

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: P959218

Luminaire Tested: **NAV-SB1A-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4467.9 lumens
Efficiency: N/A
Efficacy: 144.6 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

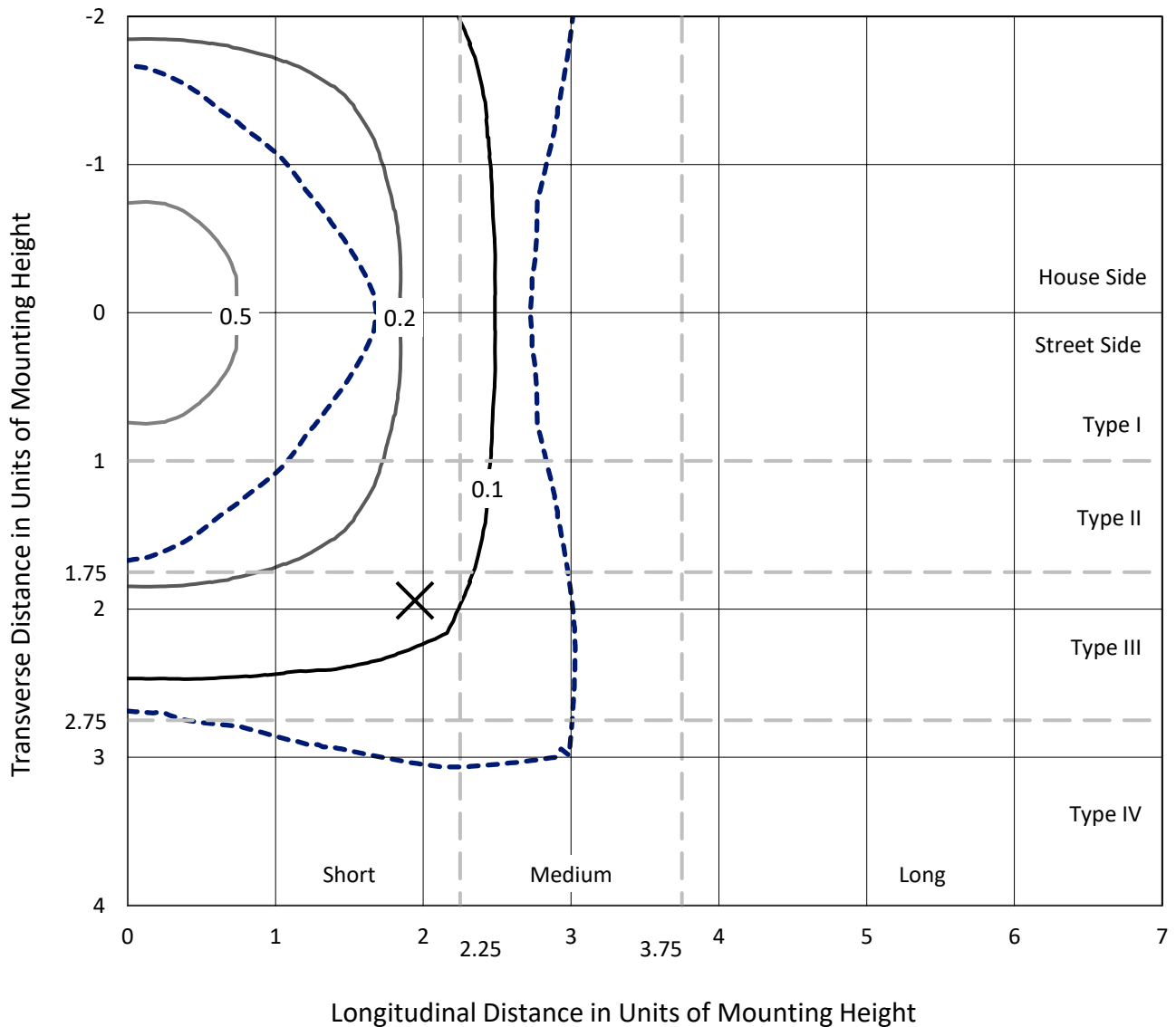
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

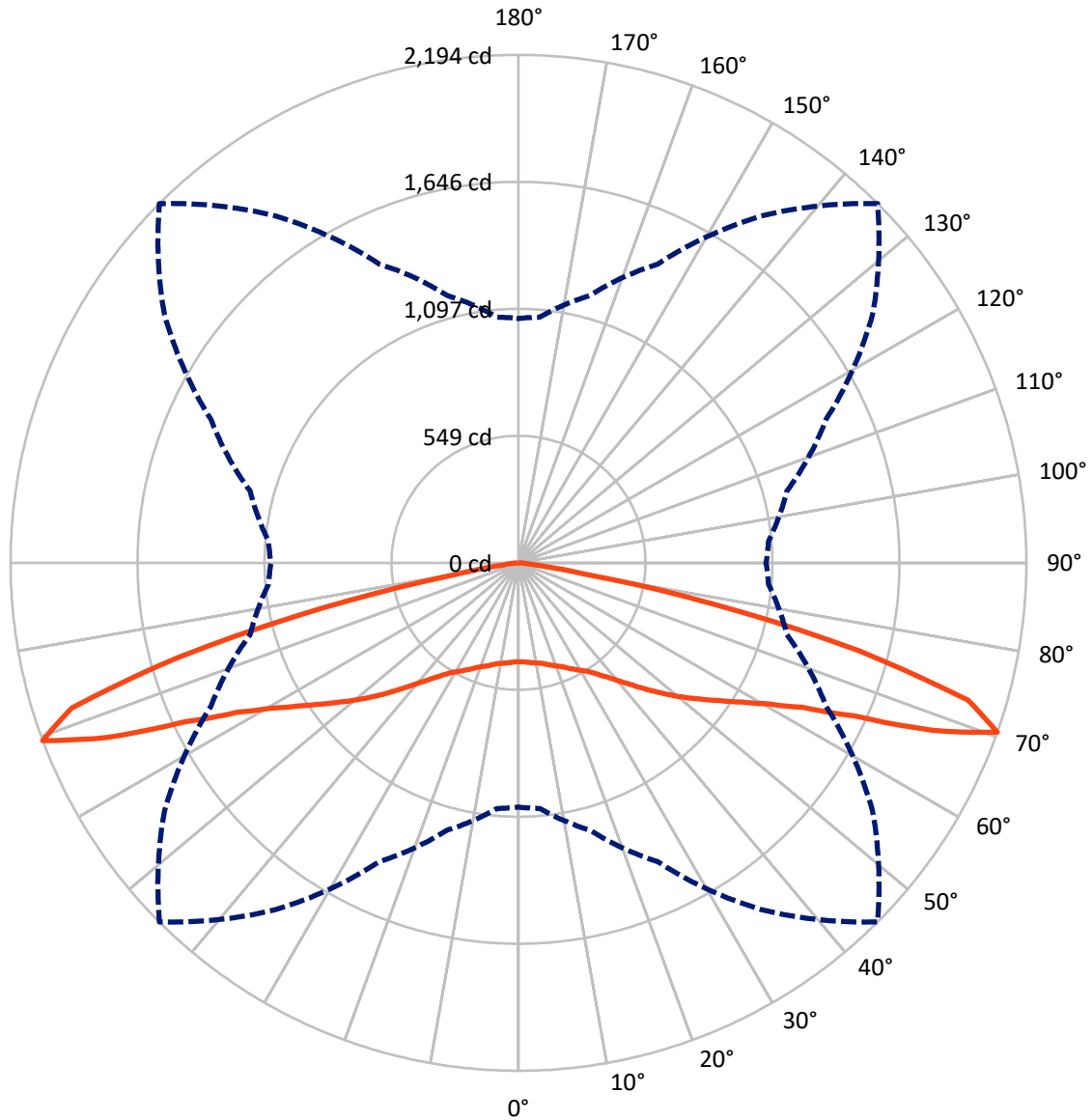
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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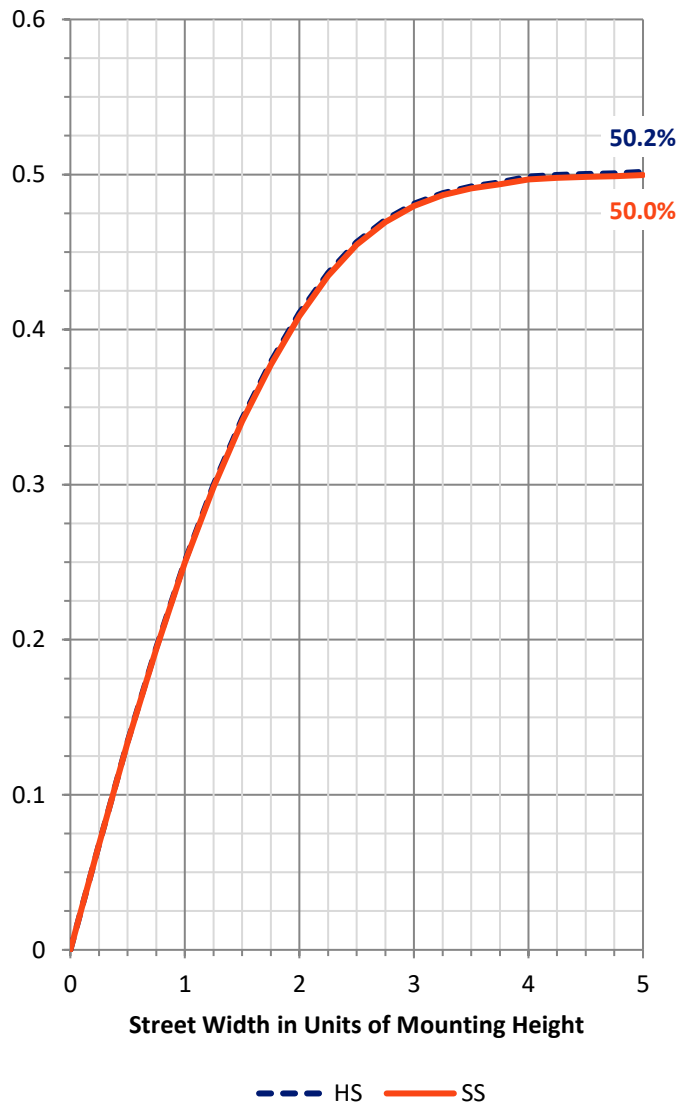
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2234.0	0.0	2234.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2234.0	0.0	2234.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4467.9	0.0	4467.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.9
10°-20°	128.9	2.9
20°-30°	230.4	5.2
30°-40°	373.5	8.4
40°-50°	608.4	13.6
50°-60°	927.6	20.8
60°-70°	1379.9	30.9
70°-80°	752.1	16.8
80°-90°	25.6	0.6
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°	4467.9	100.0
