

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: P881935

Luminaire Tested: **NAV-SB1C-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6025 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

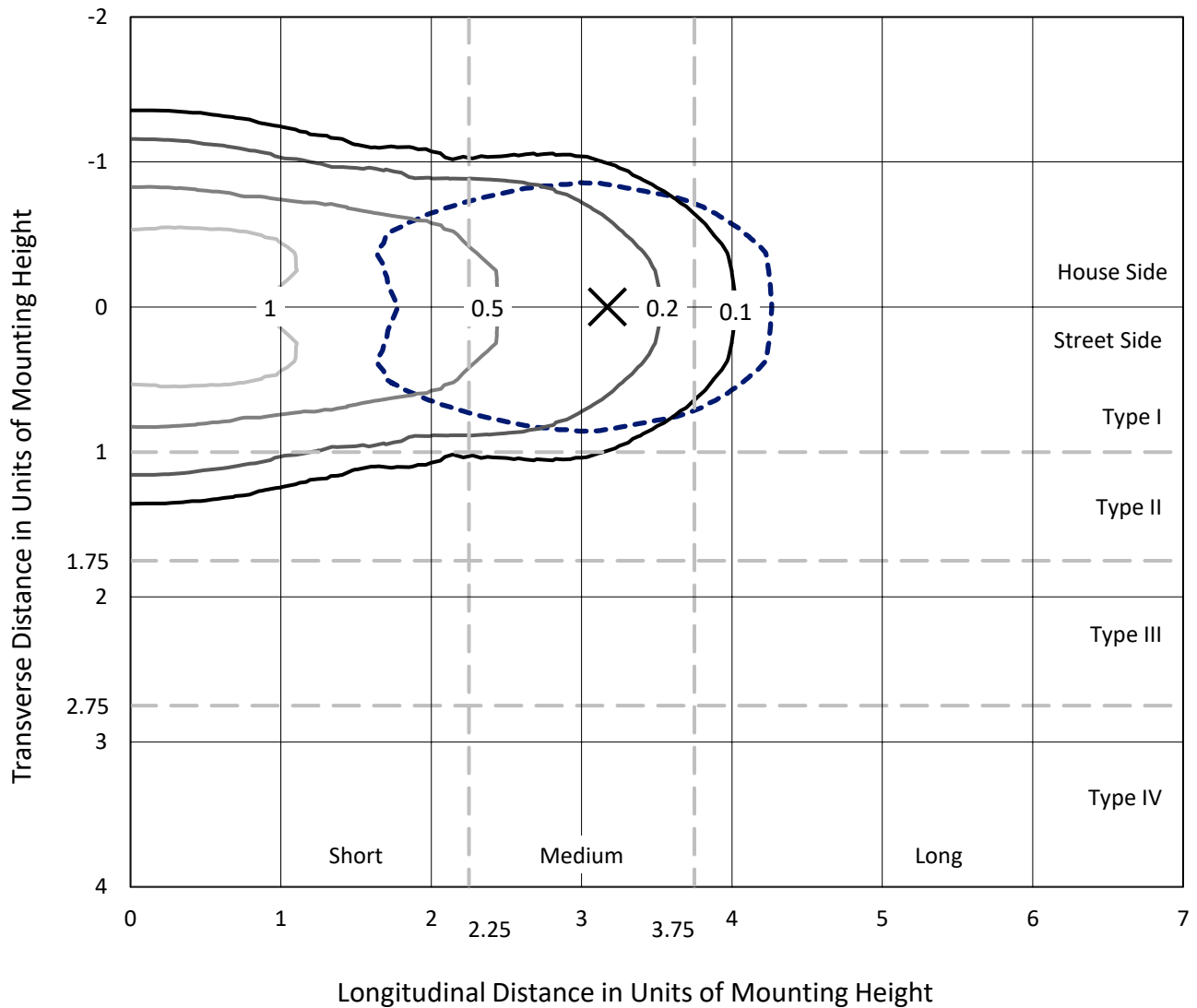
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

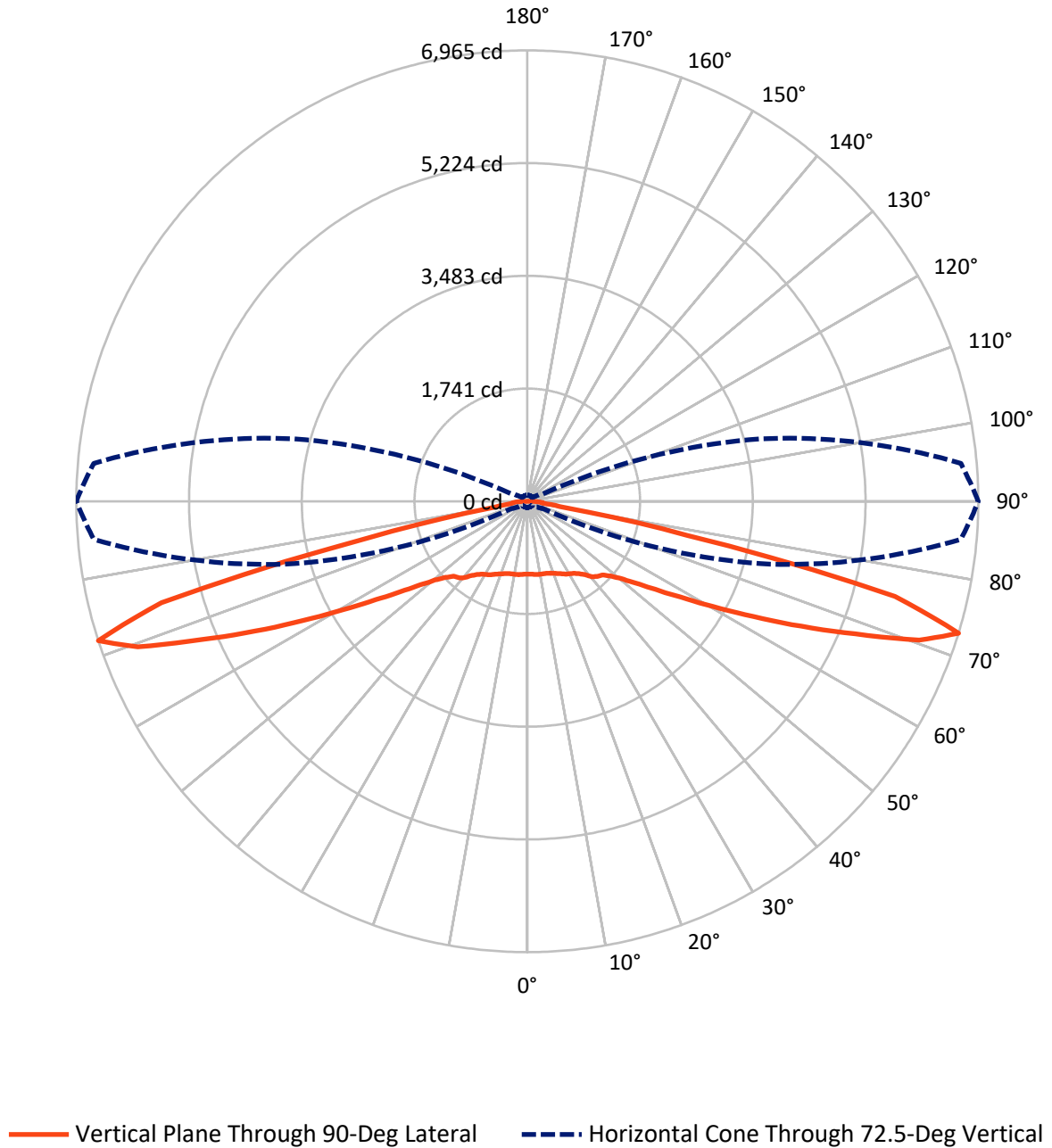
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3012.5	0.0	3012.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3012.5	0.0	3012.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6025.0	0.0	6025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.8
10°-20°	333.8	5.5
20°-30°	556.5	9.2
30°-40°	765.4	12.7
40°-50°	934.8	15.5
50°-60°	1081.2	17.9
60°-70°	1289.1	21.4
70°-80°	899.7	14.9
80°-90°	55.3	0.9
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°	6025.0	100.0
0°-180°	6025.0	100.0

Coefficient of Utilization



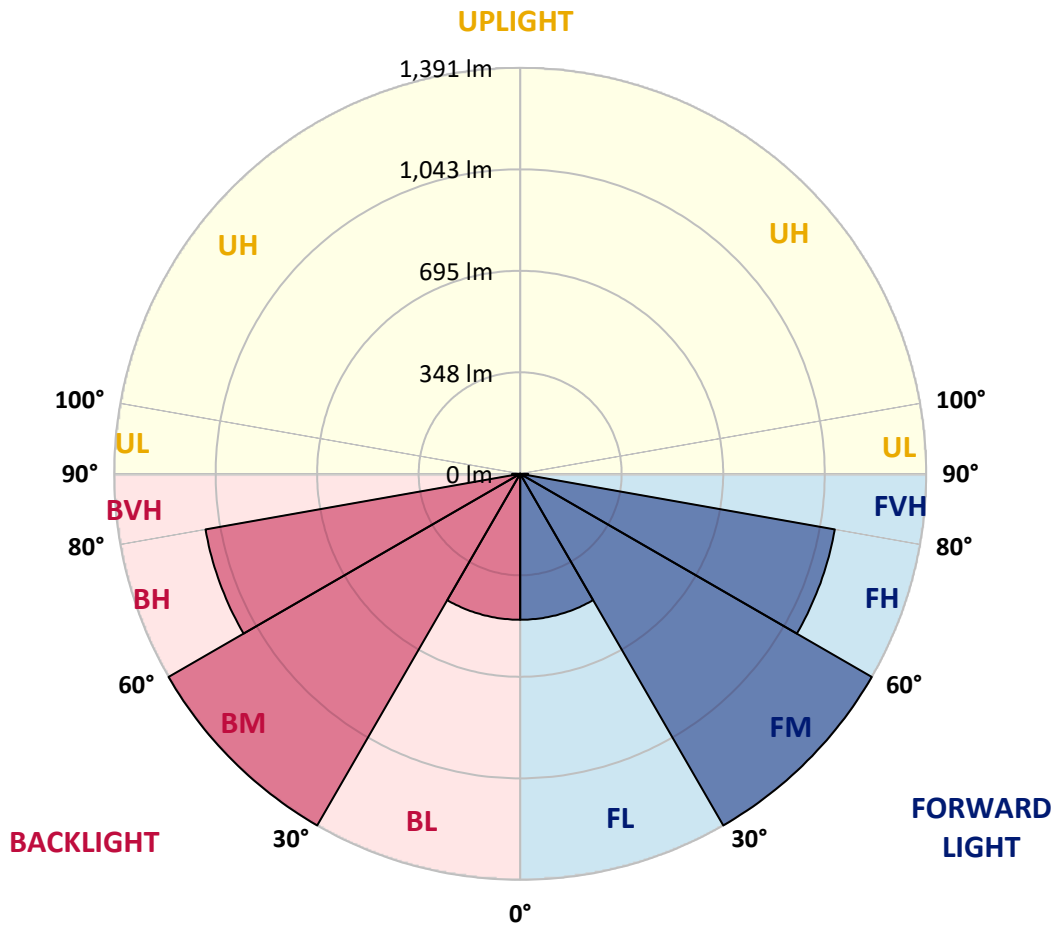
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.7	8.3			
