

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: P881702

Luminaire Tested: **NAV-SB1B-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881702
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 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: 5166 lumens
Efficiency: N/A
Efficacy: 129.8 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

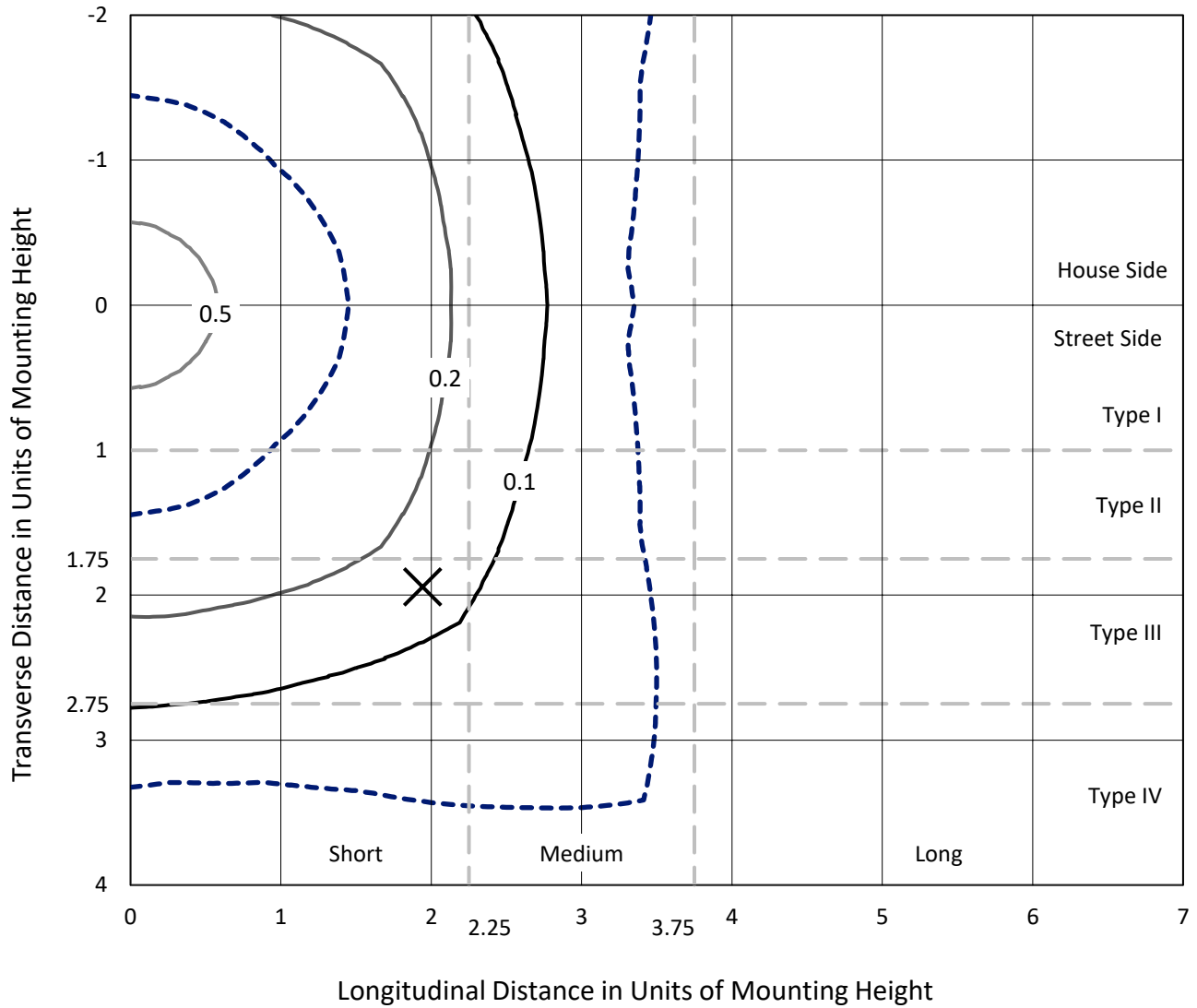
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881702
 CATALOG NUMBER: NAV-SB1B-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