0°-180°	4467.9	100.0

Coefficient of Utilization



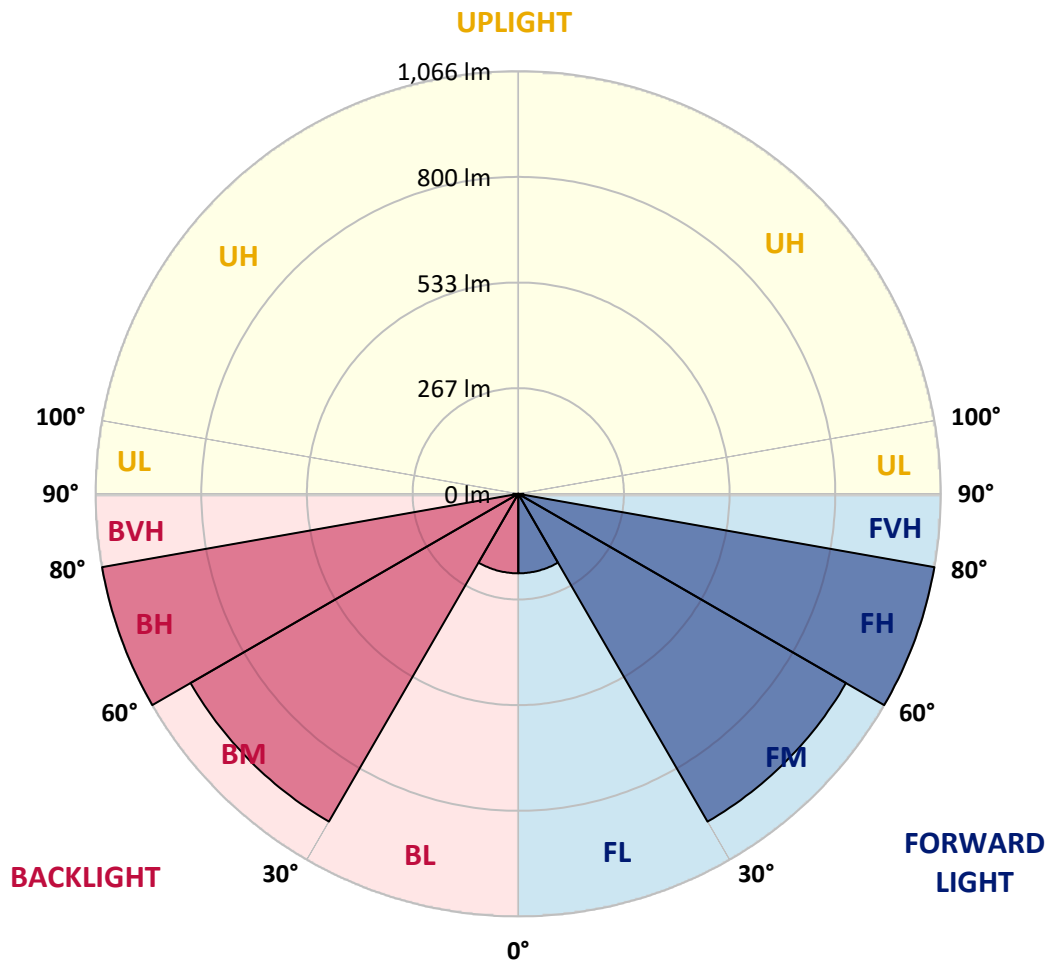
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.5	4.5			
FM (30°-60°)	954.7	21.4			
FH (60°-80°)	1066.0	23.9			G1/1800
FVH (80°-90°)	12.8	0.3			G1/100
BL (0°-30°)	200.5	4.5	B1/500		
BM (30°-60°)	954.7	21.4	B1/1000		
BH (60°-80°)	1066.0	23.9	B3/2500		G1/1800
BVH (80°-90°)	12.8	0.3			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°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	430.0	430.5	429.6	429.1	428.7	427.9	428.2	429.4	430.2	430.0	430.2
5°	433.6	434.1	433.4	433.2	432.2	432.0	432.0	433.2	433.8	433.4	433.6
7.5°	437.7	438.3	437.2	437.0	436.5	436.0	435.8	437.0	437.7	437.7	437.7
10°	441.5	442.1	441.3	440.5	440.1	440.1	439.6	440.5	441.7	441.5	441.5
12.5°	445.5	446.0	445.1	444.5	444.5	445.3	444.5	445.1	446.0	445.5	445.3
15°	450.4	450.6	450.4	451.1	452.2	454.5	452.4	452.0	452.4	451.3	451.3
17.5°	457.2	457.6	458.5	460.0	461.7	465.7	462.1	460.9	460.9	458.7	458.7
20°	465.5	466.1	467.5	470.2	472.2	476.0	472.4	470.8	470.2	467.2	467.2
