

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: P882042

Luminaire Tested: **NAV-SB1D-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882042
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9336 lumens
Efficiency: N/A
Efficacy: 117.3 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

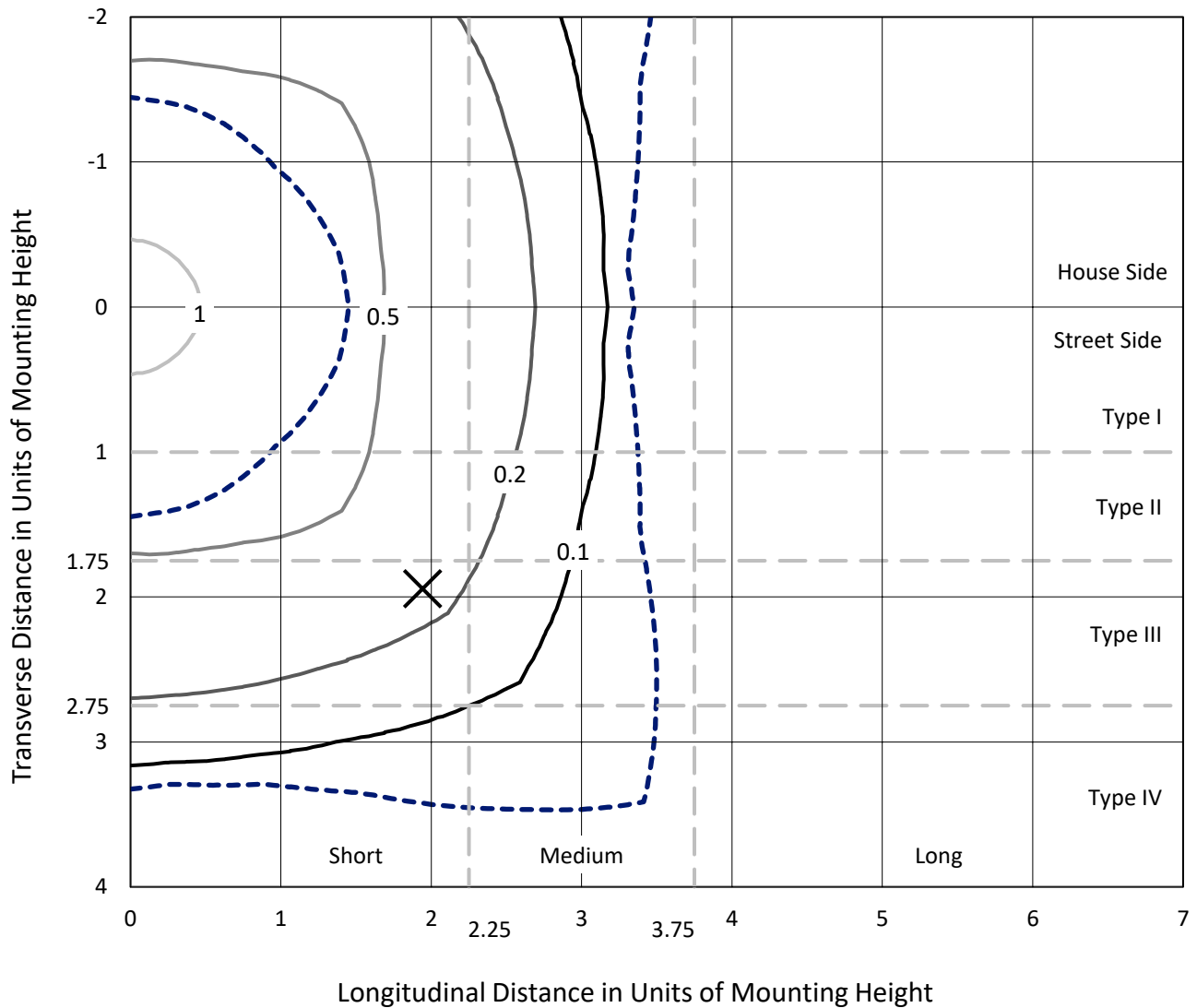
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

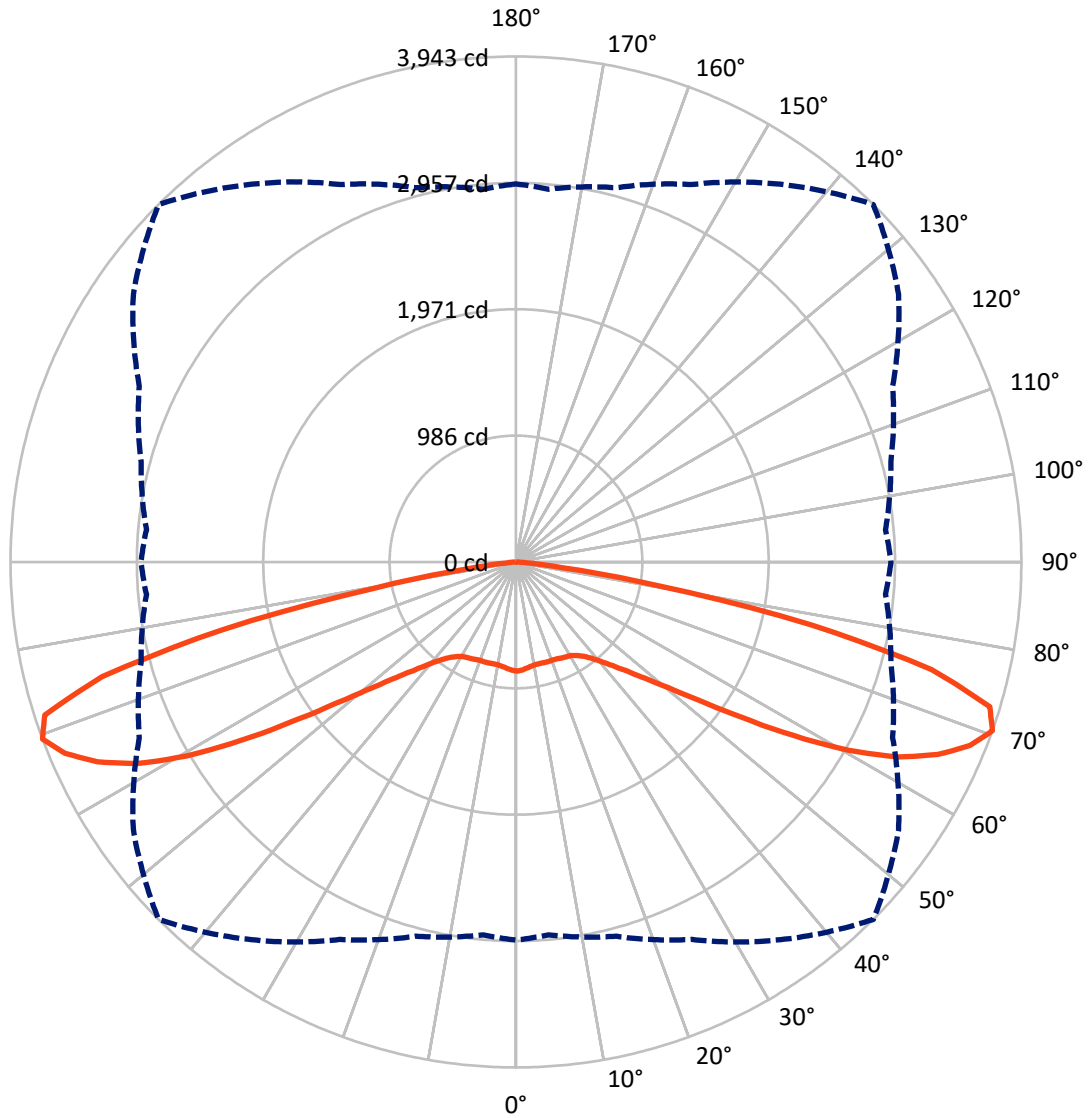
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	4668.0	0.0	4668.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4668.0	0.0	4668.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9336.0	0.0	9336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	0.8
10°-20°	232.6	2.5
20°-30°	387.1	4.1
30°-40°	585.4	6.3
40°-50°	972.8	10.4
50°-60°	1835.7	19.7
60°-70°	3099.6	33.2
70°-80°	2036.8	21.8
80°-90°	106.7	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°	9336.0	100.0
0°-180°	9336.0	100.0

Coefficient of Utilization



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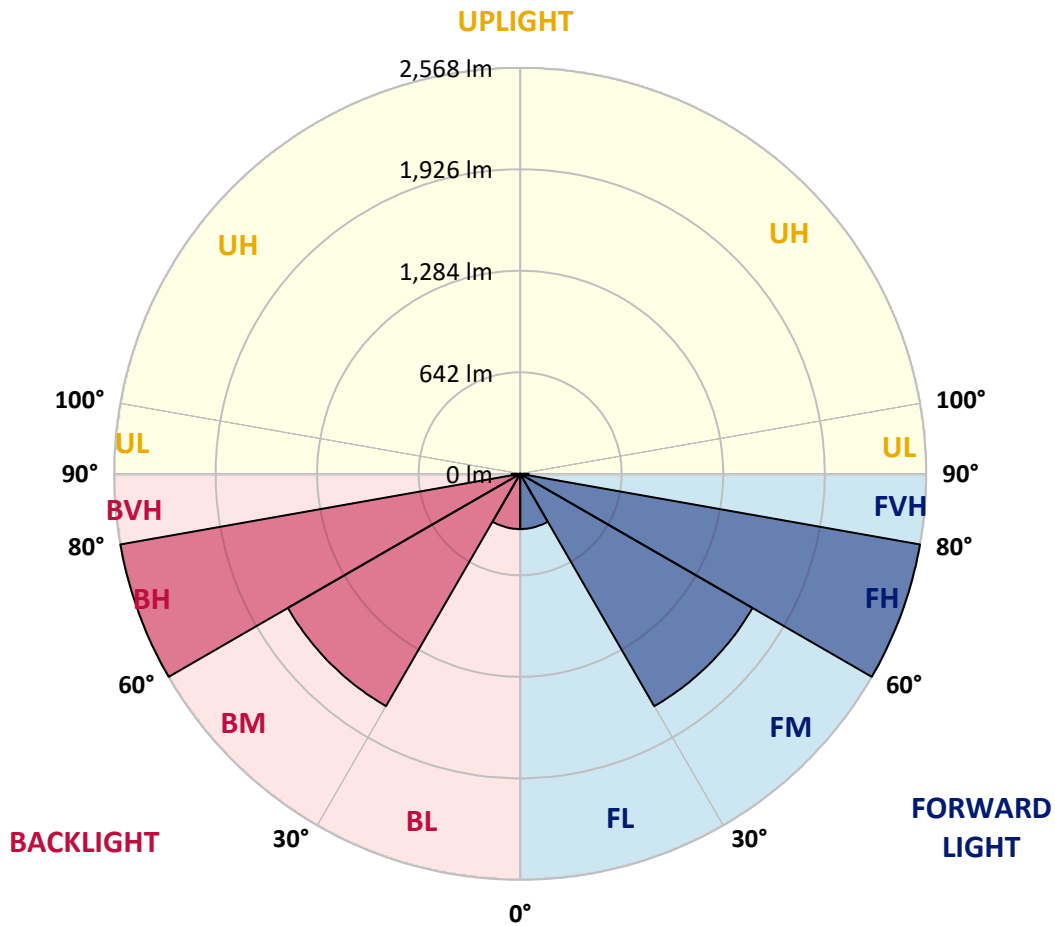
