

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: P881692

Luminaire Tested: **NAV-SB1B-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881692
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-SB1B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4543 lumens
Efficiency: N/A
Efficacy: 114.1 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

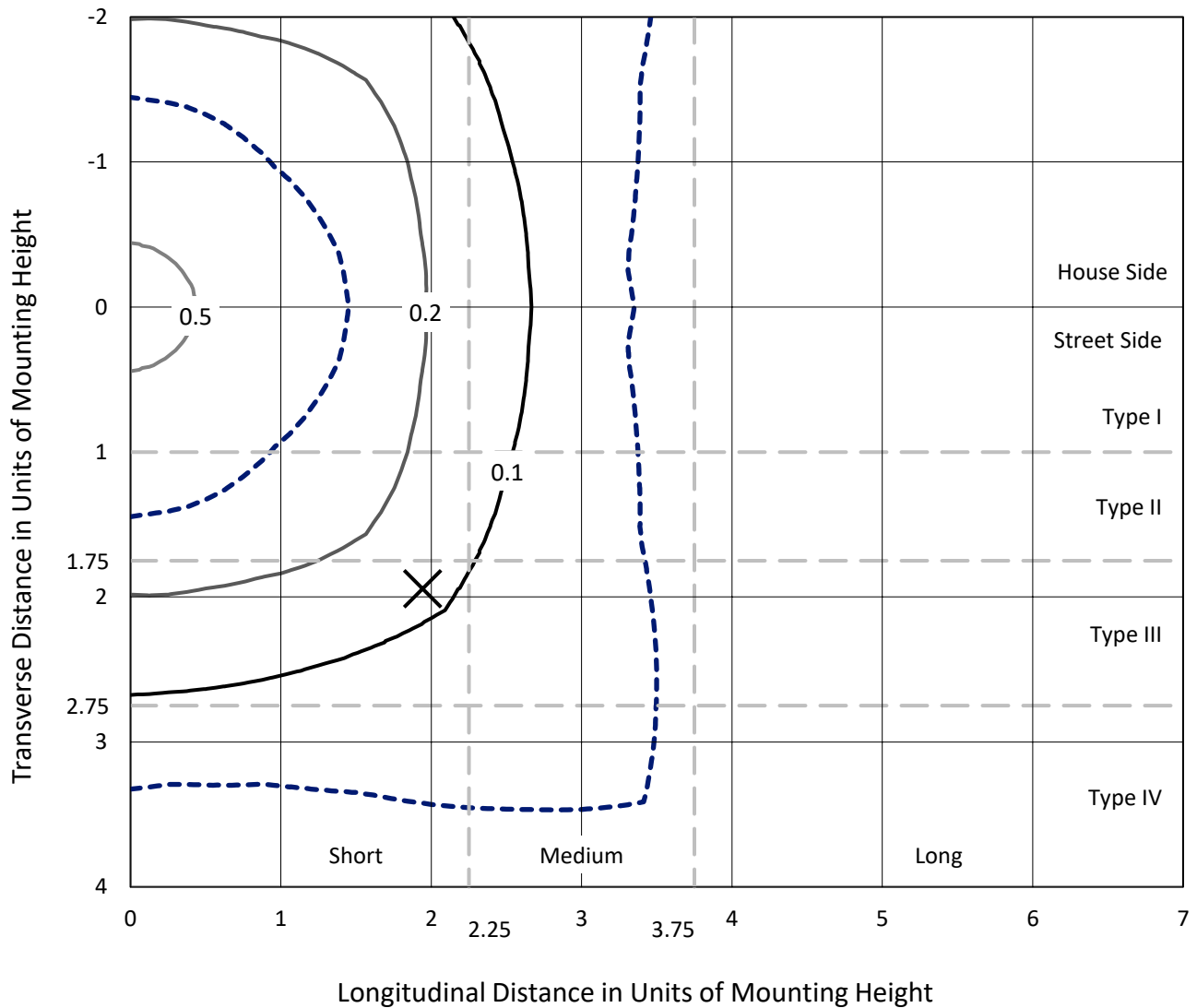
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

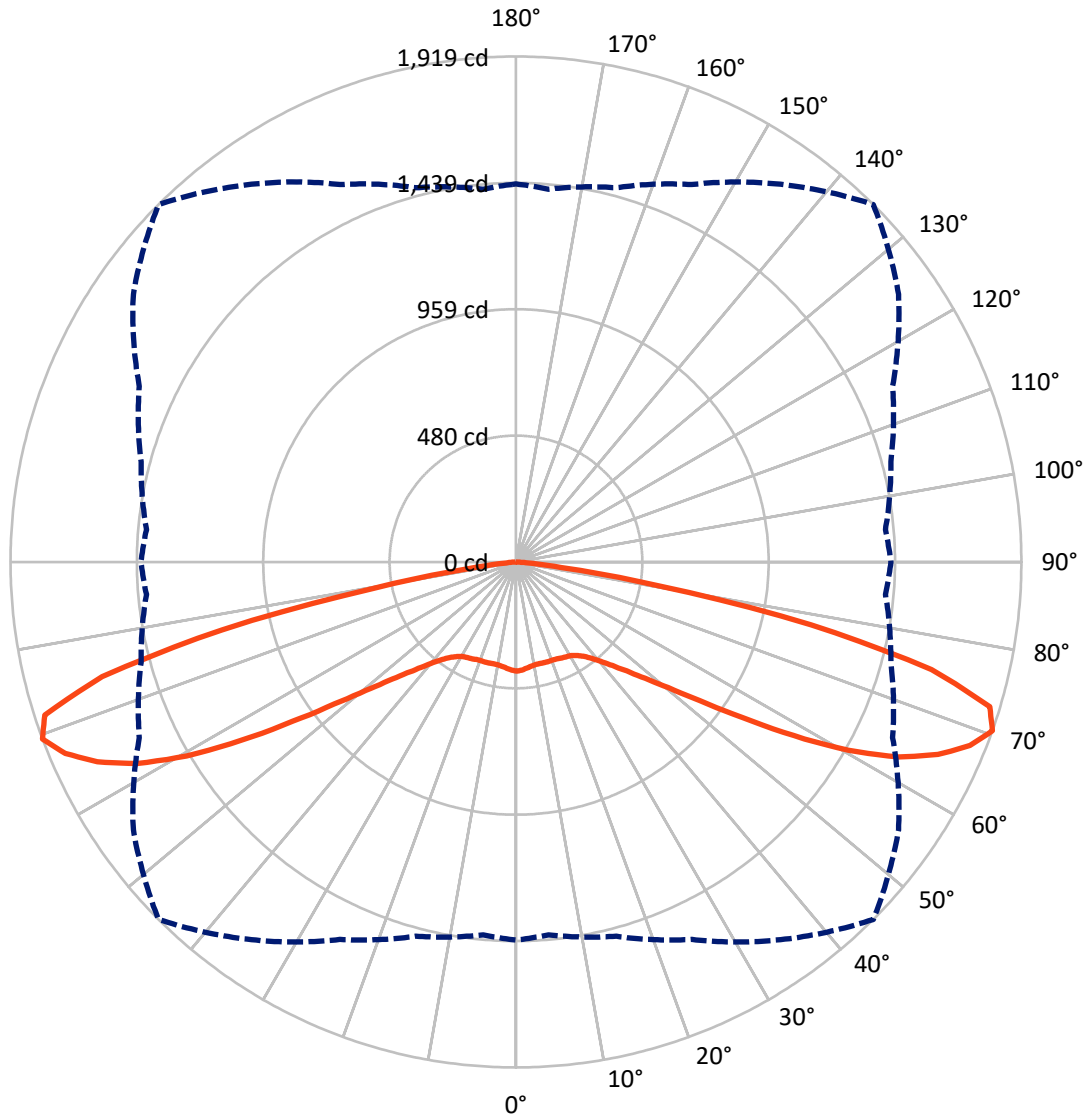
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2271.5	0.0	2271.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2271.5	0.0	2271.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4543.0	0.0	4543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	0.8
10°-20°	113.2	2.5
20°-30°	188.4	4.1
30°-40°	284.9	6.3
40°-50°	473.4	10.4
50°-60°	893.3	19.7
60°-70°	1508.3	33.2
70°-80°	991.1	21.8
80°-90°	51.9	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°	4543.0	100.0
0°-180°	4543.0	100.0

