

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: P881882

Luminaire Tested: **NAV-SB1C-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881882
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7463 lumens
Efficiency: N/A
Efficacy: 137.2 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

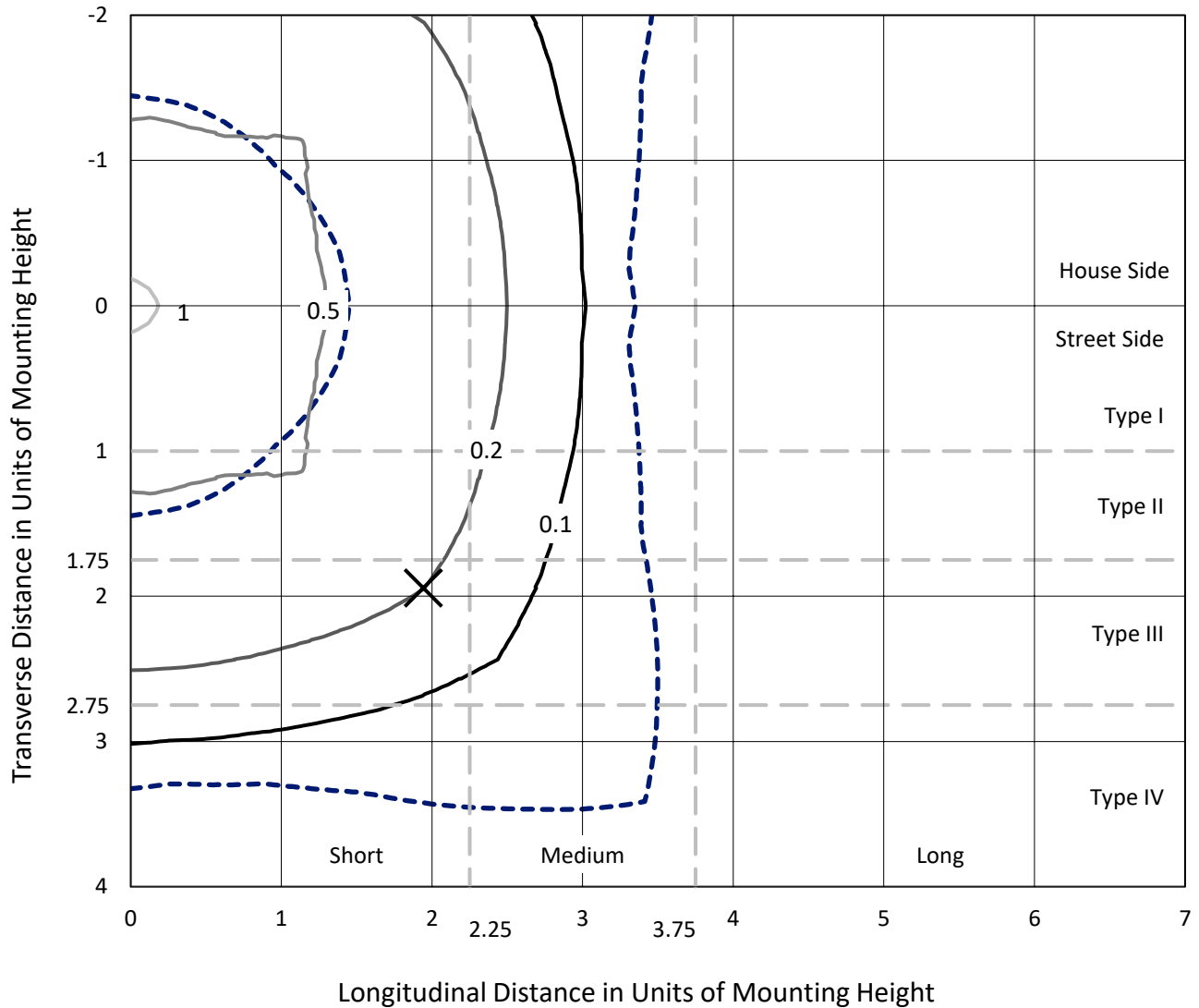
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

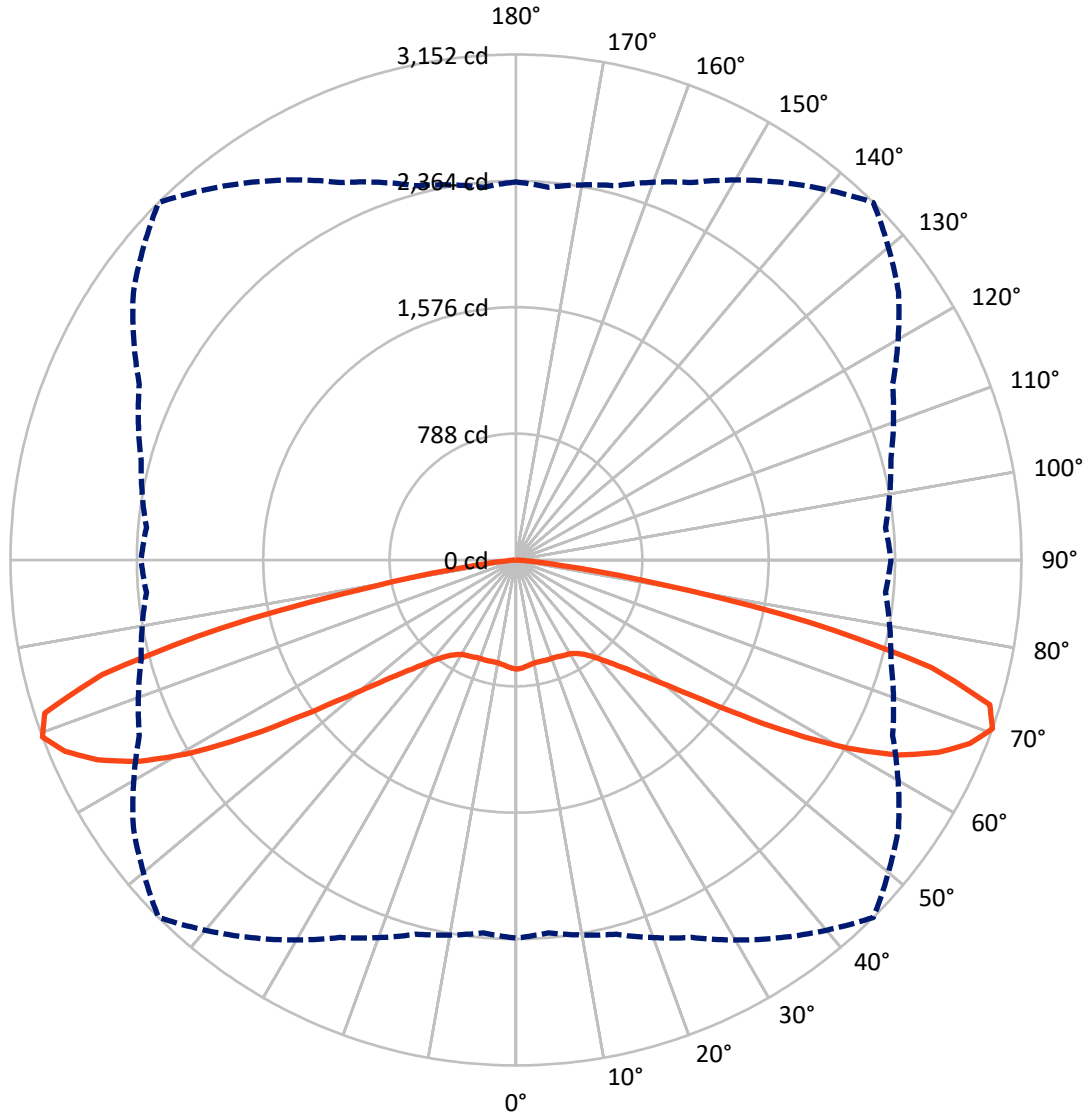
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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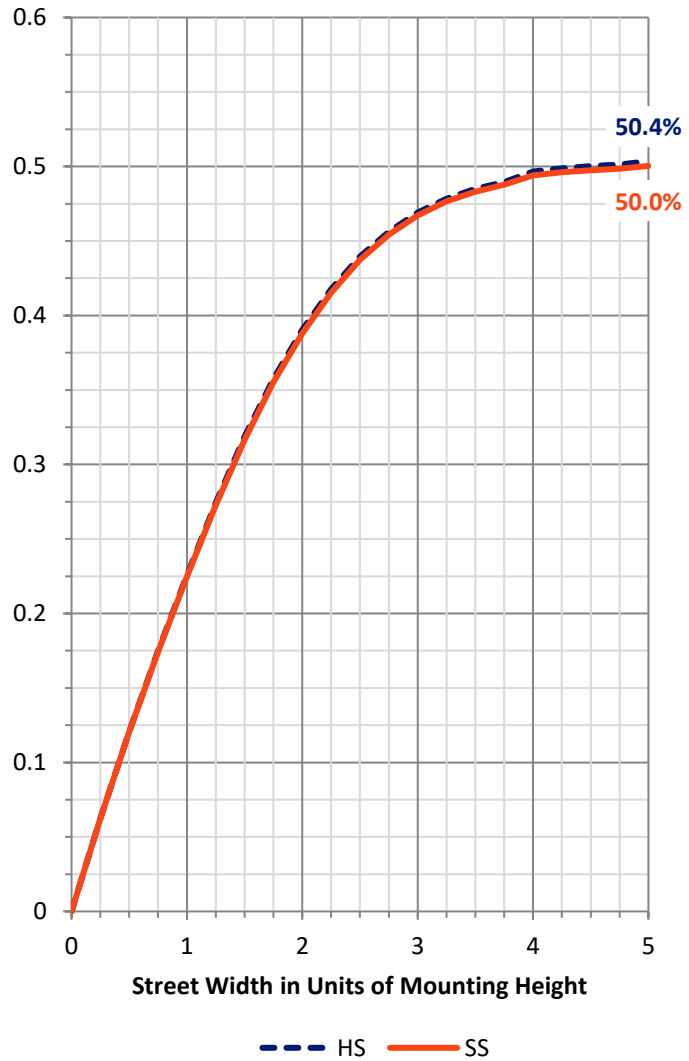
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3731.5	0.0	3731.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3731.5	0.0	3731.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7463.0	0.0	7463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	0.8
10°-20°	185.9	2.5
20°-30°	309.4	4.1
30°-40°	468.0	6.3
40°-50°	777.7	10.4
50°-60°	1467.4	19.7
60°-70°	2477.8	33.2
70°-80°	1628.2	21.8
80°-90°	85.3	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°	7463.0	100.0