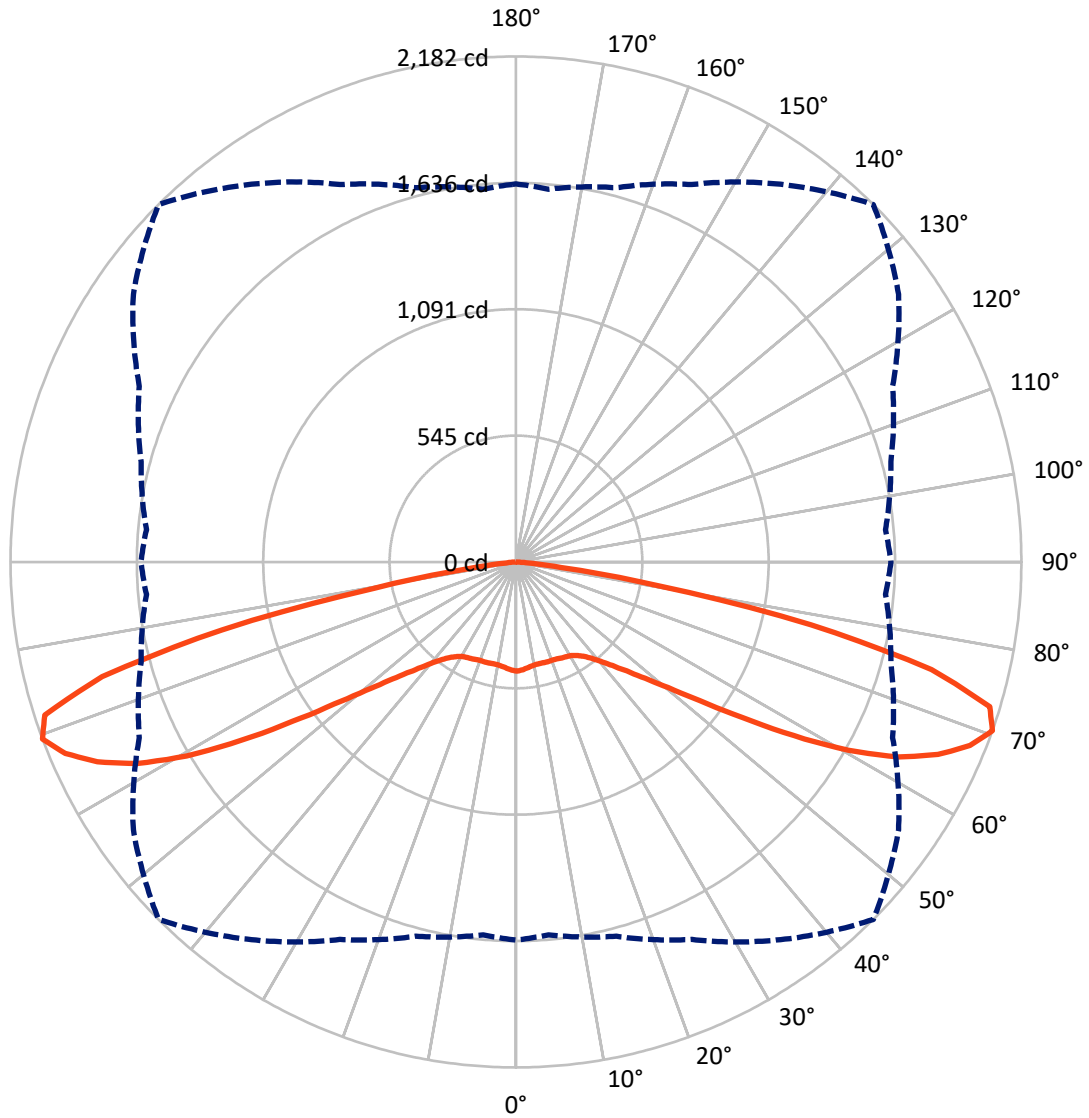
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

REPORT NUMBER: P881702
CATALOG NUMBER: NAV-SB1B-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P881702
 CATALOG NUMBER: NAV-SB1B-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2583.0	0.0	2583.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2583.0	0.0	2583.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5166.0	0.0	5166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	0.8
10°-20°	128.7	2.5
20°-30°	214.2	4.1
30°-40°	323.9	6.3
40°-50°	538.3	10.4
50°-60°	1015.8	19.7
60°-70°	1715.2	33.2
70°-80°	1127.0	21.8
80°-90°	59.0	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°	5166.0	100.0
0°-180°	5166.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881702

