

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: P881562

Luminaire Tested: **NAV-SB1A-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881562
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-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4896 lumens
Efficiency: N/A
Efficacy: 158.4 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

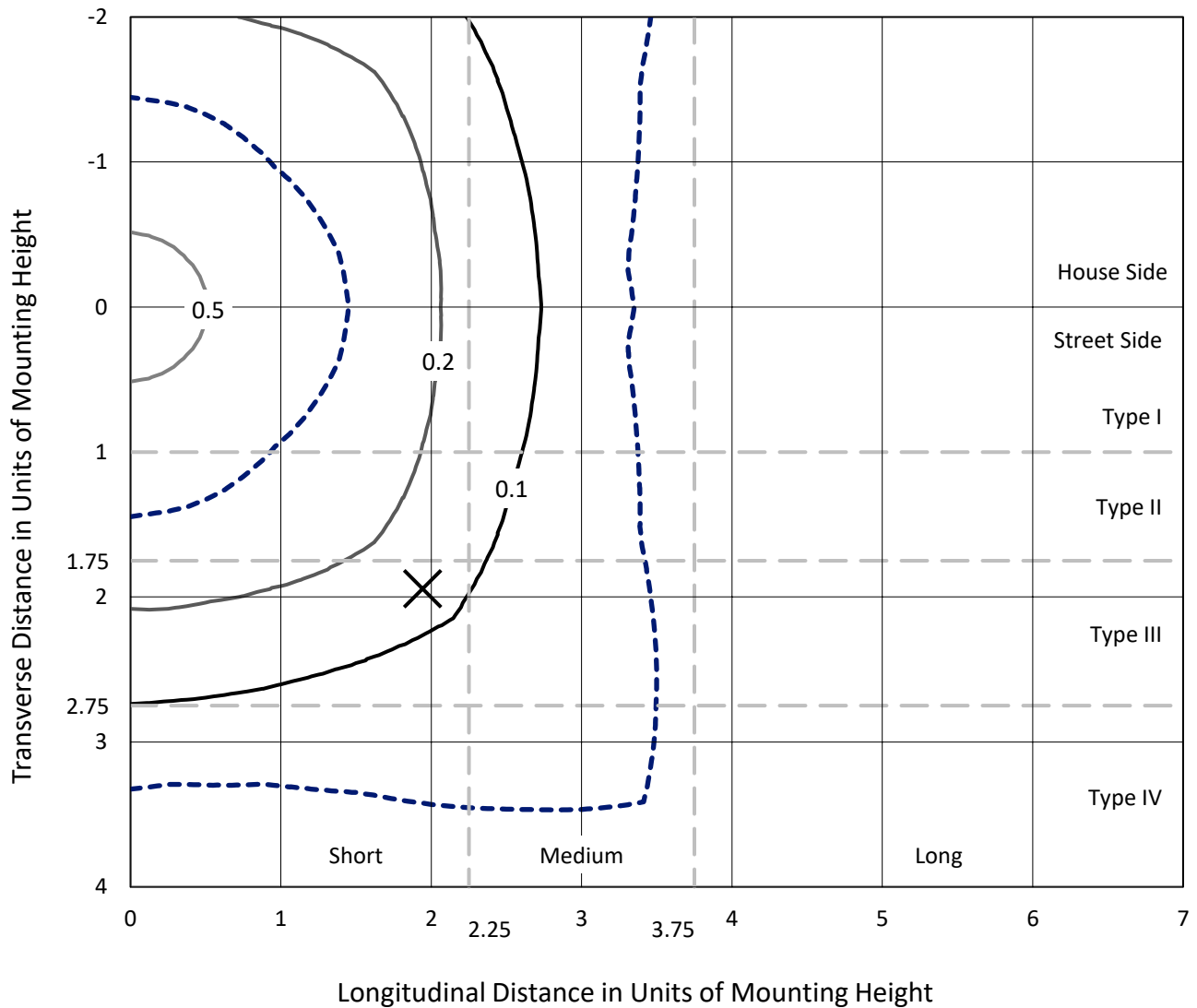
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

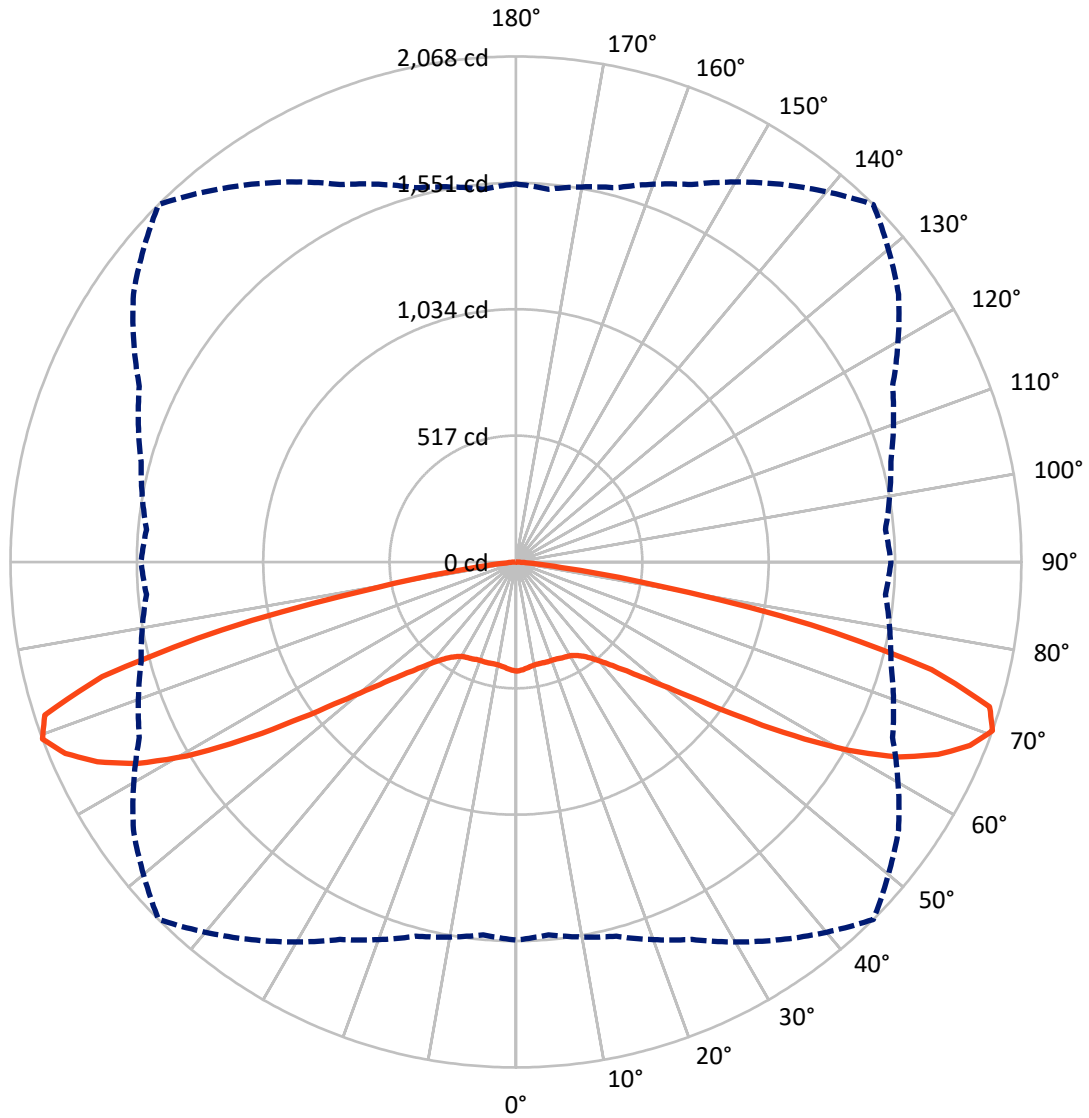
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2448.0	0.0	2448.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2448.0	0.0	2448.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4896.0	0.0	4896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	0.8
10°-20°	122.0	2.5
20°-30°	203.0	4.1
30°-40°	307.0	6.3
40°-50°	510.2	10.4
50°-60°	962.7	19.7
60°-70°	1625.5	33.2
70°-80°	1068.1	21.8
80°-90°	56.0	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°	4896.0	100.0
0°-180°	4896.0	100.0

Coefficient of Utilization