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.5	3.7			
FM (30°-60°)	1697.0	18.2			
FH (60°-80°)	2568.2	27.5			G2/5000
FVH (80°-90°)	53.4	0.6			G1/100
BL (0°-30°)	349.5	3.7	B1/500		
BM (30°-60°)	1697.0	18.2	B2/2500		
BH (60°-80°)	2568.2	27.5	B4/5000		G2/5000
BVH (80°-90°)	53.4	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°	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6
2.5°	846.3	848.7	847.7	845.8	845.8	844.4	845.8	846.8	848.2	849.2	848.7
5°	835.1	837.1	836.6	835.1	835.6	834.2	835.1	836.6	837.6	838.0	838.0
7.5°	825.4	827.4	826.4	824.0	824.0	822.5	823.0	824.5	825.9	826.4	826.4
10°	823.0	824.9	822.0	818.1	816.7	814.8	815.2	816.7	819.6	821.1	821.1
12.5°	824.0	825.4	822.5	816.7	815.2	813.3	813.3	814.8	818.6	820.6	821.1
15°	826.9	828.3	824.0	817.7	816.2	814.8	814.3	816.2	820.6	824.0	824.5
17.5°	832.2	833.7	826.9	818.1	816.2	816.7	816.2	817.7	824.5	830.8	830.8
20°	837.1	838.0	828.8	818.1	816.2	816.7	816.2	819.1	827.9	836.6	837.1
22.5°	838.5	839.5	830.8	821.5	820.1	820.6	820.1	823.0	831.3	840.0	840.0
