

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: P962351

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12827.9 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

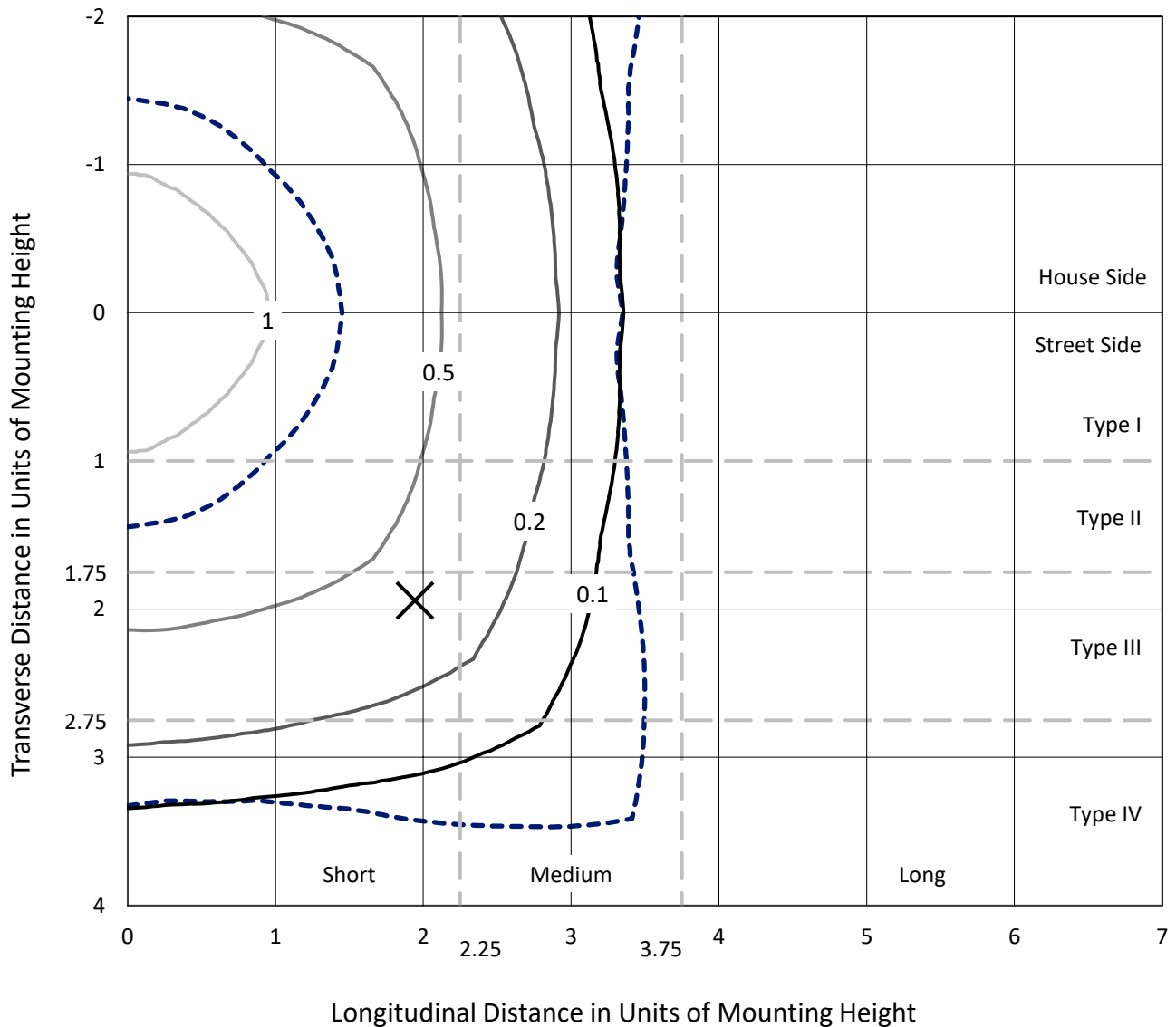
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

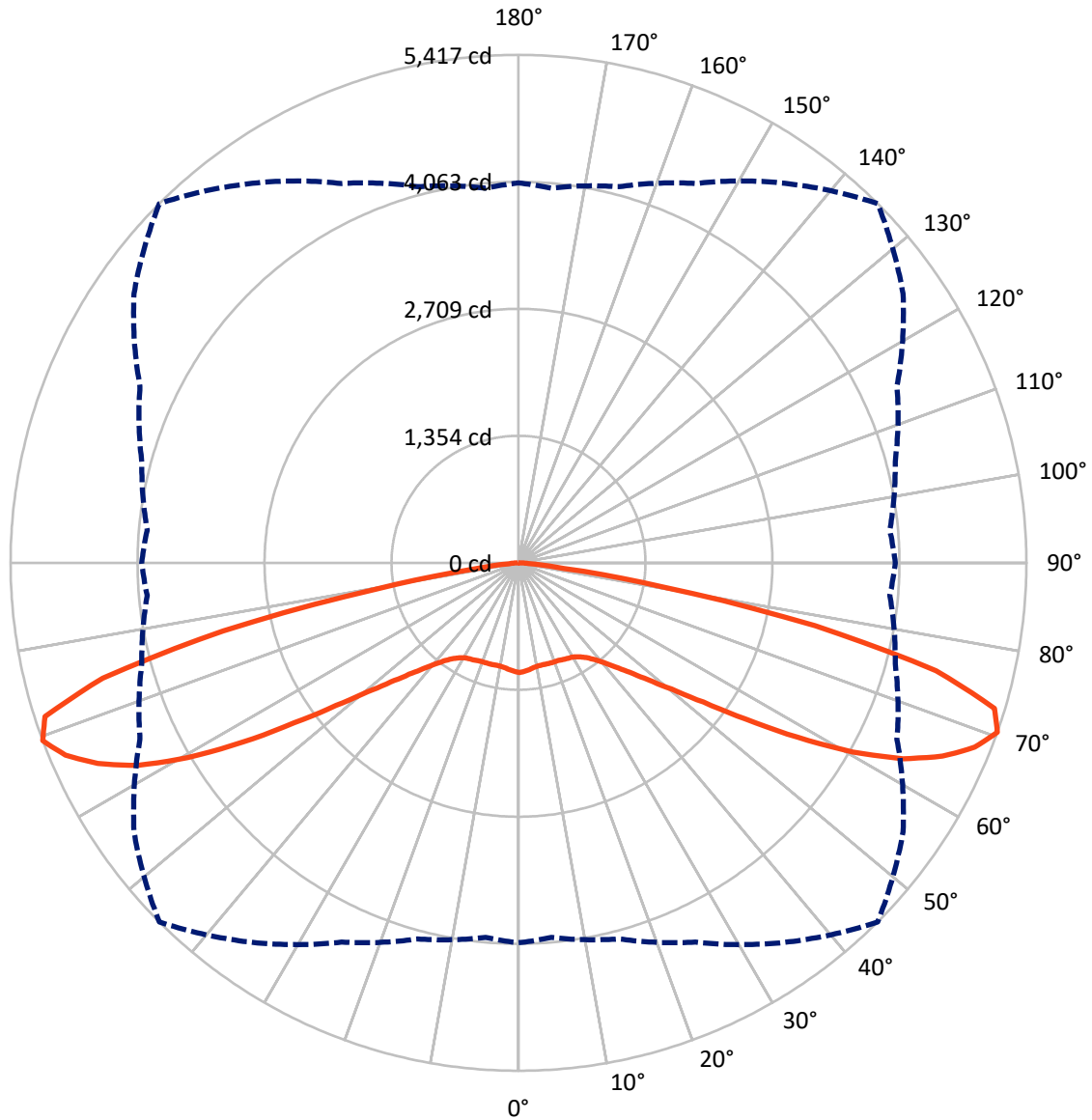
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	6413.9	0.0	6413.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6413.9	0.0	6413.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	12827.9	0.0	12827.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	0.8
10°-20°	319.6	2.5
20°-30°	531.9	4.1
30°-40°	804.4	6.3
40°-50°	1336.7	10.4
50°-60°	2522.3	19.7
60°-70°	4259.0	33.2
70°-80°	2798.6	21.8
80°-90°	146.6	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°	12827.9	100.0
0°-180°	12827.9	100.0

Coefficient of Utilization



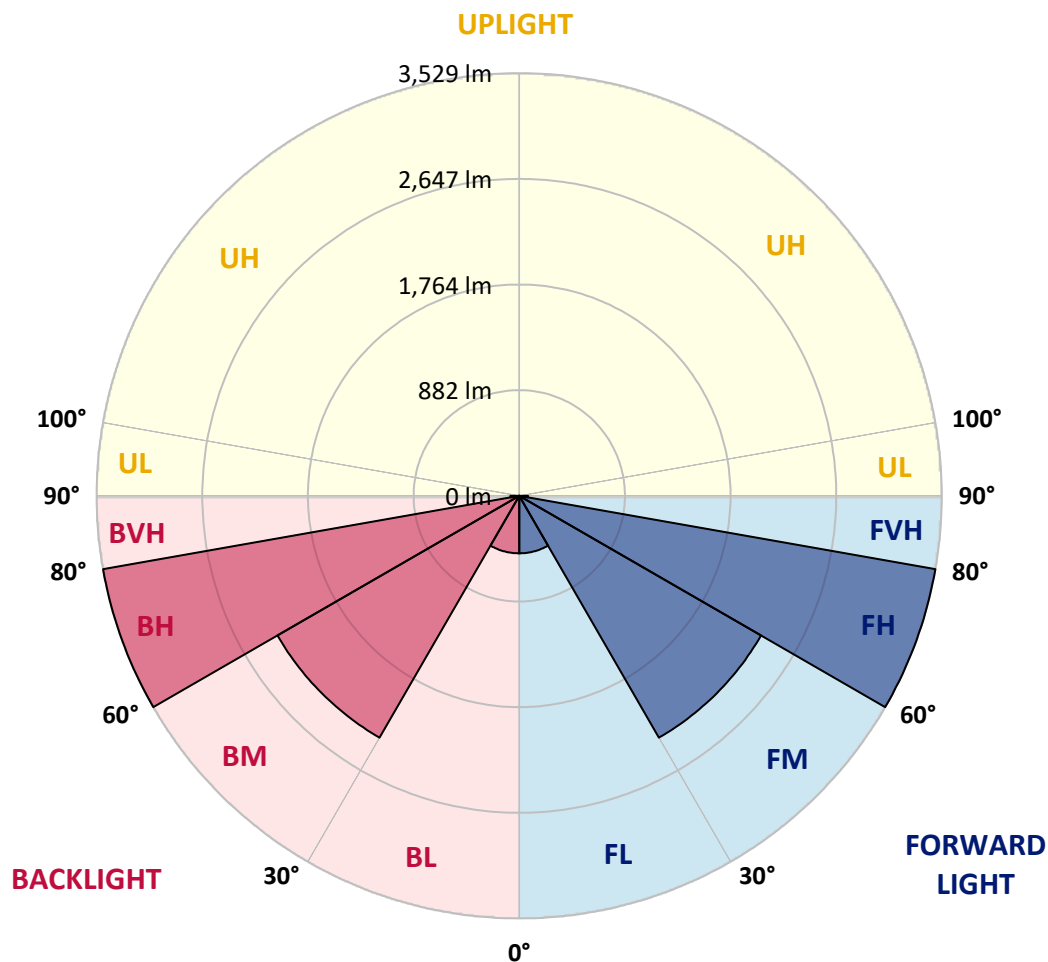
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.2	3.7			
FM (30°-60°)	2331.7	18.2			
FH (60°-80°)	3528.8	27.5			G2/5000
FVH (80°-90°)	73.3	0.6			G1/100
