

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: P963436

Luminaire Tested: **NAV-SB3A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963436
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-SB3A-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12942.7 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

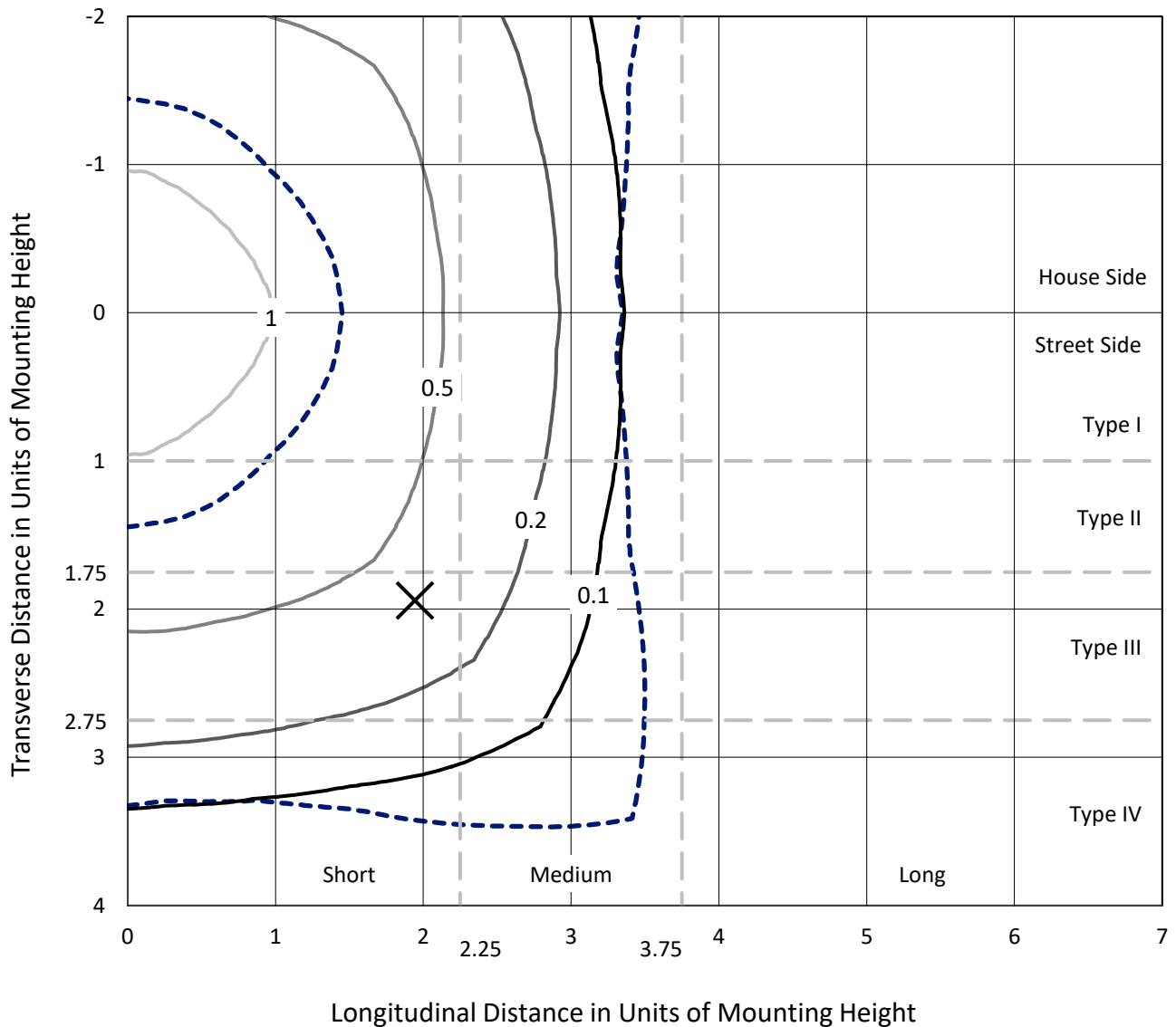
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

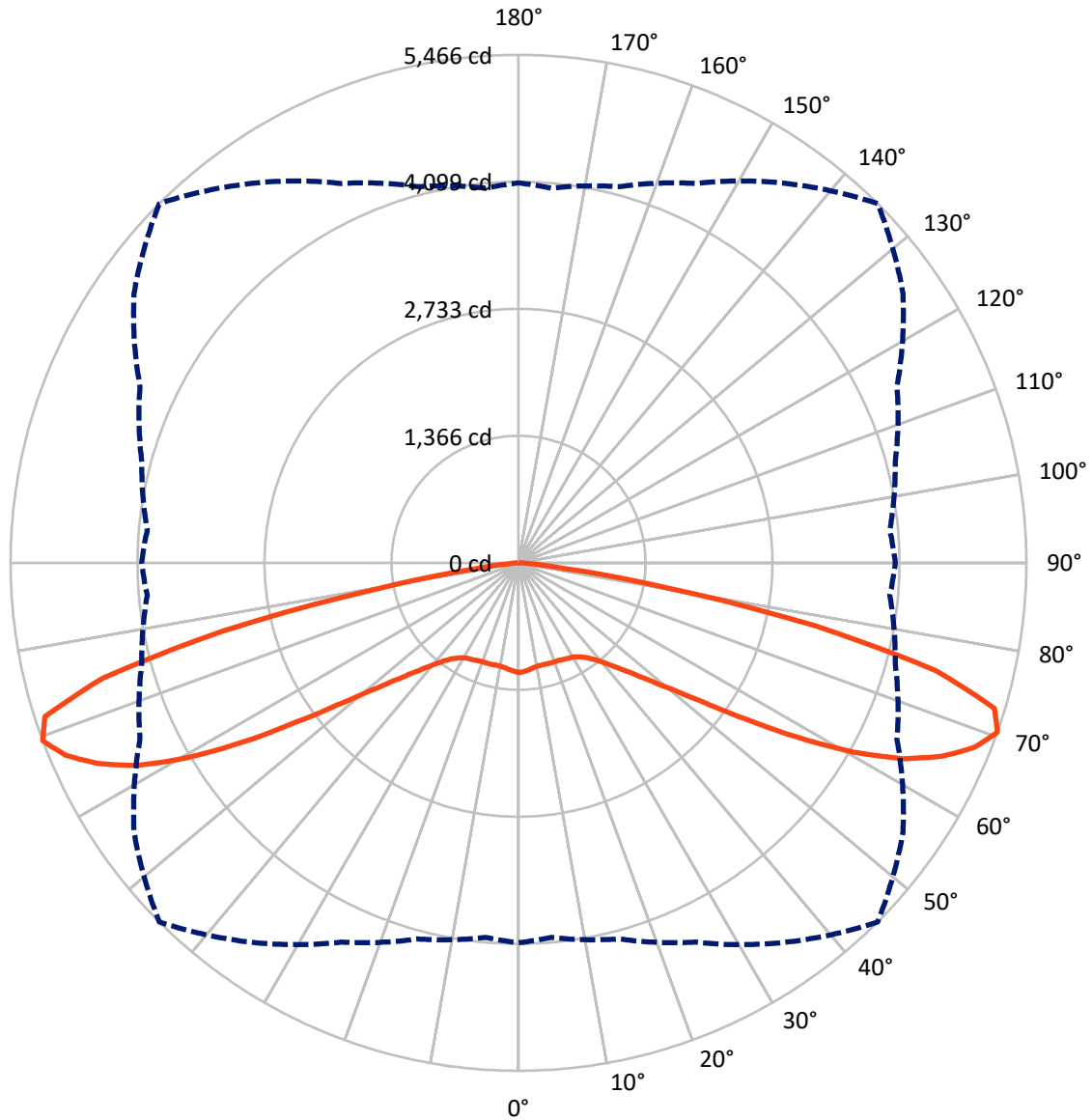
✕ Max cd
 - - - 1/2 Max cd



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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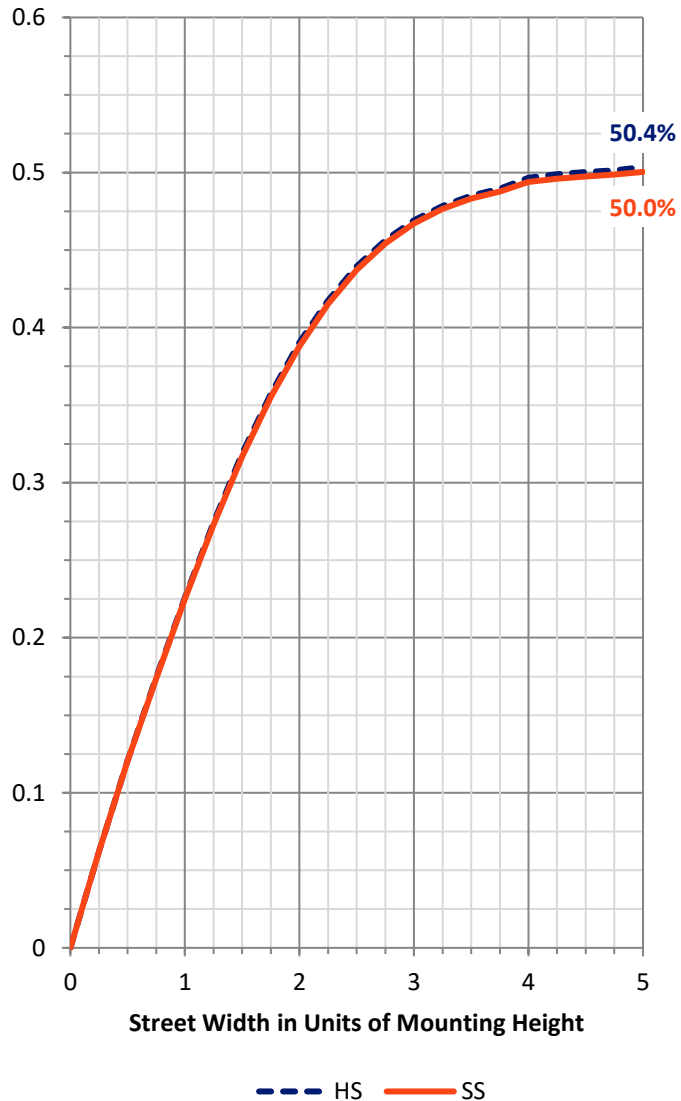
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6471.3	0.0	6471.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6471.3	0.0	6471.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12942.7	0.0	12942.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	0.8
