

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: P882202

Luminaire Tested: **NAV-SB2A-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7369 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

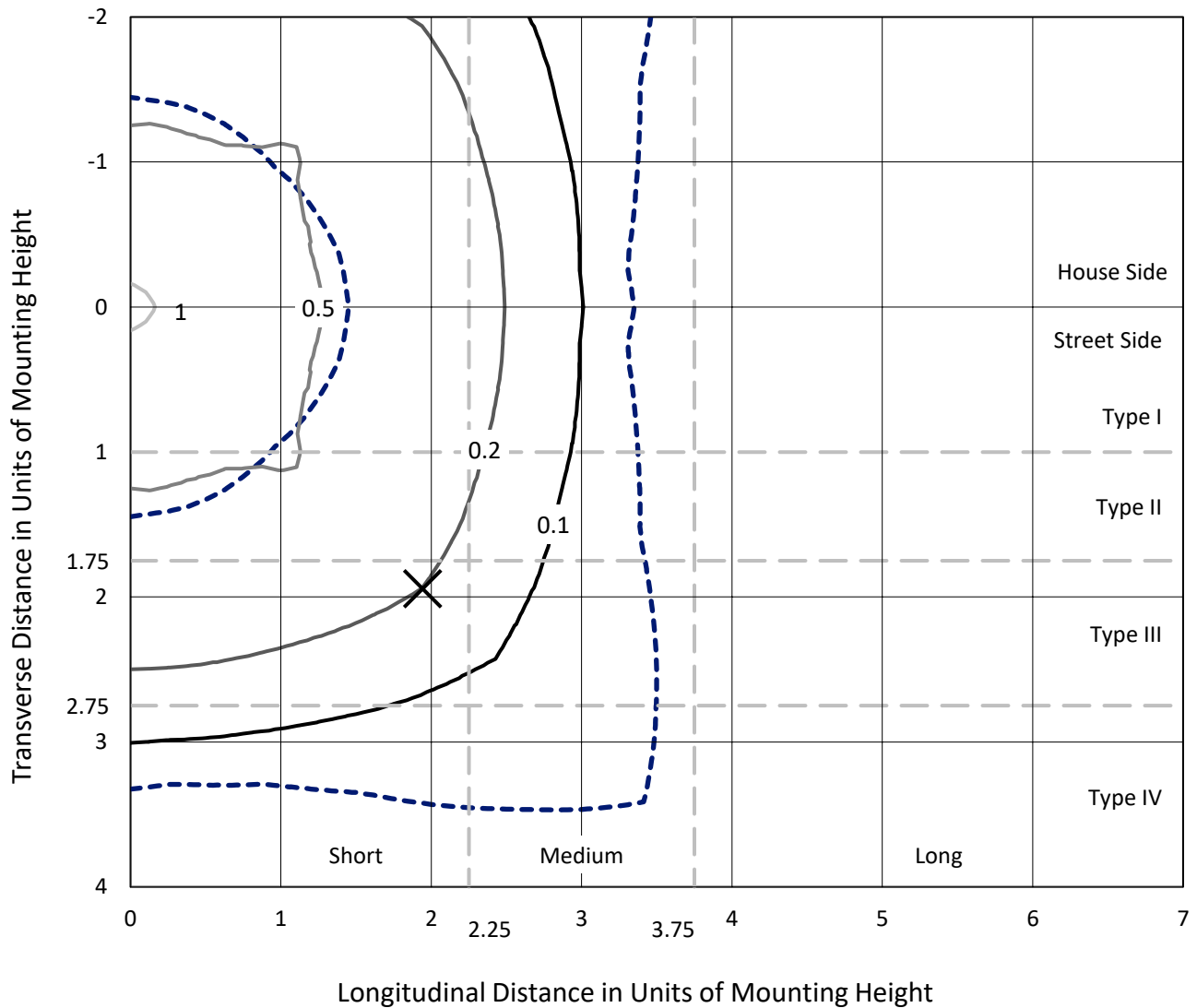
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

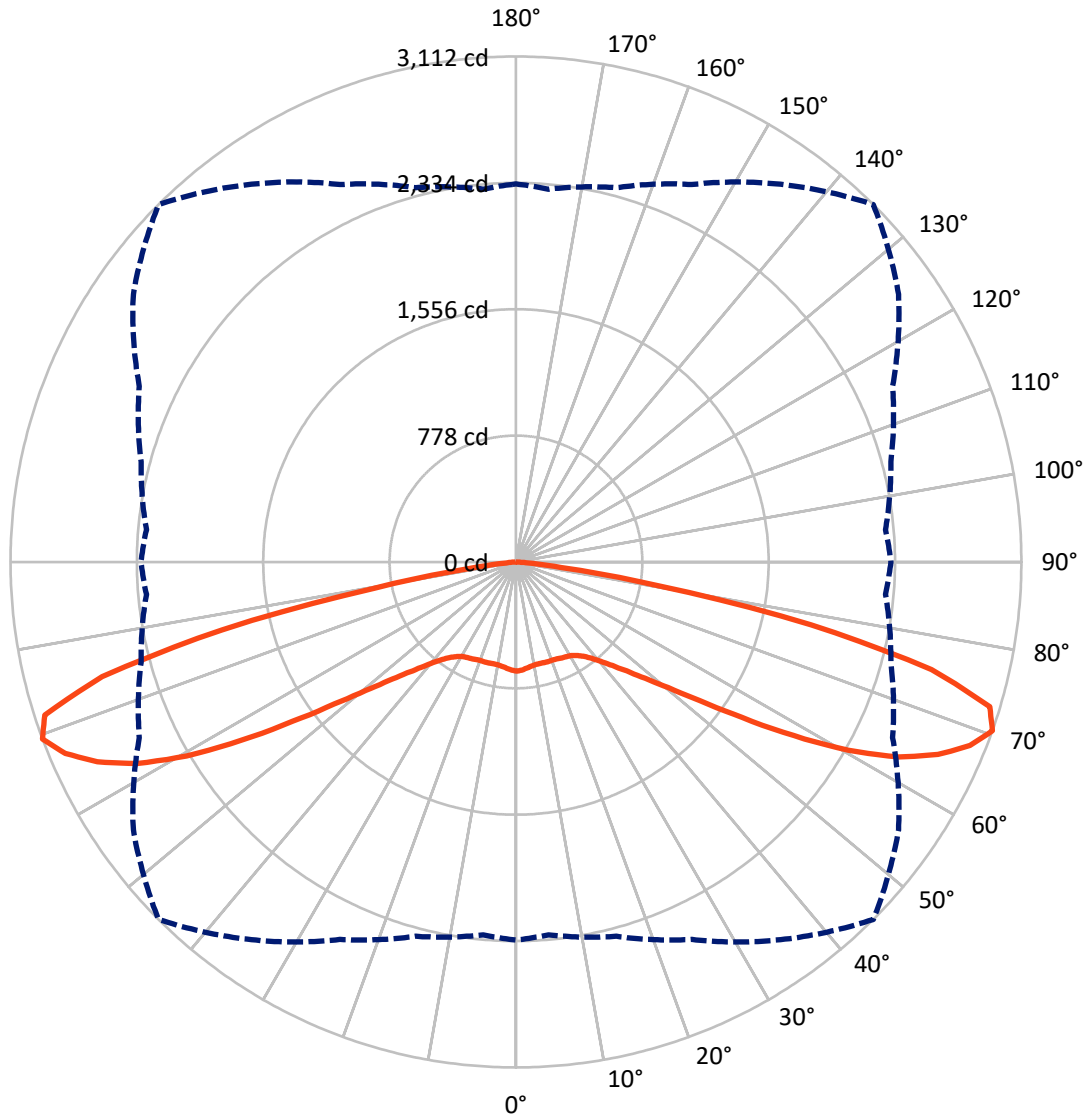
✕ Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: NAV-SB2A-722-U-5WQ

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3684.5	0.0	3684.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3684.5	0.0	3684.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7369.0	0.0	7369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	0.8
10°-20°	183.6	2.5
20°-30°	305.5	4.1
30°-40°	462.1	6.3
40°-50°	767.9	10.4
50°-60°	1448.9	19.7
60°-70°	2446.6	33.2
70°-80°	1607.6	21.8
80°-90°	84.2	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°	7369.0	100.0
0°-180°	7369.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882202

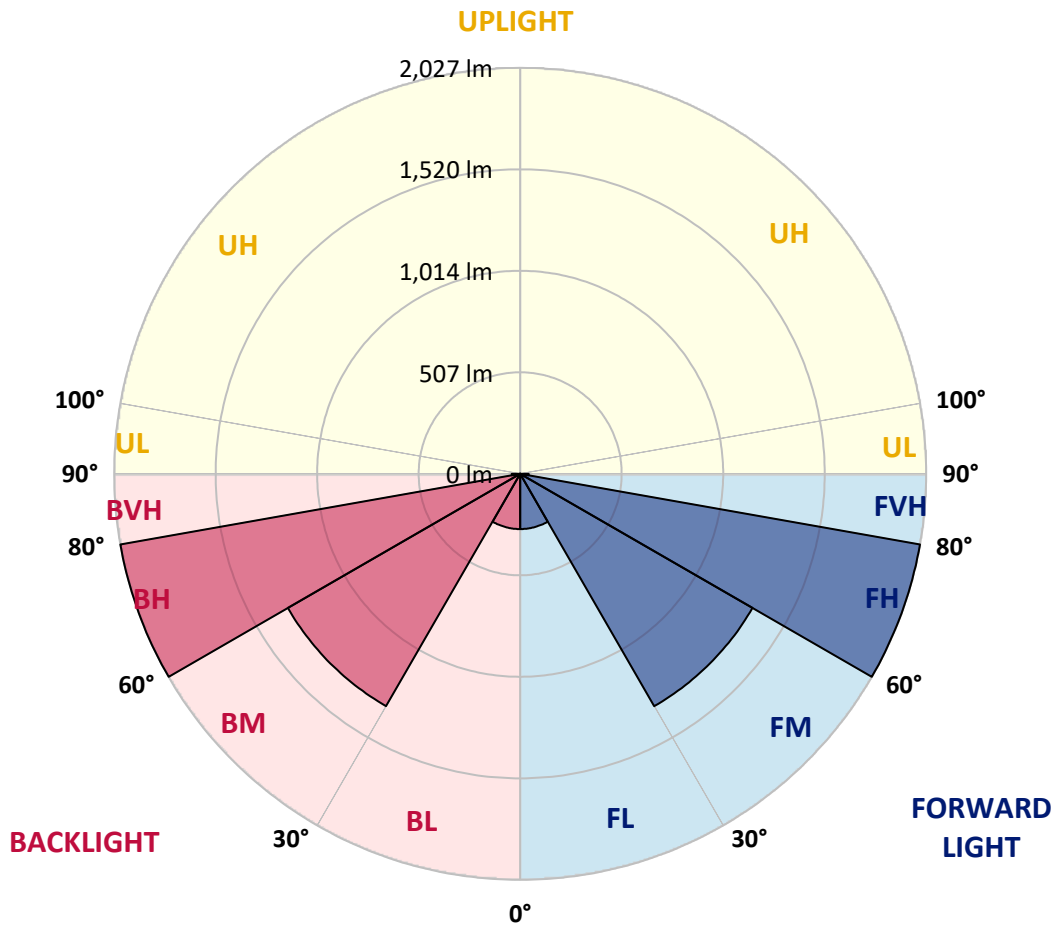
