

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: P881872

Luminaire Tested: **NAV-SB1C-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881872
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6871 lumens
Efficiency: N/A
Efficacy: 126.3 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

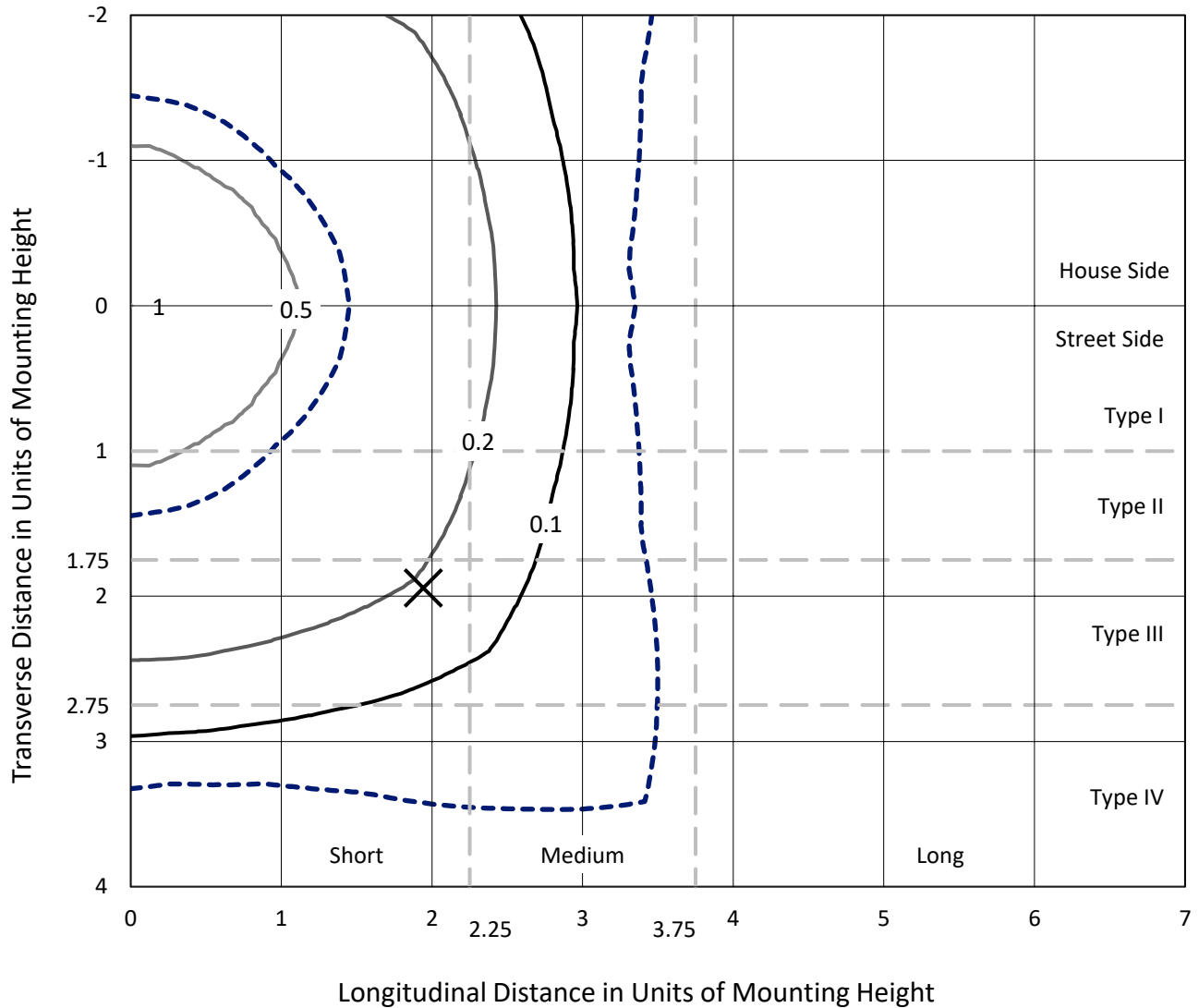
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

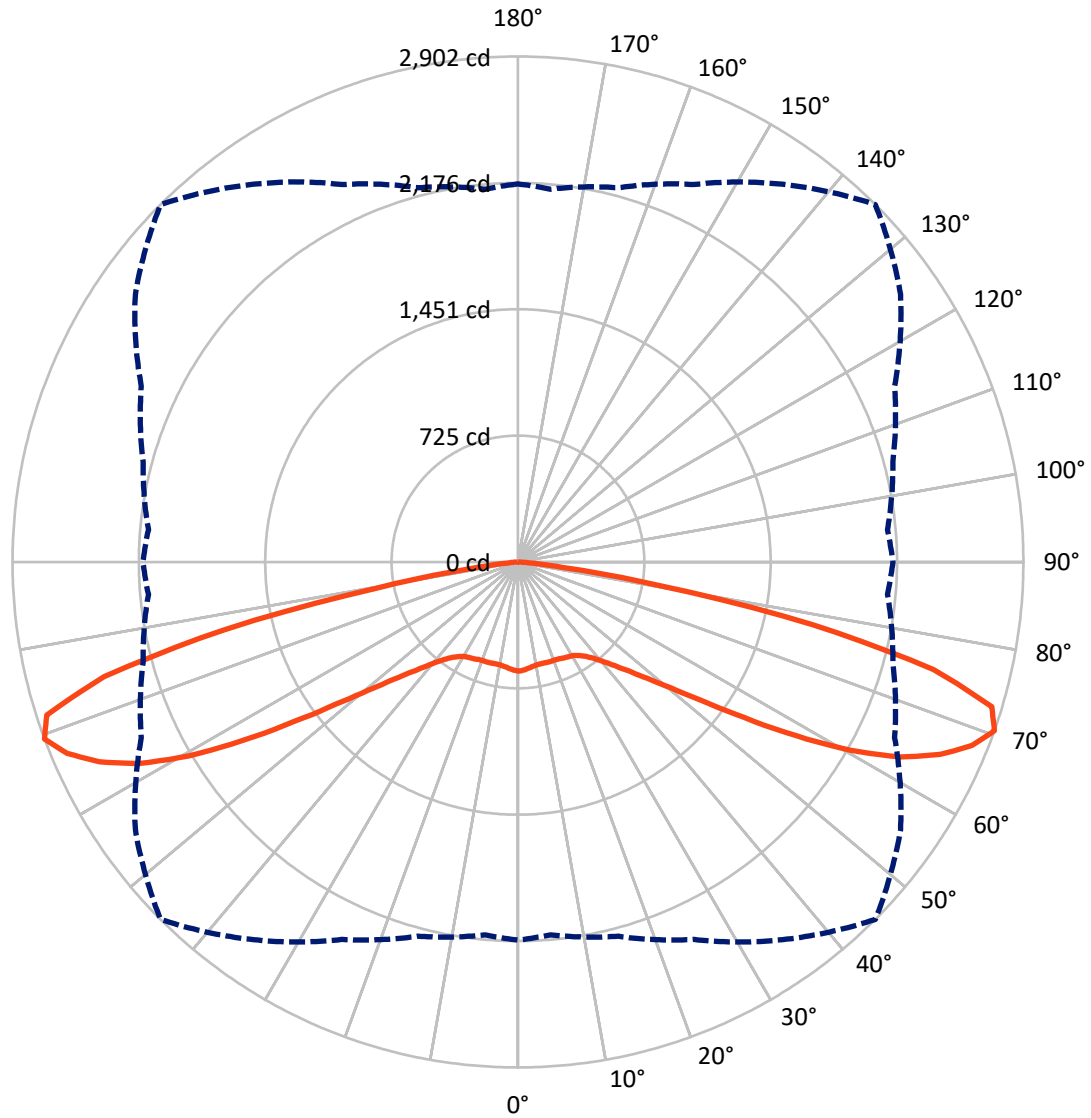
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	3435.5	0.0	3435.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3435.5	0.0	3435.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6871.0	0.0	6871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	0.8
10°-20°	171.2	2.5
20°-30°	284.9	4.1
30°-40°	430.8	6.3
40°-50°	716.0	10.4
50°-60°	1351.0	19.7
60°-70°	2281.2	33.2
70°-80°	1499.0	21.8
80°-90°	78.5	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°	6871.0	100.0
0°-180°	6871.0	100.0

Coefficient of Utilization



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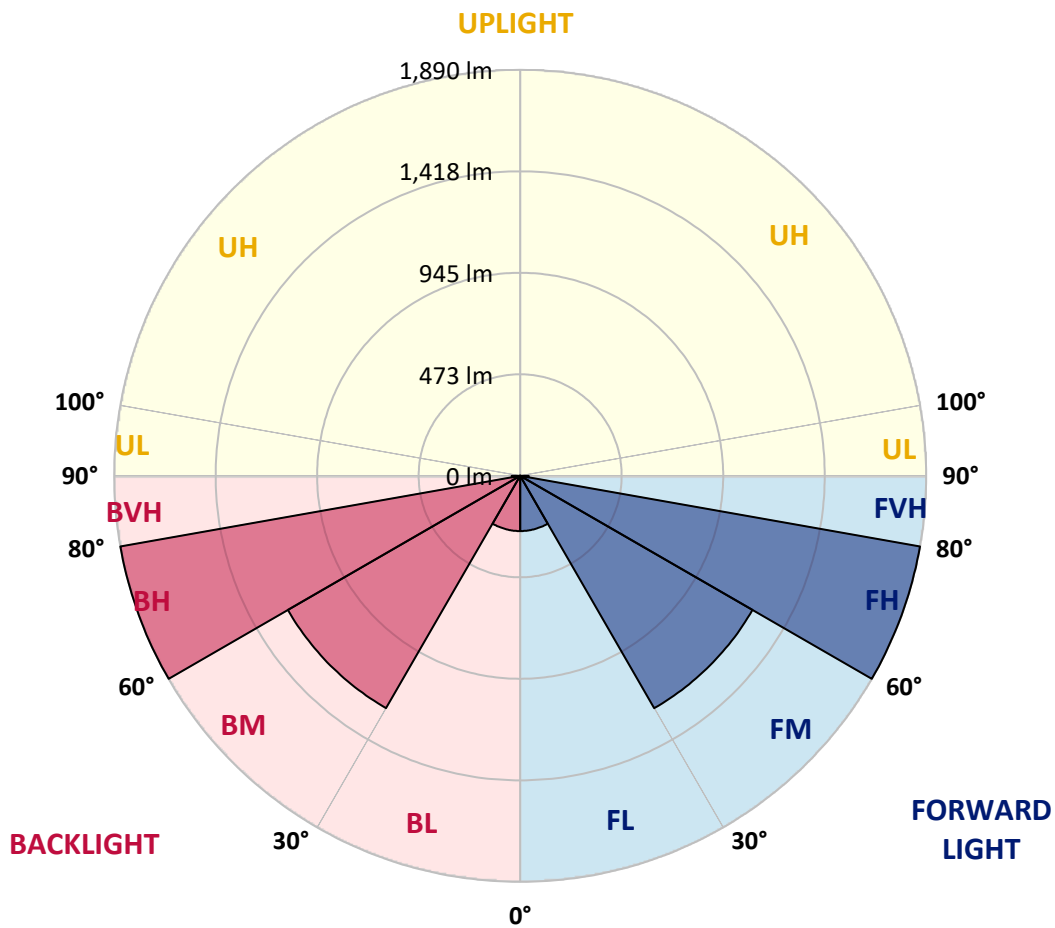
