

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: P960272

Luminaire Tested: **NAV-SB1C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7458.9 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

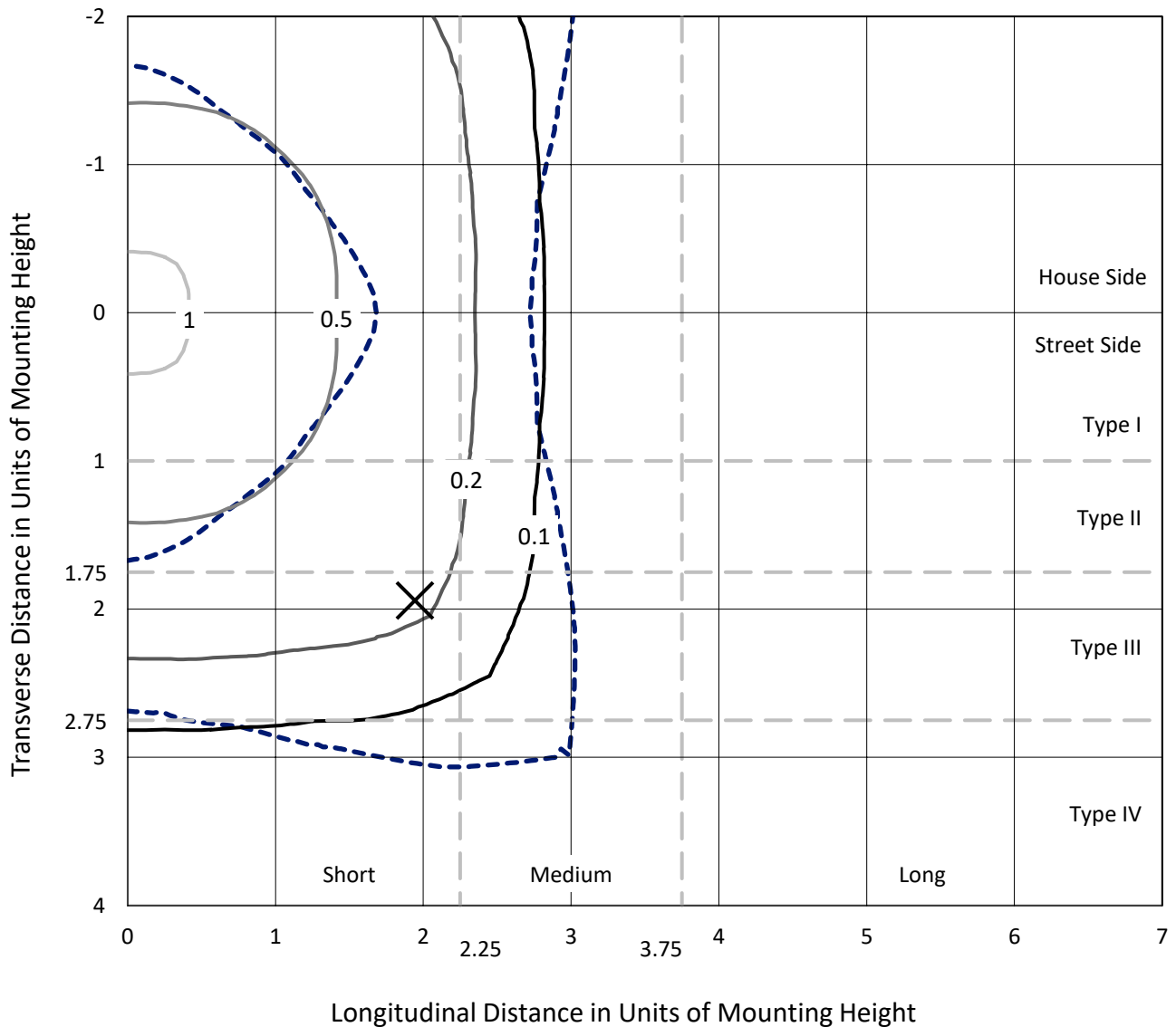
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960272
 CATALOG NUMBER: NAV-SB1C-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