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.8	3.7			
FM (30°-60°)	1339.4	18.2			
FH (60°-80°)	2027.1	27.5			G2/5000
FVH (80°-90°)	42.1	0.6			G1/100
BL (0°-30°)	275.8	3.7	B1/500		
BM (30°-60°)	1339.4	18.2	B2/2500		
BH (60°-80°)	2027.1	27.5	B3/2500		G2/5000
BVH (80°-90°)	42.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2
2.5°	668.0	669.9	669.1	667.6	667.6	666.5	667.6	668.4	669.5	670.3	669.9
5°	659.2	660.7	660.3	659.2	659.6	658.4	659.2	660.3	661.1	661.5	661.5
7.5°	651.5	653.1	652.3	650.4	650.4	649.2	649.6	650.8	651.9	652.3	652.3
10°	649.6	651.1	648.8	645.8	644.6	643.1	643.5	644.6	646.9	648.1	648.1
12.5°	650.4	651.5	649.2	644.6	643.5	641.9	641.9	643.1	646.2	647.7	648.1
15°	652.7	653.8	650.4	645.4	644.2	643.1	642.7	644.2	647.7	650.4	650.8
17.5°	656.9	658.0	652.7	645.8	644.2	644.6	644.2	645.4	650.8	655.7	655.7
20°	660.7	661.5	654.2	645.8	644.2	644.6	644.2	646.5	653.4	660.3	660.7
22.5°	661.9	662.6	655.7	648.5	647.3	647.7	647.3	649.6	656.1	663.0	663.0