0°-180°	7463.0	100.0

Coefficient of Utilization



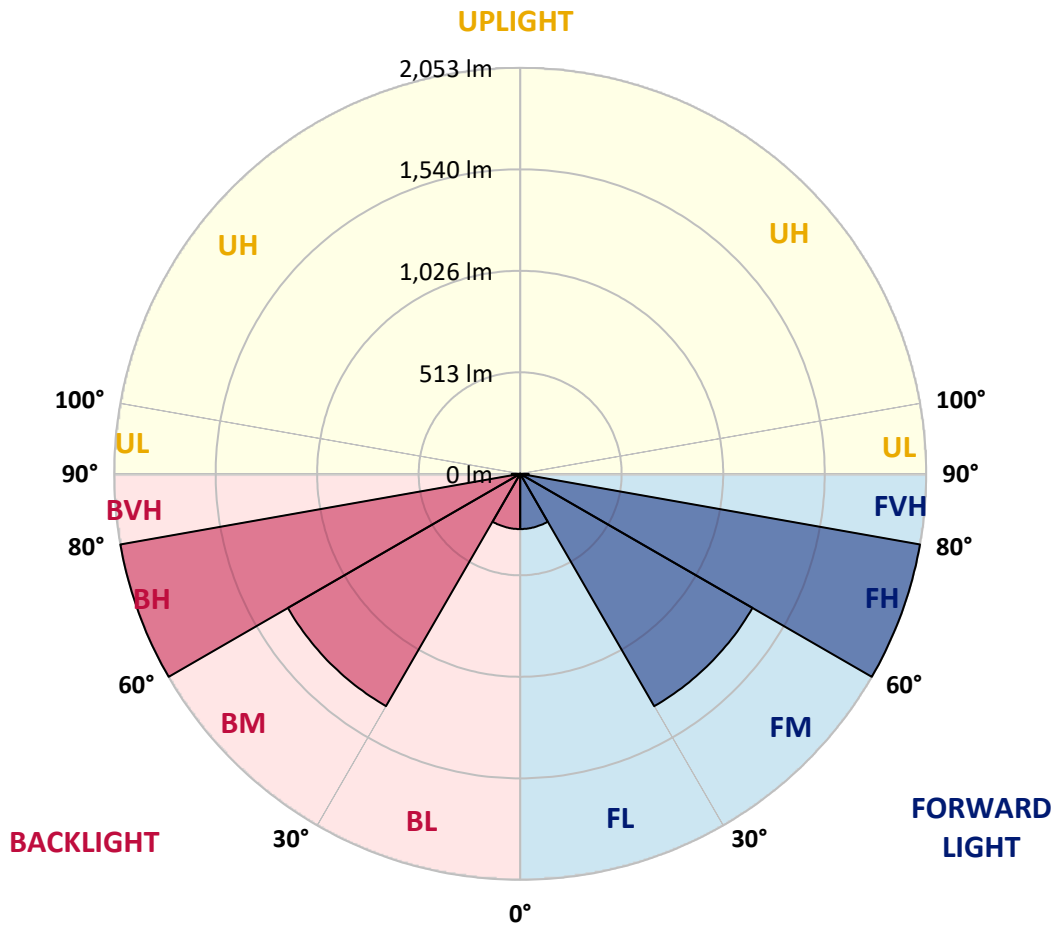
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.4	3.7			
FM (30°-60°)	1356.5	18.2			
FH (60°-80°)	2053.0	27.5			G2/5000
FVH (80°-90°)	42.7	0.6			G1/100
BL (0°-30°)	279.4	3.7	B1/500		
BM (30°-60°)	1356.5	18.2	B2/2500		
BH (60°-80°)	2053.0	27.5	B3/2500		G2/5000
BVH (80°-90°)	42.7	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°	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8
2.5°	676.5	678.4	677.7	676.1	676.1	675.0	676.1	676.9	678.1	678.8	678.4
5°	667.6	669.1	668.8	667.6	668.0	666.8	667.6	668.8	669.5	669.9	669.9
7.5°	659.8	661.4	660.6	658.7	658.7	657.5	657.9	659.1	660.2	660.6	660.6
10°	657.9	659.4	657.1	654.0	652.8	651.3	651.7	652.8	655.2	656.3	656.3
12.5°	658.7	659.8	657.5	652.8	651.7	650.1	650.1	651.3	654.4	655.9	656.3
15°	661.0	662.2	658.7	653.6	652.5	651.3	650.9	652.5	655.9	658.7	659.1
17.5°	665.3	666.4	661.0	654.0	652.5	652.8	652.5	653.6	659.1	664.1	664.1
20°	669.1	669.9	662.5	654.0	652.5	652.8	652.5	654.8	661.8	668.8	669.1
