

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: P959280

Luminaire Tested: **NAV-SB1A-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959280
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-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4816.5 lumens
Efficiency: N/A
Efficacy: 155.9 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

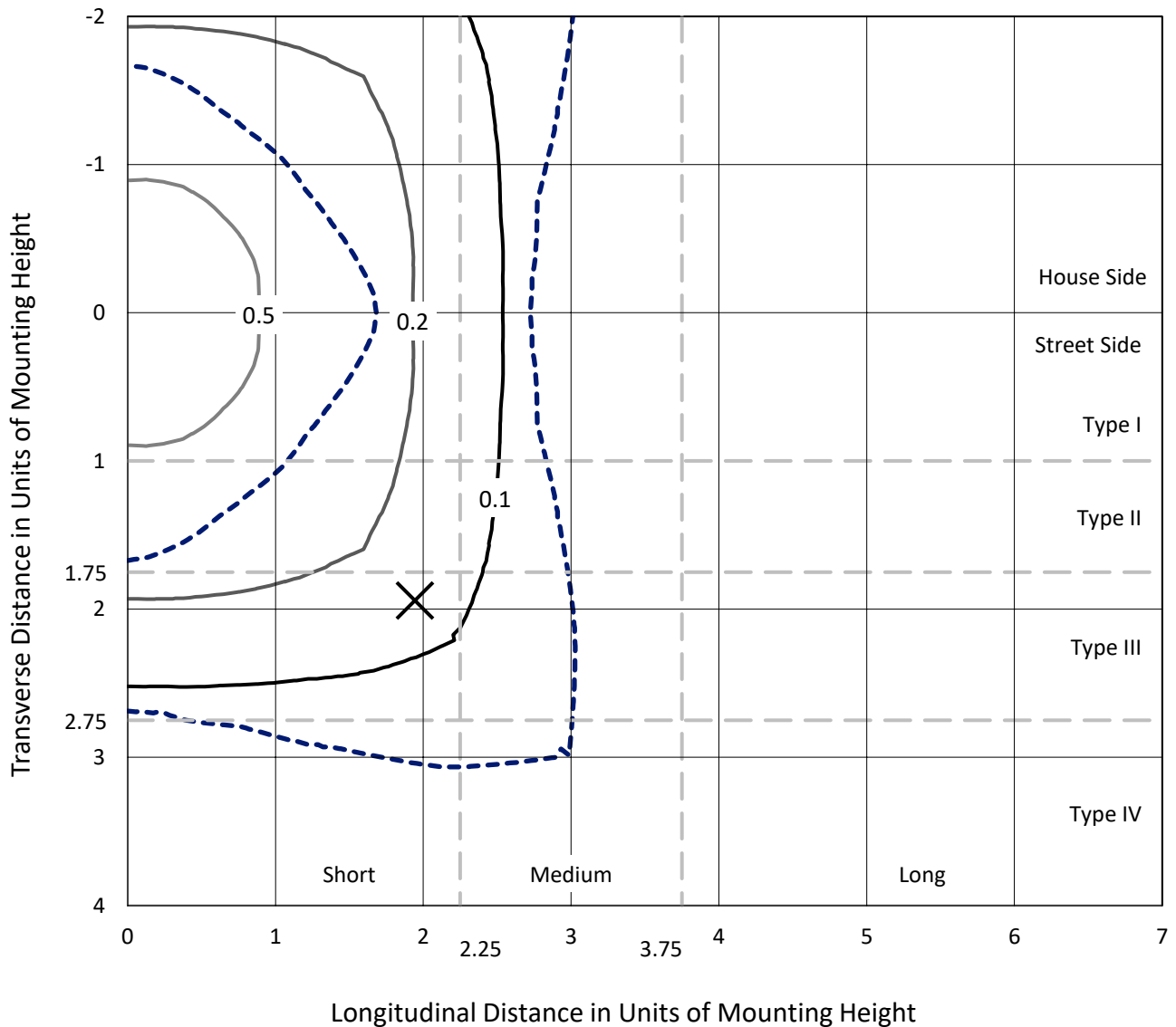
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

