

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: P881762

Luminaire Tested: **NAV-SB1B-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881762
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-SB1B-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4632 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

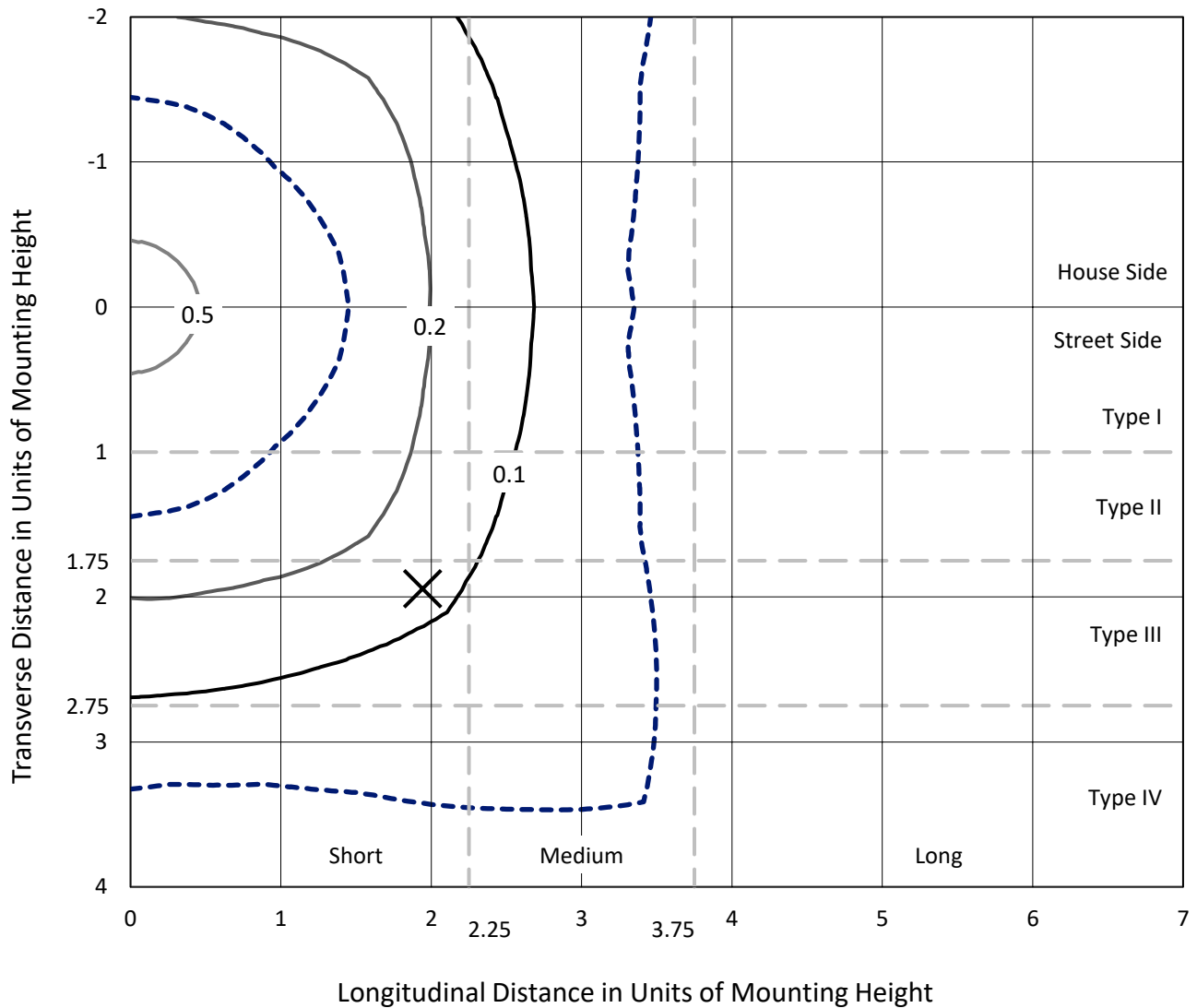
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881762
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Iso-Footcandle Lines of Horizontal Illumination