25°	839.0	840.5	833.7	826.4	828.8	829.8	828.8	829.3	835.6	843.4	842.9
27.5°	846.3	848.2	841.9	835.6	837.1	836.6	838.0	839.5	844.4	852.1	850.2
30°	861.3	862.8	857.5	851.1	850.2	846.8	851.1	856.0	861.3	868.1	866.7
32.5°	886.1	889.0	882.2	875.4	871.0	869.1	872.5	880.7	888.0	895.3	892.4
35°	927.3	929.3	923.0	910.3	902.6	902.6	905.5	916.2	927.8	937.0	933.6
37.5°	985.6	988.0	976.8	961.8	950.1	950.1	954.0	965.2	982.7	995.8	990.9
40°	1056.4	1059.8	1045.7	1030.2	1019.0	1017.1	1022.0	1034.6	1051.1	1067.6	1062.2
42.5°	1141.8	1145.7	1127.3	1113.7	1104.9	1104.9	1107.4	1119.0	1134.1	1154.4	1153.0
45°	1251.0	1257.8	1232.6	1219.0	1210.7	1212.7	1214.1	1224.3	1237.9	1261.2	1260.2
47.5°	1381.0	1387.8	1361.2	1347.1	1345.6	1354.8	1349.0	1356.3	1363.6	1390.3	1382.5
50°	1528.6	1540.2	1521.8	1520.8	1523.7	1540.7	1527.1	1531.0	1522.7	1539.7	1529.5
52.5°	1709.1	1726.1	1722.7	1728.5	1761.0	1795.9	1764.9	1751.3	1720.2	1725.6	1707.6
55°	1927.9	1953.7	1958.5	1993.4	2067.2	2138.5	2072.5	2017.7	1951.7	1939.6	1920.7