25°	662.2	663.4	658.0	652.3	654.2	655.0	654.2	654.6	659.6	665.7	665.3
27.5°	668.0	669.5	664.5	659.6	660.7	660.3	661.5	662.6	666.5	672.6	671.1
30°	679.9	681.0	676.8	671.8	671.1	668.4	671.8	675.6	679.9	685.2	684.1
32.5°	699.4	701.7	696.3	691.0	687.5	686.0	688.7	695.2	700.9	706.7	704.4
35°	732.0	733.5	728.5	718.5	712.4	712.4	714.7	723.1	732.3	739.6	736.9
37.5°	777.9	779.8	771.0	759.1	750.0	750.0	753.0	761.8	775.6	786.0	782.1
40°	833.8	836.5	825.4	813.2	804.3	802.8	806.6	816.6	829.6	842.6	838.4
42.5°	901.2	904.3	889.8	879.0	872.1	872.1	874.1	883.2	895.1	911.2	910.1
45°	987.4	992.8	972.9	962.1	955.6	957.2	958.3	966.4	977.1	995.5	994.7
47.5°	1090.1	1095.4	1074.4	1063.3	1062.1	1069.4	1064.8	1070.5	1076.3	1097.4	1091.2
50°	1206.5	1215.7	1201.2	1200.4	1202.7	1216.1	1205.4	1208.4	1201.9	1215.3	1207.3
52.5°	1349.0	1362.4	1359.7	1364.3	1390.0	1417.6	1393.0	1382.3	1357.8	1362.0	1347.8
55°	1521.7	1542.0	1545.9	1573.4	1631.7	1688.0	1635.9	1592.6	1540.5	1530.9	1516.0
