

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: P960274

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7204.7 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

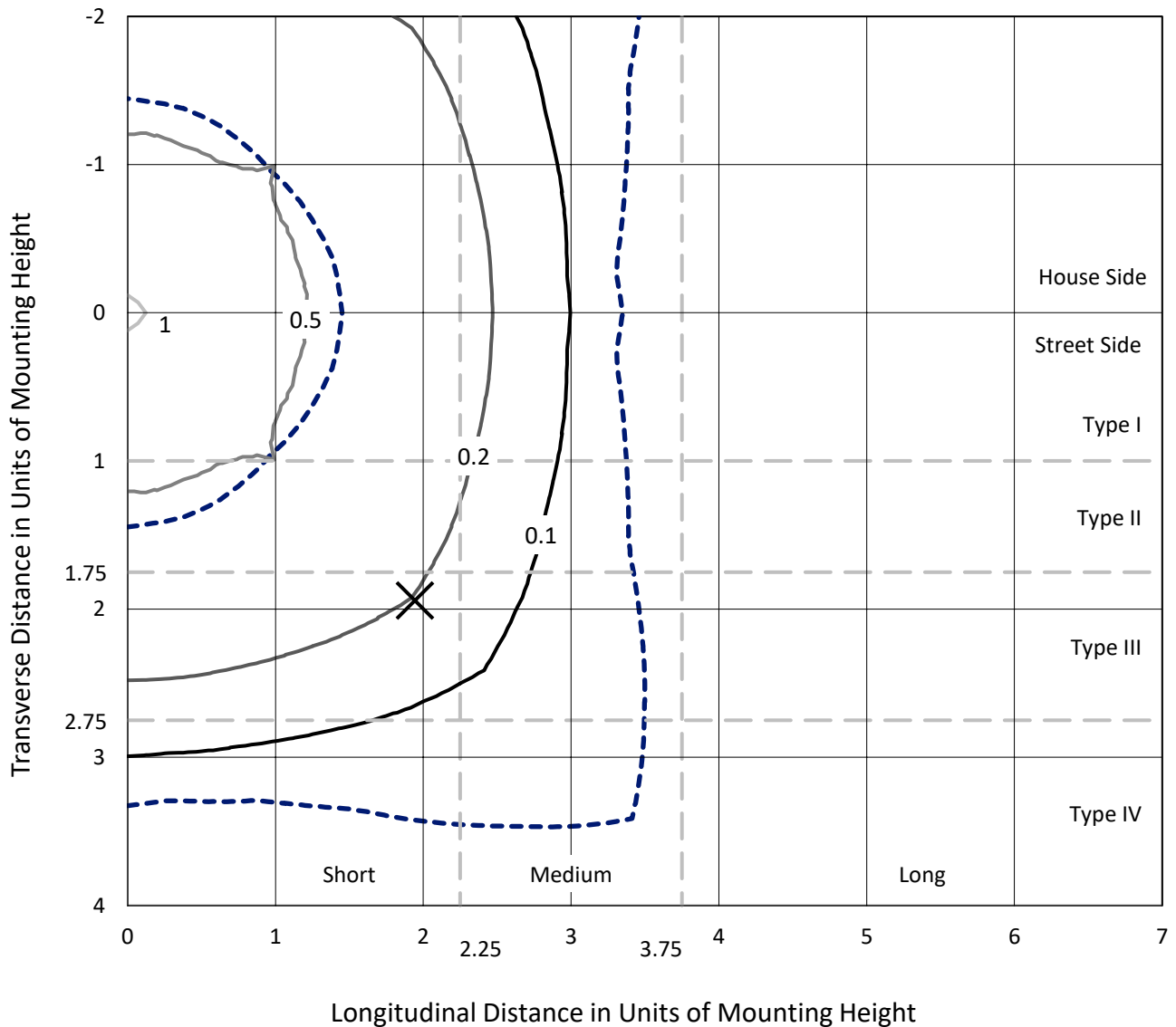
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960274
 CATALOG NUMBER: NAV-SB1C-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

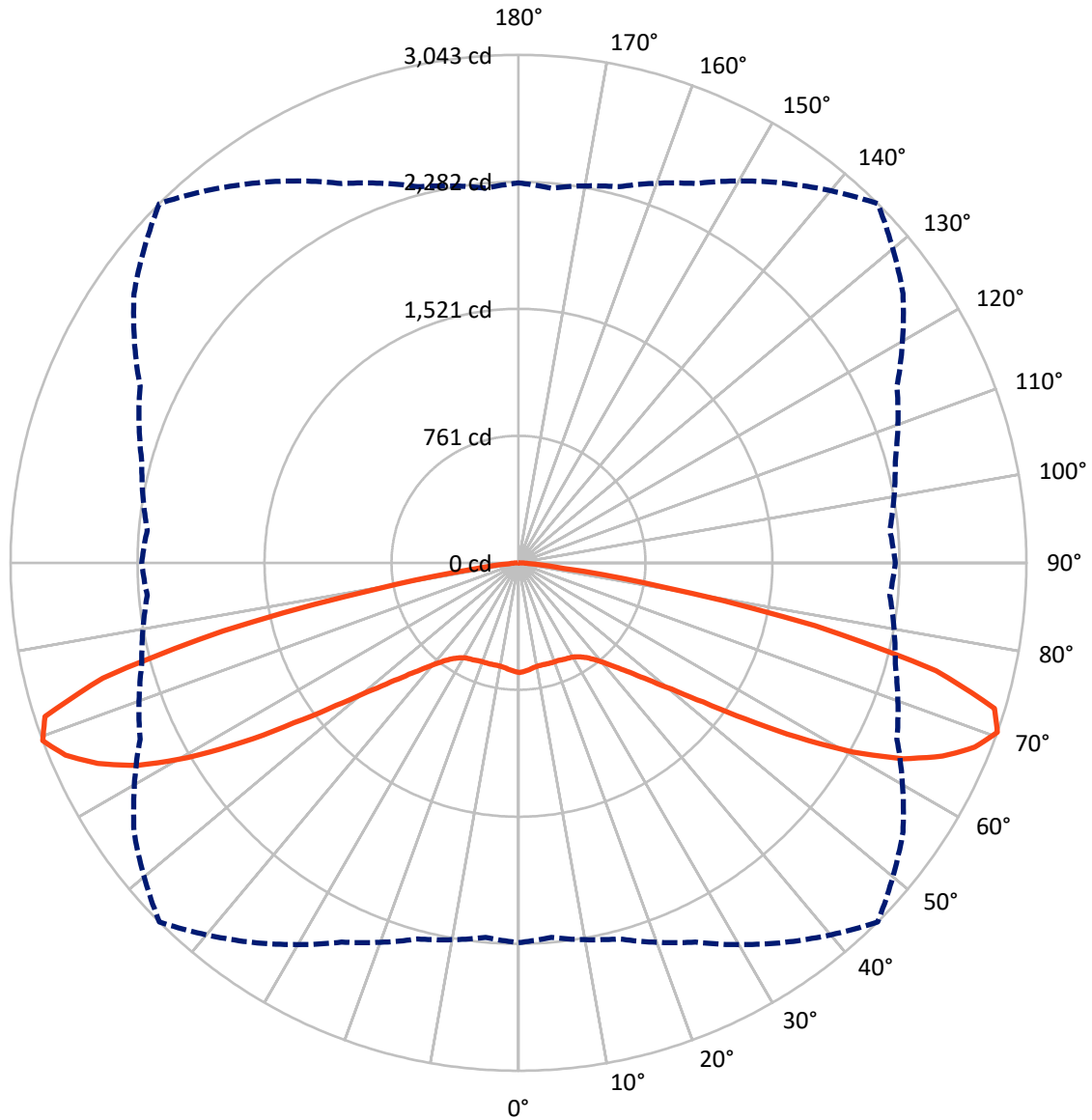
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P960274
CATALOG NUMBER: NAV-SB1C-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P960274
 CATALOG NUMBER: NAV-SB1C-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3602.3	0.0	3602.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3602.3	0.0	3602.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	7204.7	0.0	7204.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	0.8
10°-20°	179.5	2.5
20°-30°	298.7	4.1
30°-40°	451.8	6.3
40°-50°	750.7	10.4
50°-60°	1416.6	19.7
60°-70°	2392.0	33.2
70°-80°	1571.8	21.8
80°-90°	82.3	1.1
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°	7204.7	100.0