22.5°	670.3	671.1	664.1	656.7	655.6	655.9	655.6	657.9	664.5	671.5	671.5
25°	670.7	671.9	666.4	660.6	662.5	663.3	662.5	662.9	668.0	674.2	673.8
27.5°	676.5	678.1	673.0	668.0	669.1	668.8	669.9	671.1	675.0	681.2	679.6
30°	688.5	689.7	685.4	680.4	679.6	676.9	680.4	684.3	688.5	694.0	692.8
32.5°	708.3	710.6	705.2	699.8	696.3	694.7	697.5	704.1	709.9	715.7	713.4
35°	741.3	742.8	737.8	727.7	721.5	721.5	723.8	732.4	741.7	749.0	746.3
37.5°	787.8	789.8	780.9	768.8	759.5	759.5	762.6	771.5	785.5	796.0	792.1
40°	844.5	847.2	835.9	823.5	814.6	813.1	816.9	827.0	840.2	853.4	849.1
42.5°	912.7	915.8	901.1	890.2	883.3	883.3	885.2	894.5	906.5	922.8	921.7
45°	1000.0	1005.5	985.3	974.4	967.8	969.4	970.5	978.7	989.5	1008.2	1007.4
47.5°	1104.0	1109.4	1088.1	1076.8	1075.7	1083.0	1078.4	1084.2	1090.0	1111.4	1105.1
50°	1221.9	1231.2	1216.5	1215.7	1218.0	1231.6	1220.7	1223.8	1217.3	1230.8	1222.7
52.5°	1366.2	1379.8	1377.1	1381.7	1407.7	1435.6	1410.8	1400.0	1375.1	1379.4	1365.0
55°	1541.2	1561.7	1565.6	1593.5	1652.5	1709.5	1656.7	1612.9	1560.2	1550.5	1535.3