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.2	3.7			
FM (30°-60°)	1248.9	18.2			
FH (60°-80°)	1890.1	27.5			G2/5000
FVH (80°-90°)	39.3	0.6			G1/100
BL (0°-30°)	257.2	3.7	B1/500		
BM (30°-60°)	1248.9	18.2	B2/2500		
BH (60°-80°)	1890.1	27.5	B3/2500		G2/5000
BVH (80°-90°)	39.3	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°	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8
2.5°	622.8	624.6	623.9	622.5	622.5	621.4	622.5	623.2	624.3	625.0	624.6
5°	614.6	616.1	615.7	614.6	615.0	613.9	614.6	615.7	616.4	616.8	616.8
7.5°	607.5	608.9	608.2	606.4	606.4	605.3	605.7	606.8	607.8	608.2	608.2
10°	605.7	607.1	605.0	602.1	601.1	599.6	600.0	601.1	603.2	604.3	604.3
12.5°	606.4	607.5	605.3	601.1	600.0	598.6	598.6	599.6	602.5	603.9	604.3
15°	608.6	609.6	606.4	601.8	600.7	599.6	599.3	600.7	603.9	606.4	606.8
17.5°	612.5	613.6	608.6	602.1	600.7	601.1	600.7	601.8	606.8	611.4	611.4
20°	616.1	616.8	610.0	602.1	600.7	601.1	600.7	602.8	609.3	615.7	616.1