FM (30°-60°)	1390.7	23.1			
FH (60°-80°)	1094.4	18.2			G1/1800
FVH (80°-90°)	27.6	0.5			G1/100
BL (0°-30°)	499.7	8.3	B1/500		
BM (30°-60°)	1390.7	23.1	B2/2500		
BH (60°-80°)	1094.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	27.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8
2.5°	1126.8	1128.1	1128.1	1127.1	1129.4	1127.4	1127.4	1126.5	1127.4	1126.5	1126.5
5°	1132.6	1134.2	1134.8	1134.5	1137.4	1135.8	1135.8	1134.5	1134.8	1133.8	1133.8
7.5°	1143.4	1145.7	1147.0	1148.6	1152.7	1150.8	1149.5	1145.7	1144.1	1141.5	1141.5
10°	1147.0	1149.5	1153.7	1162.0	1171.6	1171.9	1168.1	1158.5	1151.1	1145.4	1144.4
12.5°	1136.1	1139.6	1148.2	1165.2	1186.7	1195.3	1189.2	1173.2	1158.8	1148.6	1147.0
15°	1122.3	1126.2	1139.3	1164.9	1196.6	1216.8	1216.1	1195.0	1171.9	1155.9	1153.4
17.5°	1100.9	1104.7	1123.6	1159.5	1204.3	1237.6	1246.6	1224.8	1192.4	1171.0	1167.5
20°	1062.1	1065.6	1091.9	1142.2	1206.8	1259.7	1283.1	1263.8	1223.5	1194.4	1188.9
22.5°	1011.8	1017.3	1048.0	1112.4	1200.8	1282.7	1324.7	1311.6	1259.7	1219.3	1212.0