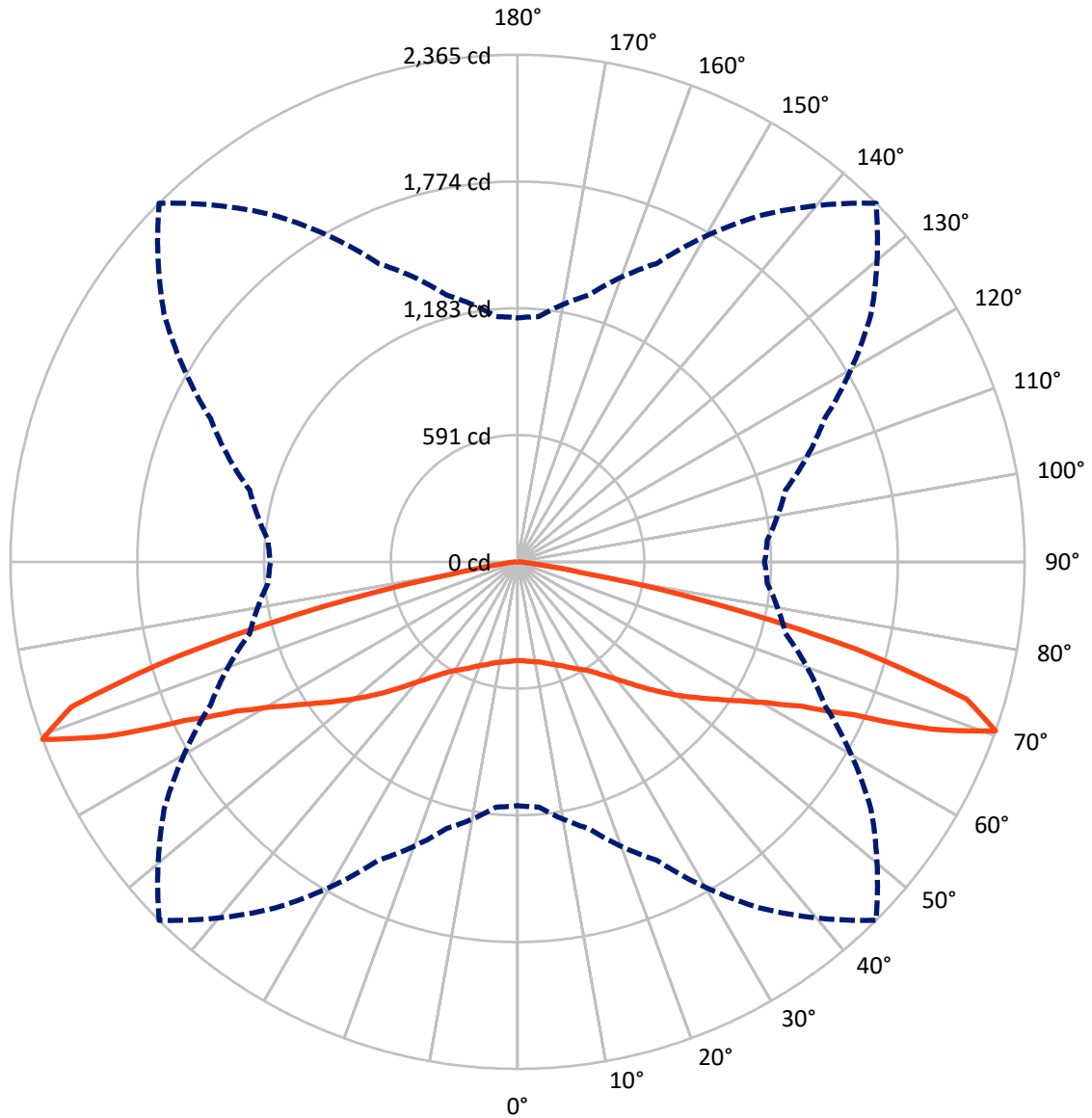
× Max cd
 - - - 1/2 Max cd



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	2408.2	0.0	2408.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2408.2	0.0	2408.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4816.5	0.0	4816.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	0.9
10°-20°	139.0	2.9
20°-30°	248.4	5.2
30°-40°	402.6	8.4
40°-50°	655.8	13.6
50°-60°	999.9	20.8
60°-70°	1487.5	30.9
70°-80°	810.8	16.8
80°-90°	27.6	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°	4816.5	100.0
0°-180°	4816.5	100.0

