

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: P882052

Luminaire Tested: **NAV-SB1D-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882052
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10141 lumens
Efficiency: N/A
Efficacy: 127.4 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

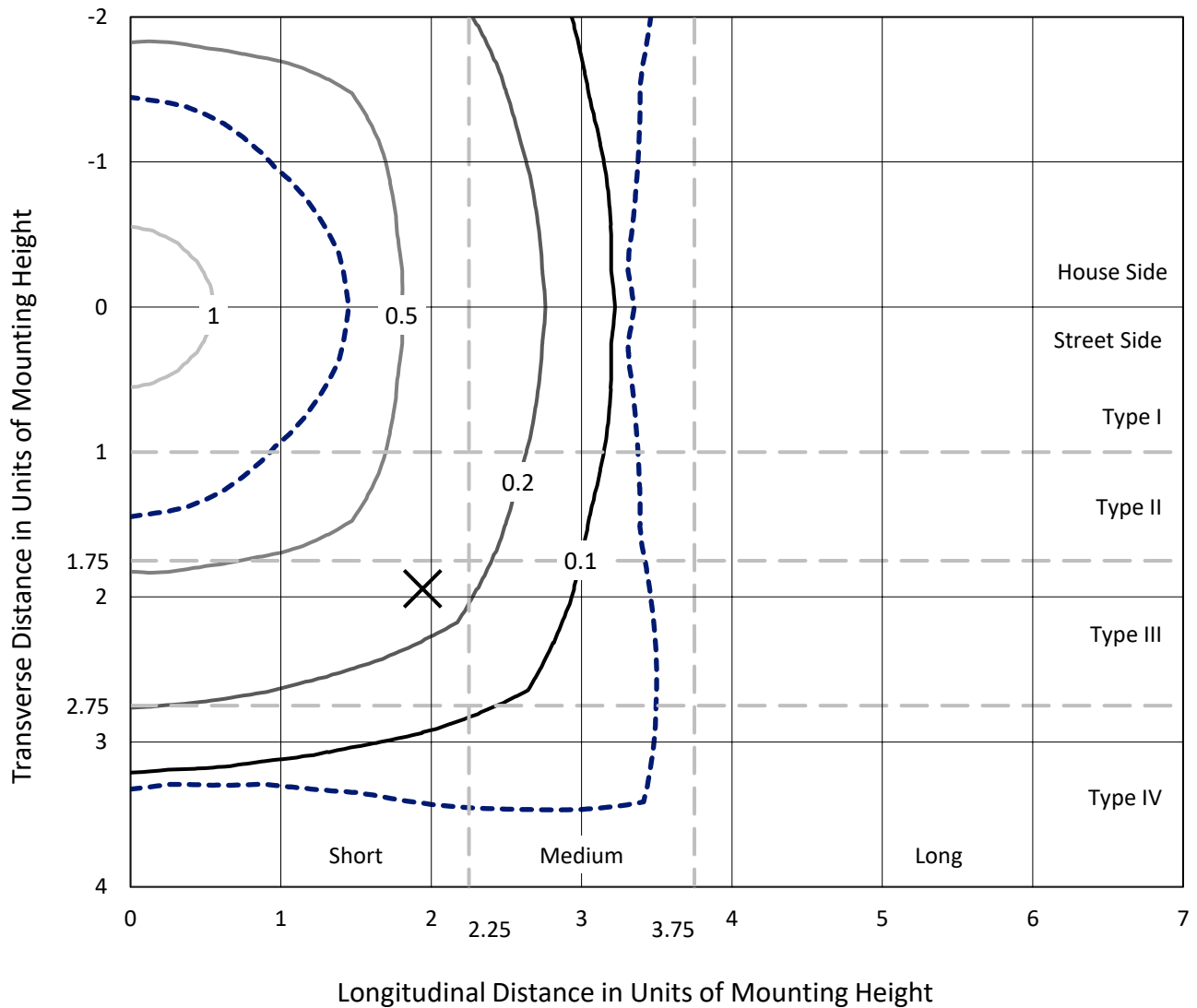
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

