

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: P881862

Luminaire Tested: **NAV-SB1C-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881862
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-SB1C-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6042 lumens
Efficiency: N/A
Efficacy: 111.1 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

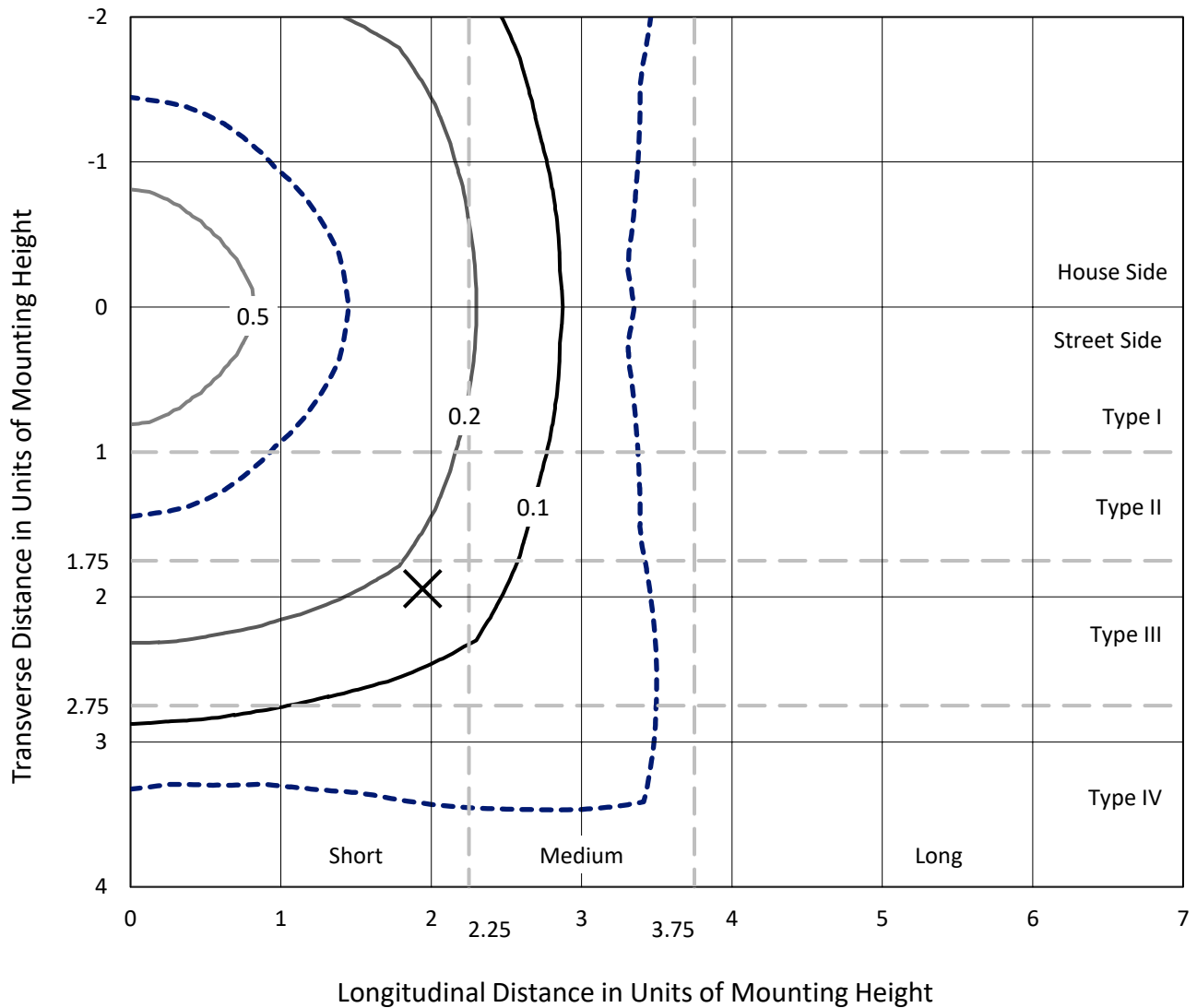
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

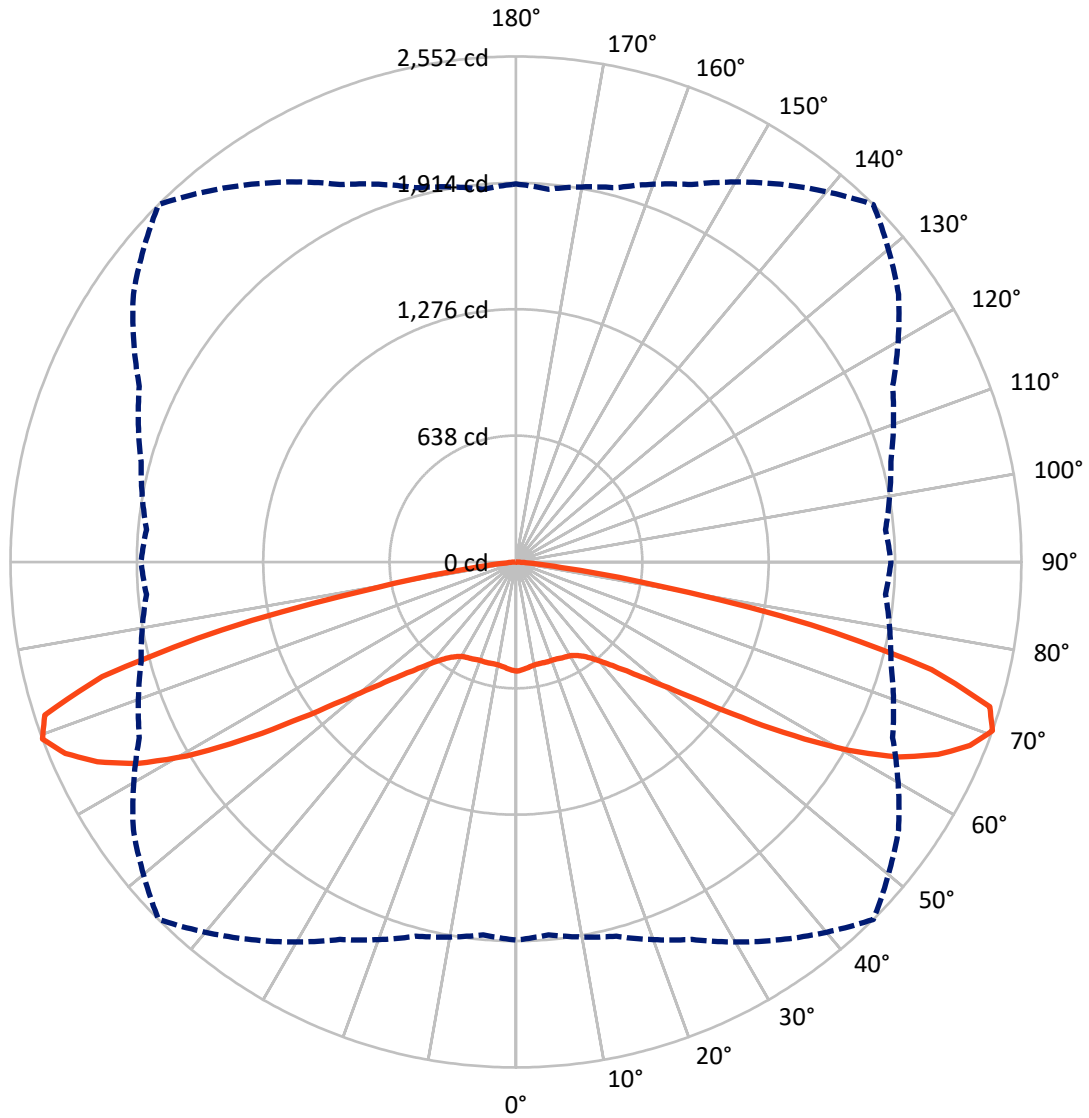
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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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	3021.0	0.0	3021.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3021.0	0.0	3021.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6042.0	0.0	6042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	0.8
10°-20°	150.5	2.5
20°-30°	250.5	4.1
30°-40°	378.9	6.3
40°-50°	629.6	10.4
50°-60°	1188.0	19.7
60°-70°	2006.0	33.2
70°-80°	1318.2	21.8
