

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: P881532

Luminaire Tested: **NAV-SB1A-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881532
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-SB1A-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115 lumens
Efficiency: N/A
Efficacy: 133.2 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

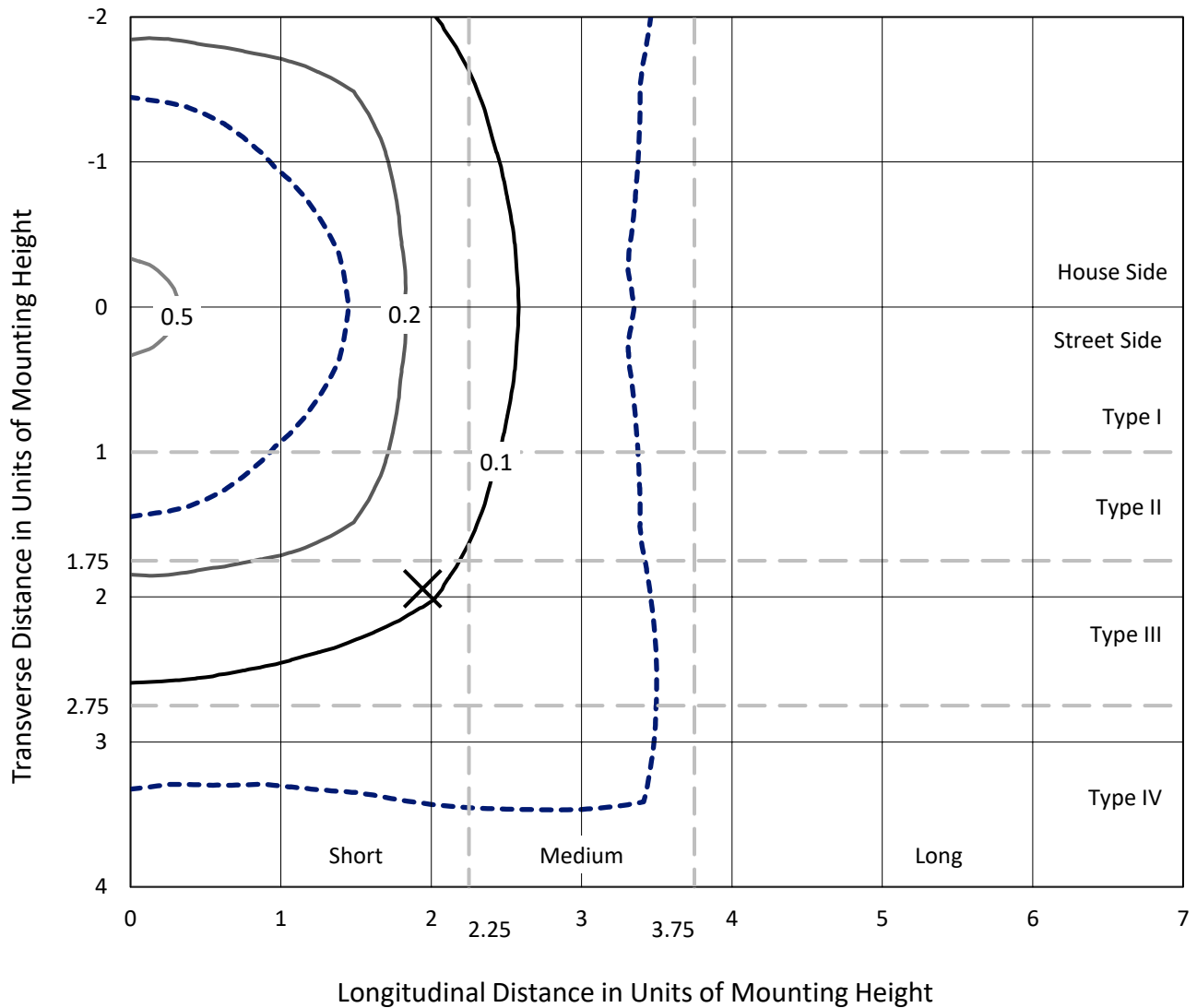
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

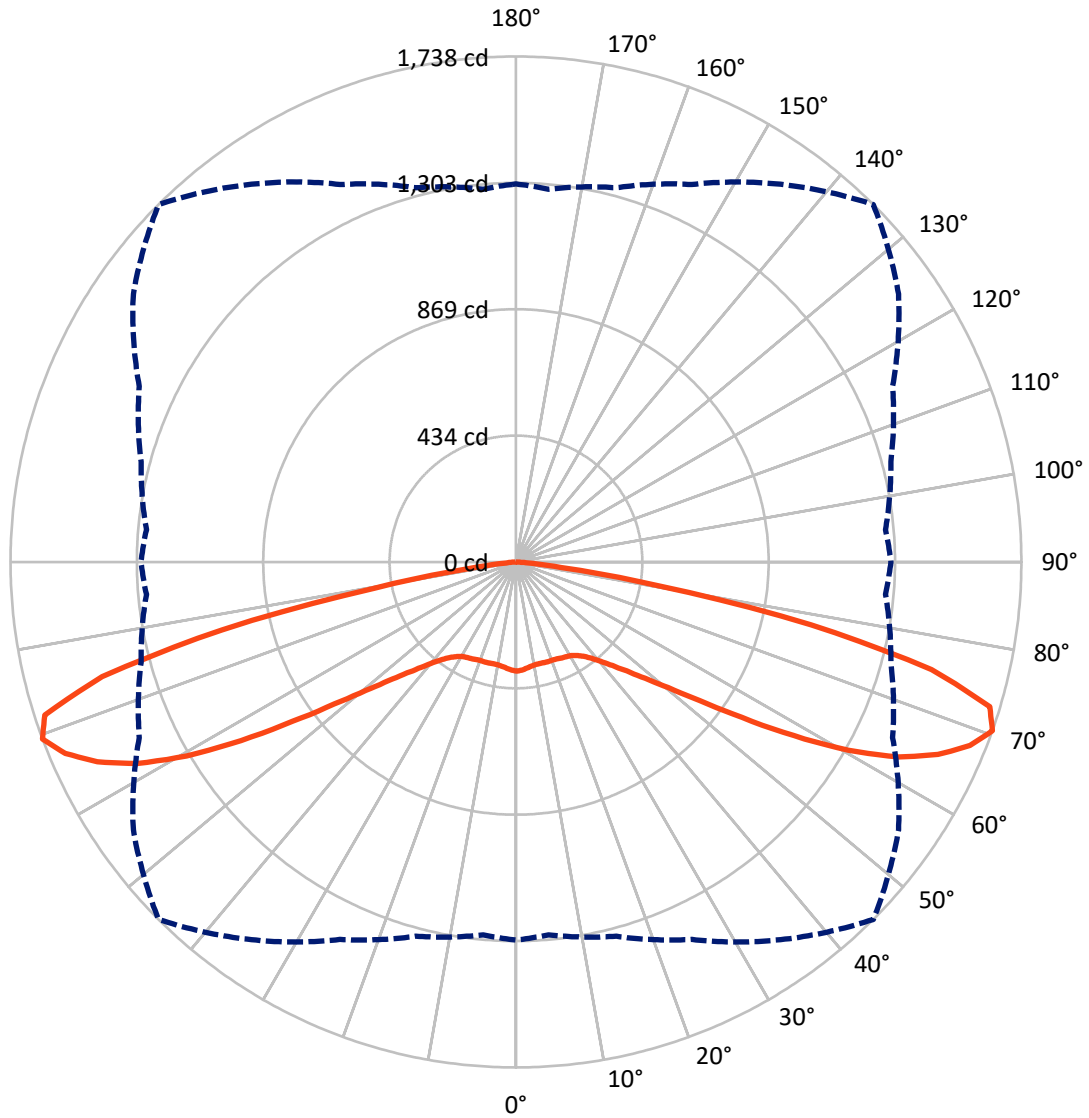
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	2057.5	0.0	2057.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2057.5	0.0	2057.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4115.0	0.0	4115.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	0.8
10°-20°	102.5	2.5
20°-30°	170.6	4.1
30°-40°	258.0	6.3
40°-50°	428.8	10.4
50°-60°	809.1	19.7
60°-70°	1366.2	33.2
70°-80°	897.7	21.8
80°-90°	47.0	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°	4115.0	100.0
0°-180°	4115.0	100.0



