

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: P963622

Luminaire Tested: **NAV-SB3A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963622
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 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: 12133.9 lumens
Efficiency: N/A
Efficacy: 143.3 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

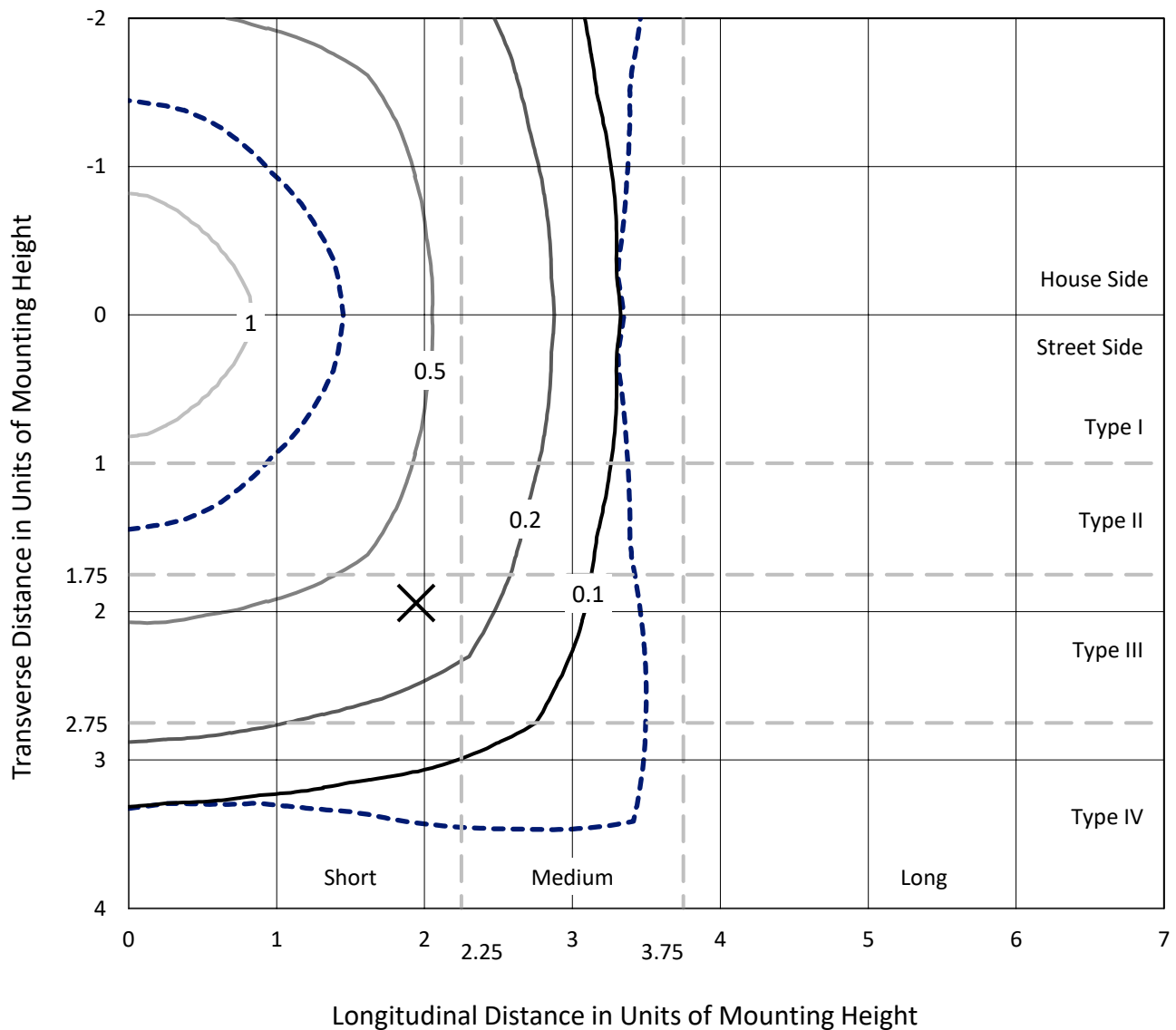


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Iso-Footcandle Lines of Horizontal Illumination

