

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: P961824

Luminaire Tested: **NAV-SB2B-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961824
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-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9645.3 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

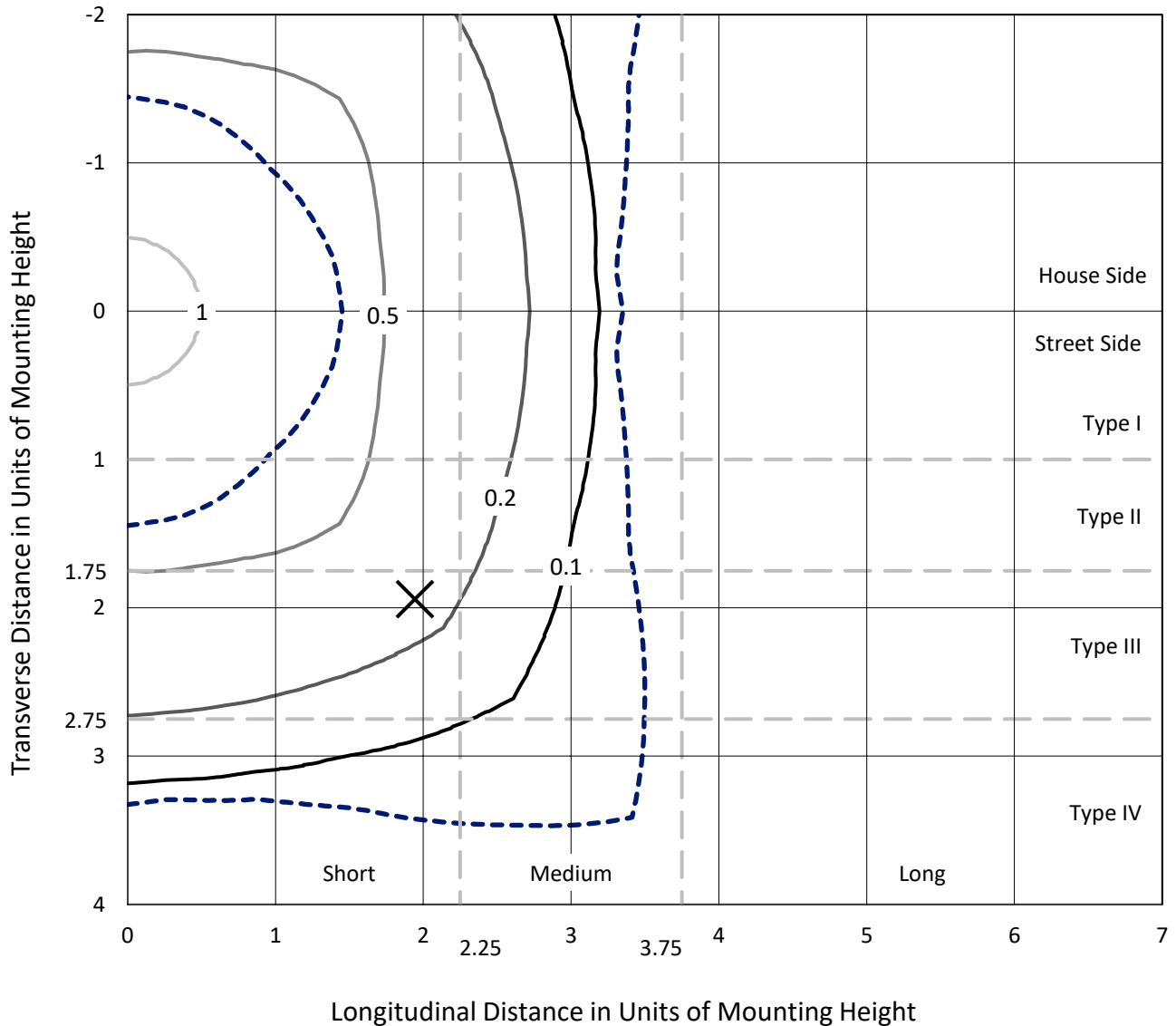
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961824
 CATALOG NUMBER: NAV-SB2B-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

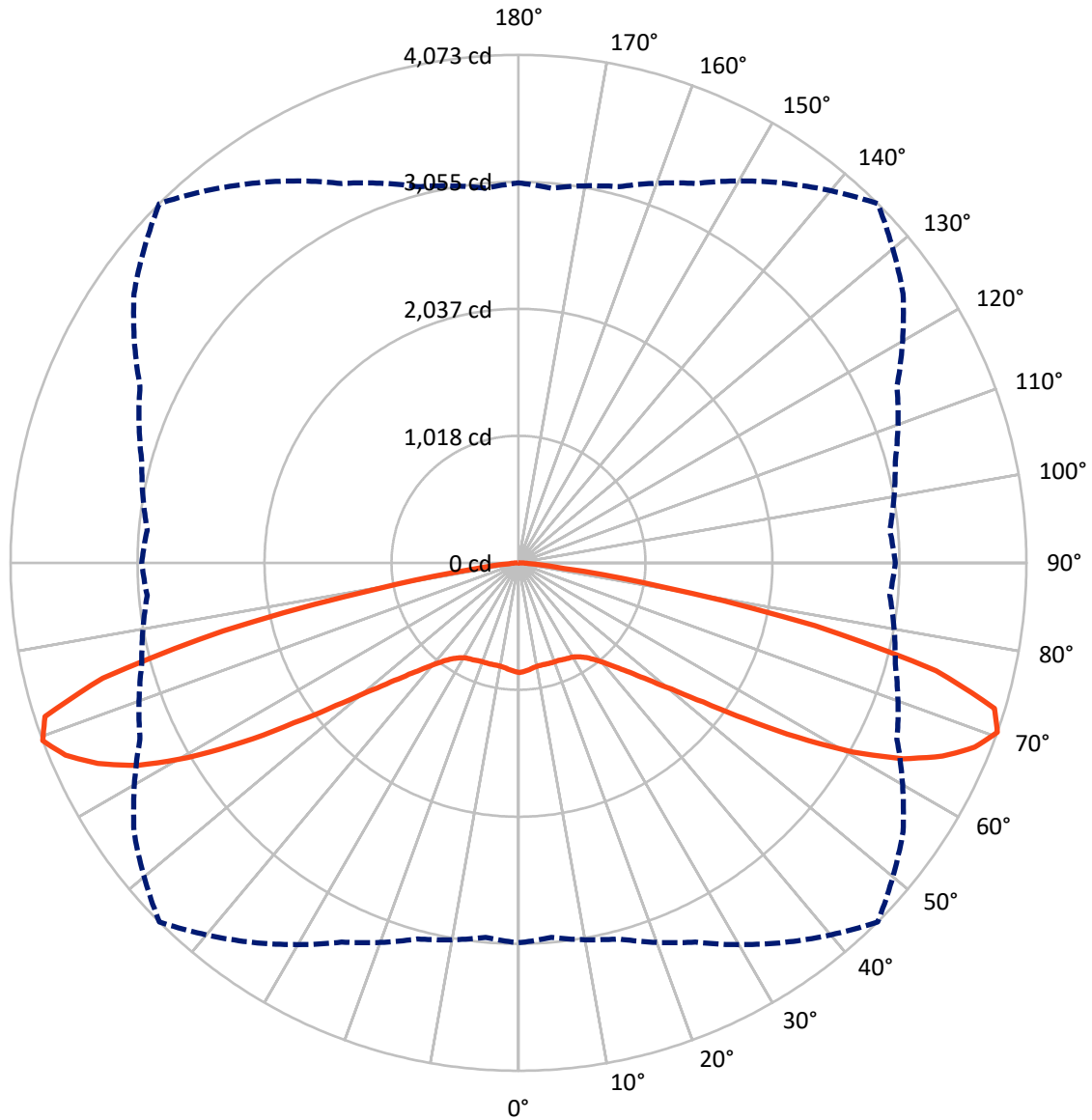
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P961824
CATALOG NUMBER: NAV-SB2B-722-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P961824
 CATALOG NUMBER: NAV-SB2B-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4822.6	0.0	4822.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4822.6	0.0	4822.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9645.3	0.0	9645.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	0.8
10°-20°	240.3	2.5
20°-30°	399.9	4.1
30°-40°	604.8	6.3
40°-50°	1005.1	10.4
50°-60°	1896.5	19.7
60°-70°	3202.3	33.2
70°-80°	2104.3	21.8