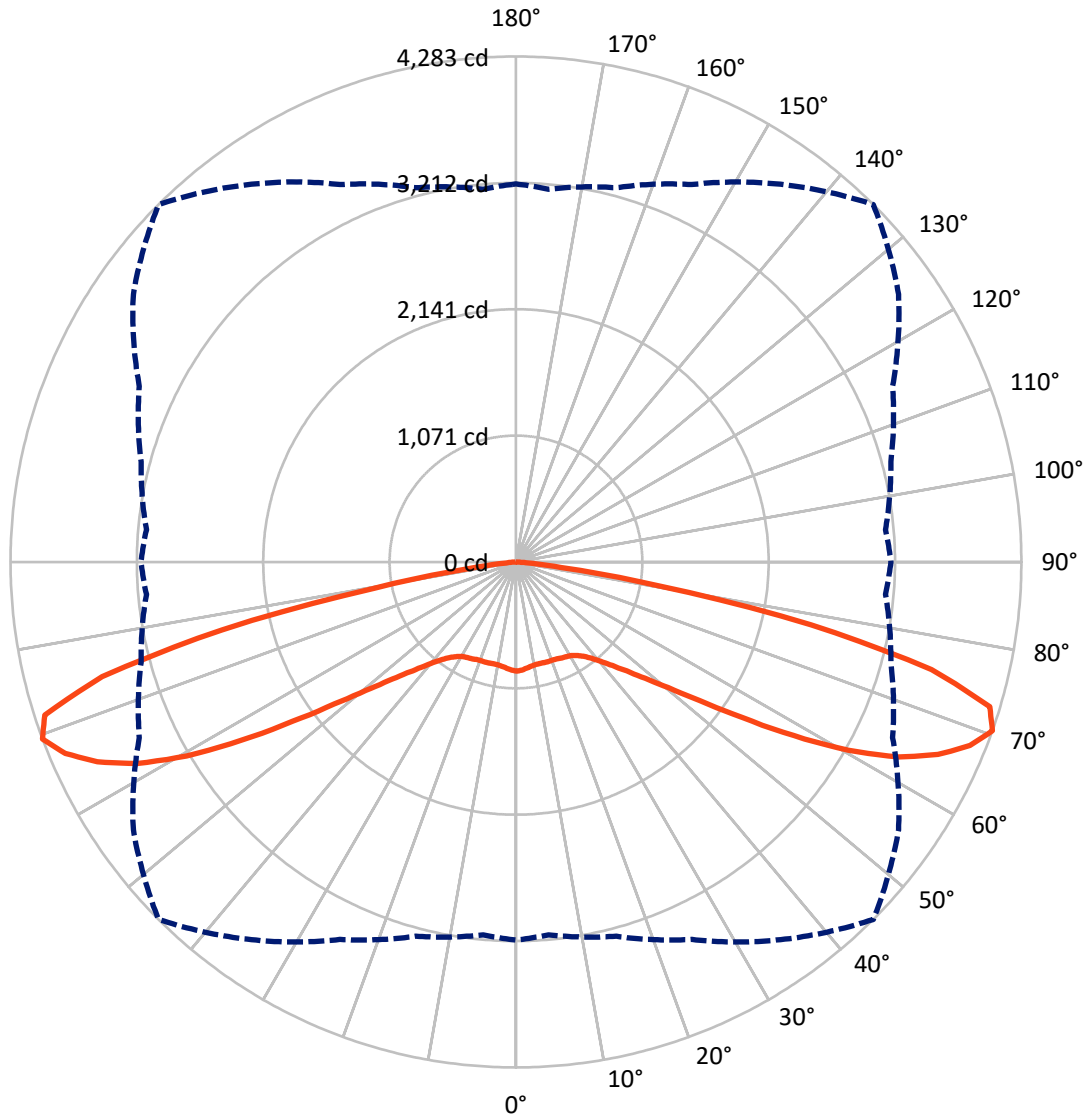
✕ Max cd
 - - - 1/2 Max cd



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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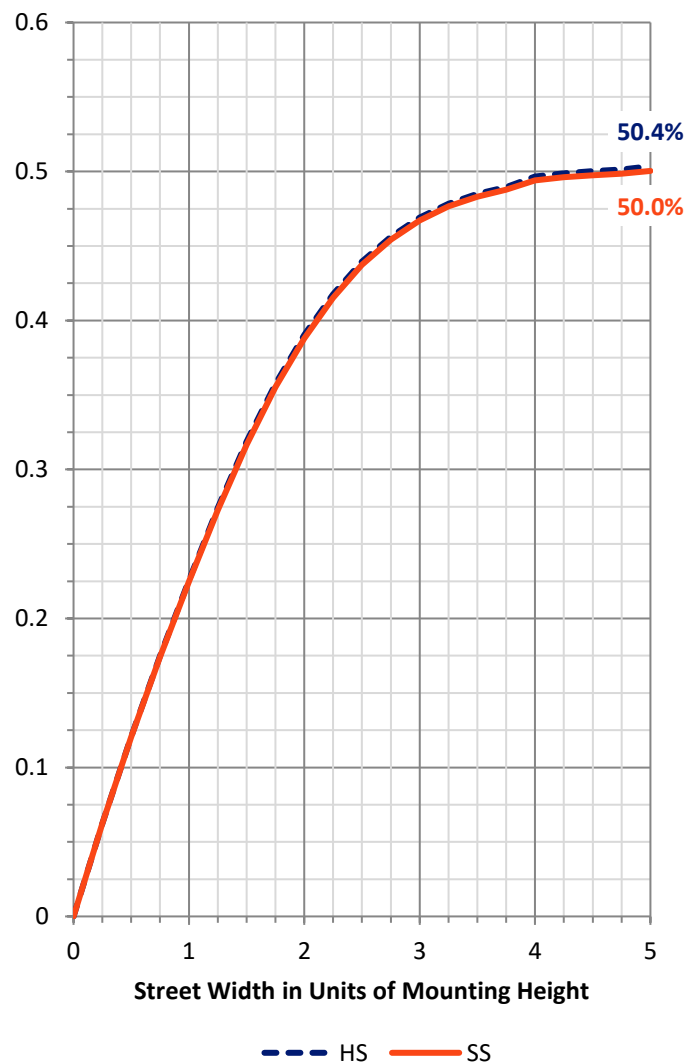
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5070.5	0.0	5070.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5070.5	0.0	5070.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10141.0	0.0	10141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	0.8
10°-20°	252.7	2.5
20°-30°	420.5	4.1
30°-40°	635.9	6.3
40°-50°	1056.7	10.4
50°-60°	1994.0	19.7
60°-70°	3366.9	33.2
70°-80°	2212.4	21.8
80°-90°	115.9	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°	10141.0	100.0
0°-180°	10141.0	100.0