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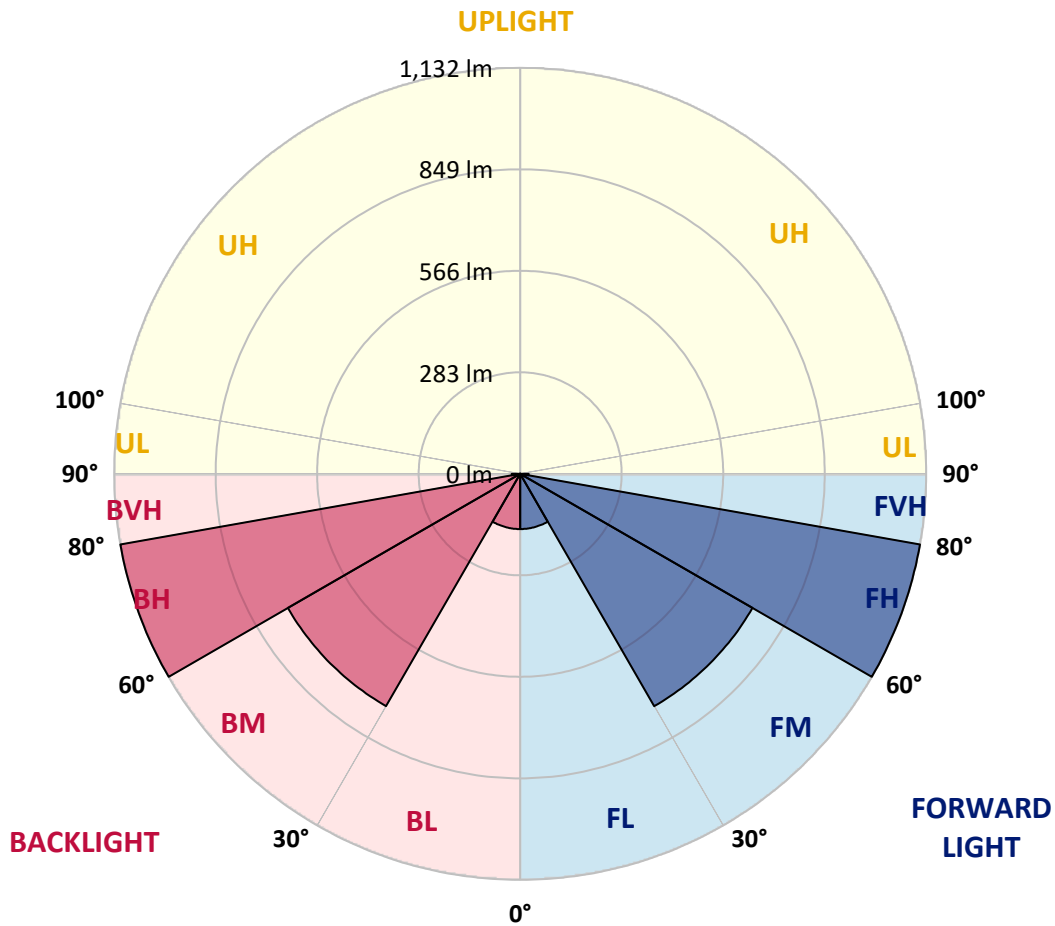
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.0	3.7			
FM (30°-60°)	748.0	18.2			
FH (60°-80°)	1132.0	27.5			G1/1800
FVH (80°-90°)	23.5	0.6			G1/100
BL (0°-30°)	154.0	3.7	B1/500		
BM (30°-60°)	748.0	18.2	B1/1000		
BH (60°-80°)	1132.0	27.5	B3/2500		G1/1800
BVH (80°-90°)	23.5	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°	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4	375.4
2.5°	373.0	374.1	373.7	372.8	372.8	372.2	372.8	373.2	373.9	374.3	374.1
5°	368.1	369.0	368.7	368.1	368.3	367.7	368.1	368.7	369.2	369.4	369.4
7.5°	363.8	364.7	364.2	363.2	363.2	362.5	362.8	363.4	364.0	364.2	364.2
10°	362.8	363.6	362.3	360.6	360.0	359.1	359.3	360.0	361.3	361.9	361.9
12.5°	363.2	363.8	362.5	360.0	359.3	358.5	358.5	359.1	360.8	361.7	361.9
15°	364.5	365.1	363.2	360.4	359.8	359.1	358.9	359.8	361.7	363.2	363.4
17.5°	366.8	367.5	364.5	360.6	359.8	360.0	359.8	360.4	363.4	366.2	366.2
20°	369.0	369.4	365.3	360.6	359.8	360.0	359.8	361.0	364.9	368.7	369.0