22.5°	474.2	475.3	477.3	480.9	484.5	488.1	484.5	481.9	479.8	476.0	475.8
25°	484.3	485.6	488.8	494.6	499.6	504.7	500.4	495.1	491.0	485.6	485.4
27.5°	498.7	500.2	504.0	511.2	517.5	521.9	517.9	511.0	505.3	498.9	498.7
30°	518.9	520.4	524.9	532.5	536.8	539.7	537.0	531.7	524.9	517.5	517.5
32.5°	544.9	546.8	551.8	558.9	559.9	560.4	559.4	556.8	551.8	542.8	543.0
35°	577.8	580.0	585.7	591.5	590.6	591.5	590.2	589.3	585.7	575.3	575.3
37.5°	618.2	620.8	626.7	631.2	628.9	627.8	628.1	628.3	626.3	614.8	614.8
40°	665.1	668.7	672.9	677.6	673.8	670.5	672.7	674.6	672.7	661.0	661.0
42.5°	713.3	718.4	722.9	729.7	726.5	722.3	725.4	727.4	723.6	711.0	712.0
45°	766.9	771.8	777.7	787.8	785.6	781.0	785.6	786.0	779.5	764.6	766.3
47.5°	822.4	827.5	836.2	849.7	848.8	843.9	849.7	846.5	838.2	820.5	819.4
50°	874.8	882.0	895.4	914.3	916.0	910.0	917.9	911.8	897.9	875.8	875.2
52.5°	924.1	931.8	953.1	978.7	985.1	977.3	987.9	977.3	956.4	927.9	925.3
55°	976.0	984.5	1009.8	1043.2	1056.3	1050.4	1060.4	1044.4	1014.7	980.2	975.5
