

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: P882062

Luminaire Tested: **NAV-SB1D-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882062
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-SB1D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10302 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

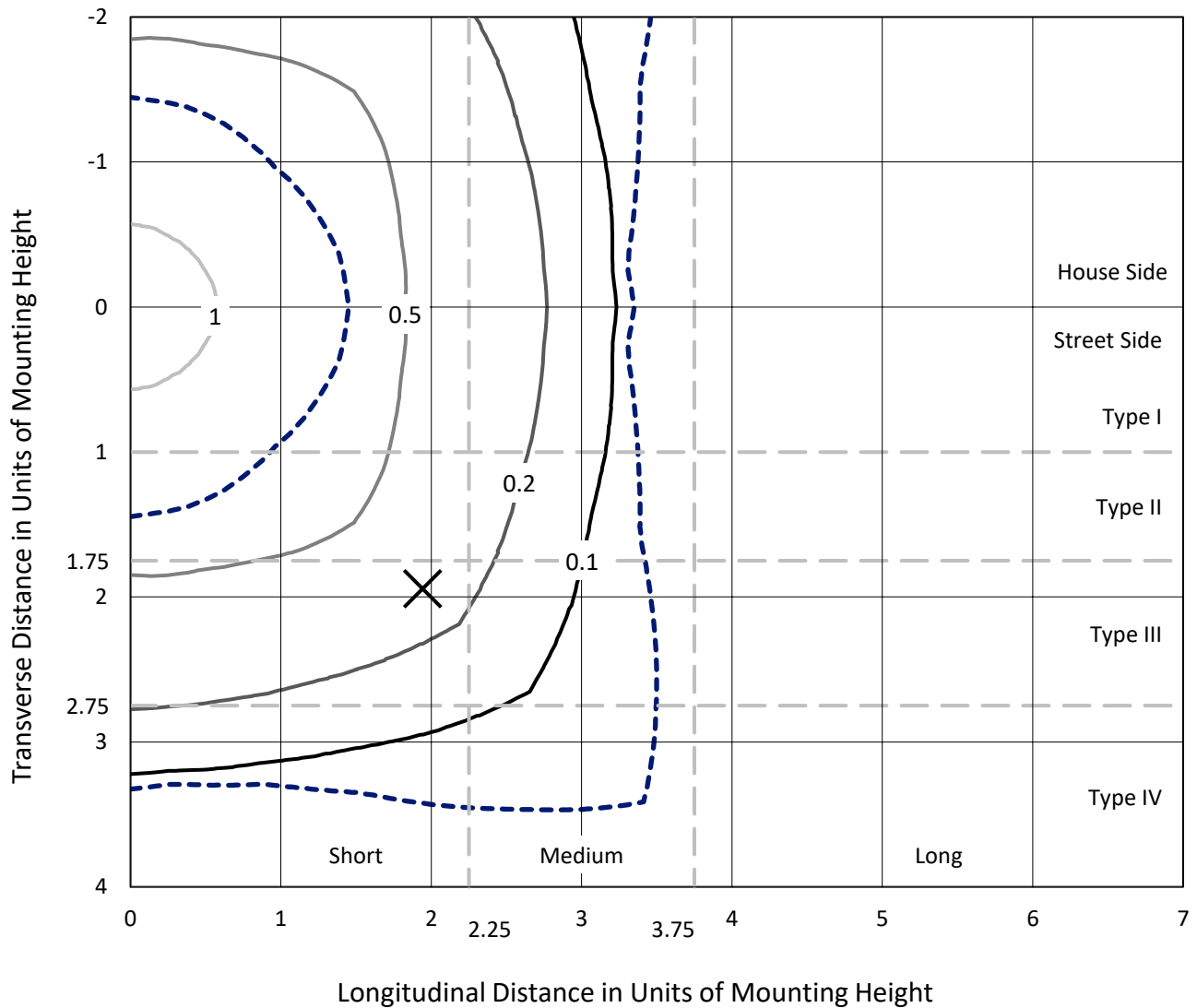
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

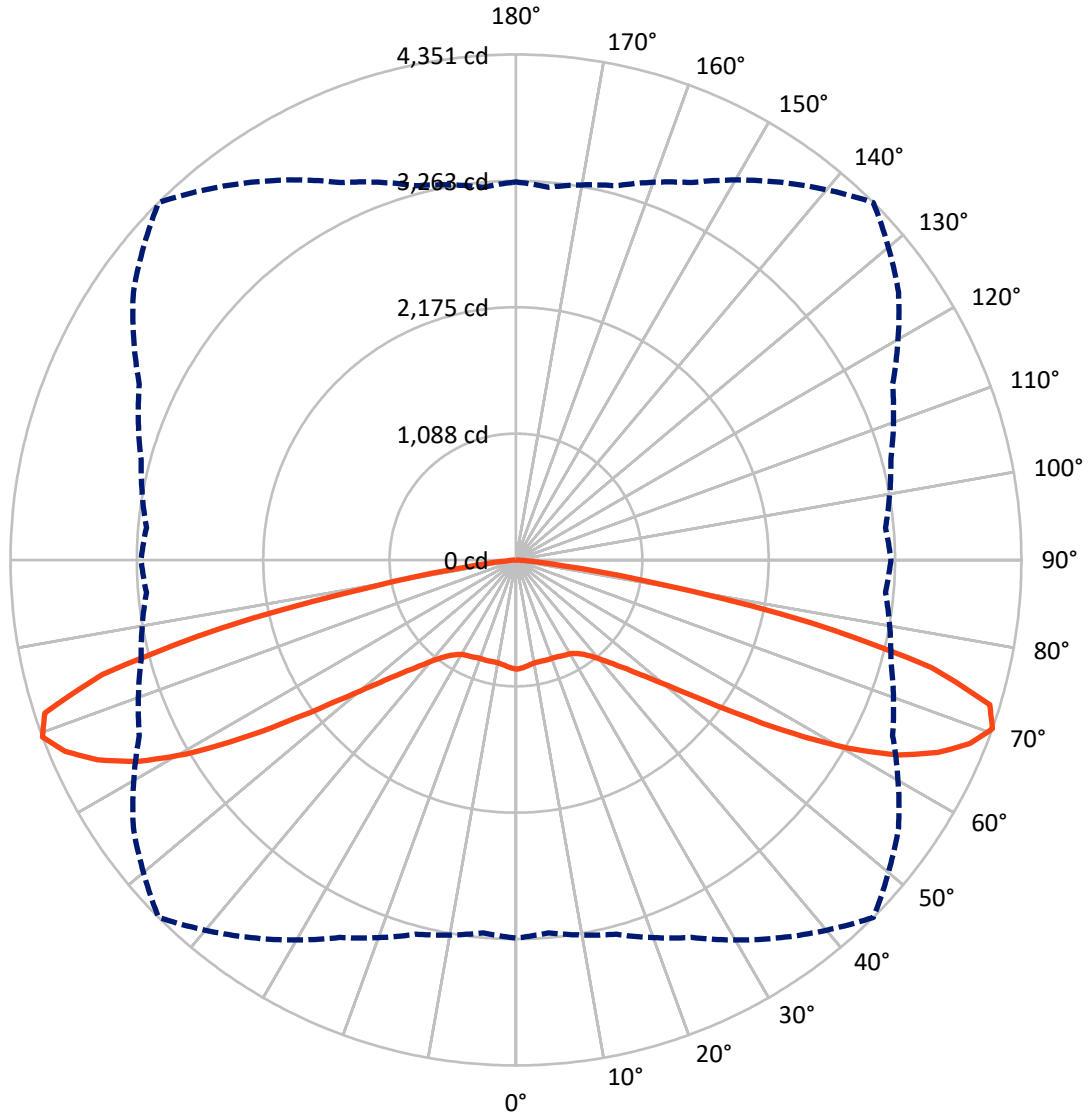
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	5151.0	0.0	5151.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5151.0	0.0	5151.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10302.0	0.0	10302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	0.8
10°-20°	256.7	2.5
20°-30°	427.2	4.1
30°-40°	646.0	6.3
40°-50°	1073.5	10.4
50°-60°	2025.6	19.7
60°-70°	3420.4	33.2
70°-80°	2247.5	21.8
80°-90°	117.7	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°	10302.0	100.0
0°-180°	10302.0	100.0

Coefficient of Utilization