0°-180°	7204.7	100.0

Coefficient of Utilization



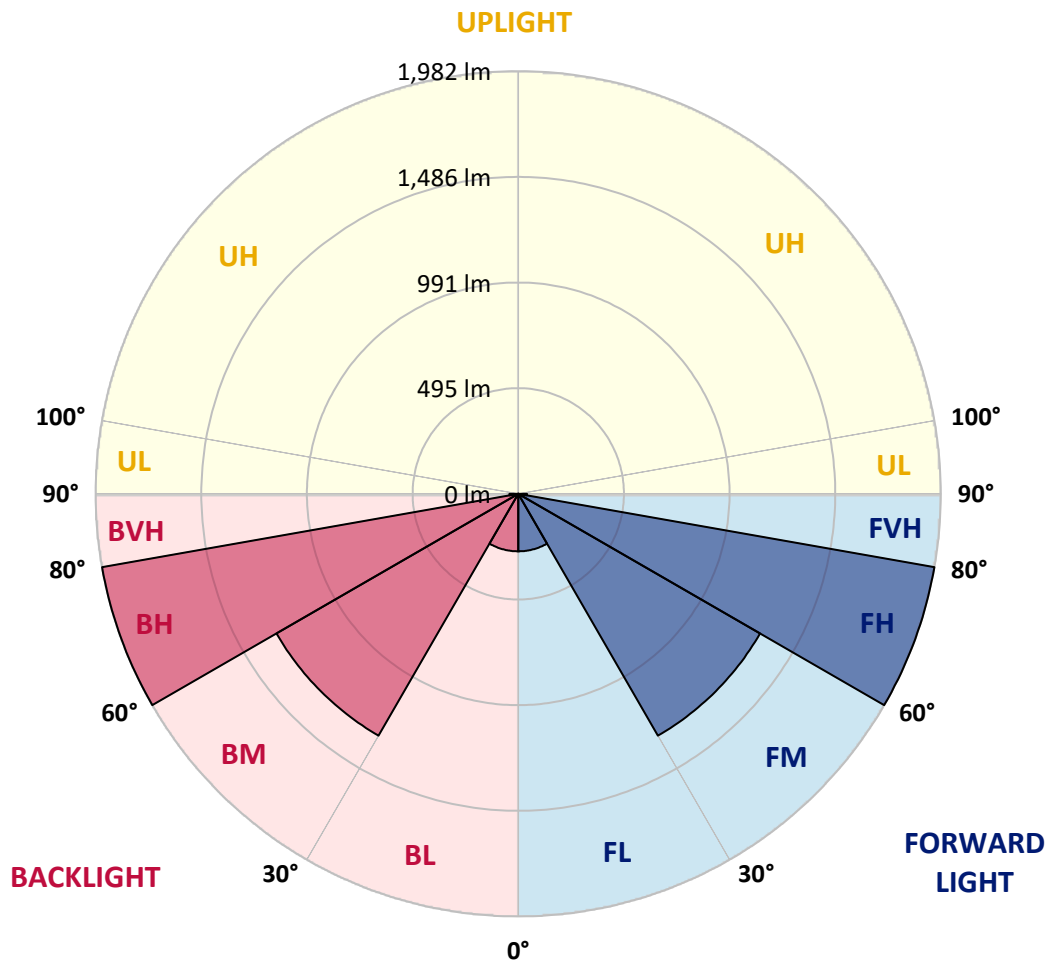
REPORT NUMBER: P960274
 CATALOG NUMBER: NAV-SB1C-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.7	3.7			
FM (30°-60°)	1309.6	18.2			
FH (60°-80°)	1981.9	27.5			G2/5000
FVH (80°-90°)	41.2	0.6			G1/100
BL (0°-30°)	269.7	3.7	B1/500		
BM (30°-60°)	1309.6	18.2	B2/2500		
BH (60°-80°)	1981.9	27.5	B3/2500		G2/5000
BVH (80°-90°)	41.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P960274
 CATALOG NUMBER: NAV-SB1C-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	653.1	655.0	654.3	652.7	652.7	651.6	652.7	653.4	654.6	655.4	655.0
5°	644.5	646.0	645.6	644.5	644.8	643.7	644.5	645.6	646.4	646.8	646.8
7.5°	637.0	638.5	637.8	635.9	635.9	634.8	635.1	636.2	637.3	637.8	637.8
10°	635.1	636.6	634.4	631.4	630.3	628.7	629.1	630.3	632.5	633.7	633.7
12.5°	635.9	637.0	634.8	630.3	629.1	627.6	627.6	628.7	631.7	633.2	633.7
15°	638.2	639.2	635.9	631.0	629.9	628.7	628.4	629.9	633.2	635.9	636.2
17.5°	642.3	643.4	638.2	631.4	629.9	630.3	629.9	631.0	636.2	641.1	641.1
