

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: P882612

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12544 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

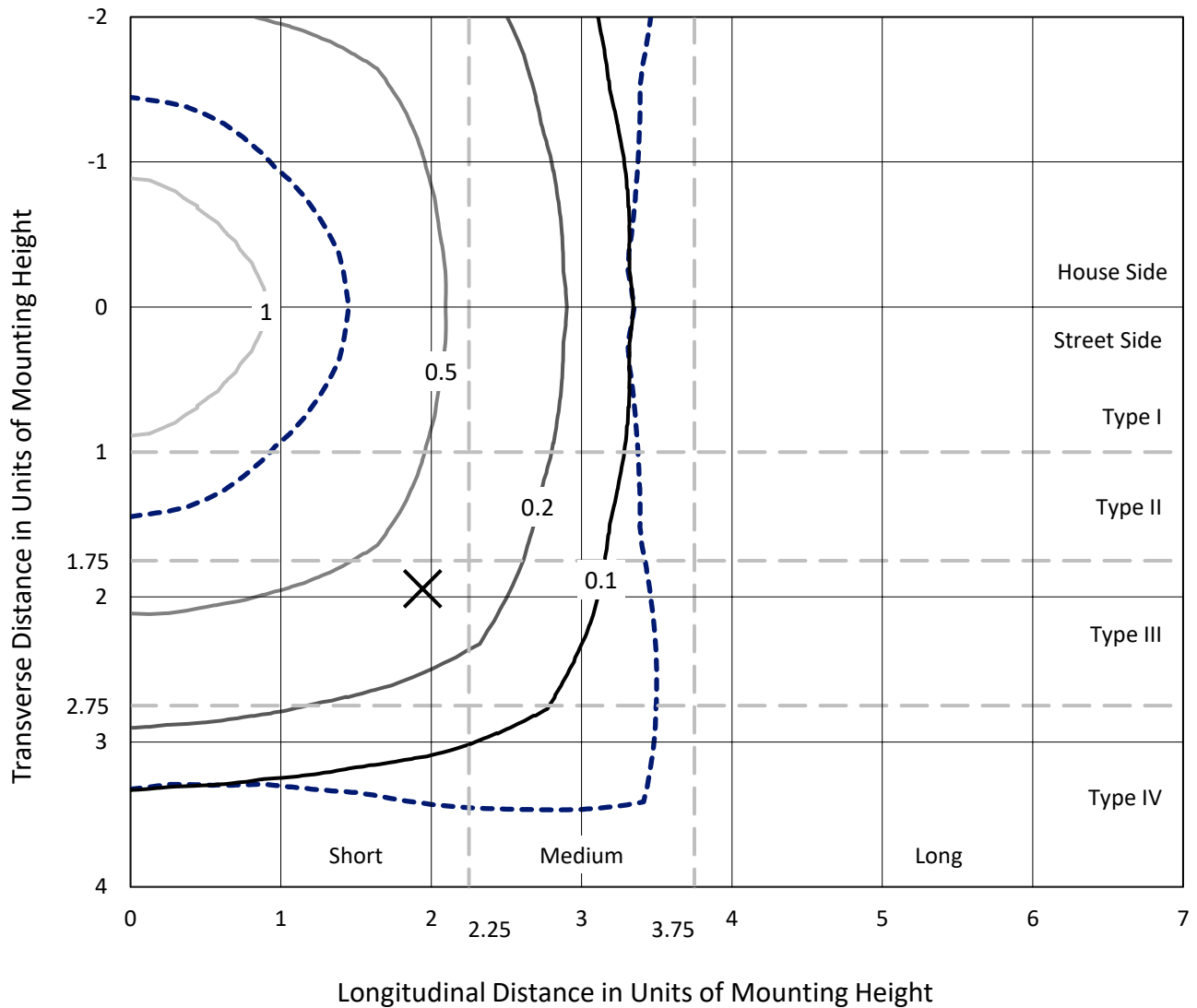
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882612
 CATALOG NUMBER: NAV-SB2C-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

