

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: P882222

Luminaire Tested: **NAV-SB2A-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882222
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-SB2A-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9103 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

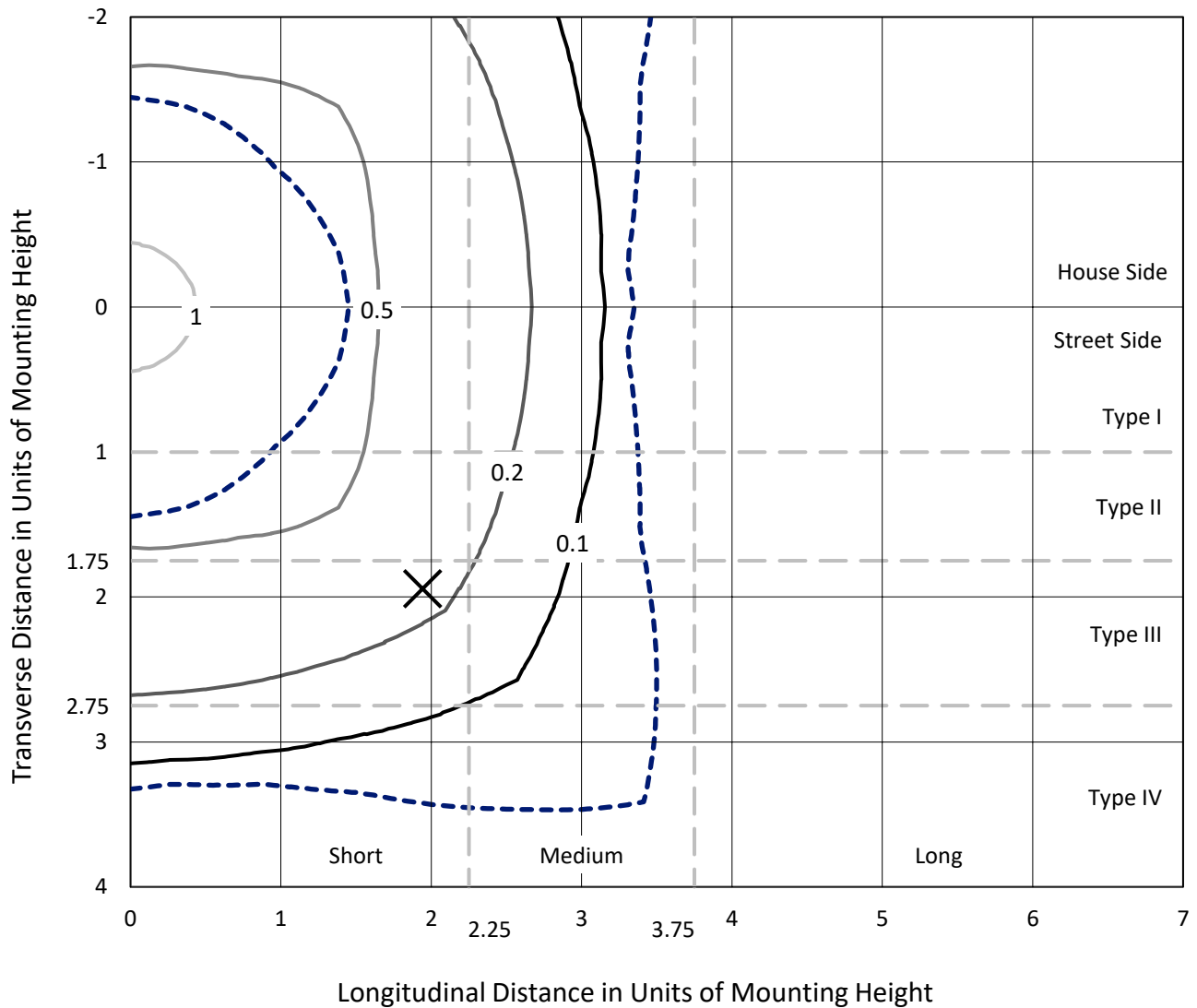
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

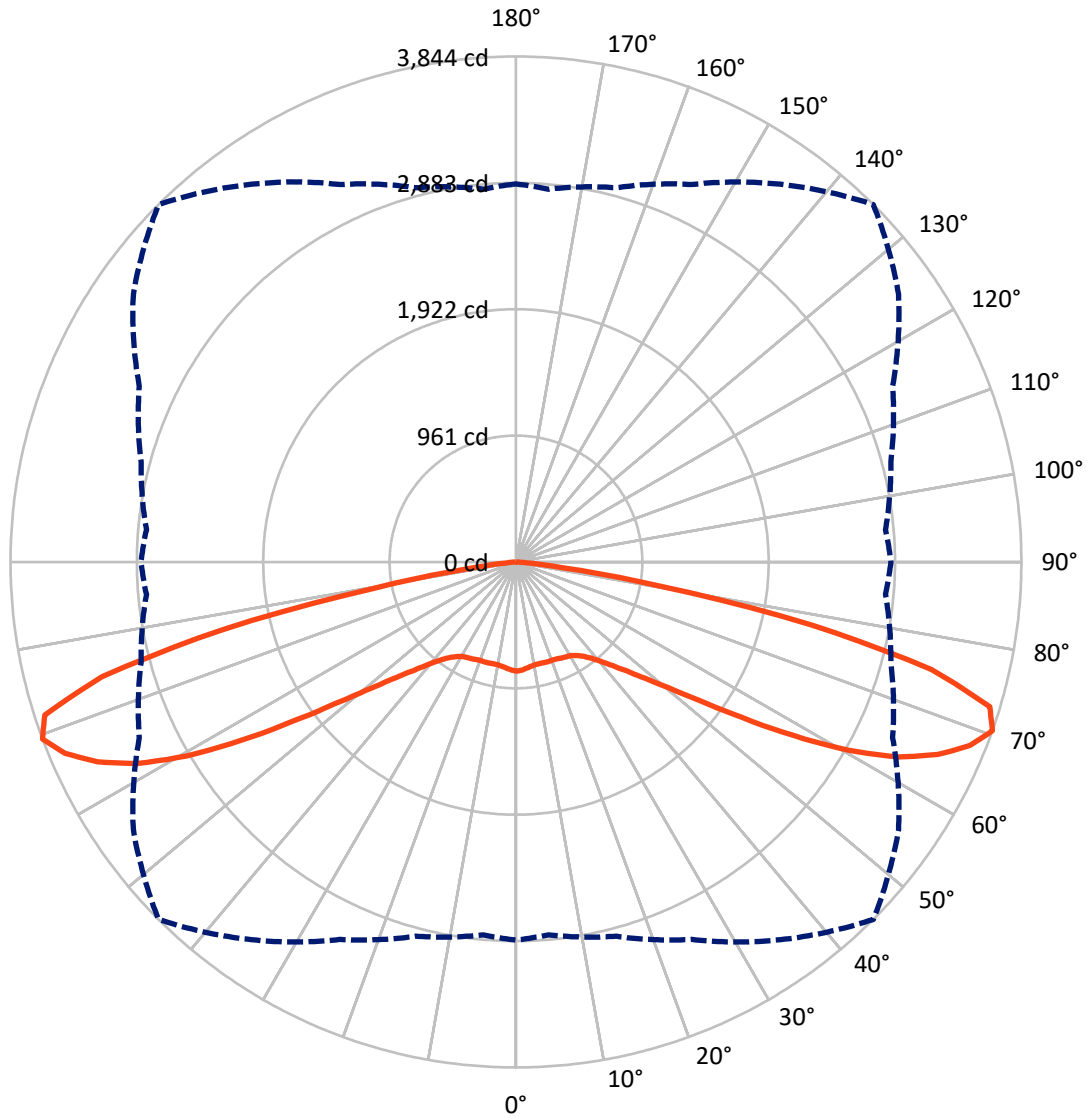
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4551.5	0.0	4551.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4551.5	0.0	4551.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9103.0	0.0	9103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	0.8
10°-20°	226.8	2.5
20°-30°	377.4	4.1
30°-40°	570.8	6.3
40°-50°	948.5	10.4
50°-60°	1789.9	19.7
60°-70°	3022.3	33.2
70°-80°	1986.0	21.8
80°-90°	104.0	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°	9103.0	100.0
0°-180°	9103.0	100.0

Coefficient of Utilization



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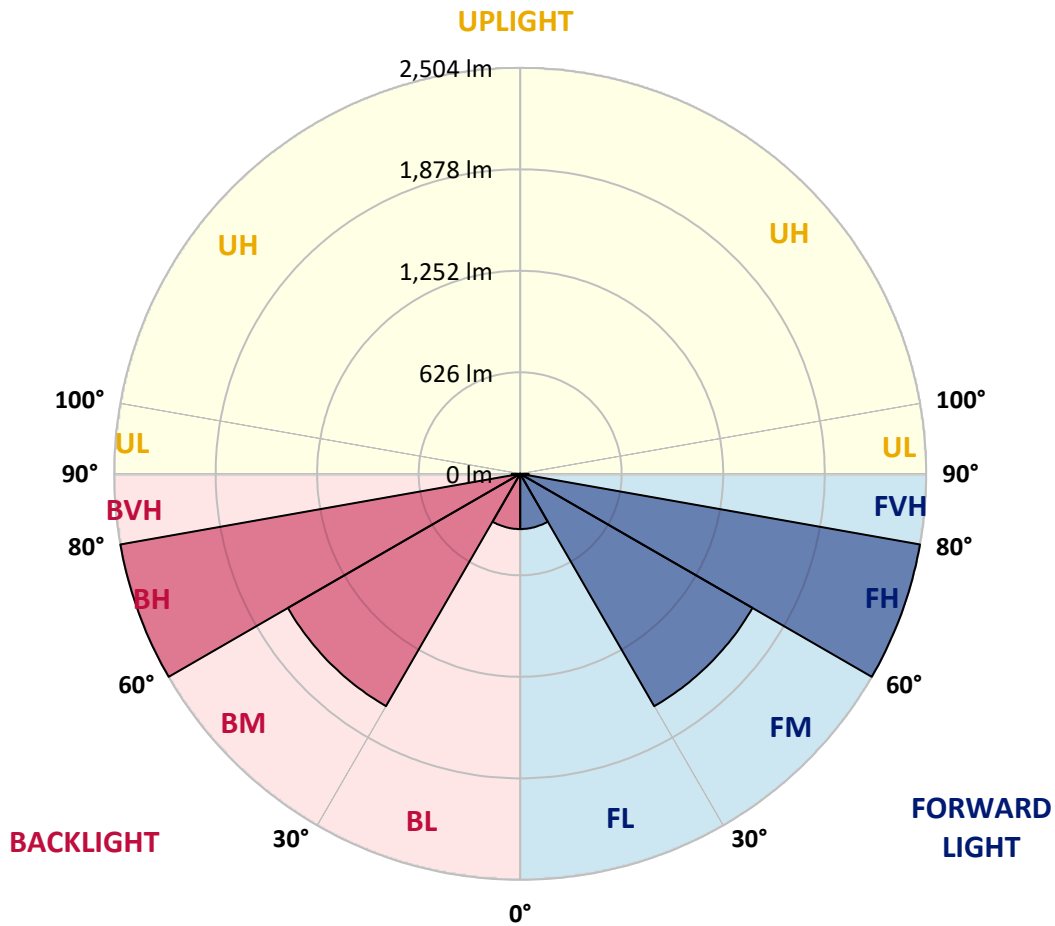