20°	646.0	646.8	639.6	631.4	629.9	630.3	629.9	632.1	638.9	645.6	646.0
22.5°	647.1	647.9	641.1	634.0	632.8	633.2	632.8	635.1	641.4	648.2	648.2
25°	647.5	648.6	643.4	637.8	639.6	640.3	639.6	640.0	644.8	650.9	650.5
27.5°	653.1	654.6	649.7	644.8	646.0	645.6	646.8	647.9	651.6	657.6	656.1
30°	664.7	665.8	661.7	656.8	656.1	653.4	656.8	660.6	664.7	669.9	668.8
32.5°	683.8	686.0	680.8	675.6	672.2	670.7	673.3	679.7	685.3	691.0	688.7
35°	715.7	717.1	712.3	702.5	696.5	696.5	698.7	707.0	716.0	723.1	720.5
37.5°	760.6	762.4	753.8	742.2	733.3	733.3	736.3	744.9	758.3	768.4	764.6
40°	815.3	817.8	807.0	795.0	786.4	784.9	788.6	798.4	811.1	823.9	819.7
42.5°	881.2	884.2	869.9	859.5	852.7	852.7	854.5	863.6	875.1	890.9	889.8
45°	965.4	970.7	951.2	940.7	934.3	935.8	937.0	944.8	955.3	973.2	972.5
47.5°	1065.8	1071.0	1050.4	1039.6	1038.4	1045.6	1041.1	1046.6	1052.3	1072.9	1066.9
50°	1179.6	1188.6	1174.3	1173.6	1175.9	1189.0	1178.5	1181.5	1175.2	1188.3	1180.4
52.5°	1319.0	1332.0	1329.4	1333.9	1358.9	1386.0	1362.0	1351.5	1327.6	1331.7	1317.8
55°	1487.8	1507.7	1511.4	1538.4	1595.3	1650.4	1599.4	1557.1	1506.1	1496.8	1482.1