57.5°	1037.0	1042.1	1072.5	1112.1	1134.2	1135.5	1139.9	1113.0	1077.2	1037.9	1032.5
60°	1103.2	1110.4	1143.3	1190.8	1225.6	1236.9	1232.2	1192.2	1150.5	1105.4	1098.2
62.5°	1188.0	1195.8	1235.3	1292.2	1347.3	1375.0	1356.6	1298.8	1247.2	1193.1	1183.7
65°	1258.2	1266.9	1338.2	1439.8	1539.9	1595.7	1549.5	1443.0	1350.1	1273.9	1261.3
67.5°	1207.2	1218.0	1329.9	1516.6	1765.4	1932.0	1773.9	1539.4	1357.5	1254.1	1238.6
70°	1055.1	1065.3	1195.8	1423.9	1828.8	2194.0	1866.9	1465.9	1200.1	1084.3	1068.9
72.5°	700.5	733.1	865.2	1138.9	1633.0	2030.2	1649.1	1115.7	802.6	698.9	676.3
75°	232.4	258.4	348.6	590.4	1093.8	1518.3	1041.3	522.4	276.1	198.7	188.0
77.5°	58.5	67.5	93.1	168.9	436.2	864.5	392.8	138.0	75.1	52.5	46.8
80°	28.5	31.4	44.9	56.3	109.3	274.8	102.5	52.9	35.5	27.4	25.1
82.5°	15.7	15.9	25.3	31.9	40.6	71.1	42.1	31.0	20.4	16.6	16.6
85°	9.6	9.4	13.4	17.0	17.0	25.3	20.2	17.0	11.7	10.4	10.8
87.5°	3.8	3.8	4.9	5.4	4.7	6.5	5.1	5.6	4.5	4.3	4.5
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)