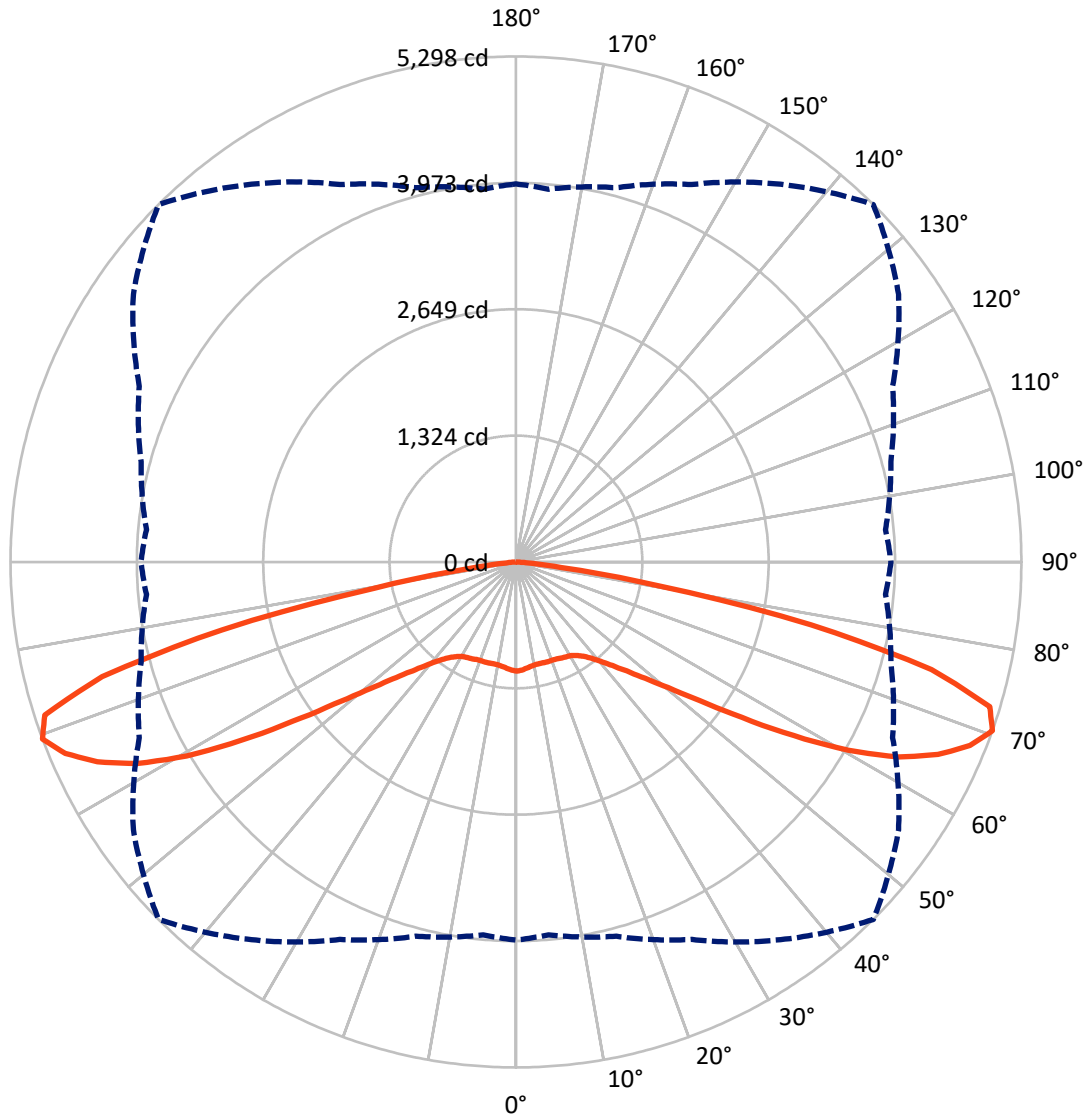
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P882612
CATALOG NUMBER: NAV-SB2C-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P882612
 CATALOG NUMBER: NAV-SB2C-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6272.0	0.0	6272.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6272.0	0.0	6272.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12544.0	0.0	12544.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	0.8
10°-20°	312.5	2.5
20°-30°	520.1	4.1
30°-40°	786.6	6.3
40°-50°	1307.1	10.4
50°-60°	2466.5	19.7
60°-70°	4164.7	33.2
70°-80°	2736.7	21.8
80°-90°	143.4	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°	12544.0	100.0
0°-180°	12544.0	100.0