57.5°	1718.2	1734.3	1752.7	1809.0	1917.8	2017.8	1917.8	1822.0	1740.1	1720.5	1706.7
60°	1929.7	1949.6	1967.2	2050.3	2211.9	2352.5	2208.9	2056.8	1948.4	1922.0	1899.0
62.5°	2156.8	2182.5	2194.7	2287.0	2475.5	2643.2	2478.1	2293.9	2173.6	2145.3	2122.3
65°	2374.7	2395.8	2409.6	2508.0	2688.0	2856.2	2700.3	2518.7	2395.0	2357.9	2339.5
67.5°	2476.2	2487.7	2521.4	2632.9	2822.9	3014.8	2855.0	2644.8	2506.5	2441.4	2442.1
70°	2327.6	2304.3	2385.5	2563.9	2838.9	3112.0	2875.7	2558.6	2389.3	2283.6	2308.8
72.5°	1798.7	1758.4	1899.4	2204.7	2655.1	3050.0	2673.5	2221.9	1987.1	1772.6	1825.9
75°	978.6	933.0	1127.6	1513.7	2117.3	2643.6	2166.0	1557.0	1255.5	971.3	1034.5
77.5°	276.2	258.9	416.0	732.3	1273.5	1856.1	1322.6	748.4	493.3	292.6	325.2
80°	84.6	82.0	111.1	220.6	540.8	889.0	519.8	223.3	141.3	89.2	94.2
82.5°	50.2	46.0	55.2	80.4	137.9	279.2	134.1	83.9	67.4	45.2	49.0
85°	28.7	26.8	32.6	39.1	46.3	59.4	38.7	39.8	36.0	24.1	25.3
87.5°	11.9	10.7	12.6	12.3	10.7	13.8	10.3	12.3	14.6	9.6	8.8
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)