

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: P882542

Luminaire Tested: **NAV-SB2C-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882542
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-SB2C-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12303 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

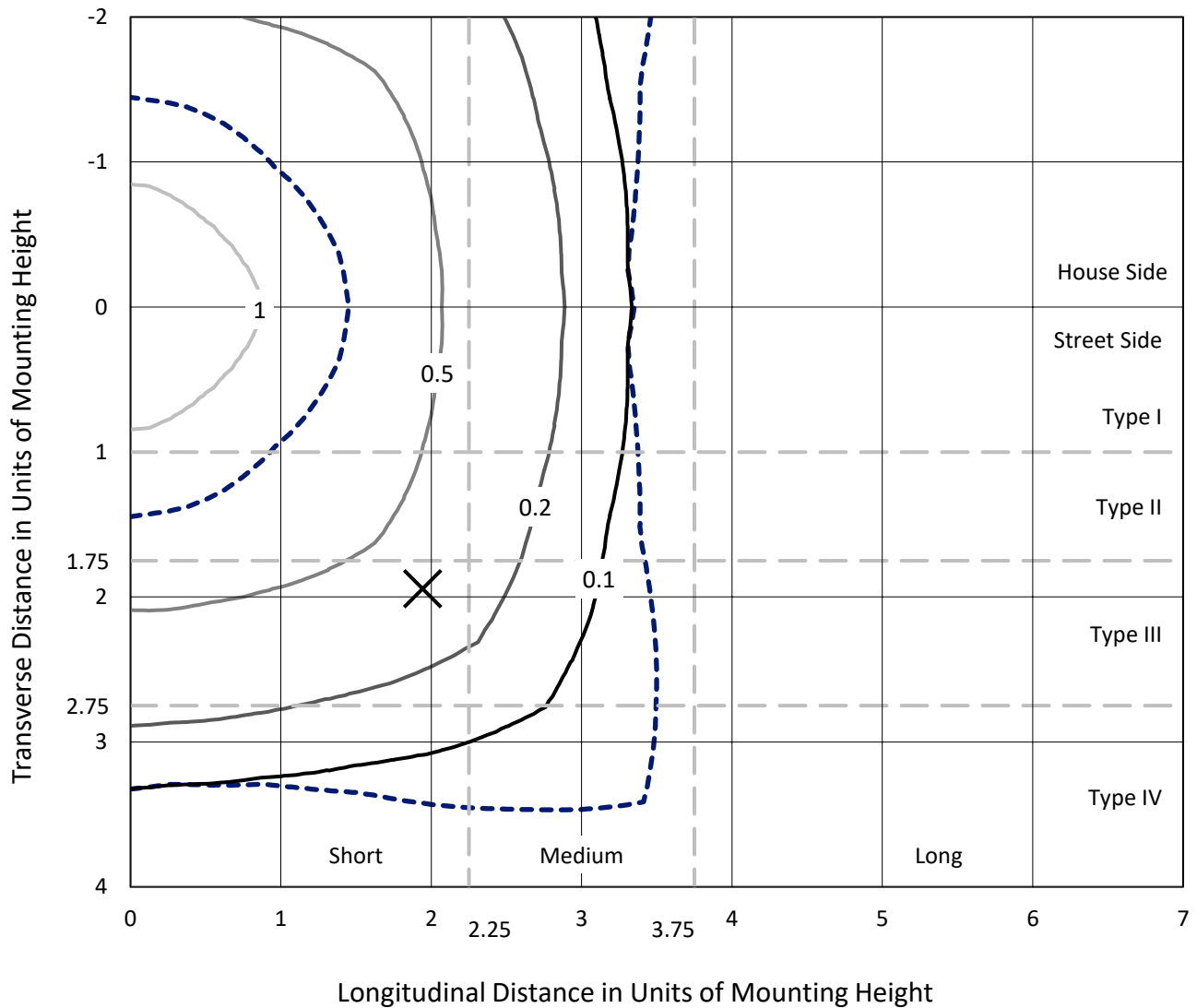
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

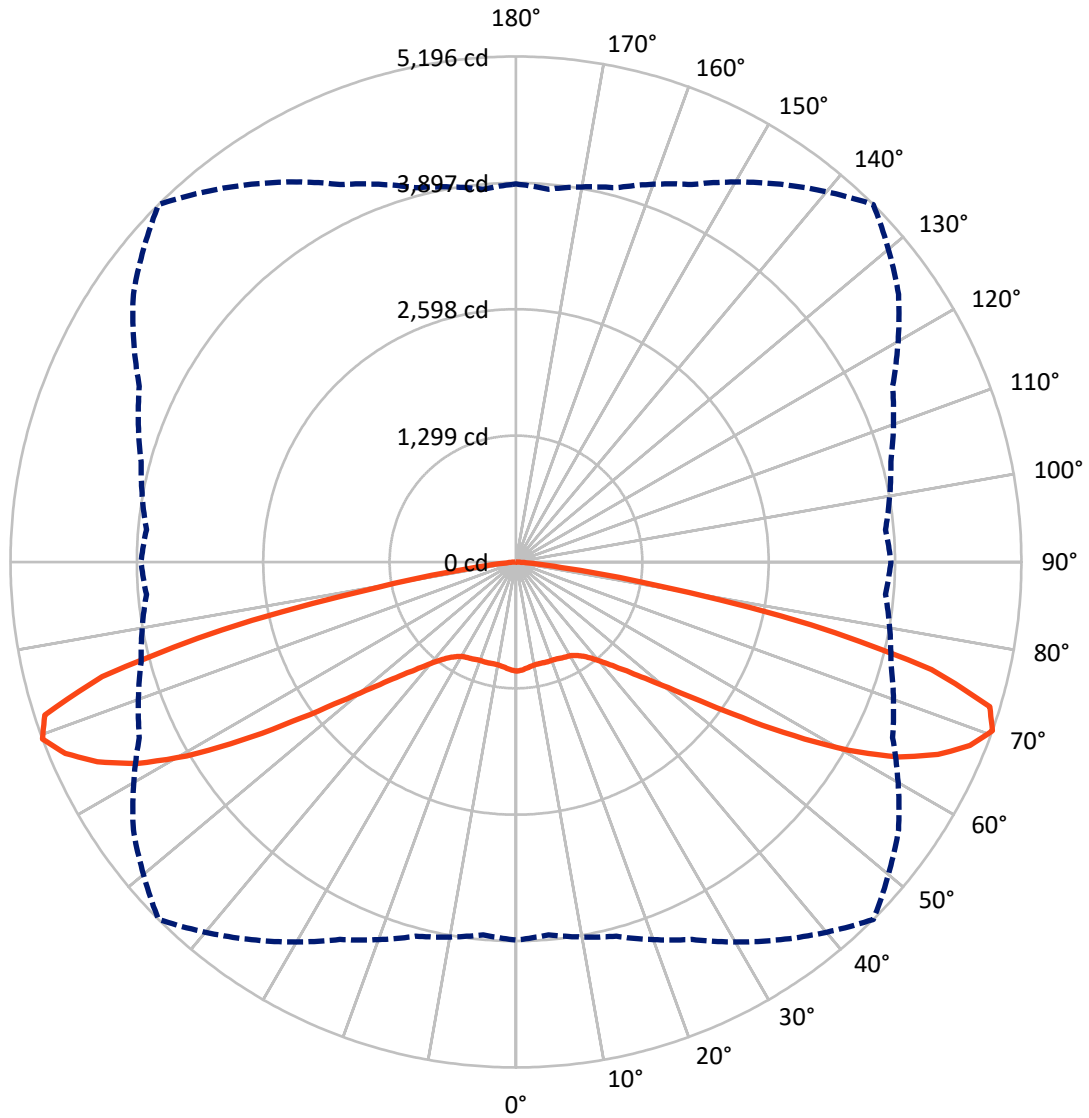
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	6151.5	0.0	6151.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6151.5	0.0	6151.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12303.0	0.0	12303.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	0.8
10°-20°	306.5	2.5
20°-30°	510.1	4.1
30°-40°	771.5	6.3
40°-50°	1282.0	10.4
50°-60°	2419.1	19.7
60°-70°	4084.7	33.2
70°-80°	2684.1	21.8
80°-90°	140.6	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°	12303.0	100.0
0°-180°	12303.0	100.0



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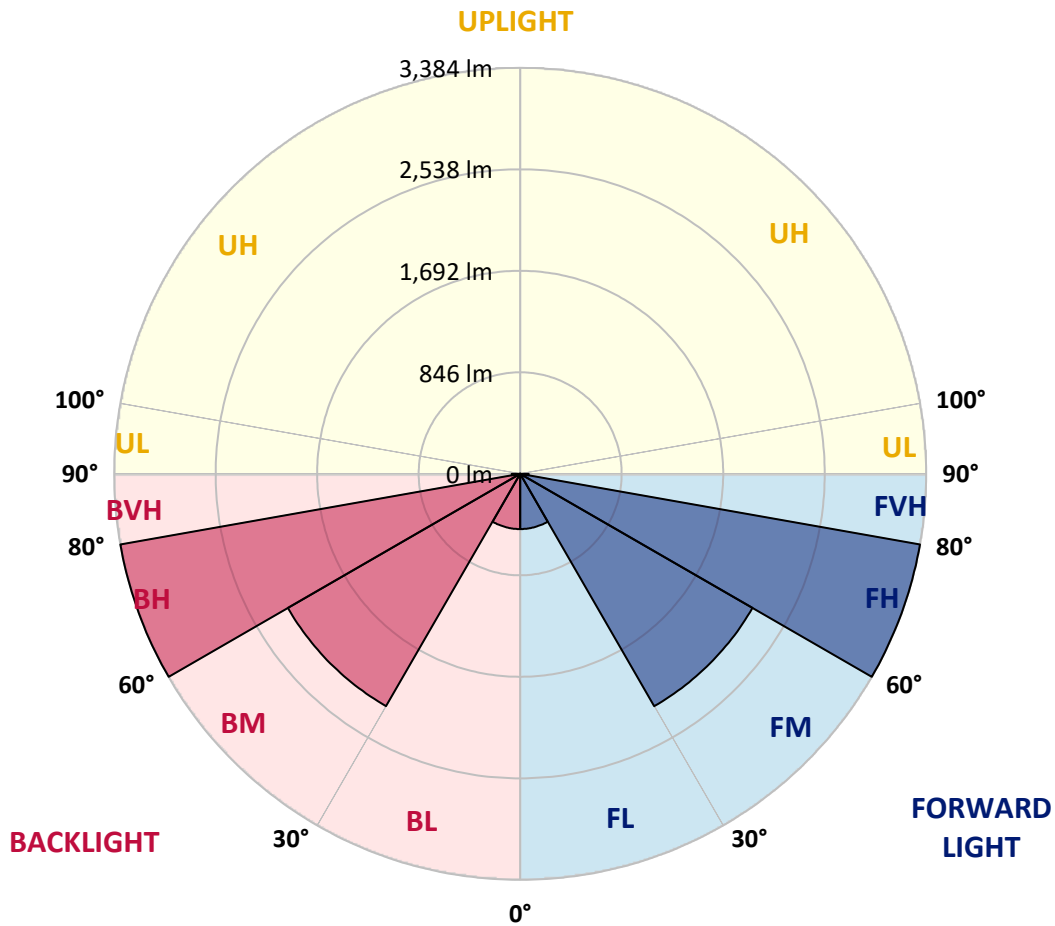