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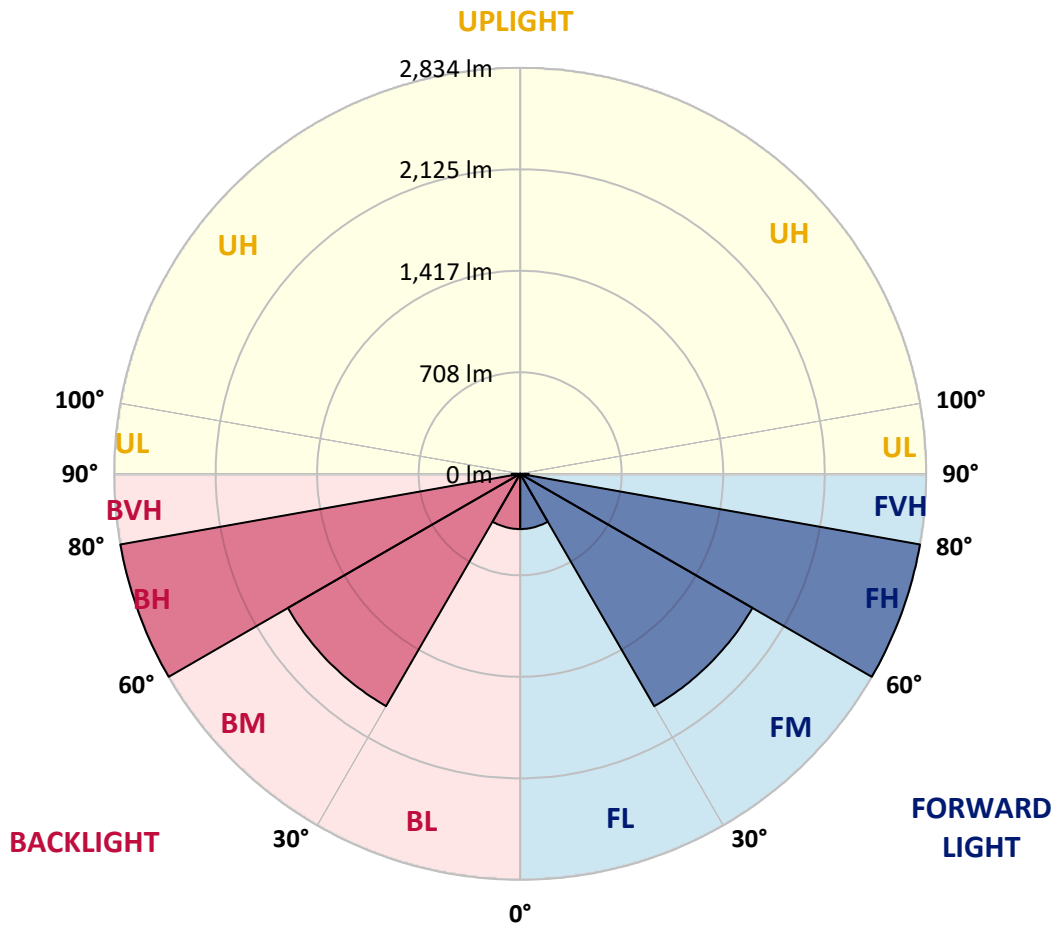
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.6	3.7			
FM (30°-60°)	1872.6	18.2			
FH (60°-80°)	2833.9	27.5			G2/5000
FVH (80°-90°)	58.9	0.6			G1/100
BL (0°-30°)	385.6	3.7	B1/500		
BM (30°-60°)	1872.6	18.2	B2/2500		
BH (60°-80°)	2833.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	58.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7
2.5°	933.9	936.5	935.5	933.3	933.3	931.7	933.3	934.4	936.0	937.1	936.5
5°	921.5	923.7	923.2	921.5	922.1	920.5	921.5	923.2	924.2	924.8	924.8
7.5°	910.8	913.0	911.9	909.2	909.2	907.6	908.2	909.8	911.4	911.9	911.9
10°	908.2	910.3	907.1	902.8	901.2	899.1	899.6	901.2	904.4	906.0	906.0
12.5°	909.2	910.8	907.6	901.2	899.6	897.4	897.4	899.1	903.3	905.5	906.0
15°	912.4	914.0	909.2	902.3	900.7	899.1	898.5	900.7	905.5	909.2	909.8
17.5°	918.3	919.9	912.4	902.8	900.7	901.2	900.7	902.3	909.8	916.7	916.7
20°	923.7	924.8	914.6	902.8	900.7	901.2	900.7	903.9	913.5	923.2	923.7
22.5°	925.3	926.4	916.7	906.6	904.9	905.5	904.9	908.2	917.3	926.9	926.9
