

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: P962568

Luminaire Tested: **NAV-SB2C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962568
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13502.3 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

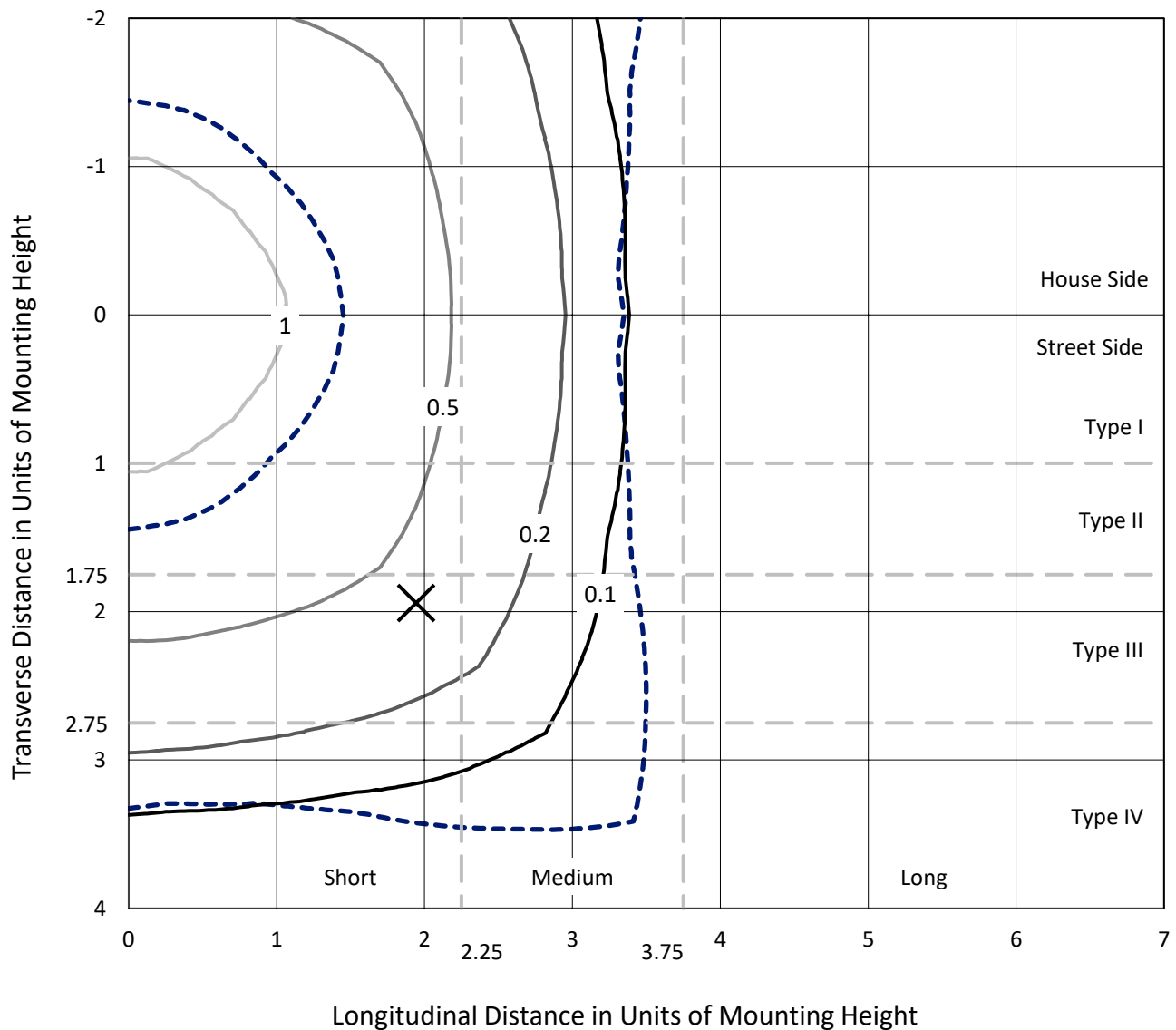
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

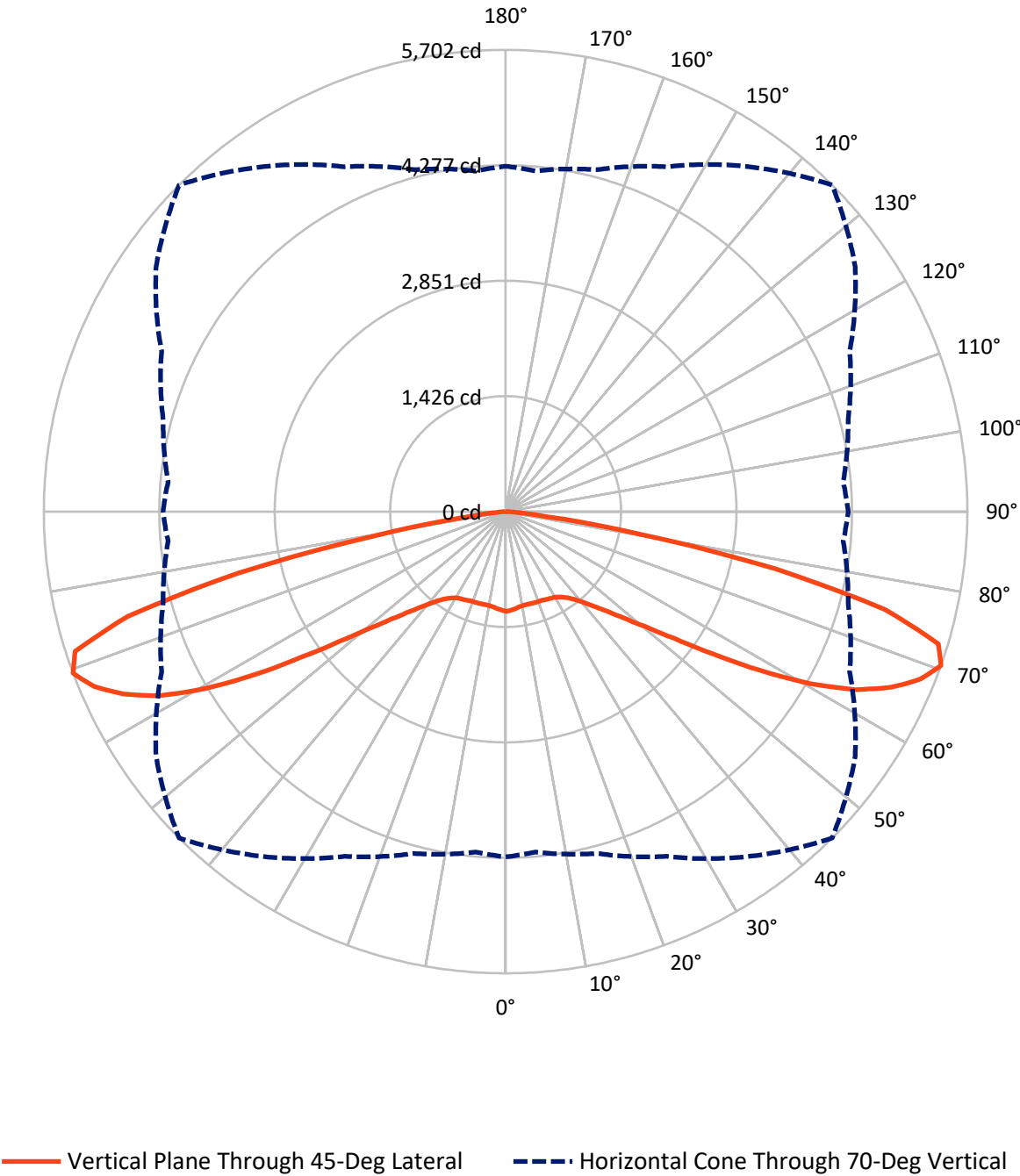
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	6751.2	0.0	6751.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6751.2	0.0	6751.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13502.3	0.0	13502.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	0.8
10°-20°	336.4	2.5
20°-30°	559.8	4.1
30°-40°	846.7	6.3
40°-50°	1407.0	10.4
50°-60°	2654.9	19.7
60°-70°	4482.9	33.2
70°-80°	2945.7	21.8
80°-90°	154.3	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°	13502.3	100.0
0°-180°	13502.3	100.0

Coefficient of Utilization



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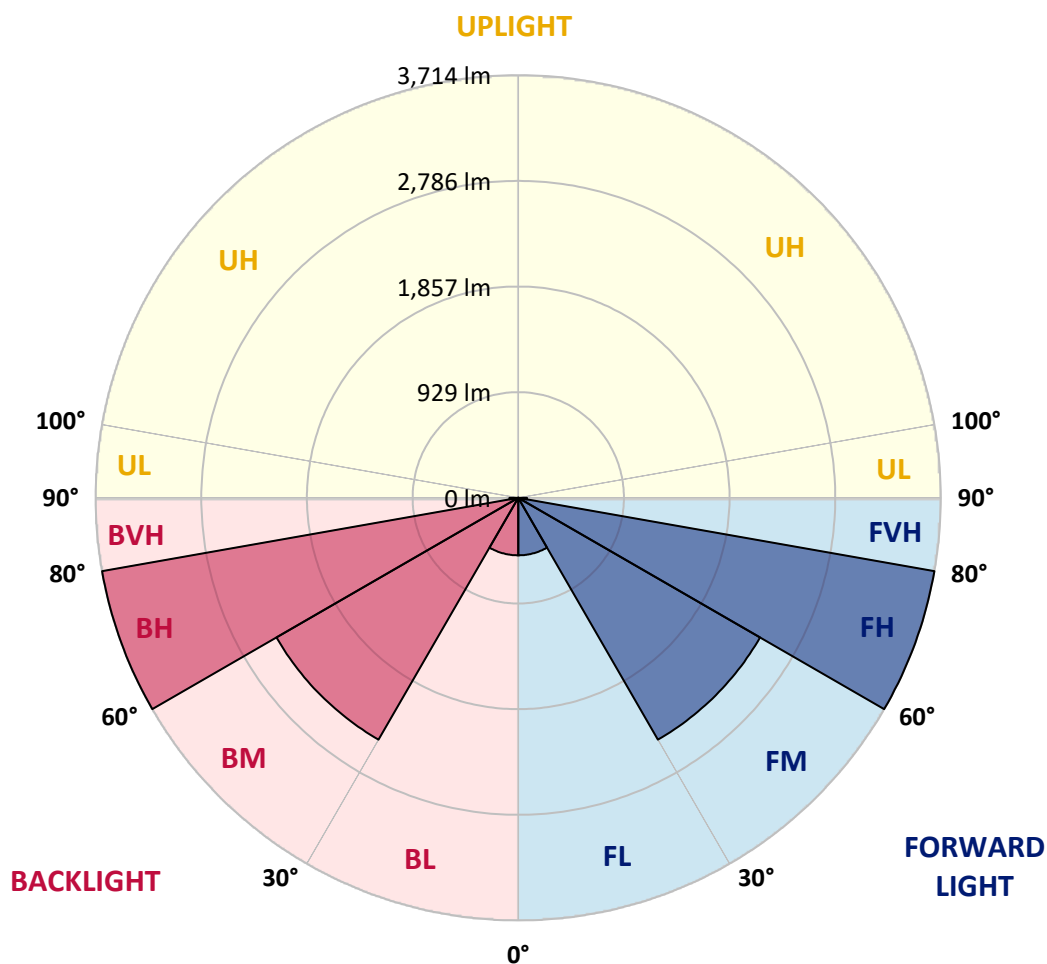
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.4	3.7			