Coefficient of Utilization



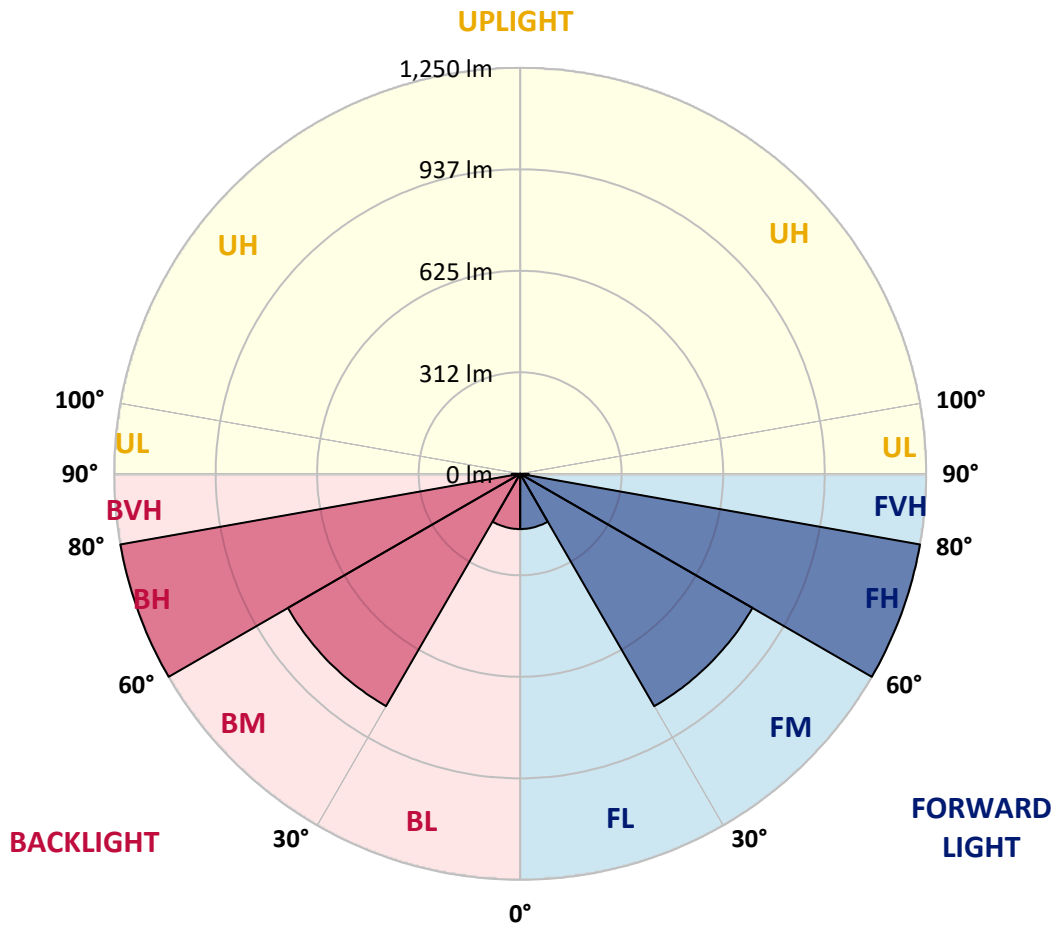
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.1	3.7			
FM (30°-60°)	825.8	18.2			
FH (60°-80°)	1249.7	27.5			G1/1800
FVH (80°-90°)	26.0	0.6			G1/100
BL (0°-30°)	170.1	3.7	B1/500		
BM (30°-60°)	825.8	18.2	B1/1000		
BH (60°-80°)	1249.7	27.5	B3/2500		G1/1800
BVH (80°-90°)	26.0	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°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	411.8	413.0	412.5	411.6	411.6	410.9	411.6	412.1	412.8	413.2	413.0
5°	406.4	407.3	407.1	406.4	406.6	405.9	406.4	407.1	407.6	407.8	407.8
7.5°	401.7	402.6	402.1	401.0	401.0	400.2	400.5	401.2	401.9	402.1	402.1
10°	400.5	401.4	400.0	398.1	397.4	396.5	396.7	397.4	398.8	399.5	399.5
12.5°	401.0	401.7	400.2	397.4	396.7	395.8	395.8	396.5	398.4	399.3	399.5
15°	402.4	403.1	401.0	397.9	397.2	396.5	396.2	397.2	399.3	401.0	401.2
17.5°	405.0	405.7	402.4	398.1	397.2	397.4	397.2	397.9	401.2	404.3	404.3
20°	407.3	407.8	403.3	398.1	397.2	397.4	397.2	398.6	402.8	407.1	407.3
