

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: P881902

Luminaire Tested: **NAV-SB1C-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881902
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-SB1C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8174 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

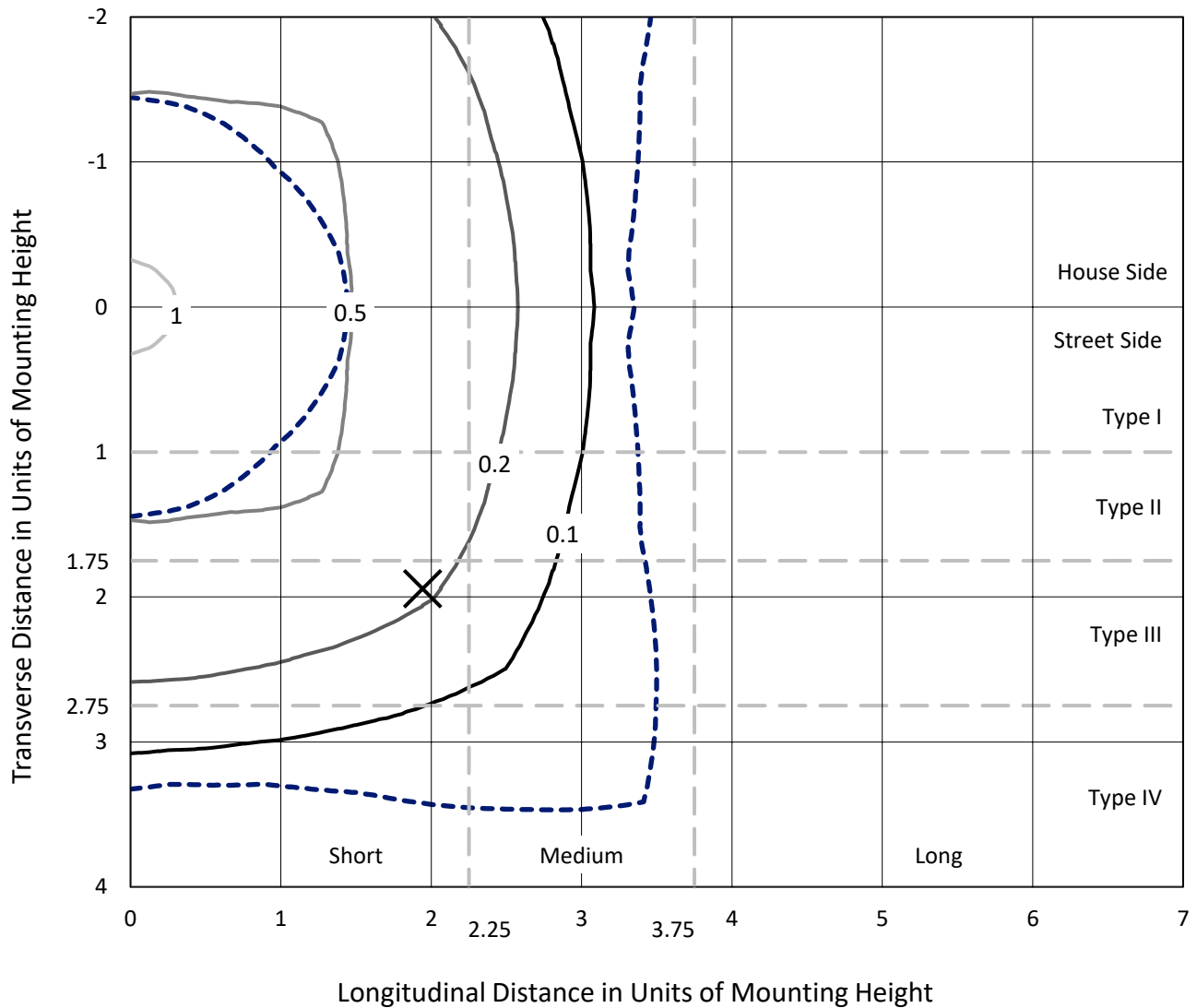
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

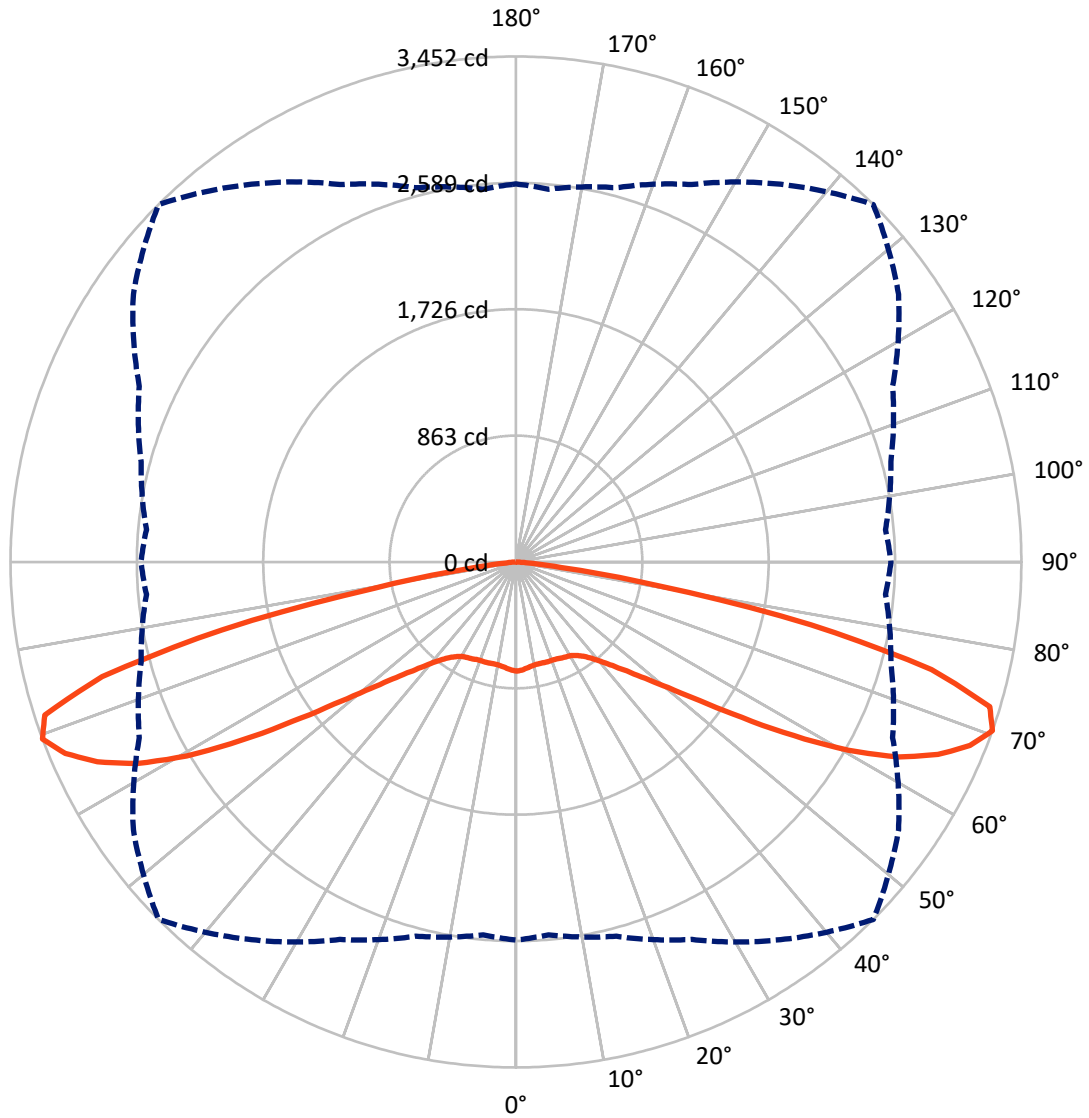
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	4087.0	0.0	4087.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4087.0	0.0	4087.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8174.0	0.0	8174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	0.8
10°-20°	203.7	2.5
20°-30°	338.9	4.1
30°-40°	512.6	6.3
40°-50°	851.7	10.4
50°-60°	1607.2	19.7
60°-70°	2713.9	33.2
70°-80°	1783.3	21.8
80°-90°	93.4	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°	8174.0	100.0
0°-180°	8174.0	100.0

Coefficient of Utilization