80°-90°	110.2	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°	9645.3	100.0
0°-180°	9645.3	100.0

Coefficient of Utilization



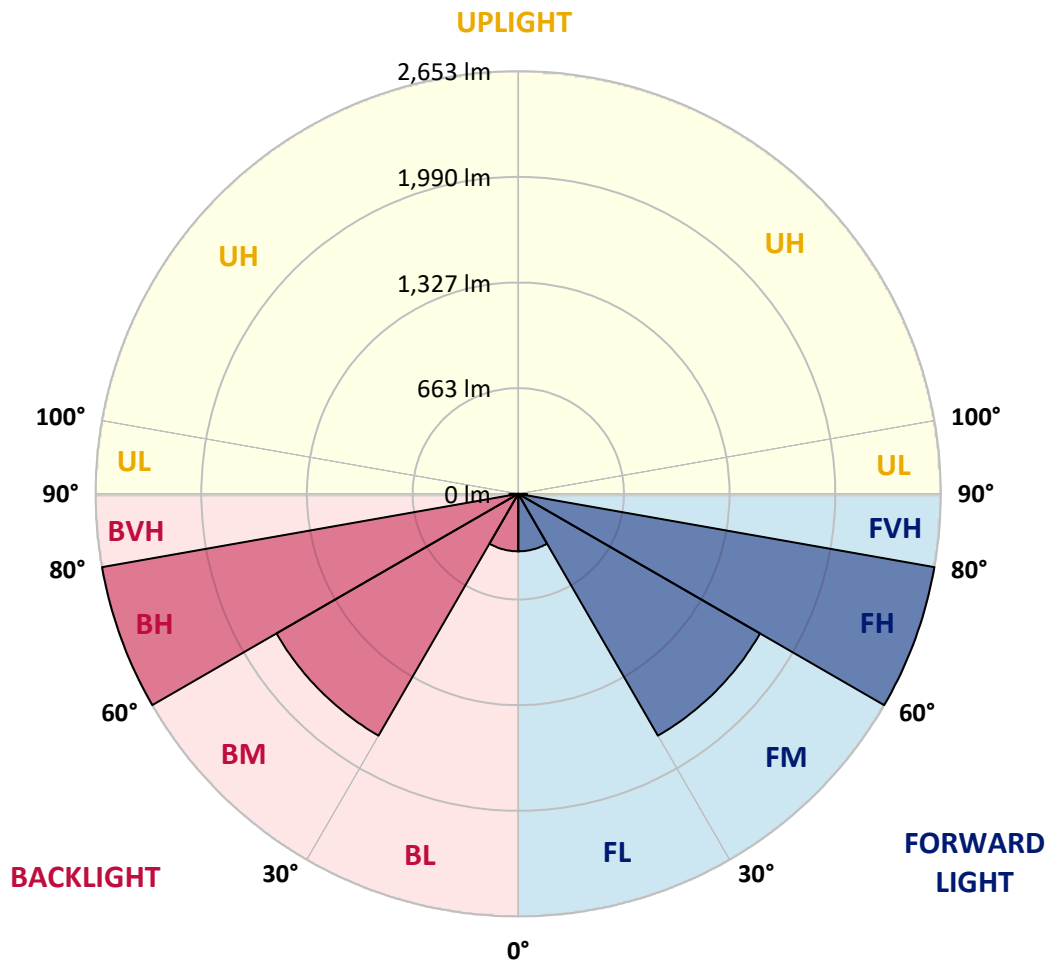
REPORT NUMBER: P961824
 CATALOG NUMBER: NAV-SB2B-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.0	3.7			
FM (30°-60°)	1753.2	18.2			
FH (60°-80°)	2653.3	27.5			G2/5000
FVH (80°-90°)	55.1	0.6			G1/100
BL (0°-30°)	361.0	3.7	B1/500		
BM (30°-60°)	1753.2	18.2	B2/2500		
BH (60°-80°)	2653.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	55.1	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: P961824
 CATALOG NUMBER: NAV-SB2B-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	874.3	876.8	875.9	873.8	873.8	872.3	873.8	874.8	876.4	877.3	876.8
5°	862.8	864.8	864.3	862.8	863.3	861.8	862.8	864.3	865.3	865.8	865.8
7.5°	852.8	854.7	853.7	851.3	851.3	849.7	850.2	851.8	853.3	853.7	853.7
10°	850.2	852.3	849.2	845.2	843.8	841.7	842.2	843.8	846.8	848.3	848.3
12.5°	851.3	852.8	849.7	843.8	842.2	840.2	840.2	841.7	845.7	847.8	848.3
15°	854.2	855.8	851.3	844.7	843.3	841.7	841.2	843.3	847.8	851.3	851.8