FM	(30°-60°)	2454.3	18.2			
FH	(60°-80°)	3714.3	27.5			G2/5000
FVH	(80°-90°)	77.2	0.6			G1/100
BL	(0°-30°)	505.4	3.7	B2/1000		
BM	(30°-60°)	2454.3	18.2	B2/2500		
BH	(60°-80°)	3714.3	27.5	B4/5000		G2/5000
BVH	(80°-90°)	77.2	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°	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6
2.5°	1224.0	1227.4	1226.1	1223.2	1223.2	1221.2	1223.2	1224.7	1226.7	1228.2	1227.4
5°	1207.9	1210.6	1209.9	1207.9	1208.5	1206.4	1207.9	1209.9	1211.3	1212.1	1212.1
7.5°	1193.8	1196.6	1195.1	1191.7	1191.7	1189.6	1190.2	1192.4	1194.5	1195.1	1195.1
10°	1190.2	1193.1	1188.9	1183.3	1181.1	1178.3	1179.1	1181.1	1185.4	1187.5	1187.5
12.5°	1191.7	1193.8	1189.6	1181.1	1179.1	1176.3	1176.3	1178.3	1184.0	1186.7	1187.5
15°	1195.9	1198.0	1191.7	1182.5	1180.5	1178.3	1177.6	1180.5	1186.7	1191.7	1192.4
17.5°	1203.7	1205.7	1195.9	1183.3	1180.5	1181.1	1180.5	1182.5	1192.4	1201.5	1201.5
20°	1210.6	1212.1	1198.7	1183.3	1180.5	1181.1	1180.5	1184.7	1197.3	1209.9	1210.6
22.5°	1212.8	1214.1	1201.5	1188.2	1186.0	1186.7	1186.0	1190.2	1202.2	1214.8	1214.8