80°-90°	69.1	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°	6042.0	100.0
0°-180°	6042.0	100.0

Coefficient of Utilization



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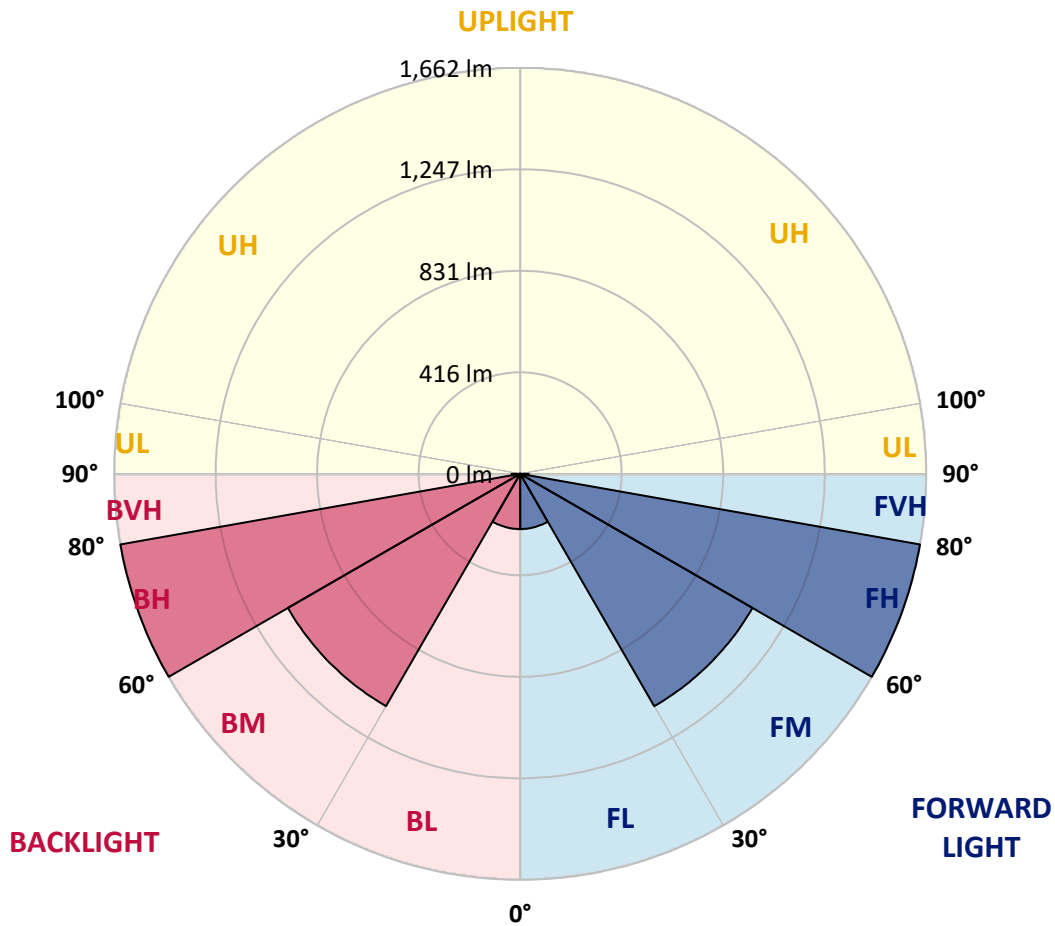
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.2	3.7			
FM (30°-60°)	1098.2	18.2			
FH (60°-80°)	1662.1	27.5			G1/1800
FVH (80°-90°)	34.5	0.6			G1/100
BL (0°-30°)	226.2	3.7	B1/500		
BM (30°-60°)	1098.2	18.2	B2/2500		
BH (60°-80°)	1662.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	34.5	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	547.7	549.3	548.6	547.4	547.4	546.4	547.4	548.0	549.0	549.6	549.3
5°	540.5	541.7	541.4	540.5	540.8	539.8	540.5	541.4	542.0	542.4	542.4
7.5°	534.2	535.4	534.8	533.3	533.3	532.3	532.6	533.6	534.5	534.8	534.8
10°	532.6	533.9	532.0	529.5	528.5	527.3	527.6	528.5	530.4	531.4	531.4
12.5°	533.3	534.2	532.3	528.5	527.6	526.3	526.3	527.3	529.8	531.1	531.4
15°	535.1	536.1	533.3	529.2	528.2	527.3	527.0	528.2	531.1	533.3	533.6
17.5°	538.6	539.5	535.1	529.5	528.2	528.5	528.2	529.2	533.6	537.6	537.6