57.5°	2176.9	2197.3	2220.5	2291.9	2429.7	2556.3	2429.7	2308.4	2204.5	2179.8	2162.3
60°	2444.7	2470.0	2492.3	2597.6	2802.4	2980.5	2798.5	2605.8	2468.5	2435.0	2405.9
62.5°	2732.5	2765.0	2780.5	2897.5	3136.2	3348.8	3139.6	2906.2	2753.9	2717.9	2688.8
65°	3008.6	3035.3	3052.8	3177.5	3405.6	3618.6	3421.1	3191.1	3034.3	2987.3	2964.0
67.5°	3137.2	3151.8	3194.5	3335.7	3576.4	3819.5	3617.1	3350.7	3175.5	3093.0	3094.0
70°	2948.9	2919.3	3022.2	3248.3	3596.7	3942.7	3643.3	3241.5	3027.1	2893.1	2925.1
72.5°	2278.8	2227.8	2406.4	2793.2	3363.8	3864.1	3387.1	2815.0	2517.5	2245.8	2313.2
75°	1239.8	1182.1	1428.6	1917.7	2682.5	3349.3	2744.1	1972.6	1590.7	1230.6	1310.7
77.5°	349.9	328.0	527.0	927.8	1613.5	2351.6	1675.6	948.2	625.0	370.7	412.0
80°	107.2	103.8	140.7	279.5	685.2	1126.3	658.5	282.9	179.1	113.1	119.4
82.5°	63.6	58.2	69.9	101.9	174.7	353.8	169.8	106.3	85.4	57.3	62.1
85°	36.4	34.0	41.2	49.5	58.7	75.2	49.0	50.5	45.6	30.6	32.0
87.5°	15.0	13.6	16.0	15.5	13.6	17.5	13.1	15.5	18.4	12.1	11.2
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)