BL (0°-30°)	480.2	3.7	B1/500		
BM (30°-60°)	2331.7	18.2	B2/2500		
BH (60°-80°)	3528.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	73.3	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°	1170.1	1170.1	1170.1	1170.1	1170.1	1170.1	1170.1	1170.1	1170.1	1170.1	1170.1
2.5°	1162.9	1166.1	1164.8	1162.1	1162.1	1160.2	1162.1	1163.5	1165.5	1166.9	1166.1
5°	1147.5	1150.2	1149.5	1147.5	1148.2	1146.2	1147.5	1149.5	1150.9	1151.5	1151.5
7.5°	1134.2	1136.8	1135.5	1132.1	1132.1	1130.2	1130.8	1132.8	1134.8	1135.5	1135.5
10°	1130.8	1133.4	1129.4	1124.1	1122.2	1119.5	1120.1	1122.2	1126.2	1128.1	1128.1
12.5°	1132.1	1134.2	1130.2	1122.2	1120.1	1117.5	1117.5	1119.5	1124.8	1127.5	1128.1
15°	1136.1	1138.2	1132.1	1123.5	1121.5	1119.5	1118.8	1121.5	1127.5	1132.1	1132.8
17.5°	1143.5	1145.5	1136.1	1124.1	1121.5	1122.2	1121.5	1123.5	1132.8	1141.4	1141.4
20°	1150.2	1151.5	1138.8	1124.1	1121.5	1122.2	1121.5	1125.4	1137.4	1149.5	1150.2
22.5°	1152.2	1153.5	1141.4	1128.8	1126.8	1127.5	1126.8	1130.8	1142.2	1154.1	1154.1
