

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: P959285

Luminaire Tested: **NAV-SB1A-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.5 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

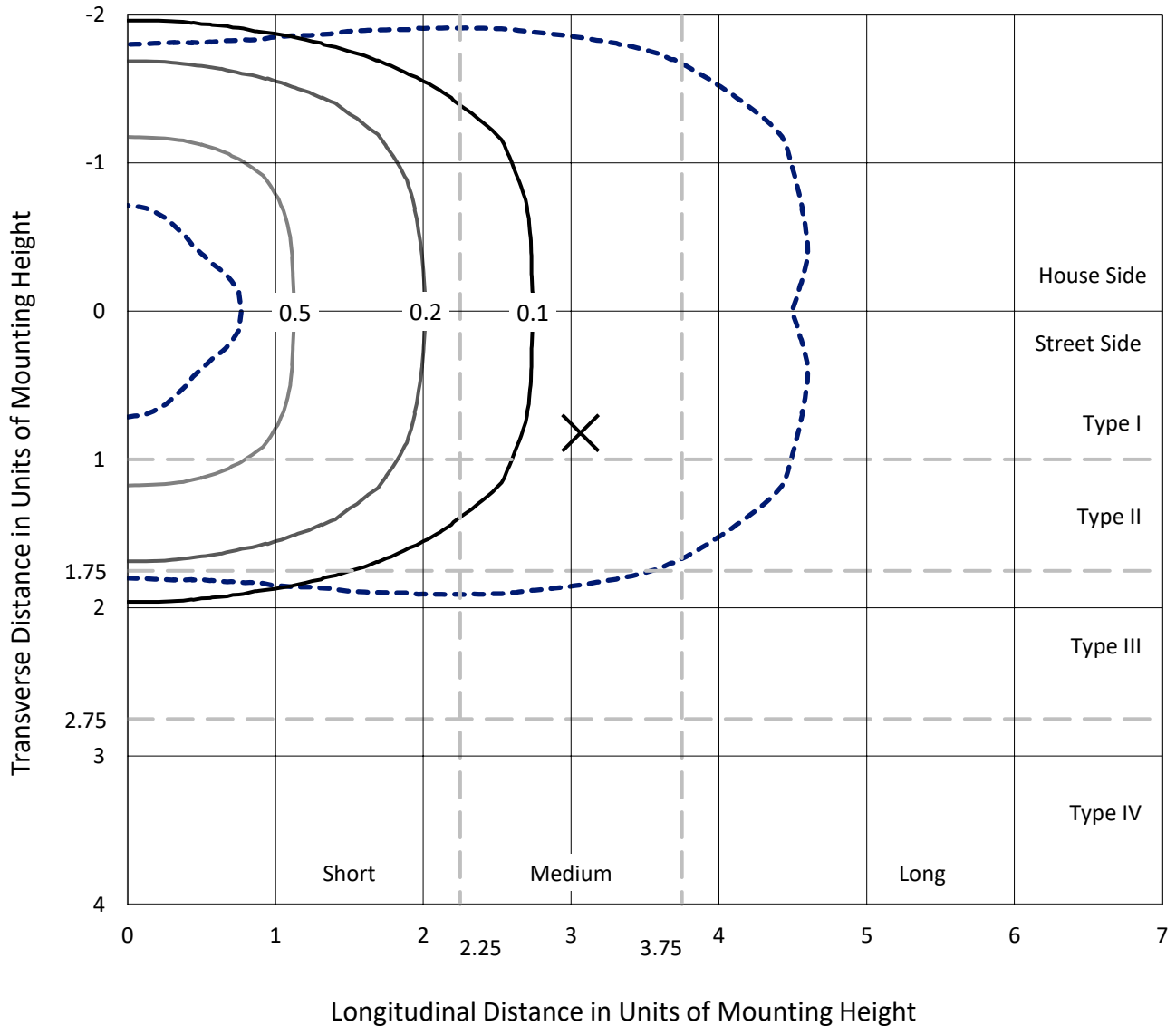
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

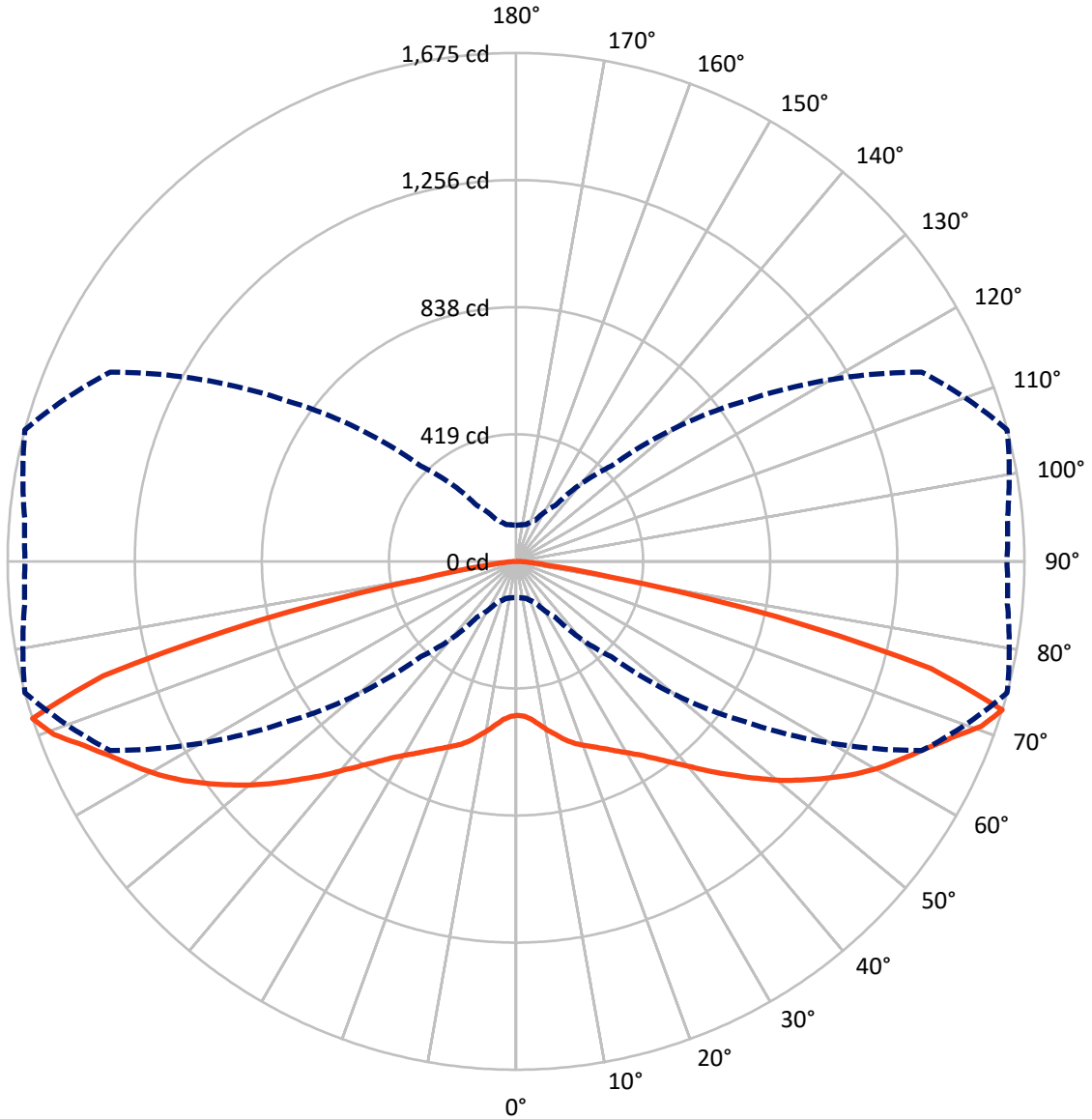
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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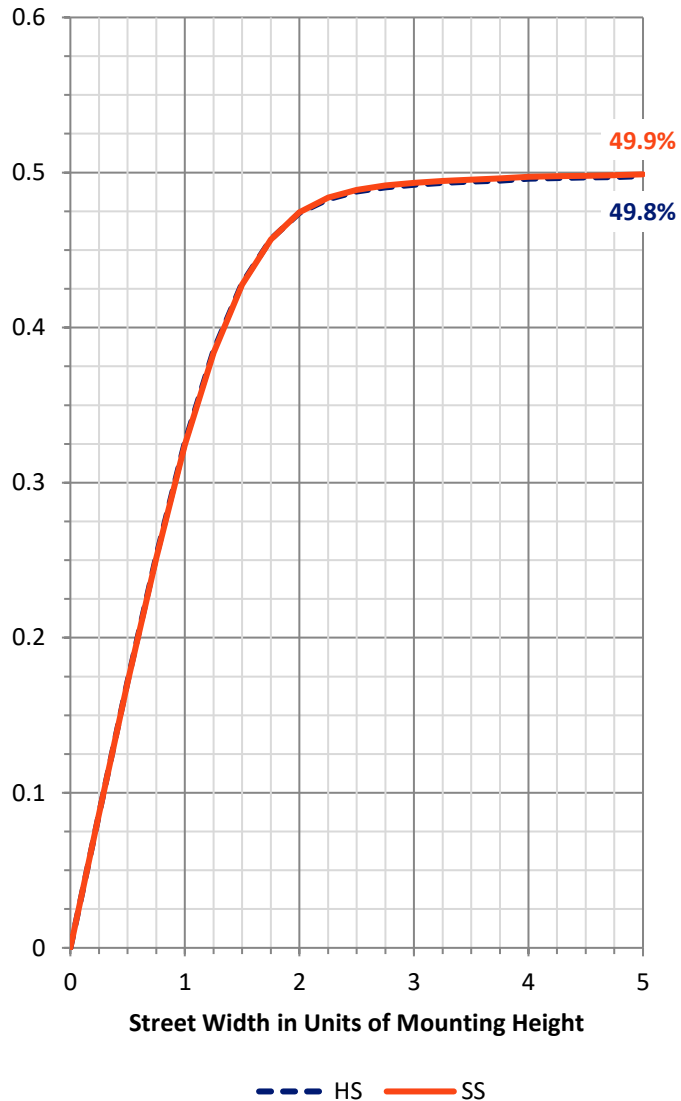
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2368.3	0.0	2368.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2368.3	0.0	2368.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4736.5	0.0	4736.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	1.0
10°-20°	163.9	3.5
20°-30°	316.7	6.7
30°-40°	534.8	11.3