Coefficient of Utilization



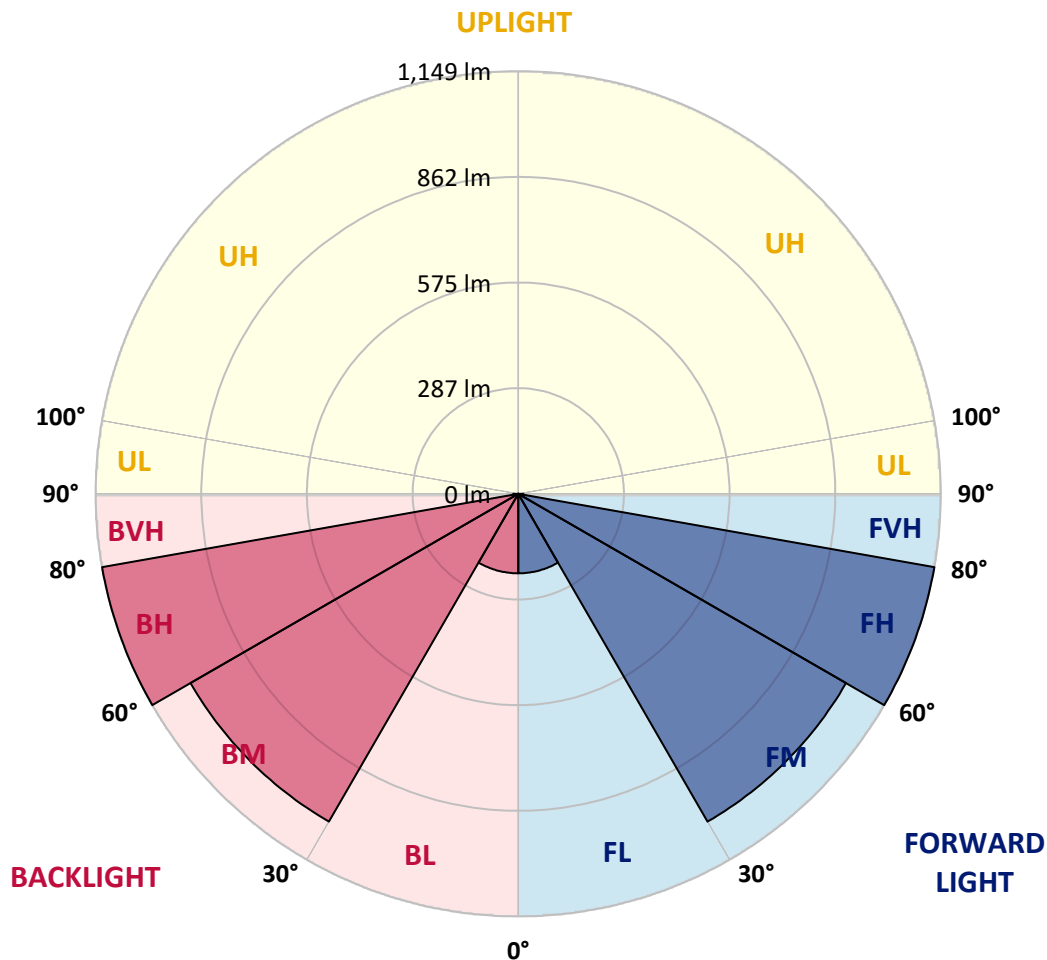
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.1	4.5			
FM	(30°-60°)	1029.2	21.4			
FH	(60°-80°)	1149.2	23.9			G1/1800
FVH	(80°-90°)	13.8	0.3			G1/100
BL	(0°-30°)	216.1	4.5	B1/500		
BM	(30°-60°)	1029.2	21.4	B2/2500		
BH	(60°-80°)	1149.2	23.9	B3/2500		G1/1800
BVH	(80°-90°)	13.8	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°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
2.5°	463.5	464.0	463.1	462.6	462.1	461.4	461.7	462.8	463.8	463.5	463.8
5°	467.4	467.9	467.2	466.9	466.0	465.8	465.8	466.9	467.6	467.2	467.4
7.5°	471.8	472.5	471.3	471.1	470.6	470.1	469.9	471.1	471.8	471.8	471.8
10°	475.9	476.6	475.6	474.9	474.5	474.5	474.0	474.9	476.1	475.9	475.9
12.5°	480.2	480.7	479.7	479.3	479.3	480.0	479.3	479.7	480.7	480.2	480.0
15°	485.5	485.7	485.5	486.3	487.5	489.9	487.7	487.3	487.7	486.6	486.6
17.5°	492.8	493.3	494.3	496.0	497.6	501.9	498.2	496.9	496.9	494.5	494.5
20°	501.7	502.5	503.9	506.9	509.0	513.1	509.2	507.6	506.9	503.7	503.7
22.5°	511.2	512.4	514.6	518.4	522.3	526.1	522.3	519.4	517.2	513.1	512.9
25°	522.0	523.5	526.8	533.2	538.5	544.1	539.5	533.7	529.3	523.5	523.3
27.5°	537.5	539.3	543.4	551.0	557.8	562.7	558.3	550.8	544.8	537.8	537.5
30°	559.3	561.0	565.8	574.0	578.6	581.8	578.9	573.1	565.8	557.8	557.8
32.5°	587.3	589.5	594.8	602.6	603.5	604.0	603.1	600.1	594.8	585.2	585.4
35°	622.9	625.4	631.4	637.7	636.7	637.7	636.2	635.2	631.4	620.2	620.2
37.5°	666.5	669.3	675.6	680.4	678.0	676.8	677.0	677.3	675.2	662.8	662.8