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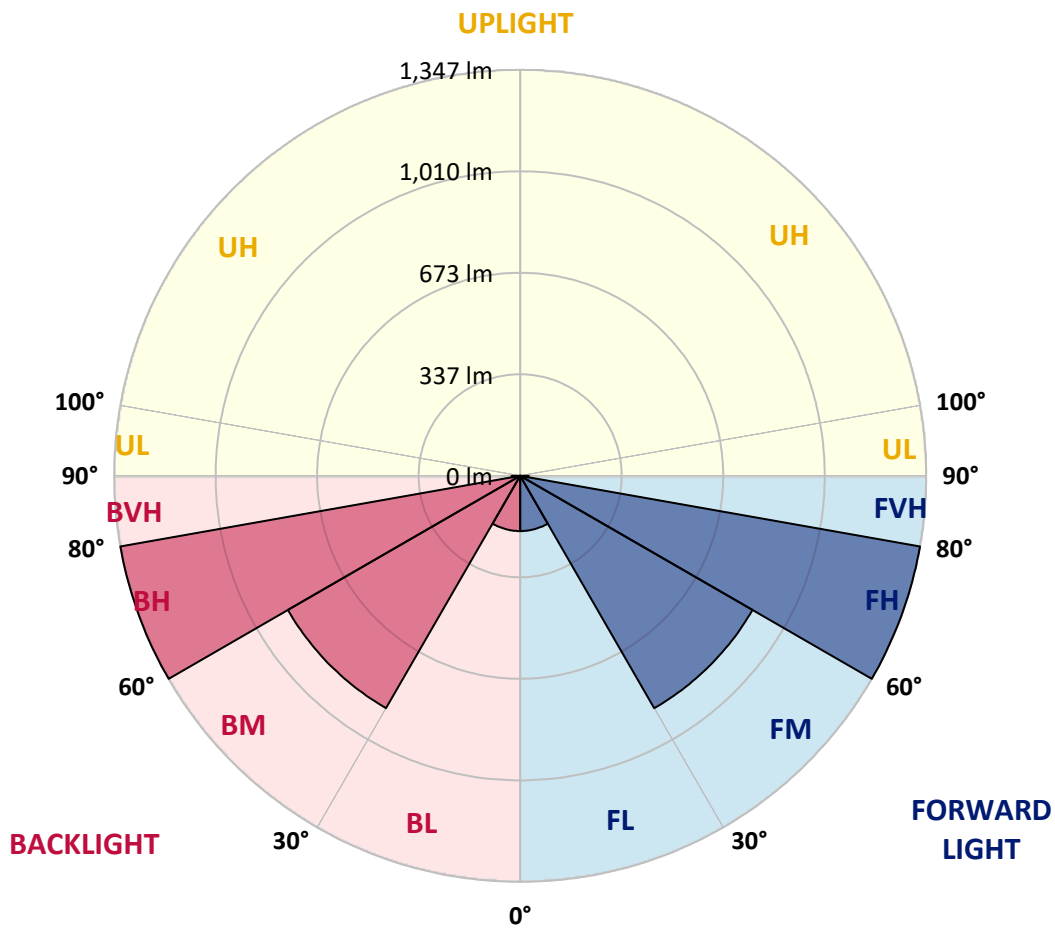
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.3	3.7			
FM (30°-60°)	889.9	18.2			
FH (60°-80°)	1346.8	27.5			G1/1800
FVH (80°-90°)	28.0	0.6			G1/100
BL (0°-30°)	183.3	3.7	B1/500		
BM (30°-60°)	889.9	18.2	B1/1000		
BH (60°-80°)	1346.8	27.5	B3/2500		G1/1800
BVH (80°-90°)	28.0	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°	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6
2.5°	443.8	445.1	444.6	443.6	443.6	442.8	443.6	444.1	444.8	445.3	445.1
5°	438.0	439.0	438.7	438.0	438.2	437.5	438.0	438.7	439.2	439.5	439.5
7.5°	432.9	433.9	433.4	432.1	432.1	431.3	431.6	432.4	433.1	433.4	433.4
10°	431.6	432.6	431.1	429.1	428.3	427.3	427.5	428.3	429.8	430.6	430.6
12.5°	432.1	432.9	431.3	428.3	427.5	426.5	426.5	427.3	429.3	430.3	430.6
15°	433.6	434.4	432.1	428.8	428.0	427.3	427.0	428.0	430.3	432.1	432.4
17.5°	436.4	437.2	433.6	429.1	428.0	428.3	428.0	428.8	432.4	435.7	435.7
20°	439.0	439.5	434.7	429.1	428.0	428.3	428.0	429.6	434.1	438.7	439.0