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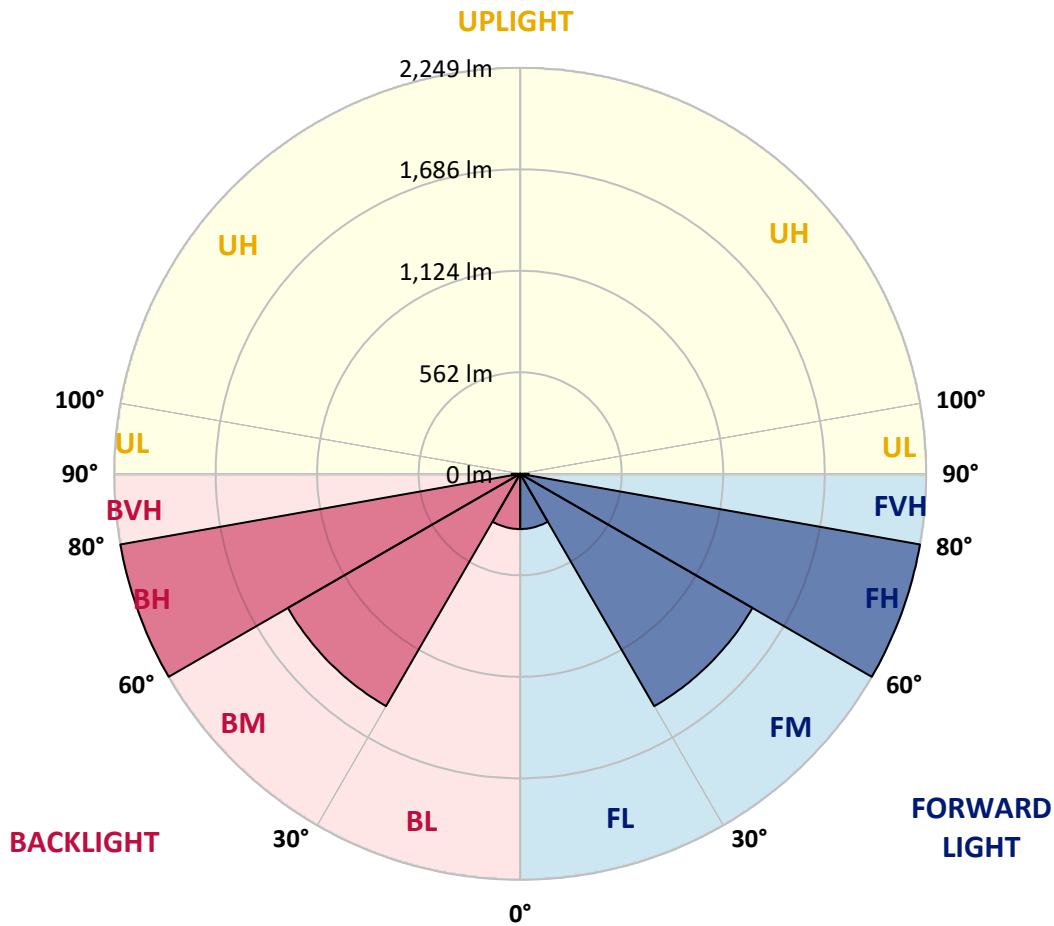
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.0	3.7			
FM (30°-60°)	1485.8	18.2			
FH (60°-80°)	2248.6	27.5			G2/5000
FVH (80°-90°)	46.7	0.6			G1/100
BL (0°-30°)	306.0	3.7	B1/500		
BM (30°-60°)	1485.8	18.2	B2/2500		
BH (60°-80°)	2248.6	27.5	B3/2500		G2/5000
BVH (80°-90°)	46.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6
2.5°	741.0	743.1	742.2	740.5	740.5	739.3	740.5	741.4	742.7	743.5	743.1
5°	731.2	732.9	732.5	731.2	731.6	730.3	731.2	732.5	733.3	733.7	733.7
7.5°	722.7	724.4	723.5	721.4	721.4	720.1	720.6	721.8	723.1	723.5	723.5
10°	720.6	722.3	719.7	716.3	715.0	713.3	713.8	715.0	717.6	718.9	718.9
12.5°	721.4	722.7	720.1	715.0	713.8	712.1	712.1	713.3	716.7	718.4	718.9
15°	724.0	725.2	721.4	715.9	714.6	713.3	712.9	714.6	718.4	721.4	721.8
17.5°	728.6	729.9	724.0	716.3	714.6	715.0	714.6	715.9	721.8	727.4	727.4
20°	732.9	733.7	725.7	716.3	714.6	715.0	714.6	717.2	724.8	732.5	732.9
22.5°	734.2	735.0	727.4	719.3	718.0	718.4	718.0	720.6	727.8	735.4	735.4
