

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: P882562

Luminaire Tested: **NAV-SB2C-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882562  
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-SB2C-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

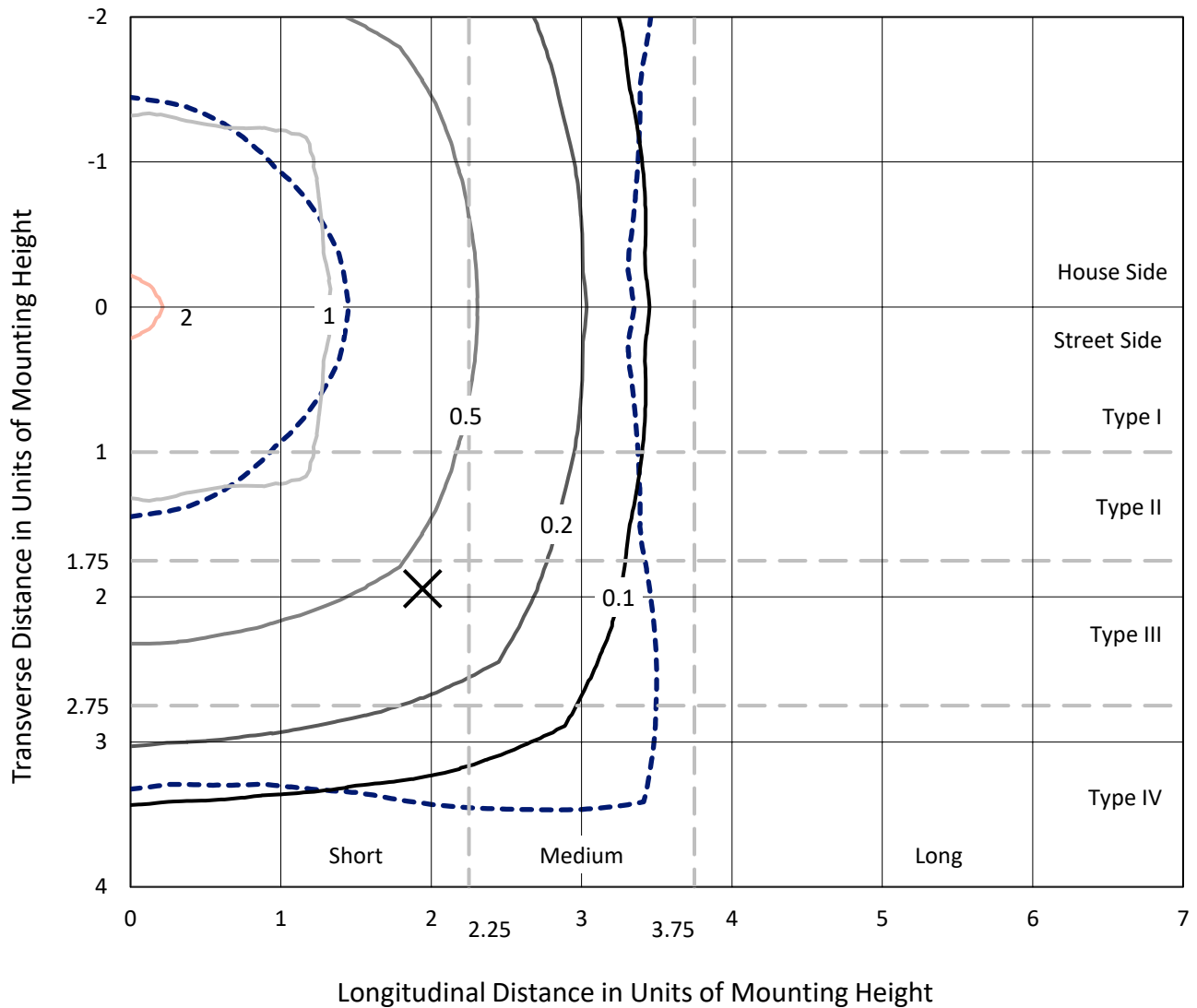
Lumens per Lamp: N/A  
Luminaire Lumens: 15198 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

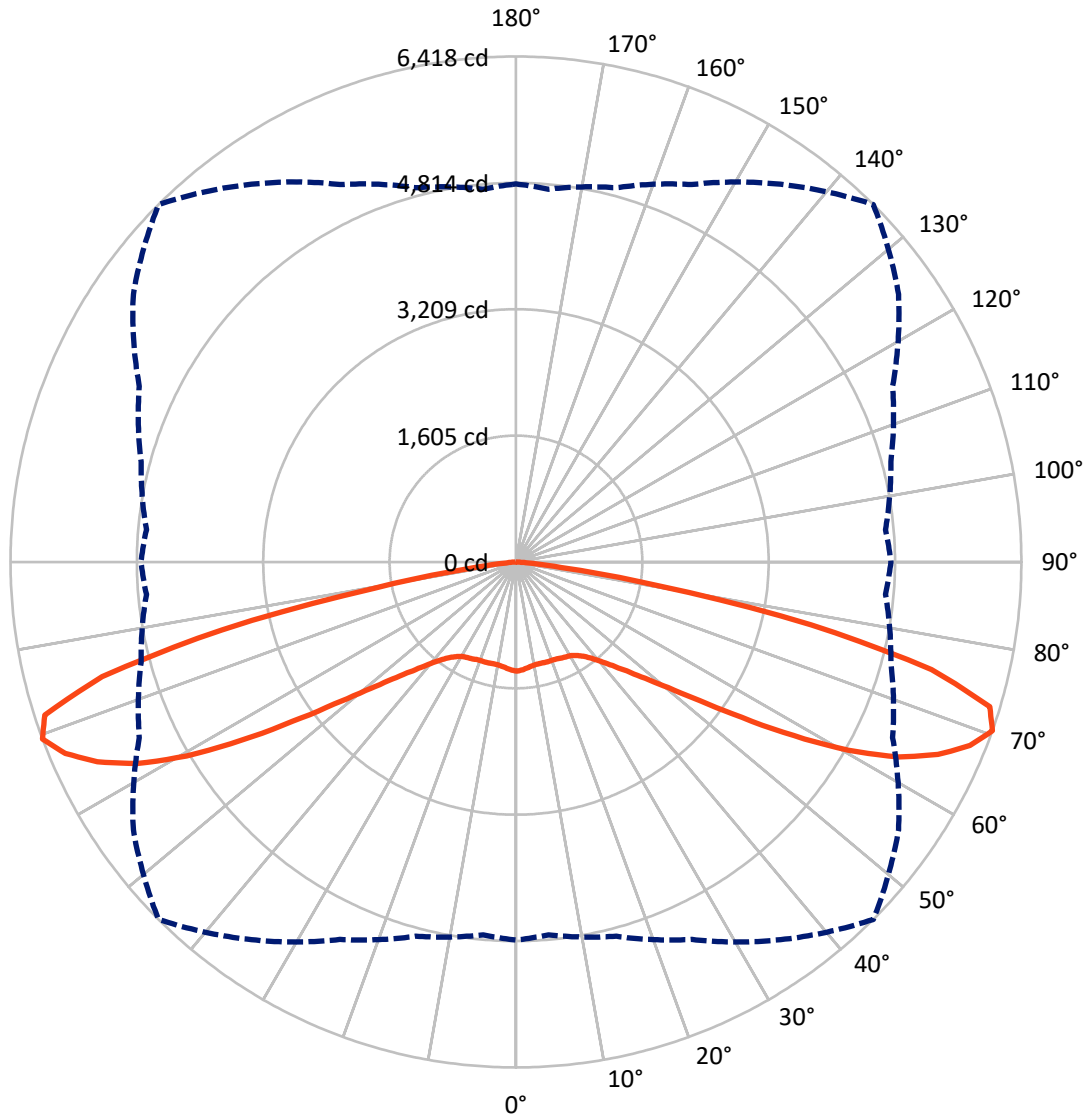
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	7599.0	0.0	7599.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7599.0	0.0	7599.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15198.0	0.0	15198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.0	0.8
10°-20°	378.7	2.5
20°-30°	630.2	4.1
30°-40°	953.0	6.3
40°-50°	1583.7	10.4
50°-60°	2988.3	19.7
60°-70°	5045.9	33.2
70°-80°	3315.7	21.8
80°-90°	173.7	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°	15198.0	100.0
0°-180°	15198.0	100.0

**Coefficient of Utilization**



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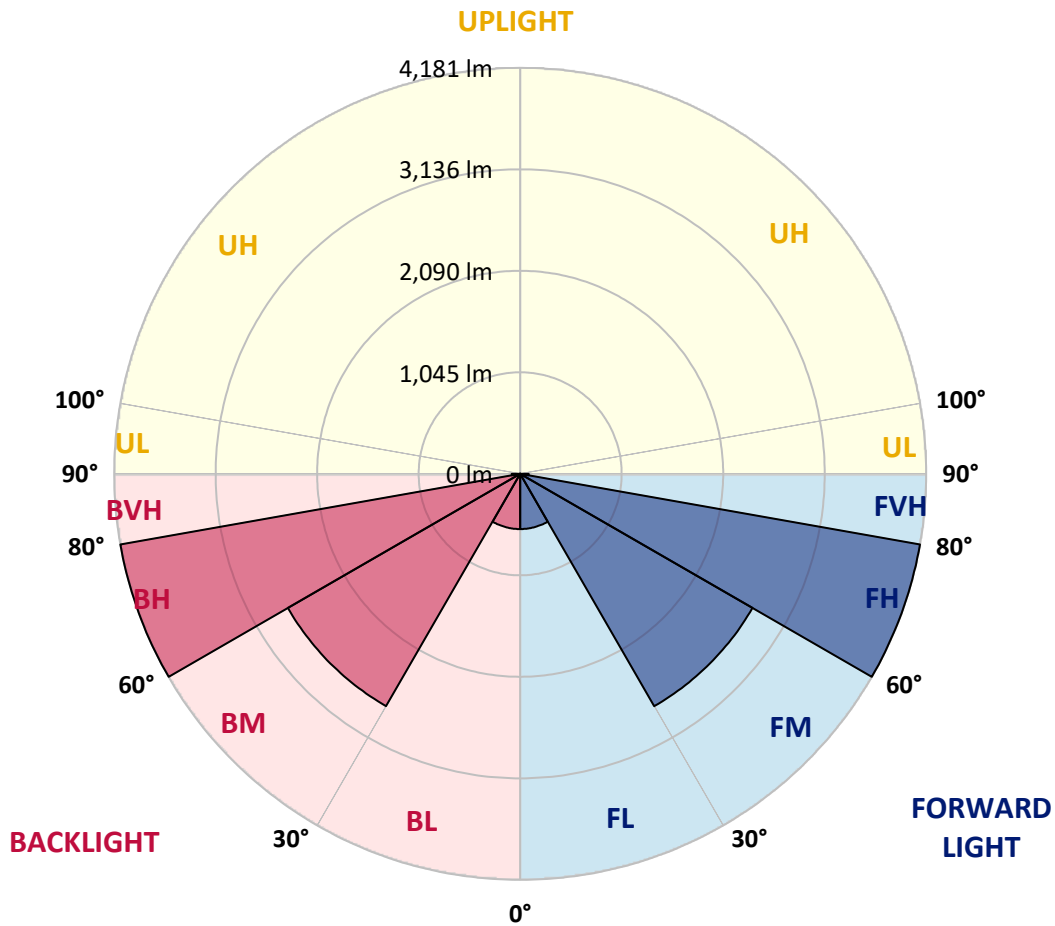