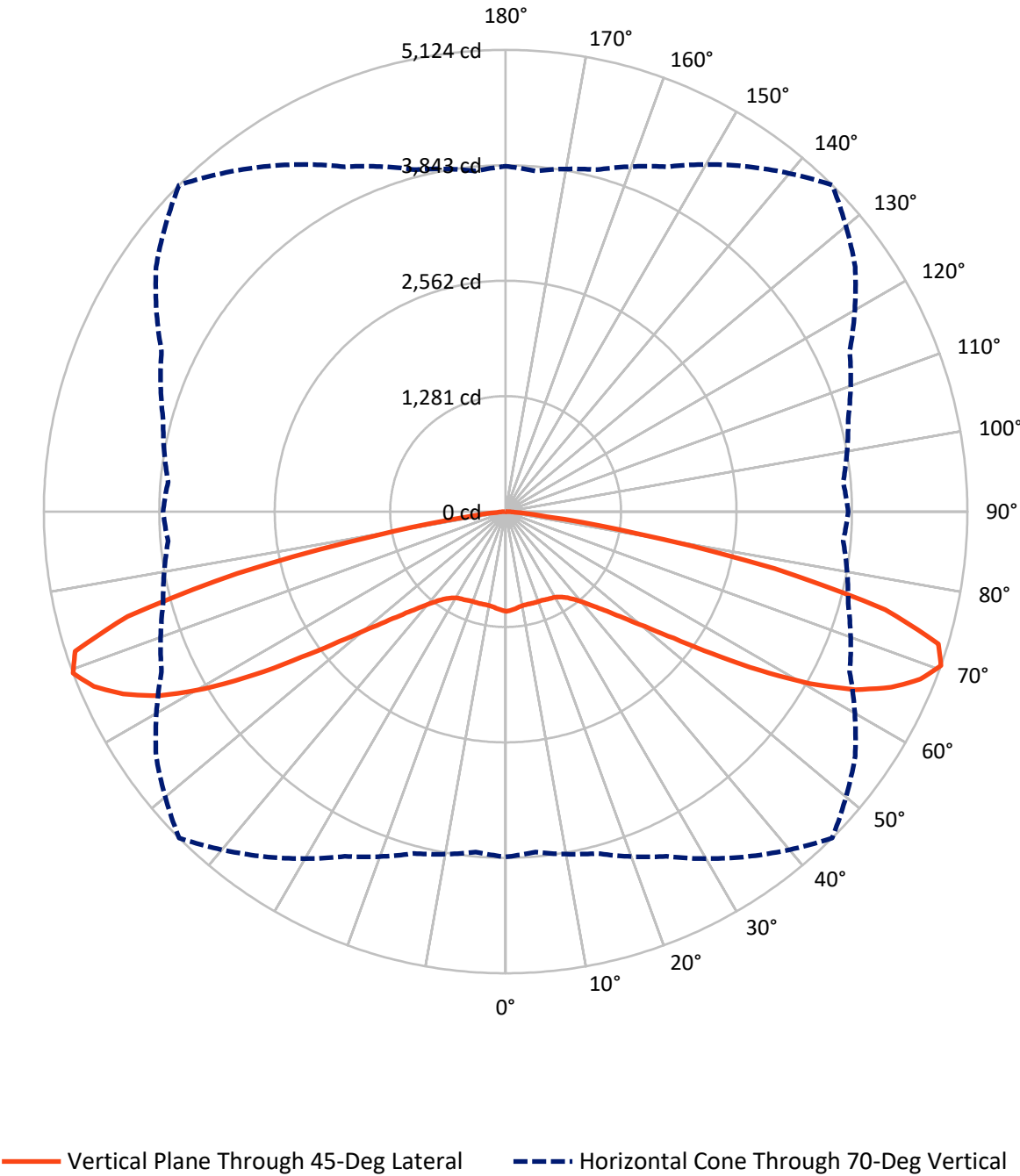
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6067.0	0.0	6067.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6067.0	0.0	6067.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12133.9	0.0	12133.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	0.8
10°-20°	302.3	2.5
20°-30°	503.1	4.1
30°-40°	760.9	6.3
40°-50°	1264.4	10.4
50°-60°	2385.8	19.7
60°-70°	4028.6	33.2
70°-80°	2647.2	21.8
80°-90°	138.7	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°	12133.9	100.0
0°-180°	12133.9	100.0