22.5°	617.1	617.8	611.4	604.6	603.6	603.9	603.6	605.7	611.8	618.2	618.2
25°	617.5	618.6	613.6	608.2	610.0	610.7	610.0	610.3	615.0	620.7	620.3
27.5°	622.8	624.3	619.6	615.0	616.1	615.7	616.8	617.8	621.4	627.1	625.7
30°	633.9	635.0	631.1	626.4	625.7	623.2	626.4	630.0	633.9	638.9	637.8
32.5°	652.1	654.3	649.3	644.3	641.1	639.6	642.1	648.2	653.6	658.9	656.8
35°	682.5	683.9	679.3	670.0	664.3	664.3	666.4	674.3	682.8	689.6	687.1
37.5°	725.3	727.1	718.9	707.8	699.3	699.3	702.1	710.3	723.2	732.8	729.3
40°	777.5	780.0	769.6	758.2	750.0	748.6	752.1	761.4	773.6	785.7	781.8
42.5°	840.3	843.2	829.6	819.6	813.2	813.2	815.0	823.6	834.6	849.6	848.6
45°	920.7	925.7	907.1	897.1	891.1	892.5	893.6	901.1	911.1	928.2	927.5
47.5°	1016.4	1021.4	1001.8	991.4	990.3	997.1	992.8	998.2	1003.6	1023.2	1017.5
50°	1125.0	1133.5	1120.0	1119.3	1121.4	1133.9	1123.9	1126.8	1120.7	1133.2	1125.7
52.5°	1257.8	1270.3	1267.8	1272.1	1296.0	1321.8	1298.9	1288.9	1266.0	1270.0	1256.8
55°	1418.9	1437.8	1441.4	1467.1	1521.4	1573.9	1525.3	1485.0	1436.4	1427.5	1413.5