25°	1152.8	1154.9	1145.5	1135.5	1138.8	1140.1	1138.8	1139.5	1148.2	1158.9	1158.1
27.5°	1162.9	1165.5	1156.8	1148.2	1150.2	1149.5	1151.5	1153.5	1160.2	1170.9	1168.2
30°	1183.5	1185.5	1178.1	1169.5	1168.2	1163.5	1169.5	1176.2	1183.5	1192.8	1190.8
32.5°	1217.5	1221.5	1212.2	1202.8	1196.8	1194.1	1198.8	1210.1	1220.2	1230.2	1226.2
35°	1274.2	1276.8	1268.1	1250.8	1240.1	1240.1	1244.1	1258.8	1274.8	1287.5	1282.9
37.5°	1354.2	1357.5	1342.1	1321.5	1305.5	1305.5	1310.9	1326.1	1350.2	1368.2	1361.5
40°	1451.5	1456.2	1436.8	1415.5	1400.1	1397.5	1404.1	1421.6	1444.2	1466.9	1459.5
42.5°	1568.9	1574.2	1548.9	1530.2	1518.2	1518.2	1521.5	1537.5	1558.2	1586.2	1584.2
45°	1718.9	1728.3	1693.6	1674.8	1663.6	1666.2	1668.2	1682.2	1700.9	1732.9	1731.5
47.5°	1897.6	1906.9	1870.2	1850.9	1848.9	1861.6	1853.6	1863.6	1873.6	1910.3	1899.6
50°	2100.3	2116.3	2091.0	2089.7	2093.7	2116.9	2098.3	2103.6	2092.3	2115.6	2101.7
52.5°	2348.3	2371.6	2367.0	2375.0	2419.6	2467.7	2425.0	2406.3	2363.6	2371.0	2346.3
55°	2649.0	2684.4	2691.0	2739.0	2840.4	2938.4	2847.8	2772.4	2681.7	2665.0	2639.1