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.9	3.7			
FM (30°-60°)	2762.5	18.2			
FH (60°-80°)	4180.8	27.5			G2/5000
FVH (80°-90°)	86.9	0.6			G1/100
BL (0°-30°)	568.9	3.7	B2/1000		
BM (30°-60°)	2762.5	18.2	B3/5000		
BH (60°-80°)	4180.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	86.9	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°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1377.7	1381.6	1380.0	1376.9	1376.9	1374.5	1376.9	1378.5	1380.8	1382.4	1381.6
5°	1359.5	1362.7	1361.9	1359.5	1360.3	1357.9	1359.5	1361.9	1363.5	1364.2	1364.2
7.5°	1343.7	1346.9	1345.3	1341.3	1341.3	1339.0	1339.8	1342.1	1344.5	1345.3	1345.3
10°	1339.8	1342.9	1338.2	1331.9	1329.5	1326.3	1327.1	1329.5	1334.2	1336.6	1336.6
12.5°	1341.3	1343.7	1339.0	1329.5	1327.1	1324.0	1324.0	1326.3	1332.6	1335.8	1336.6
15°	1346.1	1348.4	1341.3	1331.1	1328.7	1326.3	1325.5	1328.7	1335.8	1341.3	1342.1
17.5°	1354.8	1357.1	1346.1	1331.9	1328.7	1329.5	1328.7	1331.1	1342.1	1352.4	1352.4
20°	1362.7	1364.2	1349.2	1331.9	1328.7	1329.5	1328.7	1333.4	1347.7	1361.9	1362.7