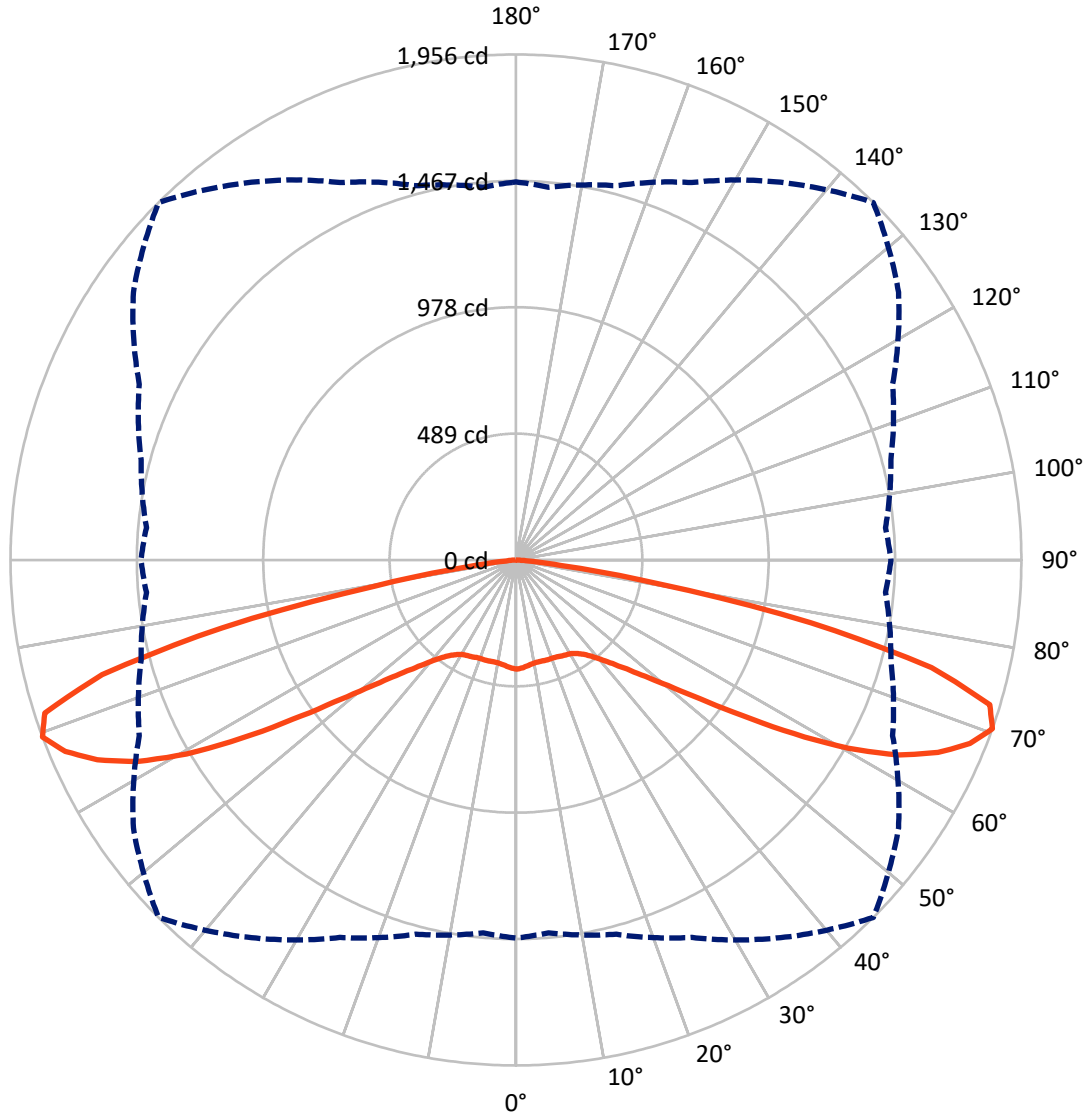
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

REPORT NUMBER: P881762
CATALOG NUMBER: NAV-SB1B-827-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P881762

CATALOG NUMBER: NAV-SB1B-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2316.0	0.0	2316.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2316.0	0.0	2316.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4632.0	0.0	4632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	0.8
10°-20°	115.4	2.5
20°-30°	192.1	4.1
30°-40°	290.5	6.3
40°-50°	482.7	10.4
50°-60°	910.8	19.7
60°-70°	1537.9	33.2
70°-80°	1010.5	21.8
80°-90°	52.9	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°	4632.0	100.0
0°-180°	4632.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881762