20°	541.7	542.4	536.4	529.5	528.2	528.5	528.2	530.1	535.8	541.4	541.7
22.5°	542.7	543.3	537.6	531.7	530.7	531.1	530.7	532.6	538.0	543.6	543.6
25°	543.0	543.9	539.5	534.8	536.4	537.0	536.4	536.7	540.8	545.8	545.5
27.5°	547.7	549.0	544.9	540.8	541.7	541.4	542.4	543.3	546.4	551.5	550.2
30°	557.4	558.4	554.9	550.8	550.2	548.0	550.8	554.0	557.4	561.8	560.9
32.5°	573.4	575.3	570.9	566.5	563.7	562.5	564.7	570.0	574.7	579.4	577.5
35°	600.1	601.4	597.3	589.2	584.1	584.1	586.0	592.9	600.5	606.4	604.2
37.5°	637.8	639.4	632.2	622.4	614.9	614.9	617.4	624.6	635.9	644.4	641.3
40°	683.7	685.9	676.8	666.7	659.5	658.2	661.4	669.5	680.2	690.9	687.4
42.5°	739.0	741.5	729.5	720.7	715.1	715.1	716.7	724.2	733.9	747.1	746.2
45°	809.6	814.0	797.7	788.9	783.5	784.8	785.7	792.3	801.1	816.2	815.6
47.5°	893.8	898.2	880.9	871.8	870.9	876.8	873.0	877.8	882.5	899.7	894.7
50°	989.2	996.8	984.9	984.2	986.1	997.1	988.3	990.8	985.5	996.5	989.9
52.5°	1106.1	1117.1	1114.9	1118.6	1139.7	1162.3	1142.2	1133.4	1113.3	1116.8	1105.1
55°	1247.7	1264.4	1267.5	1290.1	1337.8	1384.0	1341.3	1305.8	1263.1	1255.2	1243.0
