

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: P960277

Luminaire Tested: **NAV-SB1C-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960277
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-SB1C-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7333.9 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

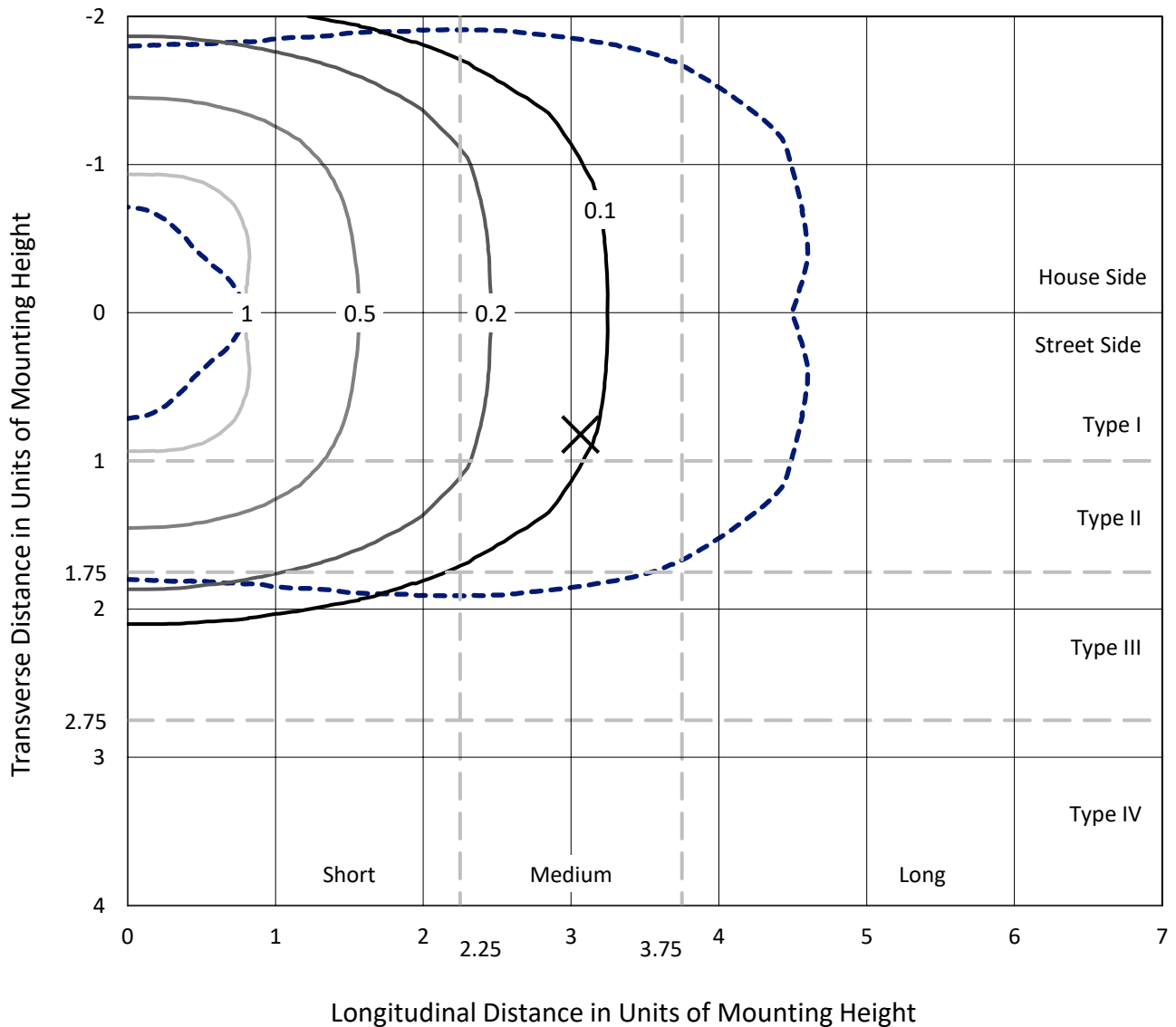
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960277
 CATALOG NUMBER: NAV-SB1C-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