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.5	3.7			
FM (30°-60°)	2236.3	18.2			
FH (60°-80°)	3384.4	27.5			G2/5000
FVH (80°-90°)	70.3	0.6			G1/100
BL (0°-30°)	460.5	3.7	B1/500		
BM (30°-60°)	2236.3	18.2	B2/2500		
BH (60°-80°)	3384.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	70.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3
2.5°	1115.2	1118.4	1117.2	1114.6	1114.6	1112.7	1114.6	1115.9	1117.8	1119.1	1118.4
5°	1100.5	1103.1	1102.5	1100.5	1101.2	1099.3	1100.5	1102.5	1103.7	1104.4	1104.4
7.5°	1087.7	1090.3	1089.0	1085.8	1085.8	1083.9	1084.6	1086.5	1088.4	1089.0	1089.0
10°	1084.6	1087.1	1083.3	1078.2	1076.2	1073.7	1074.3	1076.2	1080.1	1082.0	1082.0
12.5°	1085.8	1087.7	1083.9	1076.2	1074.3	1071.8	1071.8	1073.7	1078.8	1081.4	1082.0
15°	1089.7	1091.6	1085.8	1077.5	1075.6	1073.7	1073.0	1075.6	1081.4	1085.8	1086.5
17.5°	1096.7	1098.6	1089.7	1078.2	1075.6	1076.2	1075.6	1077.5	1086.5	1094.8	1094.8
20°	1103.1	1104.4	1092.2	1078.2	1075.6	1076.2	1075.6	1079.4	1090.9	1102.5	1103.1
22.5°	1105.0	1106.3	1094.8	1082.6	1080.7	1081.4	1080.7	1084.6	1095.4	1106.9	1106.9