17.5°	859.8	861.3	854.2	845.2	843.3	843.8	843.3	844.7	851.8	858.2	858.2
20°	864.8	865.8	856.3	845.2	843.3	843.8	843.3	846.2	855.3	864.3	864.8
22.5°	866.3	867.4	858.2	848.8	847.3	847.8	847.3	850.2	858.7	867.8	867.8
25°	866.8	868.3	861.3	853.7	856.3	857.3	856.3	856.8	863.3	871.4	870.8
27.5°	874.3	876.4	869.8	863.3	864.8	864.3	865.8	867.4	872.3	880.4	878.3
30°	889.9	891.3	885.9	879.3	878.3	874.8	879.3	884.4	889.9	896.9	895.3
32.5°	915.4	918.4	911.4	904.4	899.8	897.9	901.4	909.9	917.5	925.0	922.0
35°	958.1	960.0	953.6	940.5	932.4	932.4	935.5	946.5	958.6	968.1	964.5
37.5°	1018.2	1020.7	1009.2	993.6	981.6	981.6	985.6	997.1	1015.2	1028.7	1023.8
40°	1091.4	1094.9	1080.4	1064.4	1052.8	1050.8	1055.9	1068.9	1085.9	1102.9	1097.5
42.5°	1179.7	1183.7	1164.6	1150.6	1141.5	1141.5	1144.0	1156.1	1171.6	1192.7	1191.2
45°	1292.4	1299.5	1273.4	1259.3	1250.8	1252.9	1254.3	1264.8	1278.9	1303.0	1302.0
47.5°	1426.8	1433.8	1406.2	1391.7	1390.2	1399.7	1393.7	1401.3	1408.8	1436.3	1428.3
50°	1579.2	1591.2	1572.1	1571.2	1574.2	1591.7	1577.7	1581.7	1573.2	1590.7	1580.2
52.5°	1765.7	1783.3	1779.7	1785.8	1819.4	1855.5	1823.4	1809.3	1777.2	1782.8	1764.2
