

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: P961855

Luminaire Tested: **NAV-SB2B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961855
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-SB2B-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10829.1 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

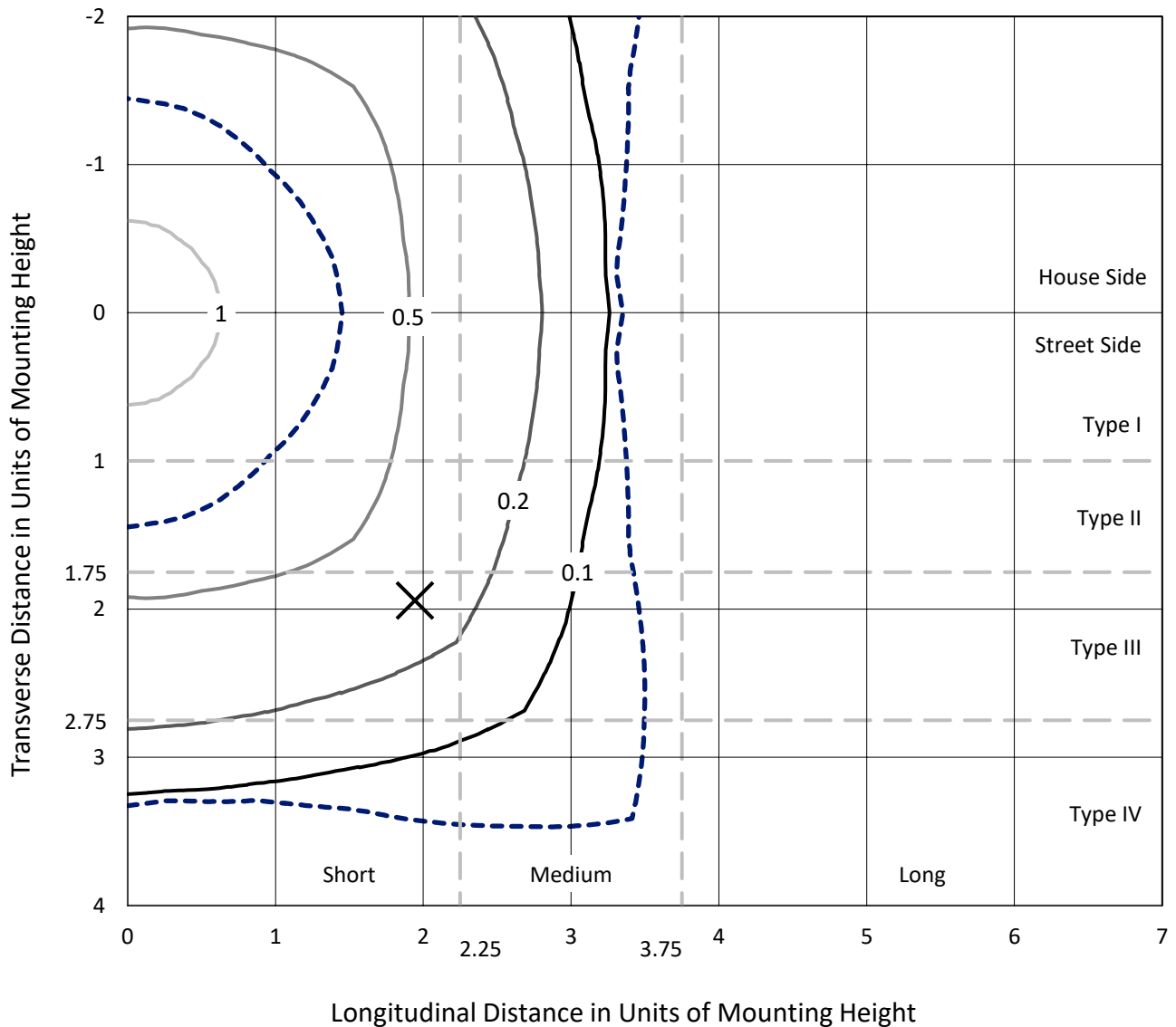
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961855
 CATALOG NUMBER: NAV-SB2B-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