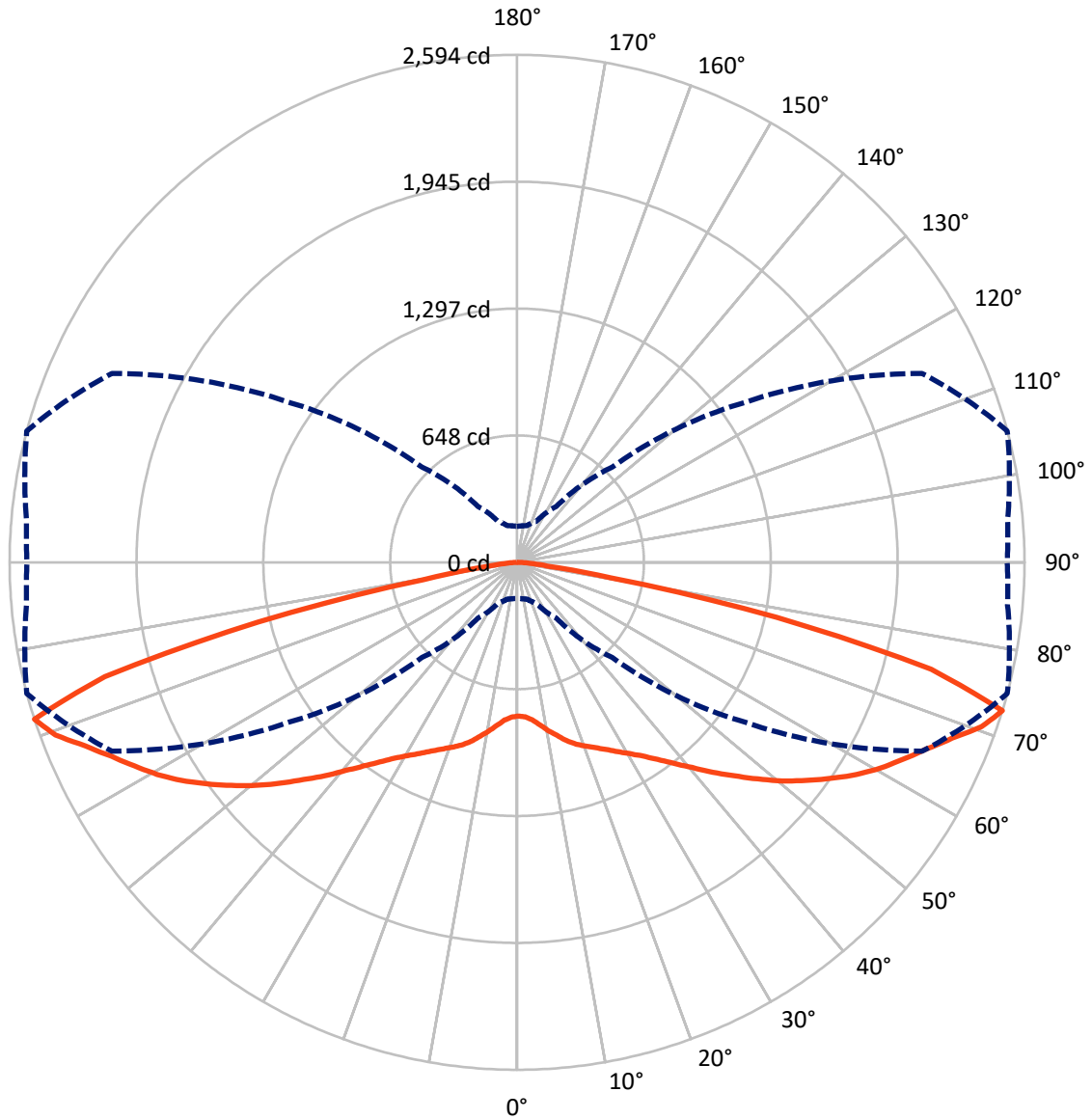
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P960277
CATALOG NUMBER: NAV-SB1C-727-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P960277
 CATALOG NUMBER: NAV-SB1C-727-U-RW