40°-50°	848.2	17.9
50°-60°	1135.7	24.0
60°-70°	1080.8	22.8
70°-80°	564.0	11.9
80°-90°	42.7	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°	4736.5	100.0
0°-180°	4736.5	100.0

Coefficient of Utilization

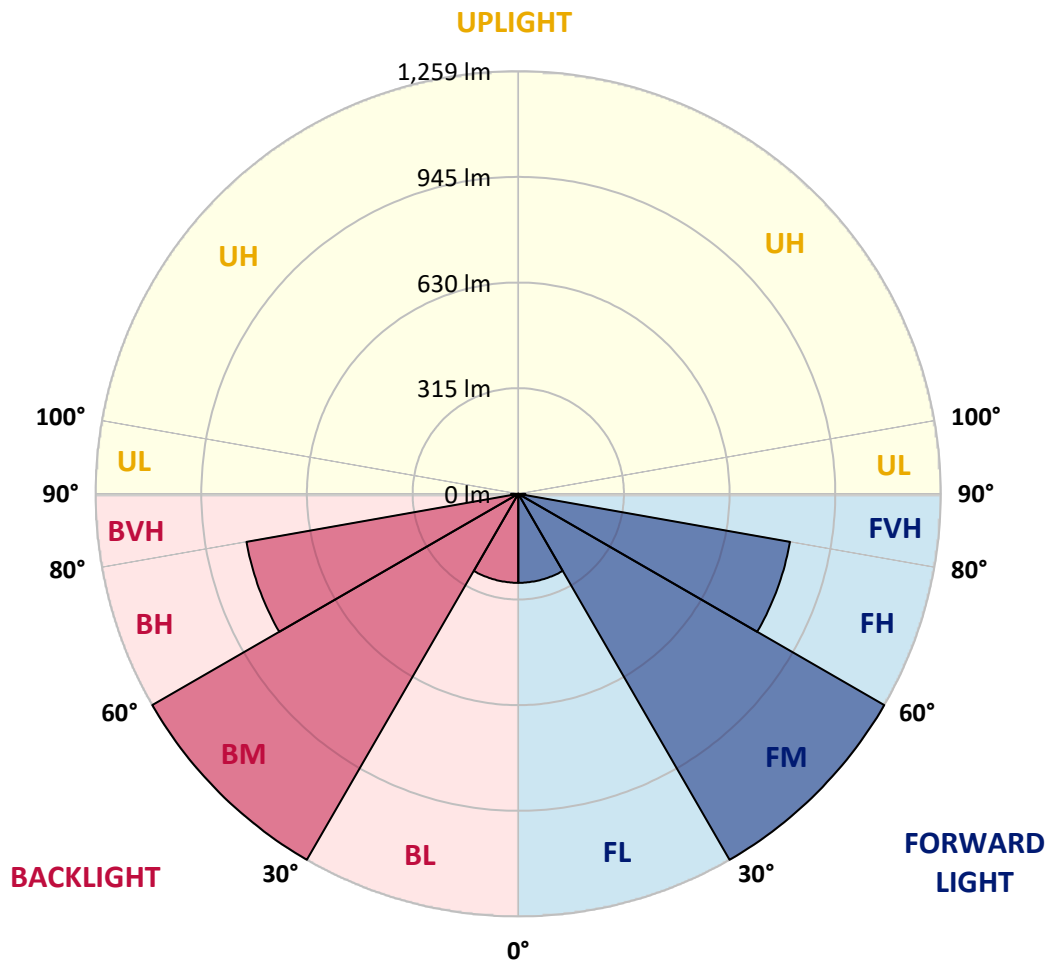


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.2	5.6			
FM (30°-60°)	1259.4	26.6			
FH (60°-80°)	822.4	17.4			G1/1800
FVH (80°-90°)	21.3	0.5			G1/100
BL (0°-30°)	265.2	5.6	B1/500		
BM (30°-60°)	1259.4	26.6	B2/2500		
BH (60°-80°)	822.4	17.4	B2/1000		G2/1000
BVH (80°-90°)	21.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	507.4	507.4	507.4	507.4	507.4	507.4	507.4	507.4	507.4	507.4	507.4
2.5°	507.4	506.9	507.4	507.9	507.6	507.6	508.8	509.5	511.0	510.8	510.6
5°	504.0	503.8	505.6	507.9	509.5	512.4	516.1	518.8	522.1	522.9	522.9