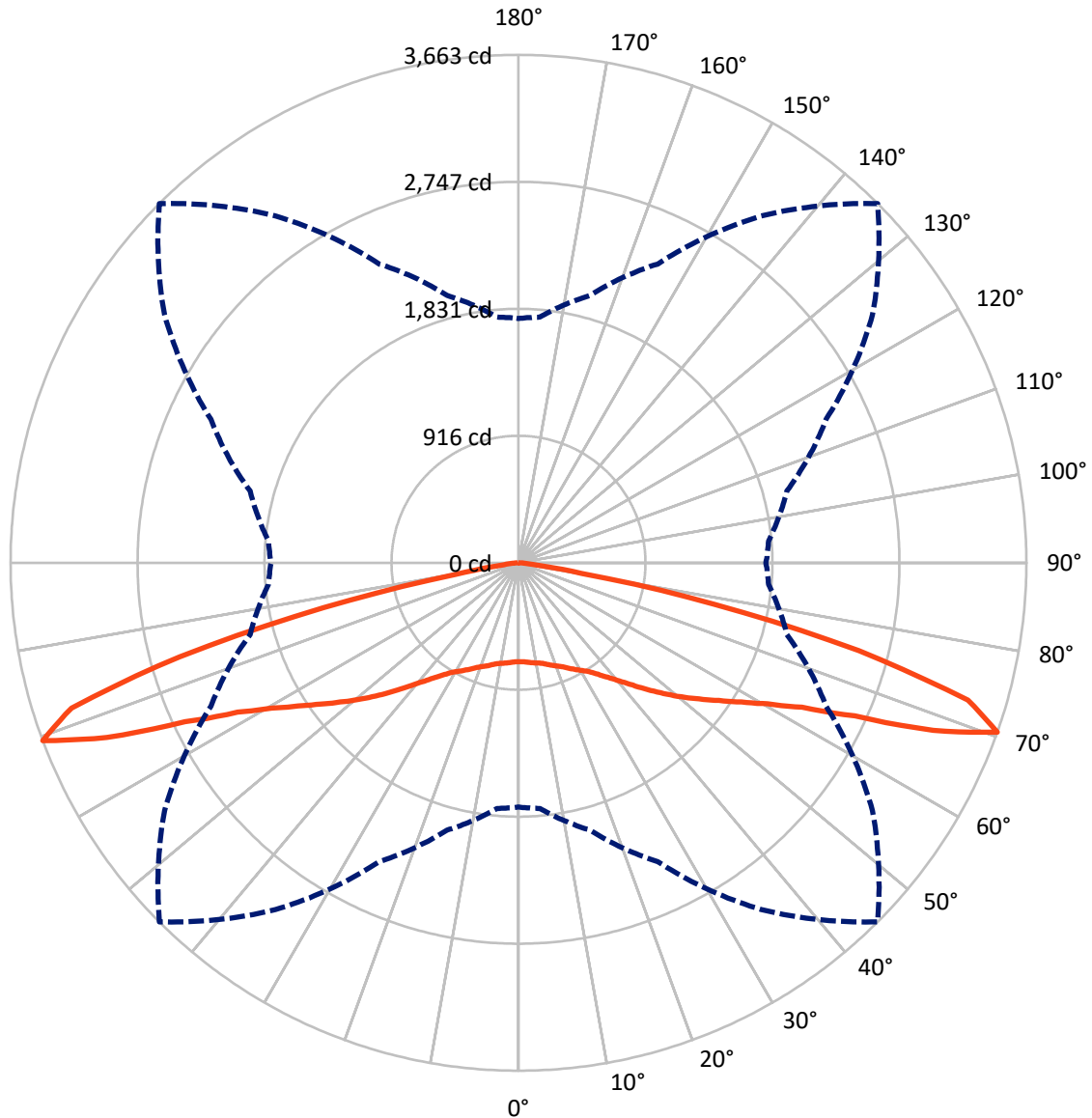
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

REPORT NUMBER: P960272
CATALOG NUMBER: NAV-SB1C-727-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P960272
 CATALOG NUMBER: NAV-SB1C-727-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3729.5	0.0	3729.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3729.5	0.0	3729.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7458.9	0.0	7458.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	0.9
10°-20°	215.2	2.9
20°-30°	384.7	5.2
30°-40°	623.5	8.4
40°-50°	1015.6	13.6
50°-60°	1548.5	20.8
60°-70°	2303.7	30.9
70°-80°	1255.6	16.8
80°-90°	42.8	0.6
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°	7458.9	100.0
0°-180°	7458.9	100.0