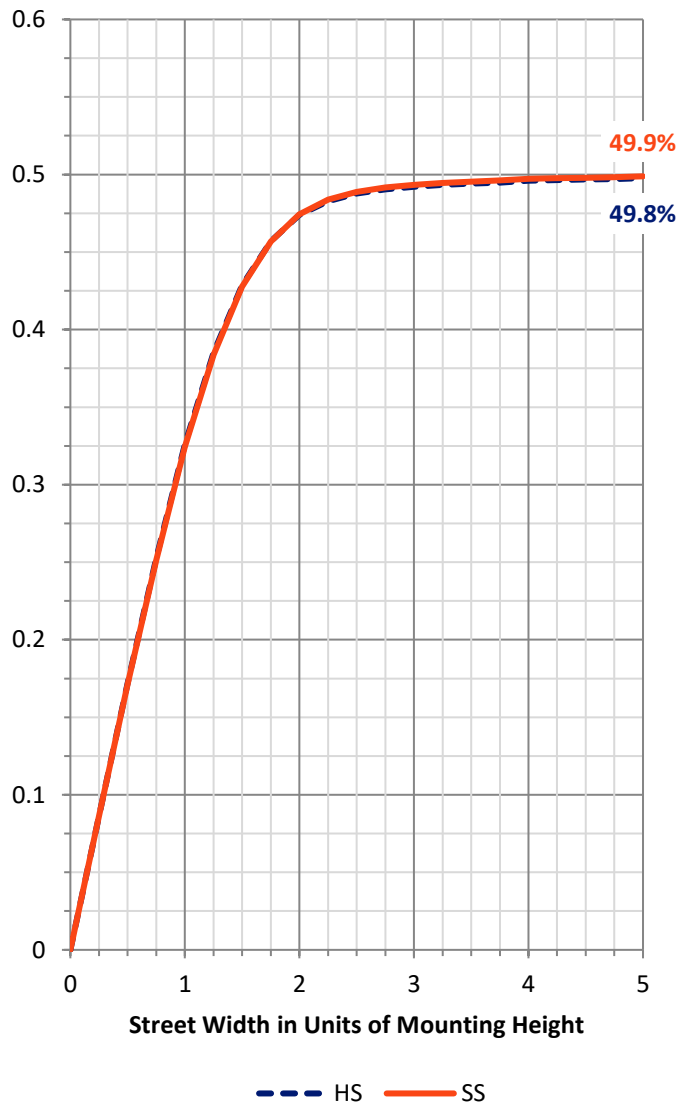
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3666.9	0.0	3666.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3666.9	0.0	3666.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7333.9	0.0	7333.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.0
10°-20°	253.8	3.5
20°-30°	490.4	6.7
30°-40°	828.1	11.3
40°-50°	1313.3	17.9
50°-60°	1758.4	24.0
60°-70°	1673.4	22.8
70°-80°	873.2	11.9
80°-90°	66.1	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°	7333.9	100.0
0°-180°	7333.9	100.0