7.5°	502.2	501.5	504.9	508.8	514.1	521.4	528.4	535.7	541.5	543.4	543.9
10°	503.5	503.8	508.3	515.6	524.1	534.2	544.2	556.5	564.7	566.6	568.6
12.5°	509.0	508.6	516.3	527.9	539.6	552.4	564.0	577.5	586.4	591.0	593.0
15°	519.3	518.2	529.1	546.3	563.2	578.2	587.6	600.4	610.9	616.6	618.9
17.5°	531.3	531.8	546.0	568.3	590.6	607.5	616.4	623.0	631.0	636.0	638.5
20°	552.6	553.6	569.5	595.8	621.3	640.6	647.9	645.4	647.6	651.5	654.4
22.5°	581.2	581.6	599.5	628.0	654.7	675.9	680.8	670.9	664.8	667.5	669.4
25°	614.3	617.4	635.3	664.5	691.9	712.2	714.4	699.4	684.4	685.1	686.3
27.5°	654.7	657.5	675.7	704.7	732.5	750.2	749.9	729.9	707.9	702.3	704.0
30°	698.4	701.5	720.2	750.2	776.0	791.5	788.1	764.2	732.8	722.3	723.5
32.5°	750.4	752.3	771.2	801.2	825.1	837.4	830.5	800.9	761.8	749.9	752.9
35°	813.2	816.2	830.2	858.5	879.6	889.7	877.8	843.1	799.0	785.8	787.6