57.5°	1740.1	1756.4	1775.1	1832.1	1942.2	2043.5	1942.2	1845.3	1762.3	1742.5	1728.5
60°	1954.3	1974.4	1992.3	2076.5	2240.2	2382.5	2237.1	2083.1	1973.3	1946.5	1923.2
62.5°	2184.3	2210.3	2222.7	2316.2	2507.0	2676.9	2509.8	2323.2	2201.4	2172.7	2149.4
65°	2405.0	2426.4	2440.3	2540.0	2722.3	2892.6	2734.7	2550.9	2425.6	2388.0	2369.3
67.5°	2507.8	2519.5	2553.6	2666.5	2858.9	3053.2	2891.5	2678.5	2538.5	2472.5	2473.3
70°	2357.3	2333.6	2415.9	2596.6	2875.2	3151.7	2912.4	2591.2	2419.8	2312.7	2338.3
72.5°	1821.6	1780.9	1923.6	2232.8	2689.0	3088.9	2707.6	2250.2	2012.5	1795.2	1849.2
75°	991.1	944.9	1142.0	1533.0	2144.3	2677.3	2193.6	1576.8	1271.6	983.7	1047.7
77.5°	279.7	262.2	421.3	741.7	1289.8	1879.8	1339.4	758.0	499.6	296.4	329.3
80°	85.7	83.0	112.5	223.4	547.7	900.3	526.4	226.1	143.1	90.4	95.4
82.5°	50.8	46.5	55.9	81.5	139.6	282.8	135.8	85.0	68.3	45.8	49.7
85°	29.1	27.2	33.0	39.6	46.9	60.1	39.2	40.3	36.5	24.4	25.6
87.5°	12.0	10.9	12.8	12.4	10.9	14.0	10.5	12.4	14.7	9.7	8.9
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)