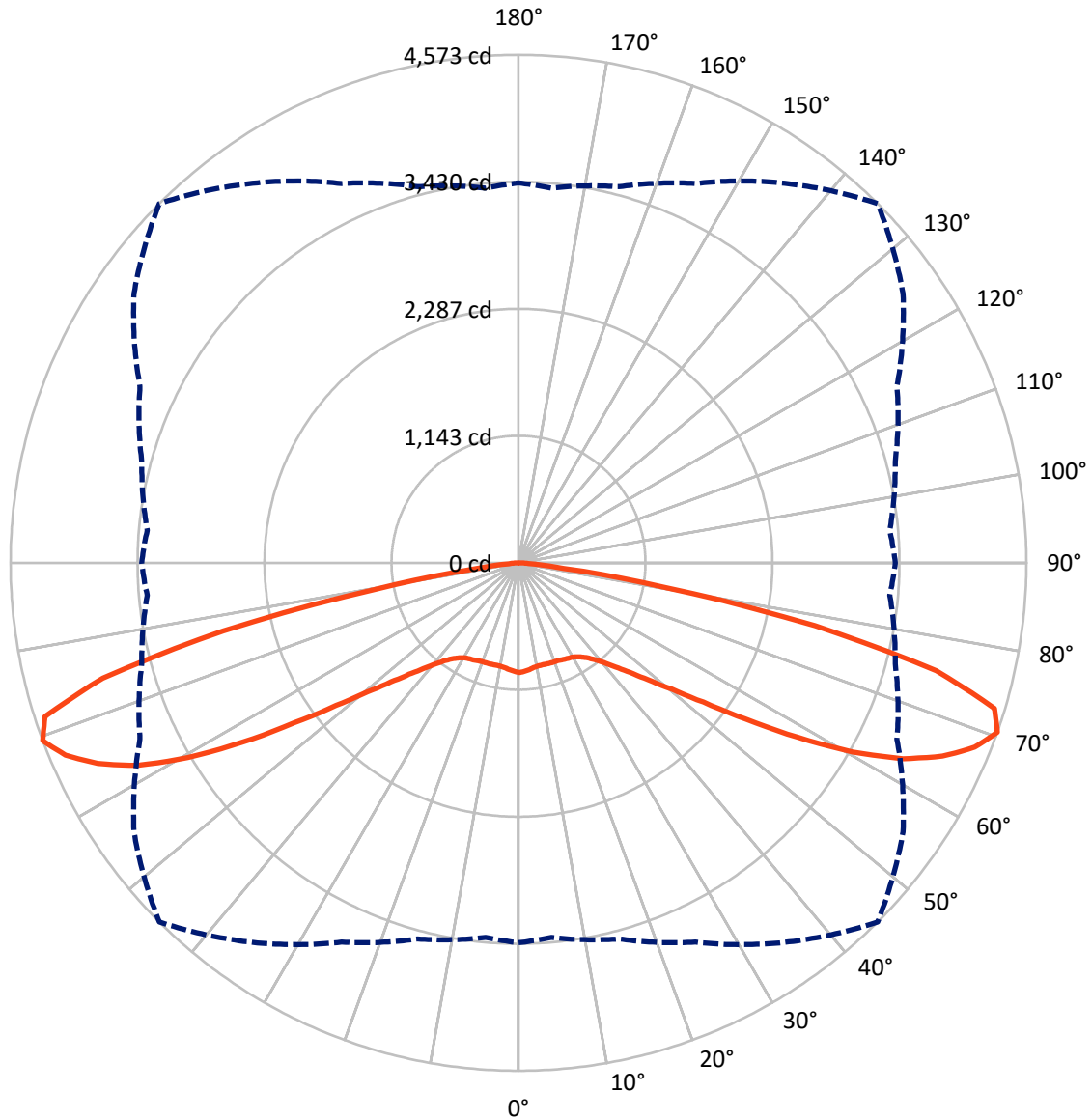
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

REPORT NUMBER: P961855
CATALOG NUMBER: NAV-SB2B-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P961855
 CATALOG NUMBER: NAV-SB2B-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5414.5	0.0	5414.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5414.5	0.0	5414.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10829.1	0.0	10829.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	0.8
10°-20°	269.8	2.5
20°-30°	449.0	4.1
30°-40°	679.0	6.3
40°-50°	1128.4	10.4
50°-60°	2129.3	19.7
60°-70°	3595.4	33.2
70°-80°	2362.5	21.8
80°-90°	123.8	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°	10829.1	100.0
0°-180°	10829.1	100.0