10°-20°	322.5	2.5
20°-30°	536.6	4.1
30°-40°	811.6	6.3
40°-50°	1348.6	10.4
50°-60°	2544.8	19.7
60°-70°	4297.1	33.2
70°-80°	2823.6	21.8
80°-90°	147.9	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°	12942.7	100.0
0°-180°	12942.7	100.0

Coefficient of Utilization

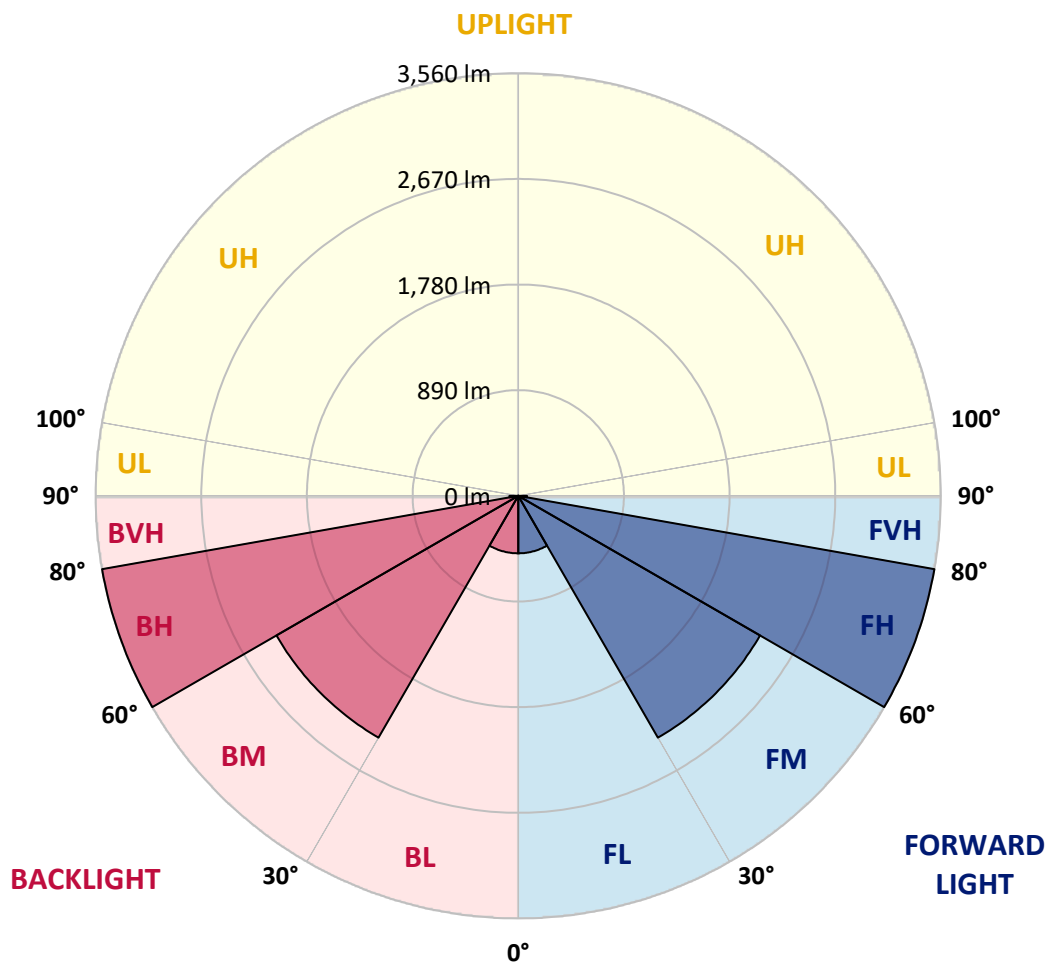


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.5	3.7			
FM (30°-60°)	2352.5	18.2			
FH (60°-80°)	3560.4	27.5			G2/5000
FVH (80°-90°)	74.0	0.6			G1/100
BL (0°-30°)	484.5	3.7	B1/500		
BM (30°-60°)	2352.5	18.2	B2/2500		
BH (60°-80°)	3560.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	74.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1173.2	1176.6	1175.3	1172.6	1172.6	1170.6	1172.6	1173.9	1175.9	1177.3	1176.6
5°	1157.7	1160.4	1159.8	1157.7	1158.5	1156.4	1157.7	1159.8	1161.1	1161.8	1161.8