25°	925.8	927.4	919.9	911.9	914.6	915.7	914.6	915.1	922.1	930.6	930.1
27.5°	933.9	936.0	929.0	922.1	923.7	923.2	924.8	926.4	931.7	940.3	938.1
30°	950.5	952.1	946.2	939.2	938.1	934.4	939.2	944.6	950.5	958.0	956.3
32.5°	977.8	981.0	973.5	966.0	961.2	959.0	962.8	971.9	979.9	987.9	984.7
35°	1023.3	1025.4	1018.5	1004.5	996.0	996.0	999.2	1011.0	1023.8	1034.0	1030.2
37.5°	1087.5	1090.2	1077.9	1061.3	1048.5	1048.5	1052.7	1065.0	1084.3	1098.8	1093.4
40°	1165.7	1169.5	1153.9	1136.8	1124.5	1122.3	1127.7	1141.6	1159.8	1178.0	1172.1
42.5°	1260.0	1264.2	1243.9	1228.9	1219.3	1219.3	1221.9	1234.8	1251.4	1273.9	1272.3
45°	1380.4	1387.9	1360.1	1345.1	1336.0	1338.1	1339.7	1351.0	1366.0	1391.7	1390.6
47.5°	1523.9	1531.4	1502.0	1486.5	1484.9	1495.0	1488.6	1496.6	1504.7	1534.1	1525.6
50°	1686.7	1699.6	1679.2	1678.2	1681.4	1700.1	1685.1	1689.4	1680.3	1699.0	1687.8
52.5°	1885.9	1904.7	1900.9	1907.3	1943.2	1981.8	1947.5	1932.5	1898.2	1904.1	1884.3
55°	2127.4	2155.8	2161.2	2199.7	2281.1	2359.8	2287.0	2226.5	2153.7	2140.3	2119.4