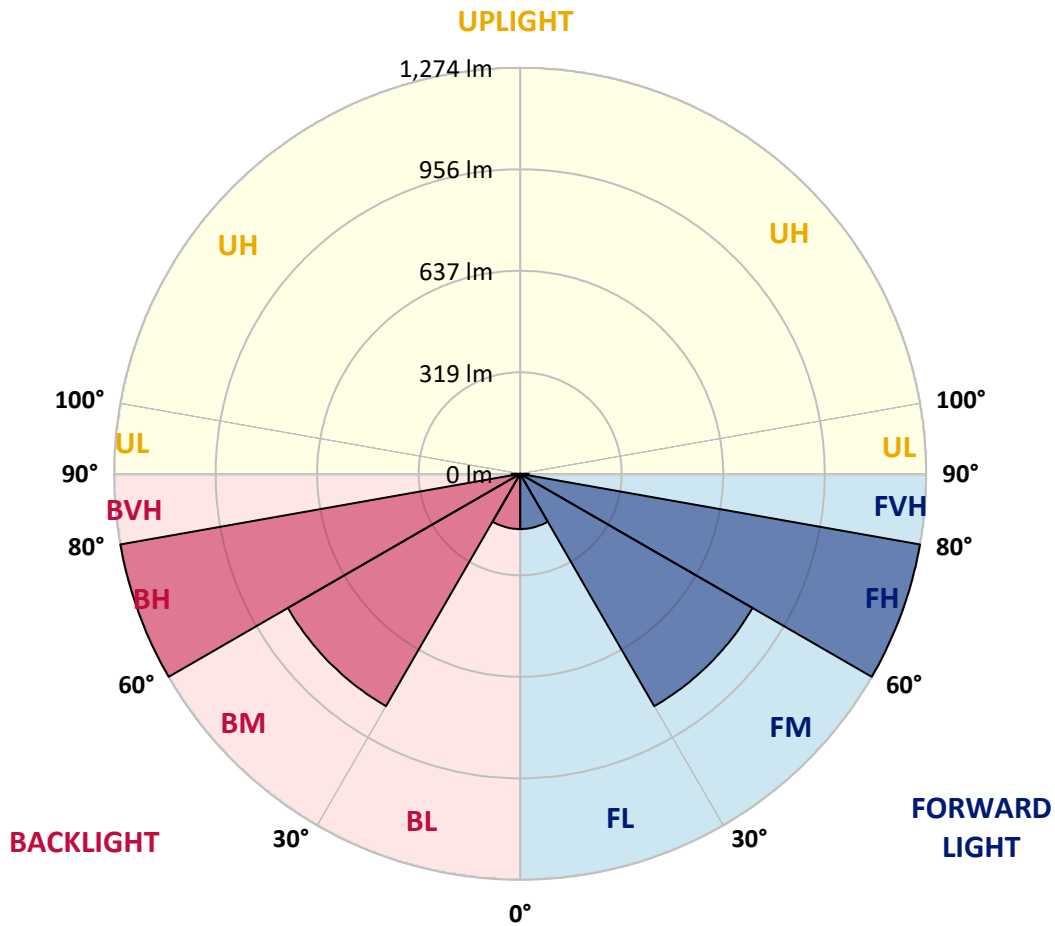
CATALOG NUMBER: NAV-SB1B-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.4	3.7			
FM (30°-60°)	841.9	18.2			
FH (60°-80°)	1274.2	27.5			G1/1800
FVH (80°-90°)	26.5	0.6			G1/100
BL (0°-30°)	173.4	3.7	B1/500		
BM (30°-60°)	841.9	18.2	B1/1000		
BH (60°-80°)	1274.2	27.5	B3/2500		G1/1800
BVH (80°-90°)	26.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5
2.5°	419.9	421.1	420.6	419.6	419.6	418.9	419.6	420.1	420.8	421.3	421.1
5°	414.3	415.3	415.1	414.3	414.6	413.9	414.3	415.1	415.5	415.8	415.8
7.5°	409.5	410.5	410.0	408.8	408.8	408.1	408.3	409.0	409.8	410.0	410.0
10°	408.3	409.3	407.8	405.9	405.2	404.2	404.5	405.2	406.6	407.4	407.4
12.5°	408.8	409.5	408.1	405.2	404.5	403.5	403.5	404.2	406.2	407.1	407.4
15°	410.3	411.0	408.8	405.7	405.0	404.2	404.0	405.0	407.1	408.8	409.0
17.5°	412.9	413.6	410.3	405.9	405.0	405.2	405.0	405.7	409.0	412.2	412.2
20°	415.3	415.8	411.2	405.9	405.0	405.2	405.0	406.4	410.7	415.1	415.3
22.5°	416.0	416.5	412.2	407.6	406.9	407.1	406.9	408.3	412.4	416.8	416.8
25°	416.3	417.0	413.6	410.0	411.2	411.7	411.2	411.5	414.6	418.4	418.2
27.5°	419.9	420.8	417.7	414.6	415.3	415.1	415.8	416.5	418.9	422.8	421.8
30°	427.3	428.1	425.4	422.3	421.8	420.1	422.3	424.7	427.3	430.7	430.0
32.5°	439.6	441.1	437.7	434.3	432.2	431.2	432.9	437.0	440.6	444.2	442.8
35°	460.1	461.1	457.9	451.7	447.8	447.8	449.3	454.6	460.3	464.9	463.2
37.5°	489.0	490.2	484.6	477.2	471.4	471.4	473.3	478.9	487.5	494.0	491.6