22.5°	369.6	370.0	366.2	362.1	361.5	361.7	361.5	362.8	366.4	370.2	370.2
25°	369.8	370.5	367.5	364.2	365.3	365.7	365.3	365.5	368.3	371.7	371.5
27.5°	373.0	373.9	371.1	368.3	369.0	368.7	369.4	370.0	372.2	375.6	374.7
30°	379.6	380.3	377.9	375.2	374.7	373.2	375.2	377.3	379.6	382.6	382.0
32.5°	390.6	391.8	388.8	385.9	383.9	383.1	384.6	388.2	391.4	394.6	393.3
35°	408.7	409.6	406.8	401.3	397.8	397.8	399.1	403.8	409.0	413.0	411.5
37.5°	434.4	435.5	430.6	423.9	418.8	418.8	420.5	425.4	433.1	438.9	436.8
40°	465.6	467.1	460.9	454.1	449.2	448.3	450.4	456.0	463.3	470.6	468.2
42.5°	503.3	505.0	496.9	490.9	487.0	487.0	488.1	493.2	499.9	508.8	508.2
45°	551.4	554.4	543.3	537.3	533.6	534.5	535.1	539.6	545.6	555.9	555.5
47.5°	608.7	611.7	600.0	593.7	593.1	597.2	594.6	597.8	601.0	612.8	609.4
50°	673.7	678.9	670.7	670.3	671.6	679.1	673.1	674.8	671.2	678.7	674.2
52.5°	753.3	760.8	759.3	761.9	776.2	791.6	777.9	771.9	758.2	760.6	752.7
55°	849.8	861.1	863.2	878.6	911.2	942.6	913.5	889.3	860.3	854.9	846.6