57.5°	1602.1	1617.1	1634.3	1686.8	1788.2	1881.4	1788.2	1698.9	1622.5	1604.3	1591.4
60°	1799.3	1817.8	1834.3	1911.7	2062.5	2193.5	2059.6	1917.8	1816.8	1792.1	1770.7
62.5°	2011.0	2035.0	2046.4	2132.5	2308.2	2464.6	2310.7	2138.9	2026.7	2000.3	1978.9
65°	2214.2	2233.9	2246.7	2338.5	2506.4	2663.2	2517.8	2348.5	2233.2	2198.5	2181.4
67.5°	2308.9	2319.6	2351.0	2455.0	2632.1	2811.0	2662.1	2466.0	2337.1	2276.4	2277.1
70°	2170.3	2148.5	2224.2	2390.7	2647.1	2901.7	2681.4	2385.7	2227.8	2129.2	2152.8
72.5°	1677.1	1639.6	1771.0	2055.7	2475.7	2843.9	2492.8	2071.7	1852.8	1652.8	1702.5
75°	912.5	870.0	1051.4	1411.4	1974.2	2465.0	2019.6	1451.8	1170.7	905.7	964.6
77.5°	257.5	241.4	387.8	682.8	1187.5	1730.7	1233.2	697.8	460.0	272.9	303.2
80°	78.9	76.4	103.6	205.7	504.3	828.9	484.6	208.2	131.8	83.2	87.9
82.5°	46.8	42.9	51.4	75.0	128.6	260.4	125.0	78.2	62.9	42.1	45.7
85°	26.8	25.0	30.4	36.4	43.2	55.4	36.1	37.1	33.6	22.5	23.6
87.5°	11.1	10.0	11.8	11.4	10.0	12.9	9.6	11.4	13.6	8.9	8.2
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)