7.5°	1144.3	1147.0	1145.6	1142.3	1142.3	1140.3	1140.9	1143.0	1145.0	1145.6	1145.6
10°	1140.9	1143.6	1139.6	1134.3	1132.2	1129.6	1130.2	1132.2	1136.2	1138.3	1138.3
12.5°	1142.3	1144.3	1140.3	1132.2	1130.2	1127.5	1127.5	1129.6	1134.9	1137.5	1138.3
15°	1146.4	1148.3	1142.3	1133.5	1131.5	1129.6	1128.8	1131.5	1137.5	1142.3	1143.0
17.5°	1153.7	1155.8	1146.4	1134.3	1131.5	1132.2	1131.5	1133.5	1143.0	1151.7	1151.7
20°	1160.4	1161.8	1149.0	1134.3	1131.5	1132.2	1131.5	1135.6	1147.7	1159.8	1160.4
22.5°	1162.5	1163.8	1151.7	1138.9	1136.9	1137.5	1136.9	1140.9	1152.4	1164.5	1164.5
25°	1163.2	1165.1	1155.8	1145.6	1149.0	1150.4	1149.0	1149.6	1158.5	1169.2	1168.5
27.5°	1173.2	1175.9	1167.2	1158.5	1160.4	1159.8	1161.8	1163.8	1170.6	1181.3	1178.6
30°	1194.1	1196.1	1188.7	1180.0	1178.6	1173.9	1180.0	1186.6	1194.1	1203.6	1201.5
32.5°	1228.4	1232.5	1223.0	1213.6	1207.6	1204.9	1209.6	1221.0	1231.1	1241.2	1237.2