25°	958.0	963.8	999.7	1075.9	1185.1	1299.4	1374.0	1365.7	1300.7	1250.4	1240.1
27.5°	911.6	917.7	956.8	1039.7	1160.7	1305.8	1422.7	1426.8	1350.3	1284.7	1273.8
30°	875.1	880.9	922.5	1010.6	1129.4	1299.4	1465.3	1494.1	1400.9	1314.4	1298.7
32.5°	835.1	842.5	886.3	975.0	1092.2	1284.0	1502.4	1566.8	1459.5	1346.5	1326.6
35°	784.5	791.2	837.3	926.3	1043.5	1259.4	1533.5	1647.4	1543.4	1395.1	1373.0
37.5°	723.0	729.4	775.2	865.5	995.2	1224.8	1557.1	1738.4	1643.3	1465.3	1435.8
40°	661.2	667.3	710.2	797.6	937.2	1180.6	1565.5	1827.4	1757.9	1561.6	1530.3
42.5°	604.5	610.0	649.4	730.7	872.2	1124.2	1554.6	1904.9	1860.7	1628.9	1588.5
45°	552.4	557.2	592.1	667.9	804.7	1055.7	1521.9	1988.1	1983.0	1676.9	1622.5
47.5°	492.8	497.6	533.8	607.1	737.1	975.3	1466.5	2070.1	2153.0	1785.8	1723.0
50°	420.1	424.3	461.4	537.0	667.0	889.8	1389.7	2134.5	2367.6	1950.7	1871.9
52.5°	334.0	338.5	374.6	450.2	583.7	797.9	1288.5	2176.4	2615.4	2191.5	2094.4