22.5°	1365.0	1366.6	1352.4	1337.4	1335.0	1335.8	1335.0	1339.8	1353.2	1367.4	1367.4
25°	1365.8	1368.2	1357.1	1345.3	1349.2	1350.8	1349.2	1350.0	1360.3	1372.9	1372.1
27.5°	1377.7	1380.8	1370.6	1360.3	1362.7	1361.9	1364.2	1366.6	1374.5	1387.2	1384.0
30°	1402.2	1404.5	1395.8	1385.6	1384.0	1378.5	1385.6	1393.5	1402.2	1413.2	1410.9
32.5°	1442.5	1447.2	1436.1	1425.1	1418.0	1414.8	1420.3	1433.8	1445.6	1457.5	1452.7
35°	1509.6	1512.8	1502.5	1481.9	1469.3	1469.3	1474.0	1491.4	1510.4	1525.4	1519.9
37.5°	1604.4	1608.3	1590.2	1565.7	1546.7	1546.7	1553.0	1571.2	1599.7	1621.0	1613.1
40°	1719.7	1725.3	1702.3	1677.1	1658.9	1655.7	1663.6	1684.2	1711.0	1737.9	1729.2
42.5°	1858.8	1865.1	1835.1	1812.9	1798.7	1798.7	1802.7	1821.6	1846.1	1879.3	1876.9
45°	2036.5	2047.6	2006.5	1984.4	1970.9	1974.1	1976.5	1993.0	2015.2	2053.1	2051.5
47.5°	2248.2	2259.3	2215.8	2192.9	2190.5	2205.5	2196.1	2207.9	2219.8	2263.2	2250.6
50°	2488.3	2507.3	2477.3	2475.7	2480.4	2508.1	2486.0	2492.3	2478.9	2506.5	2489.9
52.5°	2782.2	2809.9	2804.3	2813.8	2866.7	2923.6	2873.1	2850.9	2800.4	2809.1	2779.8
55°	3138.5	3180.3	3188.2	3245.1	3365.2	3481.3	3373.9	3284.6	3177.2	3157.4	3126.6