57.5°	2402.1	2424.6	2450.3	2529.0	2681.1	2820.9	2681.1	2547.2	2432.6	2405.3	2386.1
60°	2697.7	2725.5	2750.2	2866.4	3092.3	3288.9	3088.1	2875.5	2723.9	2687.0	2654.9
62.5°	3015.2	3051.1	3068.2	3197.3	3460.7	3695.3	3464.5	3206.9	3038.8	2999.2	2967.0
65°	3319.9	3349.4	3368.6	3506.3	3757.9	3993.0	3775.1	3521.3	3348.3	3296.4	3270.7
67.5°	3461.8	3477.9	3525.0	3680.8	3946.4	4214.7	3991.4	3697.4	3504.1	3413.1	3414.2
70°	3254.1	3221.4	3334.9	3584.4	3968.9	4350.7	4020.3	3576.9	3340.3	3192.5	3227.8
72.5°	2514.6	2458.3	2655.4	3082.2	3711.9	4263.9	3737.6	3106.3	2778.0	2478.2	2552.6
75°	1368.1	1304.4	1576.4	2116.2	2960.1	3695.8	3028.1	2176.7	1755.3	1358.0	1446.3
77.5°	386.1	362.0	581.5	1023.8	1780.4	2594.9	1849.0	1046.3	689.7	409.1	454.6
80°	118.3	114.6	155.3	308.4	756.1	1242.8	726.6	312.2	197.6	124.8	131.7
82.5°	70.1	64.3	77.1	112.4	192.8	390.4	187.4	117.3	94.2	63.2	68.5
85°	40.2	37.5	45.5	54.6	64.8	83.0	54.1	55.7	50.3	33.7	35.3
87.5°	16.6	15.0	17.7	17.1	15.0	19.3	14.5	17.1	20.3	13.4	12.3
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)