35°	1285.6	1288.2	1279.5	1262.1	1251.2	1251.2	1255.3	1270.1	1286.3	1299.0	1294.4
37.5°	1366.3	1369.7	1354.2	1333.3	1317.2	1317.2	1322.6	1338.0	1362.2	1380.5	1373.7
40°	1464.5	1469.2	1449.8	1428.2	1412.8	1410.0	1416.8	1434.3	1457.1	1480.0	1472.6
42.5°	1582.9	1588.3	1562.7	1543.9	1531.8	1531.8	1535.1	1551.3	1572.1	1600.4	1598.4
45°	1734.3	1743.7	1708.7	1689.9	1678.4	1681.1	1683.2	1697.3	1716.2	1748.4	1747.1
47.5°	1914.6	1924.0	1887.0	1867.4	1865.5	1878.2	1870.2	1880.3	1890.4	1927.3	1916.5
50°	2119.1	2135.3	2109.7	2108.3	2112.3	2135.9	2117.0	2122.5	2111.0	2134.6	2120.4
52.5°	2369.3	2392.9	2388.1	2396.2	2441.3	2489.7	2446.7	2427.8	2384.8	2392.2	2367.3
55°	2672.7	2708.4	2715.1	2763.6	2865.8	2964.7	2873.2	2797.2	2705.7	2688.9	2662.6
57.5°	3017.8	3046.1	3078.4	3177.3	3368.4	3543.9	3368.4	3200.2	3056.1	3021.9	2997.6
60°	3389.2	3424.2	3455.1	3601.1	3885.0	4131.9	3879.6	3612.5	3422.2	3375.7	3335.4