57.5°	2991.1	3019.0	3051.1	3149.1	3338.4	3512.5	3338.4	3171.8	3029.1	2995.0	2971.1
60°	3359.1	3393.8	3424.4	3569.2	3850.5	4095.2	3845.2	3580.5	3391.8	3345.8	3305.8
62.5°	3754.5	3799.2	3820.5	3981.2	4309.3	4601.3	4313.9	3993.2	3783.9	3734.5	3694.5
65°	4133.9	4170.6	4194.6	4365.9	4679.3	4972.0	4700.6	4384.6	4169.2	4104.6	4072.5
67.5°	4310.6	4330.6	4389.3	4583.3	4914.1	5248.1	4970.0	4604.0	4363.2	4250.0	4251.3
70°	4051.9	4011.2	4152.6	4463.3	4942.0	5417.4	5006.0	4453.9	4159.2	3975.3	4019.2
72.5°	3131.1	3061.1	3306.4	3837.9	4621.9	5309.4	4654.0	3867.8	3459.2	3085.8	3178.4
75°	1703.6	1624.2	1963.0	2635.1	3685.8	4601.9	3770.6	2710.4	2185.6	1690.9	1800.9
77.5°	480.7	450.7	724.1	1274.8	2217.0	3231.1	2302.4	1302.9	858.7	509.4	566.1
80°	147.4	142.7	193.3	384.1	941.5	1547.5	904.8	388.7	246.0	155.4	164.0
82.5°	87.3	80.1	96.0	140.0	240.1	486.1	233.4	146.1	117.4	78.7	85.4
85°	50.0	46.6	56.7	68.1	80.7	103.3	67.3	69.4	62.6	42.0	44.0
87.5°	20.7	18.7	22.0	21.3	18.7	24.0	18.0	21.3	25.3	16.7	15.4
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)