Coefficient of Utilization



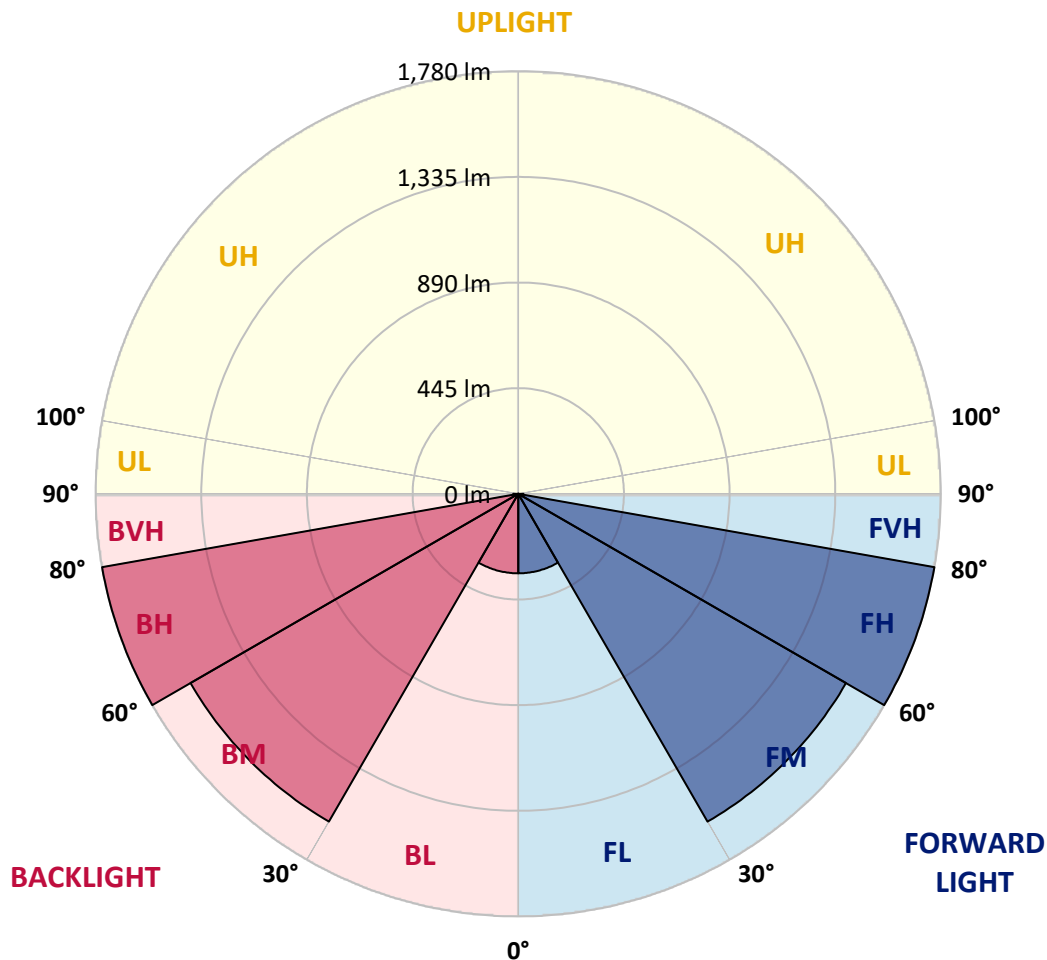
REPORT NUMBER: P960272
 CATALOG NUMBER: NAV-SB1C-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.7	4.5			
FM (30°-60°)	1593.8	21.4			
FH (60°-80°)	1779.6	23.9			G1/1800
FVH (80°-90°)	21.4	0.3			G1/100
BL (0°-30°)	334.7	4.5	B1/500		
BM (30°-60°)	1593.8	21.4	B2/2500		
BH (60°-80°)	1779.6	23.9	B3/2500		G1/1800
BVH (80°-90°)	21.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