22.5°	408.0	408.5	404.3	399.8	399.1	399.3	399.1	400.5	404.5	408.7	408.7
25°	408.3	409.0	405.7	402.1	403.3	403.8	403.3	403.6	406.6	410.4	410.2
27.5°	411.8	412.8	409.7	406.6	407.3	407.1	407.8	408.5	410.9	414.6	413.7
30°	419.1	419.8	417.2	414.2	413.7	412.1	414.2	416.5	419.1	422.4	421.7
32.5°	431.2	432.6	429.3	426.0	423.9	422.9	424.6	428.6	432.1	435.7	434.2
35°	451.2	452.2	449.1	443.0	439.2	439.2	440.6	445.8	451.5	456.0	454.3
37.5°	479.6	480.8	475.3	468.0	462.3	462.3	464.2	469.7	478.2	484.5	482.2
40°	514.1	515.7	508.9	501.3	495.9	494.9	497.3	503.4	511.5	519.5	516.9
42.5°	555.6	557.5	548.5	541.9	537.7	537.7	538.9	544.5	551.8	561.8	561.1
45°	608.8	612.1	599.8	593.2	589.2	590.1	590.8	595.8	602.4	613.7	613.2
47.5°	672.0	675.3	662.4	655.5	654.8	659.3	656.4	660.0	663.5	676.5	672.7
50°	743.8	749.5	740.5	740.0	741.5	749.7	743.1	745.0	741.0	749.2	744.3
52.5°	831.7	839.9	838.3	841.1	856.9	873.9	858.8	852.2	837.1	839.7	831.0
55°	938.2	950.7	953.0	970.0	1005.9	1040.6	1008.5	981.8	949.7	943.8	934.6