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.7	3.7			
FM (30°-60°)	1654.6	18.2			
FH (60°-80°)	2504.1	27.5			G2/5000
FVH (80°-90°)	52.0	0.6			G1/100
BL (0°-30°)	340.7	3.7	B1/500		
BM (30°-60°)	1654.6	18.2	B2/2500		
BH (60°-80°)	2504.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	52.0	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°	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4
2.5°	825.2	827.5	826.6	824.7	824.7	823.3	824.7	825.6	827.1	828.0	827.5
5°	814.3	816.2	815.7	814.3	814.8	813.3	814.3	815.7	816.7	817.1	817.1
7.5°	804.8	806.7	805.8	803.4	803.4	802.0	802.5	803.9	805.3	805.8	805.8
10°	802.5	804.4	801.5	797.7	796.3	794.4	794.9	796.3	799.1	800.6	800.6
12.5°	803.4	804.8	802.0	796.3	794.9	793.0	793.0	794.4	798.2	800.1	800.6
15°	806.2	807.7	803.4	797.3	795.8	794.4	793.9	795.8	800.1	803.4	803.9
17.5°	811.5	812.9	806.2	797.7	795.8	796.3	795.8	797.3	803.9	810.0	810.0
20°	816.2	817.1	808.1	797.7	795.8	796.3	795.8	798.7	807.2	815.7	816.2