Coefficient of Utilization

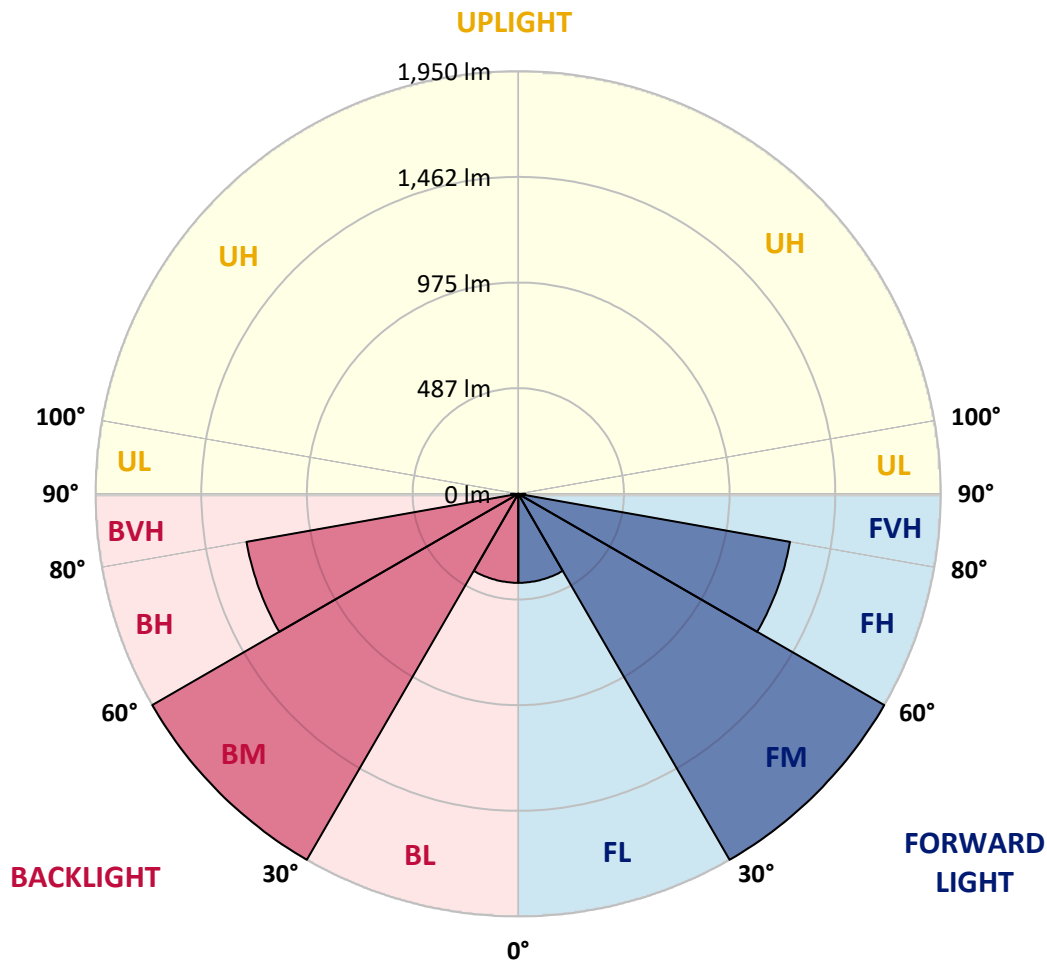


REPORT NUMBER: P960277
 CATALOG NUMBER: NAV-SB1C-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.6	5.6			
FM (30°-60°)	1949.9	26.6			
FH (60°-80°)	1273.3	17.4			G1/1800
FVH (80°-90°)	33.1	0.5			G1/100
BL (0°-30°)	410.6	5.6	B1/500		
BM (30°-60°)	1949.9	26.6	B2/2500		
BH (60°-80°)	1273.3	17.4	B3/2500		G3/2500
BVH (80°-90°)	33.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium



REPORT NUMBER: P960277
 CATALOG NUMBER: NAV-SB1C-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6
2.5°	785.6	784.8	785.6	786.4	786.0	786.0	787.8	788.9	791.2	790.8	790.5
5°	780.3	779.9	783.0	786.4	788.9	793.5	799.1	803.2	808.4	809.5	809.5
7.5°	777.8	776.6	781.9	787.8	796.1	807.3	818.2	829.4	838.3	841.4	842.1
10°	779.6	779.9	787.1	798.3	811.4	827.2	842.6	861.6	874.3	877.3	880.4
12.5°	788.2	787.5	799.4	817.4	835.4	855.3	873.2	894.2	908.0	915.1	918.1
15°	803.9	802.5	819.3	845.8	872.1	895.3	909.9	929.8	945.9	954.9	958.2
17.5°	822.7	823.4	845.5	880.0	914.4	940.6	954.5	964.5	976.9	984.8	988.5
20°	855.6	857.1	881.8	922.6	962.0	991.9	1003.2	999.4	1002.8	1008.8	1013.2
22.5°	899.7	900.6	928.2	972.4	1013.6	1046.6	1054.1	1038.7	1029.3	1033.5	1036.5
25°	951.1	955.9	983.7	1029.0	1071.3	1102.7	1106.1	1082.9	1059.6	1060.8	1062.7
27.5°	1013.6	1018.1	1046.2	1091.1	1134.2	1161.5	1161.1	1130.1	1096.0	1087.4	1090.0
30°	1081.4	1086.3	1115.1	1161.5	1201.6	1225.6	1220.4	1183.3	1134.6	1118.5	1120.3
32.5°	1161.9	1164.9	1194.1	1240.6	1277.7	1296.7	1285.9	1240.1	1179.5	1161.1	1165.6
35°	1259.3	1263.7	1285.5	1329.3	1361.8	1377.6	1359.3	1305.3	1237.2	1216.6	1219.5
37.5°	1370.4	1367.5	1392.2	1431.1	1458.1	1467.8	1442.8	1378.7	1303.1	1278.7	1283.2
40°	1486.6	1485.0	1512.0	1549.5	1564.0	1570.1	1533.0	1463.0	1379.1	1352.9	1361.5
42.5°	1591.7	1590.7	1627.0	1668.5	1686.1	1679.4	1632.6	1552.5	1467.1	1437.2	1444.6
45°	1676.0	1674.5	1719.1	1777.5	1812.0	1800.7	1737.8	1651.3	1556.2	1525.1	1532.3
47.5°	1740.8	1741.6	1789.4	1861.7	1922.1	1926.2	1845.3	1752.0	1654.4	1619.1	1629.5
50°	1787.6	1789.9	1841.1	1921.3	2003.7	2040.0	1955.0	1855.4	1755.8	1716.1	1728.0
52.5°	1799.2	1803.4	1865.1	1959.1	2056.0	2125.3	2066.6	1954.6	1852.0	1814.1	1823.9
55°	1737.5	1745.7	1823.9	1956.1	2088.3	2181.5	2164.7	2055.3	1949.0	1910.1	1921.0
57.5°	1595.5	1607.1	1698.5	1871.1	2081.2	2220.0	2240.6	2152.0	2046.0	2008.5	2017.1
60°	1396.7	1410.5	1498.1	1686.5	1980.8	2234.3	2294.3	2246.0	2135.1	2098.8	2106.7
62.5°	1096.8	1114.7	1219.5	1440.5	1768.8	2168.1	2339.9	2331.0	2215.2	2169.9	2175.2
65°	703.6	722.7	833.1	1094.1	1486.1	1965.1	2354.1	2413.7	2299.9	2236.5	2244.4
67.5°	424.2	432.9	487.5	663.2	1086.3	1659.2	2233.6	2505.4	2398.7	2320.1	2326.0
70°	271.5	276.3	308.9	389.4	614.1	1210.6	1934.8	2522.6	2518.5	2405.8	2405.1
72.5°	184.2	185.7	194.3	230.6	347.5	687.9	1427.0	2283.7	2593.5	2516.3	2504.3
75°	134.8	143.0	156.9	163.3	197.3	343.8	817.7	1604.5	2185.6	2219.3	2137.7
77.5°	100.3	100.8	119.8	127.3	140.8	183.1	346.0	895.6	1357.0	1424.7	1270.9
80°	85.0	80.5	80.2	102.6	106.0	114.2	154.7	309.2	486.1	294.7	222.8
82.5°	70.7	65.9	59.6	80.2	72.3	70.0	67.0	125.8	154.7	76.1	64.8
85°	49.4	47.2	44.9	52.4	41.2	35.2	32.2	58.8	65.2	32.2	28.5
87.5°	21.3	22.1	22.4	23.2	17.2	12.4	12.4	16.5	16.5	12.7	9.3
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)