Coefficient of Utilization

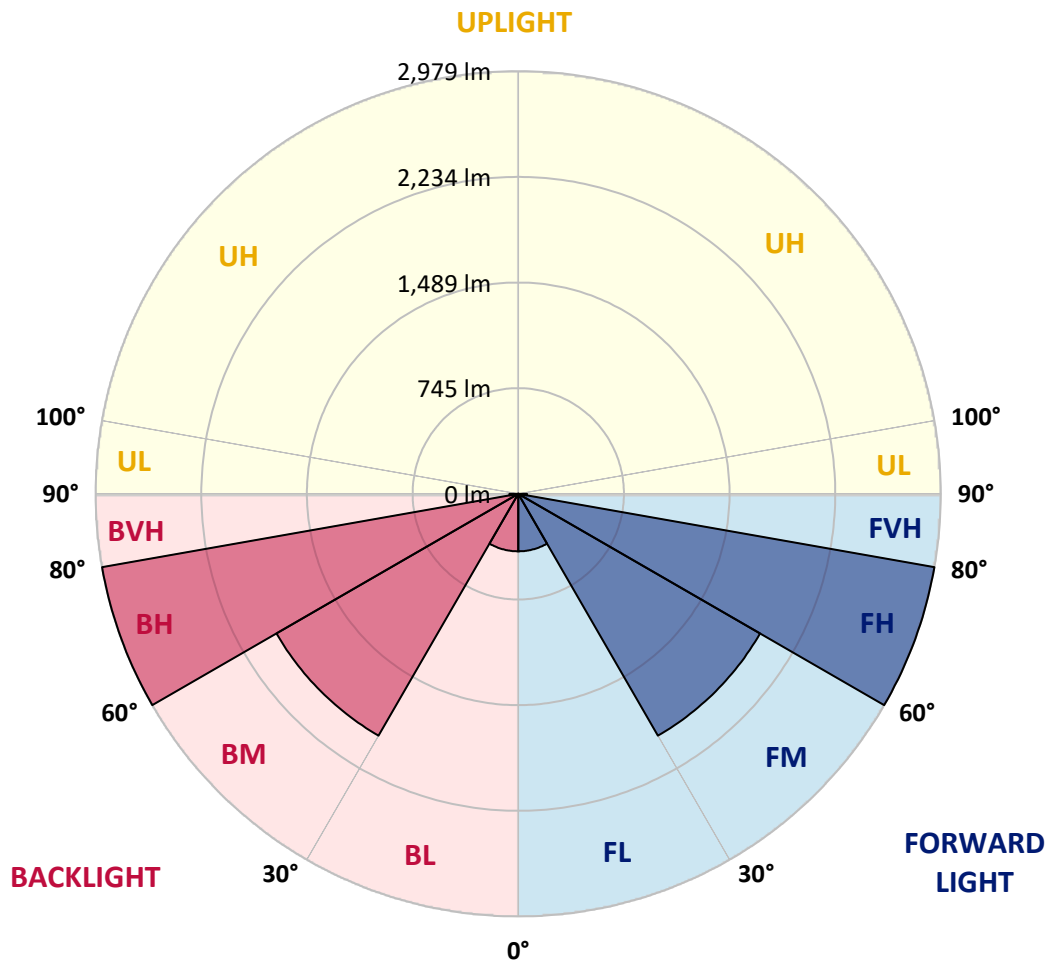


REPORT NUMBER: P961855
 CATALOG NUMBER: NAV-SB2B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.4	3.7			
FM (30°-60°)	1968.4	18.2			
FH (60°-80°)	2978.9	27.5			G2/5000
FVH (80°-90°)	61.9	0.6			G1/100
BL (0°-30°)	405.4	3.7	B1/500		
BM (30°-60°)	1968.4	18.2	B2/2500		
BH (60°-80°)	2978.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	61.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short