25°	1105.7	1107.6	1098.6	1089.0	1092.2	1093.5	1092.2	1092.9	1101.2	1111.4	1110.8
27.5°	1115.2	1117.8	1109.5	1101.2	1103.1	1102.5	1104.4	1106.3	1112.7	1122.9	1120.4
30°	1135.1	1137.0	1130.0	1121.6	1120.4	1115.9	1121.6	1128.0	1135.1	1144.0	1142.1
32.5°	1167.7	1171.5	1162.6	1153.6	1147.9	1145.3	1149.8	1160.6	1170.2	1179.8	1176.0
35°	1222.0	1224.6	1216.3	1199.7	1189.4	1189.4	1193.3	1207.3	1222.7	1234.8	1230.4
37.5°	1298.8	1302.0	1287.3	1267.4	1252.1	1252.1	1257.2	1271.9	1294.9	1312.2	1305.8
40°	1392.1	1396.6	1378.1	1357.6	1342.9	1340.3	1346.7	1363.4	1385.1	1406.8	1399.8
42.5°	1504.7	1509.8	1485.5	1467.6	1456.1	1456.1	1459.3	1474.6	1494.5	1521.3	1519.4
45°	1648.6	1657.5	1624.3	1606.4	1595.5	1598.1	1600.0	1613.4	1631.3	1662.0	1660.7
47.5°	1820.0	1828.9	1793.7	1775.2	1773.3	1785.4	1777.7	1787.3	1796.9	1832.1	1821.9
50°	2014.4	2029.7	2005.4	2004.1	2008.0	2030.3	2012.4	2017.5	2006.7	2029.1	2015.6
52.5°	2252.2	2274.6	2270.1	2277.8	2320.7	2366.7	2325.8	2307.9	2266.9	2274.0	2250.3
55°	2540.6	2574.5	2580.9	2627.0	2724.2	2818.2	2731.2	2658.9	2572.0	2556.0	2531.0