REPORT NUMBER: P882612

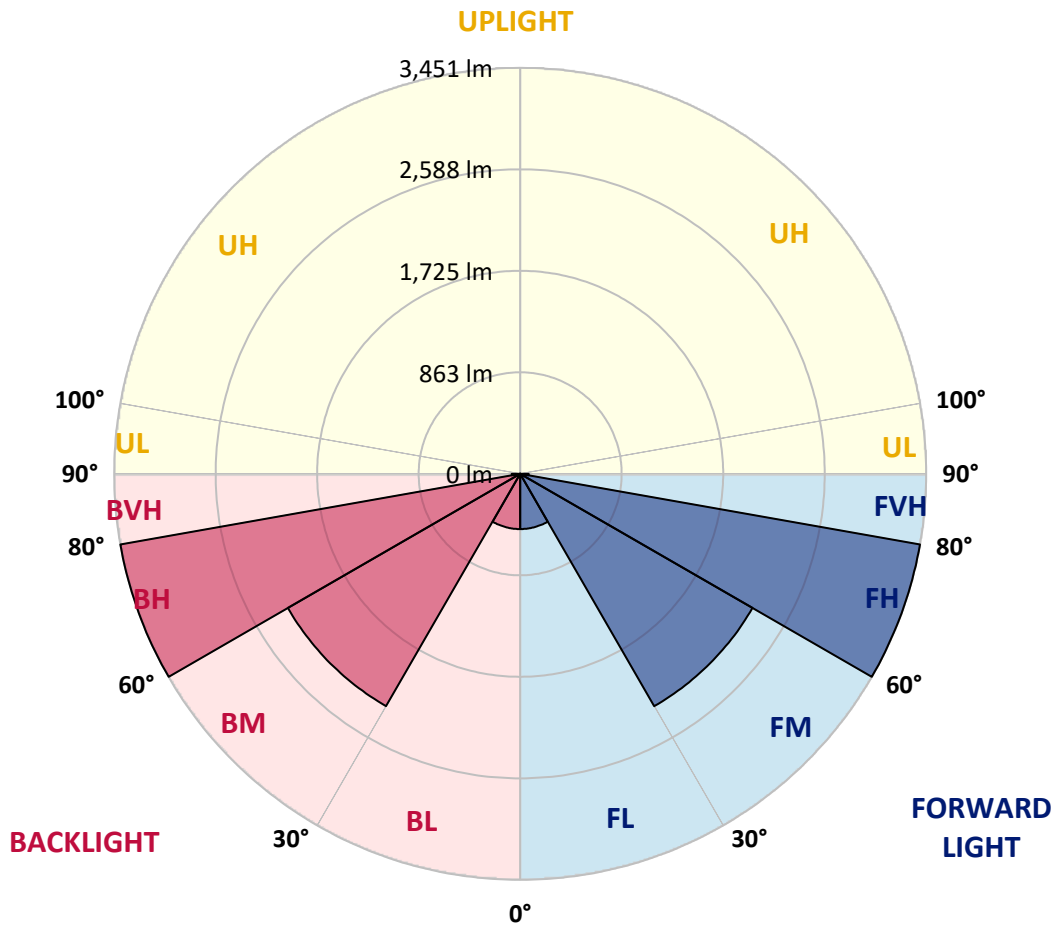
CATALOG NUMBER: NAV-SB2C-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.6	3.7			
FM (30°-60°)	2280.1	18.2			
FH (60°-80°)	3450.7	27.5			G2/5000
FVH (80°-90°)	71.7	0.6			G1/100
BL (0°-30°)	469.6	3.7	B1/500		
BM (30°-60°)	2280.1	18.2	B2/2500		
BH (60°-80°)	3450.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	71.7	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