25°	734.6	735.9	729.9	723.5	725.7	726.5	725.7	726.1	731.6	738.4	738.0
27.5°	741.0	742.7	737.1	731.6	732.9	732.5	733.7	735.0	739.3	746.1	744.4
30°	754.1	755.4	750.7	745.2	744.4	741.4	745.2	749.5	754.1	760.1	758.8
32.5°	775.8	778.3	772.4	766.5	762.6	760.9	763.9	771.1	777.5	783.9	781.3
35°	811.9	813.6	808.1	797.0	790.2	790.2	792.8	802.1	812.3	820.4	817.4
37.5°	862.9	865.0	855.2	842.1	831.9	831.9	835.3	845.1	860.3	871.8	867.6
40°	924.9	927.9	915.6	902.0	892.2	890.5	894.8	905.8	920.3	934.7	930.0
42.5°	999.7	1003.1	987.0	975.1	967.4	967.4	969.5	979.7	992.9	1010.7	1009.5
45°	1095.3	1101.2	1079.2	1067.3	1060.0	1061.7	1063.0	1071.9	1083.8	1104.2	1103.4
47.5°	1209.2	1215.1	1191.7	1179.4	1178.1	1186.2	1181.1	1187.5	1193.9	1217.2	1210.4
50°	1338.3	1348.5	1332.4	1331.5	1334.1	1348.9	1337.0	1340.4	1333.2	1348.1	1339.2
52.5°	1496.4	1511.2	1508.3	1513.4	1541.8	1572.4	1545.2	1533.3	1506.1	1510.8	1495.1
55°	1688.0	1710.5	1714.7	1745.3	1809.9	1872.4	1814.6	1766.6	1708.8	1698.2	1681.6