57.5°	1680.0	1695.7	1713.6	1768.6	1875.0	1972.8	1875.0	1781.4	1701.3	1682.1	1668.7
60°	1886.6	1906.1	1923.3	2004.6	2162.6	2300.1	2159.7	2010.9	1905.0	1879.1	1856.7
62.5°	2108.7	2133.8	2145.7	2236.0	2420.2	2584.3	2422.9	2242.8	2125.2	2097.5	2075.0
65°	2321.8	2342.4	2355.9	2452.1	2628.1	2792.5	2640.1	2462.6	2341.6	2305.3	2287.3
67.5°	2421.0	2432.2	2465.2	2574.2	2759.9	2947.6	2791.4	2585.8	2450.6	2386.9	2387.7
70°	2275.7	2252.8	2332.3	2506.7	2775.7	3042.7	2811.6	2501.5	2336.0	2232.7	2257.4
72.5°	1758.6	1719.2	1857.1	2155.5	2595.9	2982.0	2613.9	2172.4	1942.8	1733.1	1785.1
75°	956.8	912.2	1102.5	1480.0	2070.1	2584.6	2117.6	1522.2	1227.5	949.7	1011.5
77.5°	270.0	253.2	406.7	716.0	1245.2	1814.8	1293.0	731.7	482.4	286.1	318.0
80°	82.7	80.2	108.6	215.7	528.8	869.2	508.2	218.3	138.2	87.2	92.1
82.5°	49.1	44.9	53.9	78.6	134.8	273.0	131.1	82.0	65.9	44.2	48.0
85°	28.1	26.2	31.9	38.2	45.3	58.0	37.8	38.9	35.2	23.6	24.7
87.5°	11.6	10.5	12.4	12.0	10.5	13.5	10.1	12.0	14.2	9.3	8.6
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)