57.5°	3543.7	3576.9	3614.8	3730.9	3955.3	4161.5	3955.3	3757.8	3588.7	3548.5	3520.0
60°	3979.8	4020.8	4057.2	4228.6	4562.0	4851.9	4555.6	4242.0	4018.5	3964.0	3916.6
62.5°	4448.2	4501.1	4526.4	4716.8	5105.5	5451.5	5111.0	4731.0	4483.0	4424.5	4377.1
65°	4897.7	4941.1	4969.6	5172.6	5543.9	5890.7	5569.2	5194.7	4939.6	4862.9	4825.0
67.5°	5107.0	5130.7	5200.2	5430.1	5821.9	6217.7	5888.3	5454.6	5169.4	5035.1	5036.7
70°	4800.5	4752.3	4919.8	5287.9	5855.1	6418.3	5931.0	5276.9	4927.7	4709.7	4761.8
72.5°	3709.6	3626.7	3917.4	4547.0	5475.9	6290.4	5513.9	4582.5	4098.3	3655.9	3765.7
75°	2018.3	1924.3	2325.6	3121.9	4366.8	5452.2	4467.2	3211.1	2589.5	2003.3	2133.7
77.5°	569.6	534.0	857.9	1510.4	2626.6	3828.1	2727.7	1543.6	1017.5	603.5	670.7
80°	174.6	169.0	229.1	455.0	1115.4	1833.5	1072.0	460.5	291.5	184.1	194.3
82.5°	103.5	94.8	113.8	165.9	284.4	575.9	276.5	173.0	139.0	93.2	101.1
85°	59.2	55.3	67.1	80.6	95.6	122.4	79.8	82.2	74.3	49.8	52.1
87.5°	24.5	22.1	26.1	25.3	22.1	28.4	21.3	25.3	30.0	19.7	18.2
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)