22.5°	439.7	440.3	435.7	430.8	430.1	430.3	430.1	431.6	435.9	440.5	440.5
25°	440.0	440.8	437.2	433.4	434.7	435.2	434.7	434.9	438.2	442.3	442.0
27.5°	443.8	444.8	441.5	438.2	439.0	438.7	439.5	440.3	442.8	446.9	445.9
30°	451.7	452.5	449.7	446.4	445.9	444.1	446.4	448.9	451.7	455.3	454.5
32.5°	464.7	466.2	462.6	459.1	456.8	455.8	457.6	461.9	465.7	469.5	468.0
35°	486.3	487.3	484.0	477.4	473.3	473.3	474.9	480.5	486.6	491.4	489.6
37.5°	516.9	518.1	512.3	504.4	498.3	498.3	500.3	506.2	515.3	522.2	519.6
40°	554.0	555.8	548.4	540.3	534.4	533.4	535.9	542.6	551.2	559.9	557.1
42.5°	598.8	600.8	591.2	584.0	579.5	579.5	580.7	586.8	594.7	605.4	604.6
45°	656.1	659.6	646.4	639.3	634.9	635.9	636.7	642.1	649.2	661.4	660.9
47.5°	724.3	727.8	713.8	706.4	705.7	710.5	707.5	711.3	715.1	729.1	725.0
50°	801.6	807.7	798.1	797.5	799.1	808.0	800.9	802.9	798.6	807.5	802.1
52.5°	896.3	905.2	903.4	906.5	923.5	941.8	925.5	918.4	902.1	904.9	895.5
55°	1011.1	1024.5	1027.1	1045.4	1084.1	1121.5	1086.9	1058.1	1023.5	1017.2	1007.2