57.5°	959.5	968.5	978.7	1010.2	1070.9	1126.8	1070.9	1017.5	971.7	960.8	953.1
60°	1077.6	1088.7	1098.5	1144.9	1235.2	1313.7	1233.5	1148.6	1088.0	1073.3	1060.4
62.5°	1204.4	1218.7	1225.6	1277.1	1382.3	1476.0	1383.8	1281.0	1213.8	1198.0	1185.1
65°	1326.1	1337.9	1345.6	1400.5	1501.1	1595.0	1507.9	1406.5	1337.4	1316.7	1306.4
67.5°	1382.8	1389.2	1408.0	1470.3	1576.3	1683.5	1594.3	1476.9	1399.7	1363.3	1363.7
70°	1299.8	1286.7	1332.1	1431.8	1585.3	1737.8	1605.9	1428.8	1334.2	1275.2	1289.3
72.5°	1004.4	982.0	1060.7	1231.1	1482.7	1703.2	1492.9	1240.8	1109.6	989.9	1019.6
75°	546.5	521.0	629.7	845.3	1182.4	1476.2	1209.5	869.4	701.1	542.4	577.7
77.5°	154.2	144.6	232.3	409.0	711.2	1036.5	738.6	417.9	275.5	163.4	181.6
80°	47.3	45.8	62.0	123.2	302.0	496.4	290.2	124.7	78.9	49.8	52.6
82.5°	28.0	25.7	30.8	44.9	77.0	155.9	74.9	46.8	37.6	25.2	27.4
85°	16.0	15.0	18.2	21.8	25.9	33.2	21.6	22.2	20.1	13.5	14.1
87.5°	6.6	6.0	7.1	6.8	6.0	7.7	5.8	6.8	8.1	5.3	4.9
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)