Coefficient of Utilization



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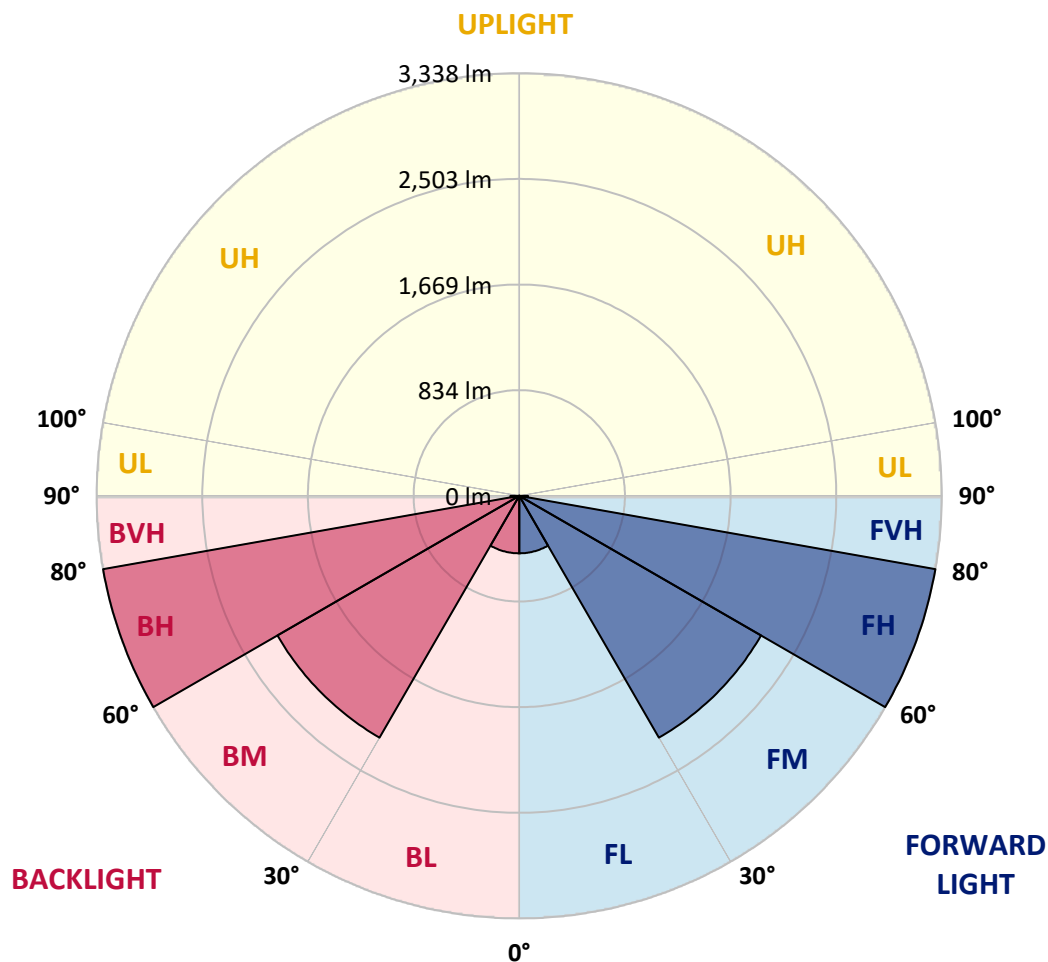
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.2	3.7			
FM	(30°-60°)	2205.5	18.2			
FH	(60°-80°)	3337.9	27.5			G2/5000
FVH	(80°-90°)	69.3	0.6			G1/100
BL	(0°-30°)	454.2	3.7	B1/500		
BM	(30°-60°)	2205.5	18.2	B2/2500		
BH	(60°-80°)	3337.9	27.5	B4/5000		G2/5000
BVH	(80°-90°)	69.3	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°	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9
2.5°	1099.9	1103.1	1101.8	1099.3	1099.3	1097.4	1099.3	1100.5	1102.5	1103.7	1103.1
5°	1085.4	1087.9	1087.3	1085.4	1086.1	1084.1	1085.4	1087.3	1088.6	1089.2	1089.2
7.5°	1072.8	1075.3	1074.1	1070.9	1070.9	1069.0	1069.7	1071.5	1073.5	1074.1	1074.1
10°	1069.7	1072.1	1068.4	1063.3	1061.5	1058.9	1059.5	1061.5	1065.3	1067.1	1067.1
12.5°	1070.9	1072.8	1069.0	1061.5	1059.5	1057.1	1057.1	1058.9	1063.9	1066.5	1067.1
15°	1074.7	1076.6	1070.9	1062.7	1060.8	1058.9	1058.3	1060.8	1066.5	1070.9	1071.5
17.5°	1081.7	1083.5	1074.7	1063.3	1060.8	1061.5	1060.8	1062.7	1071.5	1079.7	1079.7
20°	1087.9	1089.2	1077.2	1063.3	1060.8	1061.5	1060.8	1064.6	1075.9	1087.3	1087.9
22.5°	1089.9	1091.1	1079.7	1067.7	1065.9	1066.5	1065.9	1069.7	1080.4	1091.7	1091.7
25°	1090.5	1092.3	1083.5	1074.1	1077.2	1078.5	1077.2	1077.9	1086.1	1096.1	1095.5
27.5°	1099.9	1102.5	1094.3	1086.1	1087.9	1087.3	1089.2	1091.1	1097.4	1107.5	1104.9
30°	1119.5	1121.4	1114.4	1106.2	1104.9	1100.5	1106.2	1112.5	1119.5	1128.3	1126.4
32.5°	1151.7	1155.4	1146.6	1137.8	1132.1	1129.6	1134.0	1144.7	1154.1	1163.6	1159.8
35°	1205.3	1207.8	1199.6	1183.2	1173.1	1173.1	1176.9	1190.7	1205.9	1217.9	1213.5