40°	524.1	525.8	518.8	511.1	505.6	504.6	507.0	513.3	521.5	529.7	527.0
42.5°	566.5	568.4	559.3	552.5	548.2	548.2	549.4	555.2	562.7	572.8	572.0
45°	620.7	624.0	611.5	604.8	600.7	601.7	602.4	607.4	614.2	625.7	625.3
47.5°	685.2	688.6	675.3	668.3	667.6	672.2	669.3	672.9	676.5	689.8	685.9
50°	758.4	764.2	755.0	754.5	756.0	764.4	757.7	759.6	755.5	763.9	758.9
52.5°	848.0	856.4	854.7	857.6	873.7	891.0	875.6	868.9	853.5	856.1	847.2
55°	956.5	969.3	971.7	989.0	1025.6	1061.0	1028.3	1001.1	968.3	962.3	952.9
57.5°	1080.0	1090.2	1101.7	1137.1	1205.5	1268.3	1205.5	1145.3	1093.8	1081.5	1072.8
60°	1212.9	1225.5	1236.5	1288.8	1390.4	1478.7	1388.5	1292.9	1224.7	1208.1	1193.7
62.5°	1355.7	1371.8	1379.5	1437.6	1556.0	1661.5	1557.7	1441.9	1366.3	1348.5	1334.0
65°	1492.7	1505.9	1514.6	1576.5	1689.6	1795.3	1697.3	1583.2	1505.5	1482.1	1470.6
67.5°	1556.5	1563.7	1584.9	1655.0	1774.4	1895.0	1794.6	1662.4	1575.5	1534.6	1535.1
70°	1463.1	1448.4	1499.4	1611.6	1784.5	1956.2	1807.6	1608.3	1501.9	1435.4	1451.3
72.5°	1130.6	1105.3	1193.9	1385.8	1668.9	1917.2	1680.5	1396.6	1249.1	1114.2	1147.7
75°	615.1	586.5	708.8	951.5	1330.9	1661.7	1361.5	978.7	789.2	610.6	650.3
77.5°	173.6	162.8	261.5	460.3	800.5	1166.7	831.3	470.4	310.1	183.9	204.4
80°	53.2	51.5	69.8	138.7	340.0	558.8	326.7	140.4	88.8	56.1	59.2
82.5°	31.5	28.9	34.7	50.6	86.7	175.5	84.3	52.7	42.4	28.4	30.8
85°	18.1	16.9	20.5	24.6	29.1	37.3	24.3	25.0	22.6	15.2	15.9
87.5°	7.5	6.7	7.9	7.7	6.7	8.7	6.5	7.7	9.1	6.0	5.5
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)