REPORT NUMBER: P961855
 CATALOG NUMBER: NAV-SB2B-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8
2.5°	981.6	984.4	983.3	981.1	981.1	979.4	981.1	982.2	983.9	985.0	984.4
5°	968.7	971.0	970.4	968.7	969.2	967.6	968.7	970.4	971.5	972.1	972.1
7.5°	957.5	959.7	958.6	955.7	955.7	954.1	954.6	956.3	958.0	958.6	958.6
10°	954.6	956.8	953.5	949.0	947.3	945.0	945.7	947.3	950.7	952.3	952.3
12.5°	955.7	957.5	954.1	947.3	945.7	943.4	943.4	945.0	949.6	951.8	952.3
15°	959.1	960.8	955.7	948.4	946.8	945.0	944.5	946.8	951.8	955.7	956.3
17.5°	965.3	967.0	959.1	949.0	946.8	947.3	946.8	948.4	956.3	963.6	963.6
20°	971.0	972.1	961.3	949.0	946.8	947.3	946.8	950.1	960.2	970.4	971.0
22.5°	972.6	973.7	963.6	952.9	951.2	951.8	951.2	954.6	964.2	974.4	974.4
25°	973.2	974.9	967.0	958.6	961.3	962.5	961.3	962.0	969.2	978.3	977.7
27.5°	981.6	983.9	976.6	969.2	971.0	970.4	972.1	973.7	979.4	988.4	986.2
30°	999.1	1000.8	994.6	987.3	986.2	982.2	987.3	992.9	999.1	1007.0	1005.3
32.5°	1027.8	1031.1	1023.3	1015.4	1010.3	1008.1	1012.1	1021.6	1030.0	1038.5	1035.1
35°	1075.6	1077.9	1070.6	1056.0	1046.9	1046.9	1050.3	1062.7	1076.2	1086.9	1082.9
37.5°	1143.2	1145.9	1133.0	1115.6	1102.1	1102.1	1106.6	1119.5	1139.8	1155.0	1149.3
40°	1225.4	1229.3	1213.0	1194.9	1182.0	1179.8	1185.4	1200.1	1219.1	1238.3	1232.2
42.5°	1324.4	1328.9	1307.6	1291.8	1281.7	1281.7	1284.4	1298.0	1315.4	1339.1	1337.4
45°	1451.1	1459.0	1429.7	1413.9	1404.4	1406.6	1408.2	1420.1	1435.9	1462.9	1461.8
47.5°	1602.0	1609.8	1578.8	1562.5	1560.9	1571.5	1564.8	1573.2	1581.7	1612.6	1603.6
50°	1773.0	1786.6	1765.2	1764.0	1767.4	1787.1	1771.3	1775.8	1766.3	1786.0	1774.2
52.5°	1982.5	2002.1	1998.1	2004.9	2042.6	2083.2	2047.1	2031.3	1995.4	2001.5	1980.7
55°	2236.2	2266.1	2271.7	2312.3	2397.8	2480.6	2404.0	2340.4	2263.8	2249.8	2227.8
57.5°	2525.0	2548.7	2575.7	2658.4	2818.2	2965.2	2818.2	2677.6	2557.1	2528.4	2508.2
60°	2835.8	2865.0	2890.9	3013.0	3250.6	3457.1	3246.1	3022.6	2863.3	2824.5	2790.7
62.5°	3169.5	3207.2	3225.3	3360.9	3637.8	3884.3	3641.7	3371.0	3194.3	3152.6	3118.9
65°	3489.8	3520.8	3541.0	3685.7	3950.2	4197.3	3968.2	3701.4	3519.6	3465.0	3438.0
67.5°	3639.0	3655.9	3705.4	3869.2	4148.4	4430.4	4195.6	3886.6	3683.4	3587.7	3588.8
70°	3420.5	3386.2	3505.5	3767.8	4172.0	4573.3	4226.0	3760.0	3511.1	3355.8	3393.0
72.5°	2643.3	2584.1	2791.3	3239.8	3901.8	4482.1	3928.8	3265.2	2920.1	2604.9	2683.2
75°	1438.2	1371.1	1657.1	2224.5	3111.5	3885.0	3183.0	2288.1	1845.1	1427.4	1520.3
77.5°	405.8	380.5	611.3	1076.2	1871.5	2727.6	1943.6	1099.8	725.0	430.0	477.9
80°	124.4	120.4	163.3	324.2	794.8	1306.5	763.8	328.1	207.7	131.1	138.5
82.5°	73.7	67.5	81.1	118.2	202.6	410.3	197.0	123.3	99.0	66.4	72.1
85°	42.2	39.4	47.9	57.4	68.1	87.2	56.9	58.5	52.9	35.5	37.1
87.5°	17.4	15.8	18.6	18.0	15.8	20.3	15.2	18.0	21.4	14.0	12.9
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)