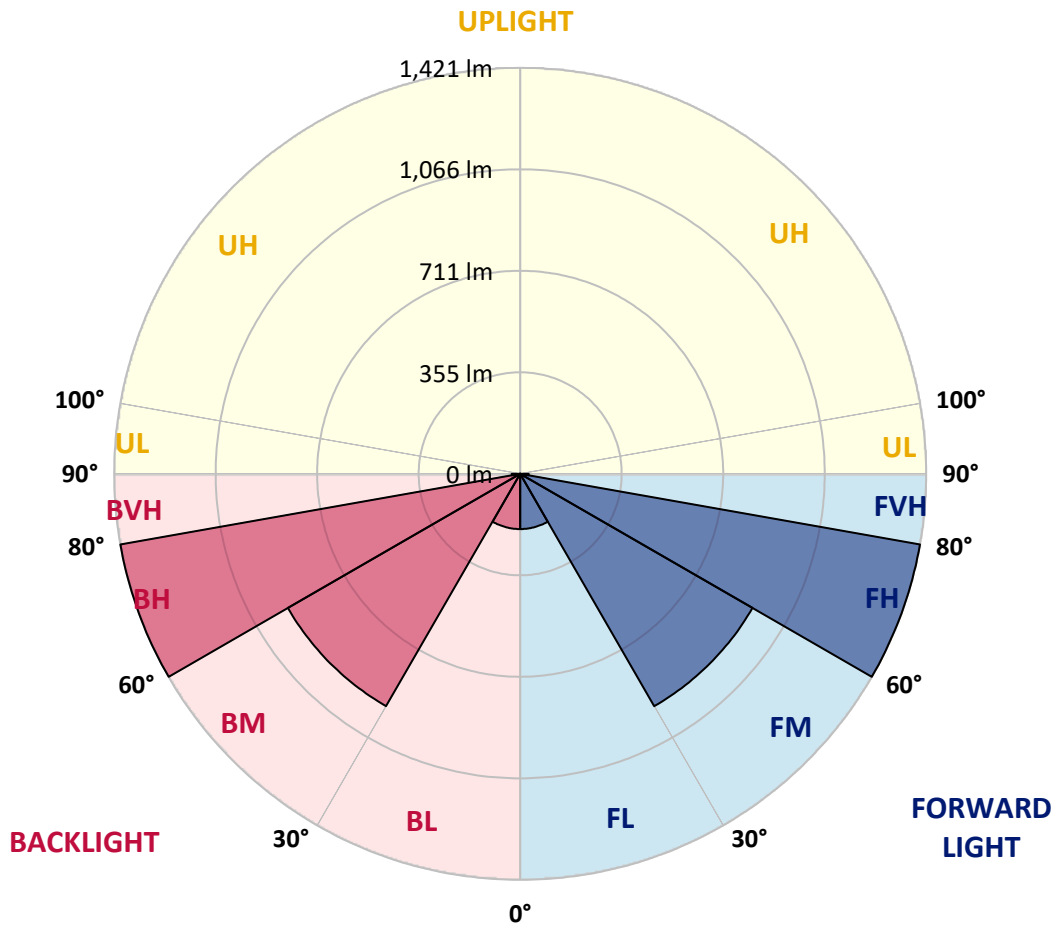
CATALOG NUMBER: NAV-SB1B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.4	3.7			
FM (30°-60°)	939.0	18.2			
FH (60°-80°)	1421.1	27.5			G1/1800
FVH (80°-90°)	29.5	0.6			G1/100
BL (0°-30°)	193.4	3.7	B1/500		
BM (30°-60°)	939.0	18.2	B1/1000		
BH (60°-80°)	1421.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	29.5	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