25°	1213.4	1215.5	1205.7	1195.1	1198.7	1200.1	1198.7	1199.4	1208.5	1219.8	1219.0
27.5°	1224.0	1226.7	1217.6	1208.5	1210.6	1209.9	1212.1	1214.1	1221.2	1232.4	1229.6
30°	1245.7	1247.8	1240.1	1231.0	1229.6	1224.7	1231.0	1238.0	1245.7	1255.5	1253.5
32.5°	1281.6	1285.8	1275.9	1266.1	1259.7	1257.0	1261.9	1273.8	1284.3	1294.9	1290.7
35°	1341.2	1344.0	1334.9	1316.6	1305.3	1305.3	1309.5	1325.0	1341.8	1355.2	1350.3
37.5°	1425.4	1428.8	1412.8	1391.0	1374.1	1374.1	1379.8	1395.9	1421.2	1440.1	1433.2
40°	1527.9	1532.8	1512.4	1489.9	1473.8	1471.0	1478.0	1496.3	1520.2	1544.0	1536.3
42.5°	1651.4	1657.0	1630.4	1610.7	1598.1	1598.1	1601.6	1618.4	1640.1	1669.6	1667.5
45°	1809.2	1819.1	1782.6	1763.0	1751.0	1753.9	1755.9	1770.7	1790.4	1824.0	1822.7
47.5°	1997.3	2007.2	1968.6	1948.2	1946.2	1959.5	1951.1	1961.5	1972.1	2010.7	1999.5
50°	2210.7	2227.5	2200.9	2199.4	2203.6	2228.2	2208.6	2214.2	2202.3	2226.8	2212.2
52.5°	2471.8	2496.4	2491.5	2499.9	2546.9	2597.5	2552.5	2532.9	2488.0	2495.7	2469.6
55°	2788.3	2825.5	2832.5	2883.0	2989.7	3092.9	2997.4	2918.2	2822.7	2805.1	2777.7