55°	248.5	251.7	283.1	350.9	480.6	693.2	1161.7	2188.3	2896.6	2520.6	2399.3
57.5°	180.3	182.2	202.4	253.0	364.4	562.3	1007.7	2157.5	3231.2	2942.7	2789.9
60°	146.0	146.7	152.7	175.2	253.3	414.3	821.6	2051.9	3594.3	3486.7	3294.3
62.5°	132.6	132.6	134.2	140.2	171.3	273.5	596.5	1832.8	3983.6	4174.2	3916.4
65°	123.3	123.3	123.9	126.8	135.1	174.2	376.6	1476.1	4311.9	4979.5	4653.5
67.5°	115.0	115.3	115.0	115.9	120.7	128.7	218.4	1019.5	4488.6	5813.9	5462.0
70°	106.3	106.9	105.3	105.3	109.2	109.5	136.7	559.1	4342.0	6513.3	6420.7
72.5°	96.1	97.0	94.5	93.8	96.7	95.4	102.8	268.3	3727.8	6722.0	6965.4
75°	87.1	88.4	82.6	81.0	81.0	80.1	83.6	137.7	2419.5	5483.5	5865.2
77.5°	79.1	81.7	72.4	67.2	66.0	63.1	68.2	84.2	1058.3	2574.4	2521.0
80°	65.3	68.8	59.6	53.5	51.2	48.0	53.8	58.9	314.8	597.8	572.5
82.5°	48.7	50.3	42.3	38.1	36.2	33.9	40.3	41.0	102.5	211.7	239.2
85°	31.1	31.7	25.9	22.4	21.5	20.5	25.6	22.4	39.1	155.6	226.1
87.5°	10.9	12.5	9.9	9.0	9.6	8.0	11.8	6.7	10.9	109.8	136.1
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)