57.5°	1059.3	1069.2	1080.5	1115.3	1182.3	1243.9	1182.3	1123.3	1072.8	1060.7	1052.2
60°	1189.6	1201.9	1212.8	1264.0	1363.7	1450.3	1361.8	1268.0	1201.2	1184.9	1170.7
62.5°	1329.7	1345.5	1353.0	1409.9	1526.1	1629.6	1527.8	1414.2	1340.1	1322.6	1308.4
65°	1464.0	1477.0	1485.5	1546.2	1657.2	1760.8	1664.7	1552.8	1476.5	1453.6	1442.3
67.5°	1526.6	1533.7	1554.5	1623.2	1740.3	1858.6	1760.1	1630.5	1545.3	1505.1	1505.6
70°	1435.0	1420.6	1470.6	1580.7	1750.2	1918.6	1772.9	1577.4	1473.0	1407.8	1423.4
72.5°	1108.9	1084.1	1171.0	1359.2	1636.9	1880.3	1648.2	1369.8	1225.1	1092.8	1125.6
75°	603.3	575.2	695.2	933.2	1305.3	1629.8	1335.3	959.9	774.0	598.8	637.8
77.5°	170.3	159.6	256.4	451.5	785.1	1144.3	815.4	461.4	304.1	180.4	200.5
80°	52.2	50.5	68.5	136.0	333.4	548.1	320.4	137.7	87.1	55.0	58.1
82.5°	30.9	28.3	34.0	49.6	85.0	172.1	82.6	51.7	41.6	27.9	30.2
85°	17.7	16.5	20.1	24.1	28.6	36.6	23.8	24.6	22.2	14.9	15.6
87.5°	7.3	6.6	7.8	7.6	6.6	8.5	6.4	7.6	9.0	5.9	5.4
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)