37.5°	1280.9	1284.1	1269.6	1250.0	1234.9	1234.9	1239.9	1254.4	1277.1	1294.2	1287.9
40°	1373.0	1377.4	1359.1	1339.0	1324.4	1321.9	1328.2	1344.6	1366.1	1387.5	1380.6
42.5°	1484.0	1489.0	1465.1	1447.4	1436.1	1436.1	1439.2	1454.4	1473.9	1500.4	1498.6
45°	1626.0	1634.8	1602.0	1584.3	1573.6	1576.1	1578.0	1591.2	1608.8	1639.2	1637.9
47.5°	1795.0	1803.8	1769.0	1750.8	1748.9	1760.8	1753.4	1762.8	1772.2	1807.0	1796.8
50°	1986.7	2001.8	1977.8	1976.6	1980.4	2002.4	1984.8	1989.8	1979.1	2001.2	1987.9
52.5°	2221.3	2243.3	2238.9	2246.5	2288.7	2334.2	2293.8	2276.1	2235.8	2242.7	2219.4
55°	2505.7	2539.1	2545.5	2590.9	2686.7	2779.5	2693.7	2622.4	2536.7	2520.9	2496.3
57.5°	2829.3	2855.8	2886.0	2978.8	3157.8	3322.4	3157.8	3000.2	2865.2	2833.1	2810.3
60°	3177.4	3210.2	3239.2	3376.0	3642.2	3873.7	3637.2	3386.8	3208.4	3164.8	3127.0
62.5°	3551.4	3593.6	3613.8	3765.8	4076.1	4352.4	4080.5	3777.2	3579.2	3532.5	3494.6
65°	3910.3	3944.9	3967.7	4129.7	4426.2	4703.0	4446.3	4147.5	3943.7	3882.5	3852.3
67.5°	4077.4	4096.3	4151.9	4335.3	4648.2	4964.2	4701.2	4354.9	4127.3	4020.0	4021.3
70°	3832.7	3794.2	3927.9	4221.9	4674.7	5124.4	4735.2	4213.1	3934.3	3760.2	3801.8
72.5°	2961.7	2895.5	3127.6	3630.2	4371.9	5022.2	4402.2	3658.6	3272.0	2918.8	3006.5
75°	1611.4	1536.4	1856.8	2492.5	3486.4	4353.0	3566.6	2563.7	2067.4	1599.4	1703.4
77.5°	454.7	426.3	684.9	1205.9	2097.0	3056.3	2177.8	1232.4	812.3	481.9	535.5
80°	139.4	135.0	182.9	363.3	890.5	1463.8	855.9	367.7	232.7	147.0	155.2
82.5°	82.6	75.6	90.8	132.4	227.0	459.8	220.8	138.2	111.0	74.4	80.8
85°	47.3	44.2	53.6	64.4	76.4	97.8	63.7	65.6	59.2	39.8	41.6
87.5°	19.6	17.6	20.8	20.2	17.6	22.8	17.0	20.2	24.0	15.8	14.6
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)