40°	717.0	720.8	725.4	730.5	726.4	722.7	725.2	727.1	725.2	712.6	712.6
42.5°	769.0	774.5	779.3	786.6	783.2	778.6	782.0	784.2	780.0	766.5	767.5
45°	826.8	832.1	838.3	849.2	846.9	841.9	846.9	847.3	840.3	824.3	826.0
47.5°	886.4	892.1	901.5	915.9	915.0	909.7	915.9	912.6	903.6	884.6	883.3
50°	943.0	950.8	965.3	985.6	987.6	981.0	989.4	983.0	967.9	944.0	943.5
52.5°	996.2	1004.5	1027.5	1055.0	1062.0	1053.6	1064.9	1053.6	1031.0	1000.4	997.4
55°	1052.1	1061.3	1088.7	1124.6	1138.7	1132.4	1143.0	1125.9	1094.0	1056.7	1051.6
57.5°	1117.9	1123.4	1156.1	1198.8	1222.6	1224.1	1228.9	1199.9	1161.1	1118.9	1113.0
60°	1189.2	1197.0	1232.5	1283.7	1321.2	1333.3	1328.3	1285.2	1240.2	1191.7	1183.9
62.5°	1280.6	1289.0	1331.7	1393.1	1452.3	1482.3	1462.5	1400.0	1344.5	1286.2	1276.0
65°	1356.3	1365.7	1442.6	1552.2	1660.0	1720.3	1670.4	1555.5	1455.4	1373.2	1359.7
67.5°	1301.4	1313.0	1433.7	1634.9	1903.0	2082.7	1912.2	1659.5	1463.4	1352.0	1335.3
70°	1137.4	1148.3	1289.0	1535.0	1971.5	2365.1	2012.6	1580.2	1293.7	1168.9	1152.2
72.5°	755.1	790.3	932.6	1227.6	1760.3	2188.6	1777.8	1202.7	865.2	753.5	729.1
75°	250.5	278.6	375.8	636.4	1179.1	1636.8	1122.5	563.1	297.7	214.2	202.6
77.5°	63.1	72.8	100.3	182.0	470.3	931.9	423.4	148.7	81.0	56.6	50.5
80°	30.7	33.8	48.4	60.7	117.8	296.2	110.5	57.1	38.2	29.5	27.1
82.5°	16.9	17.1	27.4	34.3	43.8	76.7	45.5	33.4	22.0	17.9	17.9
85°	10.4	10.1	14.6	18.3	18.3	27.4	21.7	18.3	12.6	11.2	11.6
87.5°	4.1	4.1	5.3	5.8	5.1	7.0	5.5	6.0	4.8	4.6	4.8
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)