22.5°	817.6	818.5	810.0	801.0	799.6	800.1	799.6	802.5	810.5	819.0	819.0
25°	818.1	819.5	812.9	805.8	808.1	809.1	808.1	808.6	814.8	822.3	821.9
27.5°	825.2	827.1	820.9	814.8	816.2	815.7	817.1	818.5	823.3	830.9	829.0
30°	839.8	841.3	836.1	829.9	829.0	825.6	829.9	834.6	839.8	846.5	845.0
32.5°	864.0	866.8	860.2	853.6	849.3	847.4	850.7	858.8	865.9	873.0	870.1
35°	904.2	906.1	899.9	887.6	880.1	880.1	882.9	893.3	904.7	913.7	910.3
37.5°	961.0	963.3	952.4	937.8	926.4	926.4	930.2	941.1	958.1	970.9	966.2
40°	1030.0	1033.4	1019.6	1004.5	993.6	991.7	996.5	1008.8	1024.8	1040.9	1035.7
42.5°	1113.3	1117.1	1099.1	1085.9	1077.4	1077.4	1079.7	1091.1	1105.7	1125.6	1124.2
45°	1219.8	1226.4	1201.8	1188.6	1180.5	1182.4	1183.8	1193.8	1207.0	1229.7	1228.8
47.5°	1346.6	1353.2	1327.2	1313.5	1312.0	1321.0	1315.4	1322.5	1329.5	1355.6	1348.0
50°	1490.4	1501.8	1483.8	1482.8	1485.7	1502.2	1489.0	1492.8	1484.7	1501.3	1491.4
52.5°	1666.4	1683.0	1679.7	1685.4	1717.1	1751.1	1720.8	1707.6	1677.3	1682.5	1665.0
55°	1879.8	1904.9	1909.6	1943.7	2015.6	2085.2	2020.8	1967.4	1903.0	1891.2	1872.7