62.5°	3788.1	3833.2	3854.7	4016.9	4347.8	4642.4	4352.6	4029.0	3817.7	3767.9	3727.6
65°	4170.9	4207.9	4232.1	4405.0	4721.2	5016.6	4742.7	4423.8	4206.6	4141.3	4109.0
67.5°	4349.2	4369.4	4428.5	4624.3	4958.0	5295.0	5014.5	4645.2	4402.3	4288.0	4289.3
70°	4088.1	4047.1	4189.7	4503.2	4986.2	5465.9	5050.8	4493.8	4196.5	4010.8	4055.2
72.5°	3159.2	3088.5	3336.1	3872.2	4663.3	5357.0	4695.6	3902.5	3490.1	3113.3	3206.9
75°	1718.8	1638.8	1980.5	2658.6	3718.8	4643.1	3804.3	2734.6	2205.2	1706.0	1817.0
77.5°	485.0	454.8	730.6	1286.3	2236.9	3260.0	2323.0	1314.5	866.4	513.9	571.1
80°	148.6	144.0	195.1	387.4	949.9	1561.4	912.9	392.2	248.3	156.7	165.5
82.5°	88.1	80.8	96.9	141.2	242.2	490.5	235.4	147.3	118.4	79.3	86.1
85°	50.4	47.0	57.2	68.6	81.4	104.2	68.0	70.0	63.2	42.3	44.4
87.5°	20.8	18.9	22.2	21.5	18.9	24.2	18.1	21.5	25.5	16.8	15.5
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)