37.5°	885.1	883.1	899.1	924.2	941.7	948.0	931.8	890.4	841.6	825.8	828.7
40°	960.1	959.1	976.5	1000.7	1010.1	1014.0	990.0	944.8	890.6	873.7	879.3
42.5°	1028.1	1027.4	1050.7	1077.6	1089.0	1084.7	1054.4	1002.7	947.5	928.1	933.0
45°	1082.4	1081.5	1110.3	1148.0	1170.2	1163.0	1122.4	1066.5	1005.0	985.0	989.5
47.5°	1124.3	1124.7	1155.7	1202.4	1241.4	1244.0	1191.8	1131.5	1068.5	1045.7	1052.5
50°	1154.6	1156.0	1189.1	1240.9	1294.1	1317.5	1262.6	1198.3	1134.0	1108.3	1116.0
52.5°	1162.0	1164.7	1204.6	1265.3	1327.9	1372.7	1334.7	1262.4	1196.1	1171.7	1177.9
55°	1122.1	1127.4	1177.9	1263.3	1348.7	1409.0	1398.0	1327.4	1258.7	1233.6	1240.6
57.5°	1030.4	1037.9	1097.0	1208.5	1344.1	1433.9	1447.1	1389.8	1321.3	1297.2	1302.8
60°	902.0	911.0	967.6	1089.3	1279.3	1443.0	1481.7	1450.5	1378.9	1355.5	1360.6
