1356.0	1402.4	1473.1	1546.0	1598.1	1553.9	1469.7	1392.6	1364.2	1371.4
55°	1306.4	1312.6	1371.4	1470.9	1570.2	1640.3	1627.7	1545.5	1465.4	1436.2	1444.3
57.5°	1199.7	1208.5	1277.1	1406.9	1564.9	1669.3	1684.8	1618.1	1538.4	1510.2	1516.7
60°	1050.2	1060.6	1126.5	1268.1	1489.4	1680.1	1725.1	1688.8	1605.5	1578.1	1584.0
62.5°	824.7	838.1	917.1	1083.1	1330.0	1630.2	1759.4	1752.6	1665.7	1631.6	1635.6
65°	529.0	543.4	626.5	822.7	1117.5	1477.6	1770.2	1814.9	1729.3	1681.7	1687.7
67.5°	319.0	325.4	366.5	498.7	816.8	1247.5	1679.5	1883.8	1803.6	1744.6	1749.1
70°	204.1	207.8	232.3	292.8	461.8	910.3	1454.8	1896.9	1893.7	1809.0	1808.4
72.5°	138.5	139.6	146.2	173.4	261.3	517.2	1073.0	1717.2	1950.1	1892.0	1883.0
75°	101.4	107.5	118.0	122.8	148.4	258.5	614.9	1206.4	1643.5	1668.8	1607.4
77.5°	75.4	75.7	90.1	95.7	105.9	137.7	260.1	673.5	1020.4	1071.3	955.6
80°	64.0	60.6	60.3	77.2	79.6	85.9	116.2	232.6	365.4	221.6	167.5
82.5°	53.2	49.5	44.8	60.3	54.3	52.7	50.4	94.6	116.2	57.2	48.7
85°	37.2	35.5	33.8	39.5	31.0	26.4	24.2	44.2	49.0	24.2	21.4
87.5°	16.1	16.6	16.9	17.4	12.9	9.3	9.3	12.4	12.4	9.5	7.1
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)