57.5°	2868.7	2895.5	2926.2	3020.2	3201.9	3368.8	3201.9	3042.0	2905.1	2872.5	2849.5
60°	3221.7	3254.9	3284.4	3423.1	3693.0	3927.7	3687.9	3434.0	3253.0	3208.9	3170.5
62.5°	3600.9	3643.7	3664.2	3818.3	4132.9	4413.0	4137.4	3829.8	3629.0	3581.7	3543.3
65°	3964.8	3999.9	4022.9	4187.3	4487.8	4768.6	4508.3	4205.2	3998.6	3936.6	3905.9
67.5°	4134.2	4153.4	4209.7	4395.8	4712.9	5033.3	4766.7	4415.6	4184.7	4076.0	4077.3
70°	3886.1	3847.1	3982.7	4280.7	4739.8	5195.7	4801.2	4271.7	3989.1	3812.6	3854.8
72.5°	3003.0	2935.8	3171.2	3680.8	4432.9	5092.2	4463.5	3709.6	3317.6	2959.5	3048.4
75°	1633.9	1557.8	1882.6	2527.2	3535.0	4413.7	3616.2	2599.5	2096.2	1621.7	1727.2
77.5°	461.1	432.3	694.5	1222.7	2126.3	3098.9	2208.1	1249.5	823.6	488.6	542.9
80°	141.3	136.8	185.4	368.3	902.9	1484.2	867.8	372.8	236.0	149.0	157.3
82.5°	83.8	76.7	92.1	134.3	230.2	466.2	223.8	140.0	112.5	75.5	81.9
85°	48.0	44.8	54.4	65.2	77.4	99.1	64.6	66.5	60.1	40.3	42.2
87.5°	19.8	17.9	21.1	20.5	17.9	23.0	17.3	20.5	24.3	16.0	14.7
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)