62.5°	708.4	720.0	787.6	930.3	1142.5	1400.3	1511.3	1505.4	1430.7	1401.4	1404.8
65°	454.4	466.8	538.1	706.6	959.8	1269.2	1520.4	1558.8	1485.3	1444.4	1449.6
67.5°	274.0	279.5	314.9	428.2	701.5	1071.5	1442.6	1618.1	1549.2	1498.4	1502.2
70°	175.4	178.5	199.5	251.5	396.6	781.9	1249.6	1629.2	1626.6	1553.8	1553.3
72.5°	119.0	119.9	125.6	148.9	224.4	444.2	921.6	1475.0	1675.0	1625.1	1617.3
75°	87.0	92.4	101.4	105.5	127.4	222.0	528.2	1036.3	1411.6	1433.4	1380.7
77.5°	64.8	65.1	77.4	82.2	90.9	118.3	223.4	578.5	876.4	920.1	820.8
80°	54.9	52.0	51.8	66.2	68.5	73.8	99.8	199.8	313.9	190.3	143.9
82.5°	45.7	42.5	38.4	51.8	46.6	45.2	43.3	81.3	99.8	49.1	41.8
85°	31.9	30.4	29.0	33.8	26.6	22.8	20.8	37.9	42.1	20.8	18.3
87.5°	13.7	14.2	14.6	15.0	11.2	8.0	8.0	10.7	10.7	8.2	6.0
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)