57.5°	1905.9	1923.8	1944.2	2006.6	2127.3	2238.2	2127.3	2021.1	1930.1	1908.5	1893.2
60°	2140.5	2162.5	2182.1	2274.3	2453.6	2609.5	2450.2	2281.5	2161.3	2132.0	2106.5
62.5°	2392.4	2420.9	2434.5	2536.9	2745.9	2932.0	2748.9	2544.5	2411.1	2379.7	2354.2
65°	2634.1	2657.5	2672.8	2782.0	2981.7	3168.2	2995.3	2793.9	2656.7	2615.5	2595.1
67.5°	2746.7	2759.5	2796.9	2920.5	3131.2	3344.1	3166.9	2933.7	2780.3	2708.1	2708.9
70°	2581.9	2556.0	2646.0	2844.0	3149.1	3452.0	3189.9	2838.1	2650.3	2533.0	2561.1
72.5°	1995.2	1950.5	2106.9	2445.5	2945.1	3383.2	2965.5	2464.6	2204.2	1966.3	2025.3
75°	1085.5	1035.0	1250.8	1679.1	2348.6	2932.4	2402.6	1727.1	1392.7	1077.5	1147.6
77.5°	306.3	287.2	461.4	812.3	1412.7	2058.9	1467.0	830.2	547.2	324.6	360.7
80°	93.9	90.9	123.2	244.7	599.9	986.1	576.5	247.7	156.8	99.0	104.5
82.5°	55.7	51.0	61.2	89.2	153.0	309.7	148.7	93.0	74.8	50.1	54.4
85°	31.9	29.7	36.1	43.3	51.4	65.9	42.9	44.2	39.9	26.8	28.0
87.5°	13.2	11.9	14.0	13.6	11.9	15.3	11.5	13.6	16.1	10.6	9.8
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)