55°	1991.8	2018.3	2023.4	2059.4	2135.7	2209.4	2141.2	2084.5	2016.4	2003.9	1984.3
57.5°	2249.0	2270.1	2294.2	2367.8	2510.2	2641.0	2510.2	2384.9	2277.5	2252.0	2234.0
60°	2525.7	2551.8	2574.8	2683.7	2895.2	3079.2	2891.2	2692.2	2550.3	2515.7	2485.6
62.5°	2823.1	2856.6	2872.7	2993.5	3240.1	3459.7	3243.6	3002.5	2845.1	2808.0	2777.9
65°	3108.3	3135.9	3153.9	3282.8	3518.3	3738.5	3534.4	3296.8	3134.9	3086.2	3062.2
67.5°	3241.2	3256.1	3300.3	3446.2	3694.8	3946.0	3736.9	3461.7	3280.7	3195.5	3196.5
70°	3046.6	3016.1	3122.4	3356.0	3715.9	4073.3	3764.0	3348.9	3127.3	2989.0	3022.0
72.5°	2354.2	2301.6	2486.1	2885.7	3475.3	3992.2	3499.4	2908.2	2600.9	2320.2	2389.9
75°	1280.9	1221.3	1475.9	1981.2	2771.4	3460.2	2835.0	2037.9	1643.4	1271.4	1354.1
77.5°	361.4	338.9	544.5	958.6	1667.0	2429.5	1731.1	979.6	645.8	383.0	425.7
80°	110.8	107.3	145.3	288.7	707.9	1163.6	680.3	292.2	185.0	116.8	123.3
82.5°	65.7	60.2	72.2	105.3	180.5	365.5	175.5	109.8	88.3	59.1	64.2
85°	37.6	35.1	42.6	51.1	60.7	77.7	50.6	52.2	47.2	31.6	33.1
87.5°	15.6	14.0	16.5	16.1	14.0	18.0	13.5	16.1	19.1	12.5	11.5
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)