REPORT NUMBER: P960272
 CATALOG NUMBER: NAV-SB1C-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	714.5	714.5	714.5	714.5	714.5	714.5	714.5	714.5	714.5	714.5	714.5
2.5°	717.8	718.6	717.1	716.4	715.7	714.5	714.8	716.8	718.2	717.8	718.2
5°	723.9	724.6	723.4	723.1	721.6	721.2	721.2	723.1	724.3	723.4	723.9
7.5°	730.6	731.7	729.8	729.5	728.7	728.0	727.5	729.5	730.6	730.6	730.6
10°	737.0	738.1	736.6	735.4	734.7	734.7	734.0	735.4	737.3	737.0	737.0
12.5°	743.7	744.5	742.9	742.2	742.2	743.3	742.2	742.9	744.5	743.7	743.3
15°	751.9	752.3	751.9	753.1	754.9	758.7	755.3	754.6	755.3	753.5	753.5
17.5°	763.2	763.9	765.4	768.0	770.7	777.4	771.4	769.6	769.6	765.8	765.8
20°	777.1	778.2	780.4	784.8	788.2	794.6	788.6	786.0	784.8	780.0	780.0
22.5°	791.6	793.5	796.8	802.9	808.8	814.9	808.8	804.3	801.0	794.6	794.3
25°	808.5	810.8	816.0	825.7	833.9	842.6	835.5	826.5	819.7	810.8	810.4
27.5°	832.4	835.1	841.4	853.4	863.9	871.4	864.7	853.0	843.7	832.8	832.4
30°	866.1	868.8	876.3	889.0	896.1	901.0	896.5	887.4	876.3	863.9	863.9
32.5°	909.6	913.0	921.2	933.2	934.7	935.4	933.9	929.5	921.2	906.2	906.6
35°	964.6	968.4	977.7	987.5	985.9	987.5	985.2	983.7	977.7	960.5	960.5
37.5°	1032.1	1036.6	1046.2	1053.8	1050.0	1048.2	1048.5	1048.9	1045.5	1026.4	1026.4
40°	1110.3	1116.3	1123.4	1131.3	1124.9	1119.3	1123.0	1126.1	1123.0	1103.5	1103.5
42.5°	1190.8	1199.5	1206.9	1218.1	1212.9	1205.8	1211.0	1214.4	1208.1	1187.1	1188.6
45°	1280.3	1288.5	1298.3	1315.2	1311.4	1303.9	1311.4	1312.1	1301.2	1276.5	1279.2
47.5°	1372.8	1381.4	1396.0	1418.5	1417.0	1408.8	1418.5	1413.3	1399.4	1369.8	1368.0
50°	1460.4	1472.4	1494.9	1526.3	1529.3	1519.3	1532.4	1522.2	1499.0	1462.0	1461.1
52.5°	1542.8	1555.5	1591.1	1633.8	1644.7	1631.6	1649.1	1631.6	1596.7	1549.2	1544.7
55°	1629.3	1643.6	1685.8	1741.7	1763.4	1753.7	1770.1	1743.5	1694.1	1636.4	1628.5
57.5°	1731.1	1739.8	1790.4	1856.6	1893.3	1895.5	1903.0	1858.1	1798.2	1732.7	1723.6
60°	1841.6	1853.6	1908.7	1988.1	2046.1	2064.9	2057.0	1990.3	1920.6	1845.4	1833.4
62.5°	1983.2	1996.3	2062.2	2157.3	2249.1	2295.5	2264.8	2168.2	2082.1	1991.8	1976.1
65°	2100.4	2115.0	2234.1	2403.7	2570.7	2664.0	2586.8	2409.0	2254.0	2126.6	2105.7
67.5°	2015.4	2033.4	2220.3	2531.8	2947.1	3225.3	2961.3	2570.0	2266.3	2093.7	2067.8
70°	1761.5	1778.4	1996.3	2377.2	3053.1	3662.7	3116.7	2447.2	2003.4	1810.2	1784.3
72.5°	1169.4	1223.7	1444.3	1901.2	2726.1	3389.4	2753.1	1862.6	1339.9	1166.9	1129.0
75°	388.0	431.4	581.9	985.6	1825.9	2534.8	1738.3	872.2	460.9	331.8	313.9
77.5°	97.8	112.7	155.4	282.0	728.4	1443.2	655.7	230.3	125.5	87.6	78.3
80°	47.6	52.4	74.9	94.0	182.3	458.7	171.2	88.4	59.1	45.7	41.9
82.5°	26.2	26.5	42.3	53.2	67.8	118.7	70.4	51.7	34.0	27.7	27.7
85°	16.1	15.7	22.4	28.5	28.5	42.3	33.7	28.5	19.5	17.2	17.9
87.5°	6.4	6.4	8.2	9.0	7.9	10.9	8.6	9.3	7.5	7.1	7.5
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)