REPORT NUMBER: P881702

CATALOG NUMBER: NAV-SB1B-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2
2.5°	468.3	469.6	469.1	468.0	468.0	467.2	468.0	468.6	469.4	469.9	469.6
5°	462.1	463.2	462.9	462.1	462.4	461.6	462.1	462.9	463.5	463.7	463.7
7.5°	456.7	457.8	457.3	455.9	455.9	455.1	455.4	456.2	457.0	457.3	457.3
10°	455.4	456.5	454.9	452.7	451.9	450.8	451.1	451.9	453.5	454.3	454.3
12.5°	455.9	456.7	455.1	451.9	451.1	450.0	450.0	450.8	453.0	454.1	454.3
15°	457.5	458.4	455.9	452.4	451.6	450.8	450.6	451.6	454.1	455.9	456.2
17.5°	460.5	461.3	457.5	452.7	451.6	451.9	451.6	452.4	456.2	459.7	459.7
20°	463.2	463.7	458.6	452.7	451.6	451.9	451.6	453.3	458.1	462.9	463.2
22.5°	464.0	464.5	459.7	454.6	453.8	454.1	453.8	455.4	460.0	464.8	464.8
25°	464.3	465.1	461.3	457.3	458.6	459.2	458.6	458.9	462.4	466.7	466.4
27.5°	468.3	469.4	465.9	462.4	463.2	462.9	463.7	464.5	467.2	471.5	470.4
30°	476.6	477.4	474.5	471.0	470.4	468.6	471.0	473.7	476.6	480.4	479.6
32.5°	490.3	491.9	488.2	484.4	482.0	480.9	482.8	487.4	491.4	495.4	493.8
35°	513.1	514.2	510.7	503.7	499.4	499.4	501.0	507.0	513.4	518.5	516.6
37.5°	545.4	546.7	540.5	532.2	525.8	525.8	527.9	534.1	543.7	551.0	548.3
40°	584.6	586.4	578.6	570.1	563.9	562.8	565.5	572.5	581.6	590.7	587.8
42.5°	631.8	634.0	623.8	616.2	611.4	611.4	612.8	619.2	627.5	638.8	638.0
45°	692.2	696.0	682.0	674.5	669.9	671.0	671.8	677.5	685.0	697.9	697.3
47.5°	764.2	768.0	753.2	745.4	744.6	749.7	746.5	750.5	754.5	769.3	765.0
50°	845.8	852.3	842.1	841.5	843.1	852.5	845.0	847.2	842.6	852.0	846.4
52.5°	945.7	955.1	953.2	956.4	974.4	993.8	976.6	969.1	951.9	954.8	944.9
55°	1066.8	1081.0	1083.7	1103.1	1143.9	1183.3	1146.8	1116.5	1080.0	1073.3	1062.8
57.5°	1204.6	1215.8	1228.7	1268.2	1344.5	1414.5	1344.5	1277.3	1219.9	1206.2	1196.5
60°	1352.8	1366.7	1379.1	1437.4	1550.7	1649.2	1548.5	1441.9	1365.9	1347.4	1331.3
62.5°	1512.0	1530.0	1538.6	1603.3	1735.4	1853.0	1737.3	1608.1	1523.8	1504.0	1487.8
65°	1664.8	1679.6	1689.2	1758.2	1884.4	2002.3	1893.0	1765.8	1679.0	1653.0	1640.1
67.5°	1735.9	1744.0	1767.6	1845.8	1979.0	2113.5	2001.5	1854.1	1757.2	1711.5	1712.0
70°	1631.8	1615.4	1672.3	1797.4	1990.2	2181.7	2016.0	1793.7	1675.0	1600.9	1618.6
72.5°	1260.9	1232.8	1331.6	1545.6	1861.3	2138.2	1874.2	1557.7	1393.1	1242.7	1280.0
75°	686.1	654.1	790.5	1061.2	1484.3	1853.3	1518.5	1091.5	880.2	681.0	725.3
77.5°	193.6	181.5	291.6	513.4	892.8	1301.2	927.2	524.7	345.8	205.1	228.0
80°	59.3	57.5	77.9	154.7	379.1	623.2	364.4	156.5	99.1	62.6	66.1
82.5°	35.2	32.2	38.7	56.4	96.7	195.7	94.0	58.8	47.3	31.7	34.4
85°	20.1	18.8	22.8	27.4	32.5	41.6	27.1	27.9	25.2	16.9	17.7
87.5°	8.3	7.5	8.9	8.6	7.5	9.7	7.2	8.6	10.2	6.7	6.2
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)