Coefficient of Utilization



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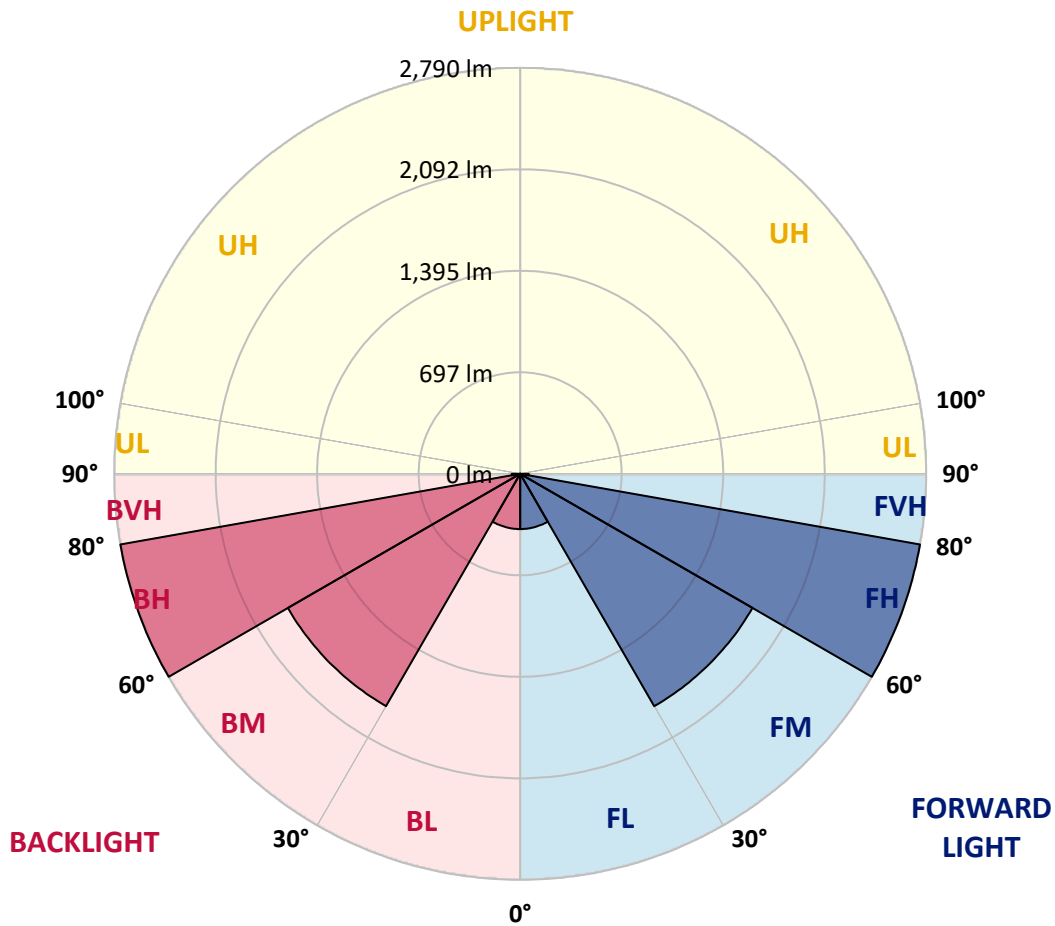
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.6	3.7			
FM (30°-60°)	1843.3	18.2			
FH (60°-80°)	2789.7	27.5			G2/5000
FVH (80°-90°)	58.0	0.6			G1/100
BL (0°-30°)	379.6	3.7	B1/500		
BM (30°-60°)	1843.3	18.2	B2/2500		
BH (60°-80°)	2789.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	58.0	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°	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1
2.5°	919.3	921.9	920.8	918.7	918.7	917.2	918.7	919.8	921.4	922.4	921.9
5°	907.1	909.3	908.7	907.1	907.7	906.1	907.1	908.7	909.8	910.3	910.3
7.5°	896.6	898.7	897.7	895.0	895.0	893.4	894.0	895.5	897.1	897.7	897.7
10°	894.0	896.1	892.9	888.7	887.1	885.0	885.5	887.1	890.3	891.9	891.9
12.5°	895.0	896.6	893.4	887.1	885.5	883.4	883.4	885.0	889.2	891.3	891.9
15°	898.2	899.8	895.0	888.2	886.6	885.0	884.5	886.6	891.3	895.0	895.5
17.5°	904.0	905.6	898.2	888.7	886.6	887.1	886.6	888.2	895.5	902.4	902.4
20°	909.3	910.3	900.3	888.7	886.6	887.1	886.6	889.7	899.2	908.7	909.3
22.5°	910.8	911.9	902.4	892.4	890.8	891.3	890.8	894.0	902.9	912.4	912.4
25°	911.4	912.9	905.6	897.7	900.3	901.3	900.3	900.8	907.7	916.1	915.6
27.5°	919.3	921.4	914.5	907.7	909.3	908.7	910.3	911.9	917.2	925.6	923.5
30°	935.6	937.2	931.4	924.5	923.5	919.8	924.5	929.8	935.6	943.0	941.4
32.5°	962.5	965.7	958.3	950.9	946.1	944.0	947.7	956.7	964.6	972.5	969.3
35°	1007.3	1009.4	1002.5	988.8	980.4	980.4	983.6	995.2	1007.8	1017.8	1014.1
37.5°	1070.5	1073.2	1061.1	1044.7	1032.1	1032.1	1036.3	1048.4	1067.4	1081.6	1076.3