REPORT NUMBER: P882612

CATALOG NUMBER: NAV-SB2C-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1144.3	1144.3	1144.3	1144.3	1144.3	1144.3	1144.3	1144.3	1144.3	1144.3	1144.3
2.5°	1137.1	1140.4	1139.0	1136.4	1136.4	1134.5	1136.4	1137.7	1139.7	1141.0	1140.4
5°	1122.1	1124.7	1124.1	1122.1	1122.7	1120.8	1122.1	1124.1	1125.4	1126.0	1126.0
7.5°	1109.1	1111.7	1110.4	1107.1	1107.1	1105.1	1105.8	1107.8	1109.7	1110.4	1110.4
10°	1105.8	1108.4	1104.5	1099.3	1097.3	1094.7	1095.4	1097.3	1101.2	1103.2	1103.2
12.5°	1107.1	1109.1	1105.1	1097.3	1095.4	1092.8	1092.8	1094.7	1099.9	1102.5	1103.2
15°	1111.0	1113.0	1107.1	1098.6	1096.7	1094.7	1094.1	1096.7	1102.5	1107.1	1107.8
17.5°	1118.2	1120.1	1111.0	1099.3	1096.7	1097.3	1096.7	1098.6	1107.8	1116.2	1116.2
20°	1124.7	1126.0	1113.6	1099.3	1096.7	1097.3	1096.7	1100.6	1112.3	1124.1	1124.7
22.5°	1126.7	1128.0	1116.2	1103.8	1101.9	1102.5	1101.9	1105.8	1116.9	1128.6	1128.6
25°	1127.3	1129.3	1120.1	1110.4	1113.6	1114.9	1113.6	1114.3	1122.7	1133.2	1132.5
27.5°	1137.1	1139.7	1131.2	1122.7	1124.7	1124.1	1126.0	1128.0	1134.5	1144.9	1142.3
30°	1157.3	1159.3	1152.1	1143.6	1142.3	1137.7	1143.6	1150.1	1157.3	1166.4	1164.5
32.5°	1190.6	1194.5	1185.3	1176.2	1170.3	1167.7	1172.3	1183.4	1193.2	1202.9	1199.0
35°	1246.0	1248.6	1240.1	1223.2	1212.7	1212.7	1216.6	1231.0	1246.6	1259.0	1254.5
37.5°	1324.2	1327.5	1312.5	1292.3	1276.6	1276.6	1281.8	1296.8	1320.3	1337.9	1331.4
40°	1419.4	1424.0	1405.1	1384.2	1369.2	1366.6	1373.1	1390.1	1412.2	1434.4	1427.2
42.5°	1534.2	1539.4	1514.6	1496.3	1484.6	1484.6	1487.9	1503.5	1523.7	1551.1	1549.2
45°	1680.9	1690.0	1656.1	1637.8	1626.7	1629.4	1631.3	1645.0	1663.3	1694.6	1693.3
47.5°	1855.6	1864.7	1828.9	1810.0	1808.0	1820.4	1812.6	1822.3	1832.1	1868.0	1857.6
50°	2053.8	2069.5	2044.7	2043.4	2047.3	2070.1	2051.9	2057.1	2046.0	2068.8	2055.1
52.5°	2296.4	2319.2	2314.6	2322.4	2366.1	2413.1	2371.3	2353.1	2311.4	2318.5	2294.4
55°	2590.4	2625.0	2631.5	2678.4	2777.5	2873.4	2784.7	2711.0	2622.4	2606.1	2580.6
57.5°	2924.9	2952.3	2983.6	3079.4	3264.6	3434.8	3264.6	3101.6	2962.0	2928.8	2905.3
60°	3284.8	3318.7	3348.7	3490.2	3765.3	4004.6	3760.1	3501.3	3316.7	3271.8	3232.6
62.5°	3671.4	3715.1	3736.0	3893.1	4213.9	4499.5	4218.5	3904.8	3700.1	3651.9	3612.7
65°	4042.4	4078.3	4101.8	4269.3	4575.8	4862.0	4596.6	4287.6	4077.0	4013.7	3982.4
67.5°	4215.2	4234.8	4292.1	4481.9	4805.3	5131.9	4860.0	4502.1	4266.7	4155.9	4157.2
70°	3962.2	3922.5	4060.7	4364.5	4832.6	5297.5	4895.2	4355.4	4067.2	3887.2	3930.3
72.5°	3061.8	2993.3	3233.3	3752.9	4519.7	5191.9	4551.0	3782.3	3382.6	3017.5	3108.1
75°	1665.9	1588.3	1919.5	2576.7	3604.3	4500.1	3687.1	2650.4	2137.3	1653.5	1761.1
77.5°	470.1	440.8	708.1	1246.6	2167.9	3159.6	2251.4	1274.0	839.8	498.1	553.6
80°	144.1	139.5	189.1	375.6	920.6	1513.3	884.8	380.1	240.6	151.9	160.4
82.5°	85.4	78.2	93.9	136.9	234.7	475.3	228.2	142.8	114.8	76.9	83.5
85°	48.9	45.6	55.4	66.5	78.9	101.1	65.9	67.8	61.3	41.1	43.0
87.5°	20.2	18.3	21.5	20.9	18.3	23.5	17.6	20.9	24.8	16.3	15.0
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)