57.5°	1408.8	1422.0	1437.1	1483.2	1572.4	1654.4	1572.4	1493.9	1426.7	1410.7	1399.4
60°	1582.2	1598.5	1612.9	1681.1	1813.6	1928.9	1811.1	1686.4	1597.6	1575.9	1557.0
62.5°	1768.4	1789.4	1799.5	1875.2	2029.7	2167.2	2031.9	1880.8	1782.2	1759.0	1740.1
65°	1947.1	1964.4	1975.7	2056.4	2204.0	2341.8	2214.0	2065.2	1963.7	1933.3	1918.2
67.5°	2030.3	2039.7	2067.4	2158.8	2314.5	2471.9	2340.9	2168.5	2055.1	2001.7	2002.4
70°	1908.5	1889.3	1955.9	2102.2	2327.7	2551.6	2357.9	2097.8	1959.0	1872.3	1893.1
72.5°	1474.8	1441.8	1557.4	1807.7	2177.0	2500.8	2192.0	1821.8	1629.3	1453.4	1497.1
75°	802.4	765.0	924.6	1241.1	1736.1	2167.6	1775.9	1276.6	1029.4	796.4	848.2
77.5°	226.4	212.3	341.1	600.5	1044.2	1521.9	1084.4	613.6	404.5	239.9	266.6
80°	69.4	67.2	91.1	180.9	443.4	728.9	426.2	183.1	115.9	73.2	77.3
82.5°	41.1	37.7	45.2	65.9	113.1	228.9	109.9	68.8	55.3	37.1	40.2
85°	23.6	22.0	26.7	32.0	38.0	48.7	31.7	32.7	29.5	19.8	20.7
87.5°	9.7	8.8	10.4	10.0	8.8	11.3	8.5	10.0	11.9	7.9	7.2
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)