57.5°	3148.3	3177.8	3211.5	3314.6	3514.0	3697.2	3514.0	3338.5	3188.4	3152.6	3127.3
60°	3535.7	3572.2	3604.5	3756.8	4053.0	4310.5	4047.3	3768.7	3570.2	3521.7	3479.6
62.5°	3951.9	3998.9	4021.4	4190.5	4535.8	4843.2	4540.8	4203.1	3982.8	3930.9	3888.7
65°	4351.2	4389.9	4415.1	4595.5	4925.3	5233.4	4947.8	4615.2	4388.4	4320.4	4286.7
67.5°	4537.3	4558.3	4620.1	4824.3	5172.4	5523.9	5231.3	4846.0	4592.7	4473.4	4474.7
70°	4264.9	4222.1	4370.9	4698.0	5201.9	5702.3	5269.2	4688.1	4377.9	4184.3	4230.6
72.5°	3295.7	3222.0	3480.3	4039.6	4865.0	5588.5	4898.7	4071.2	3641.0	3248.0	3345.5
75°	1793.1	1709.6	2066.1	2773.5	3879.6	4843.9	3968.8	2852.9	2300.5	1779.8	1895.6
77.5°	506.0	474.5	762.2	1341.8	2333.5	3401.0	2423.4	1371.3	903.9	536.2	595.8
80°	155.1	150.2	203.6	404.3	991.0	1628.9	952.3	409.2	259.0	163.5	172.6
82.5°	91.9	84.3	101.1	147.4	252.7	511.6	245.6	153.6	123.5	82.8	89.8
85°	52.7	49.1	59.7	71.5	84.9	108.8	70.9	73.0	66.0	44.2	46.3
87.5°	21.7	19.7	23.2	22.4	19.7	25.2	19.0	22.4	26.6	17.5	16.1
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)