57.5°	1141.6	1152.3	1164.5	1201.9	1274.2	1340.6	1274.2	1210.6	1156.1	1143.1	1134.0
60°	1282.1	1295.3	1307.0	1362.2	1469.6	1563.0	1467.6	1366.6	1294.5	1277.0	1261.7
62.5°	1433.0	1450.0	1458.2	1519.5	1644.7	1756.2	1646.5	1524.1	1444.2	1425.3	1410.1
65°	1577.8	1591.8	1600.9	1666.3	1785.9	1897.7	1794.1	1673.5	1591.3	1566.6	1554.4
67.5°	1645.2	1652.9	1675.2	1749.3	1875.5	2003.0	1896.9	1757.2	1665.3	1622.1	1622.6
70°	1546.5	1531.0	1584.9	1703.5	1886.2	2067.7	1910.6	1699.9	1587.5	1517.2	1534.0
72.5°	1195.0	1168.3	1262.0	1464.8	1764.1	2026.4	1776.3	1476.2	1320.2	1177.7	1213.1
75°	650.2	619.9	749.2	1005.7	1406.8	1756.4	1439.1	1034.5	834.2	645.4	687.4
77.5°	183.5	172.0	276.4	486.6	846.1	1233.2	878.7	497.3	327.8	194.4	216.1
80°	56.2	54.5	73.8	146.6	359.3	590.6	345.3	148.4	93.9	59.3	62.6
82.5°	33.3	30.5	36.6	53.4	91.6	185.5	89.1	55.7	44.8	30.0	32.6
85°	19.1	17.8	21.6	26.0	30.8	39.4	25.7	26.5	23.9	16.0	16.8
87.5°	7.9	7.1	8.4	8.1	7.1	9.2	6.9	8.1	9.7	6.4	5.9
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)