40°	1147.5	1151.2	1135.9	1119.0	1106.9	1104.8	1110.1	1123.8	1141.7	1159.6	1153.8
42.5°	1240.3	1244.5	1224.5	1209.7	1200.2	1200.2	1202.8	1215.5	1231.8	1254.0	1252.4
45°	1358.9	1366.2	1338.8	1324.1	1315.1	1317.2	1318.8	1329.9	1344.6	1369.9	1368.9
47.5°	1500.1	1507.5	1478.5	1463.2	1461.7	1471.7	1465.3	1473.2	1481.2	1510.1	1501.7
50°	1660.4	1673.0	1653.0	1651.9	1655.1	1673.5	1658.8	1663.0	1654.0	1672.5	1661.4
52.5°	1856.5	1874.9	1871.2	1877.5	1912.9	1950.8	1917.1	1902.3	1868.6	1874.4	1854.9
55°	2094.2	2122.1	2127.4	2165.3	2245.5	2322.9	2251.3	2191.7	2120.0	2106.8	2086.3
57.5°	2364.6	2386.7	2412.0	2489.5	2639.2	2776.8	2639.2	2507.4	2394.6	2367.7	2348.8
60°	2655.5	2682.9	2707.2	2821.6	3044.0	3237.5	3039.8	2830.5	2681.4	2645.0	2613.4
62.5°	2968.1	3003.4	3020.3	3147.3	3406.7	3637.5	3410.3	3156.8	2991.3	2952.3	2920.7
65°	3268.0	3297.0	3316.0	3451.5	3699.2	3930.6	3716.1	3466.2	3296.0	3244.8	3219.5
67.5°	3407.7	3423.5	3469.9	3623.3	3884.7	4148.8	3929.0	3639.6	3449.4	3359.7	3360.8
70°	3203.2	3171.0	3282.8	3528.4	3906.9	4282.7	3957.5	3521.0	3288.1	3142.6	3177.4
72.5°	2475.3	2419.9	2613.9	3034.0	3653.9	4197.3	3679.2	3057.7	2734.6	2439.4	2512.7
75°	1346.7	1284.0	1551.8	2083.1	2913.8	3638.1	2980.8	2142.7	1727.8	1336.7	1423.7
77.5°	380.0	356.3	572.4	1007.8	1752.6	2554.3	1820.1	1030.0	678.9	402.7	447.5
80°	116.5	112.8	152.9	303.6	744.3	1223.4	715.3	307.3	194.5	122.8	129.7
82.5°	69.1	63.3	75.9	110.7	189.8	384.3	184.5	115.4	92.8	62.2	67.5
85°	39.5	36.9	44.8	53.8	63.8	81.7	53.2	54.8	49.5	33.2	34.8
87.5°	16.3	14.8	17.4	16.9	14.8	19.0	14.2	16.9	20.0	13.2	12.1
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)