57.5°	2122.5	2142.4	2165.1	2234.7	2369.1	2492.6	2369.1	2250.8	2149.5	2125.4	2108.4
60°	2383.7	2408.3	2430.1	2532.8	2732.4	2906.1	2728.7	2540.8	2406.9	2374.3	2345.9
62.5°	2664.3	2696.0	2711.1	2825.2	3058.0	3265.2	3061.3	2833.7	2685.1	2650.1	2621.7
65°	2933.5	2959.5	2976.6	3098.2	3320.6	3528.3	3335.7	3111.4	2958.6	2912.7	2890.0
67.5°	3058.9	3073.1	3114.7	3252.4	3487.1	3724.2	3526.9	3267.1	3096.3	3015.9	3016.8
70°	2875.3	2846.5	2946.8	3167.3	3507.0	3844.3	3552.4	3160.6	2951.5	2820.9	2852.1
72.5°	2221.9	2172.2	2346.3	2723.4	3279.9	3767.7	3302.6	2744.7	2454.7	2189.7	2255.5
75°	1208.9	1152.6	1393.0	1869.9	2615.6	3265.7	2675.7	1923.4	1551.0	1199.9	1278.0
77.5°	341.1	319.8	513.8	904.7	1573.2	2292.9	1633.8	924.5	609.4	361.5	401.7
80°	104.6	101.3	137.2	272.5	668.1	1098.2	642.1	275.8	174.6	110.2	116.4
82.5°	62.0	56.8	68.1	99.4	170.3	344.9	165.6	103.6	83.3	55.8	60.6
85°	35.5	33.1	40.2	48.3	57.3	73.3	47.8	49.2	44.5	29.8	31.2
87.5°	14.7	13.2	15.6	15.1	13.2	17.0	12.8	15.1	18.0	11.8	10.9
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)