

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: P882572

Luminaire Tested: **NAV-SB2C-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882572
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 15439 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

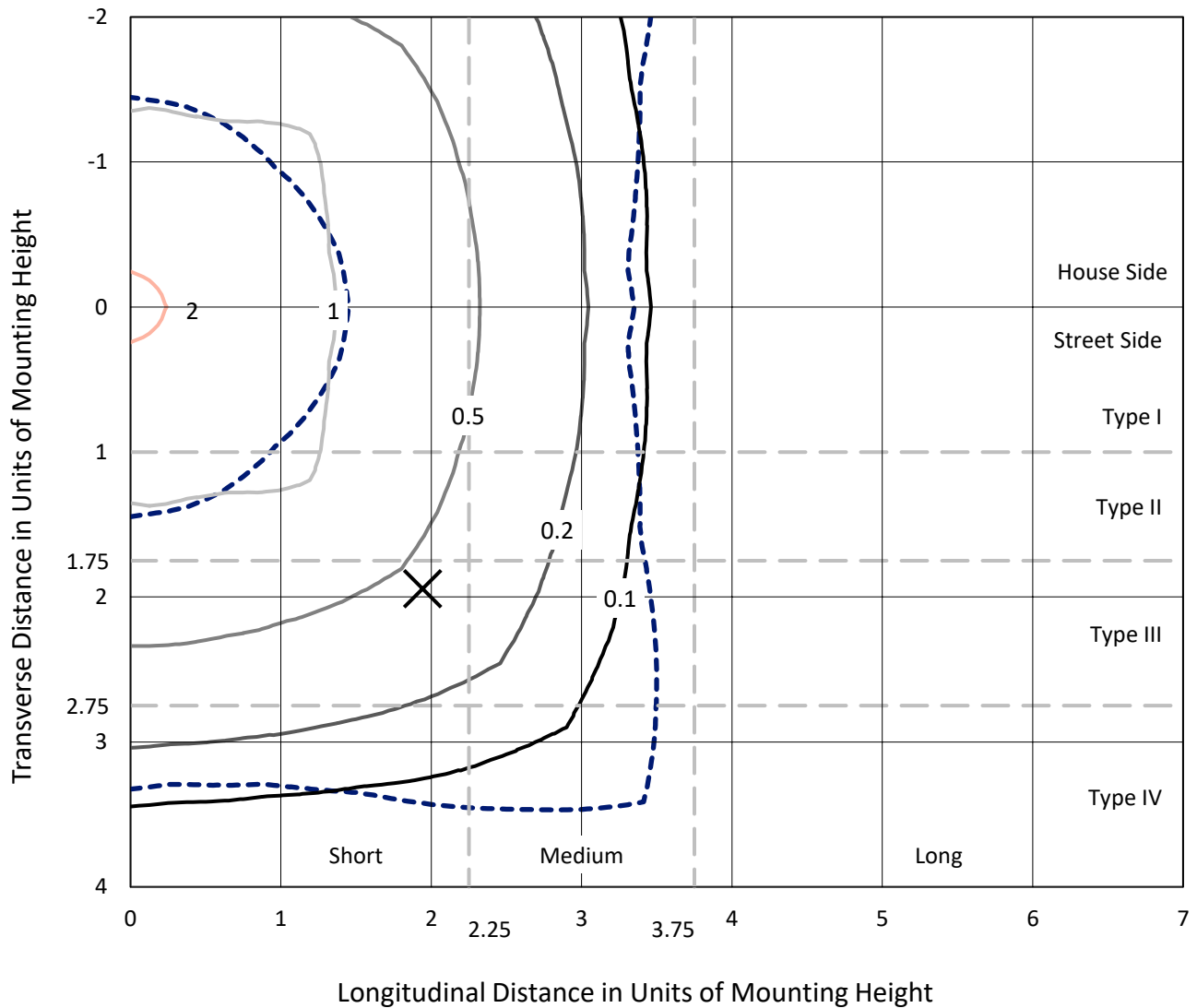
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

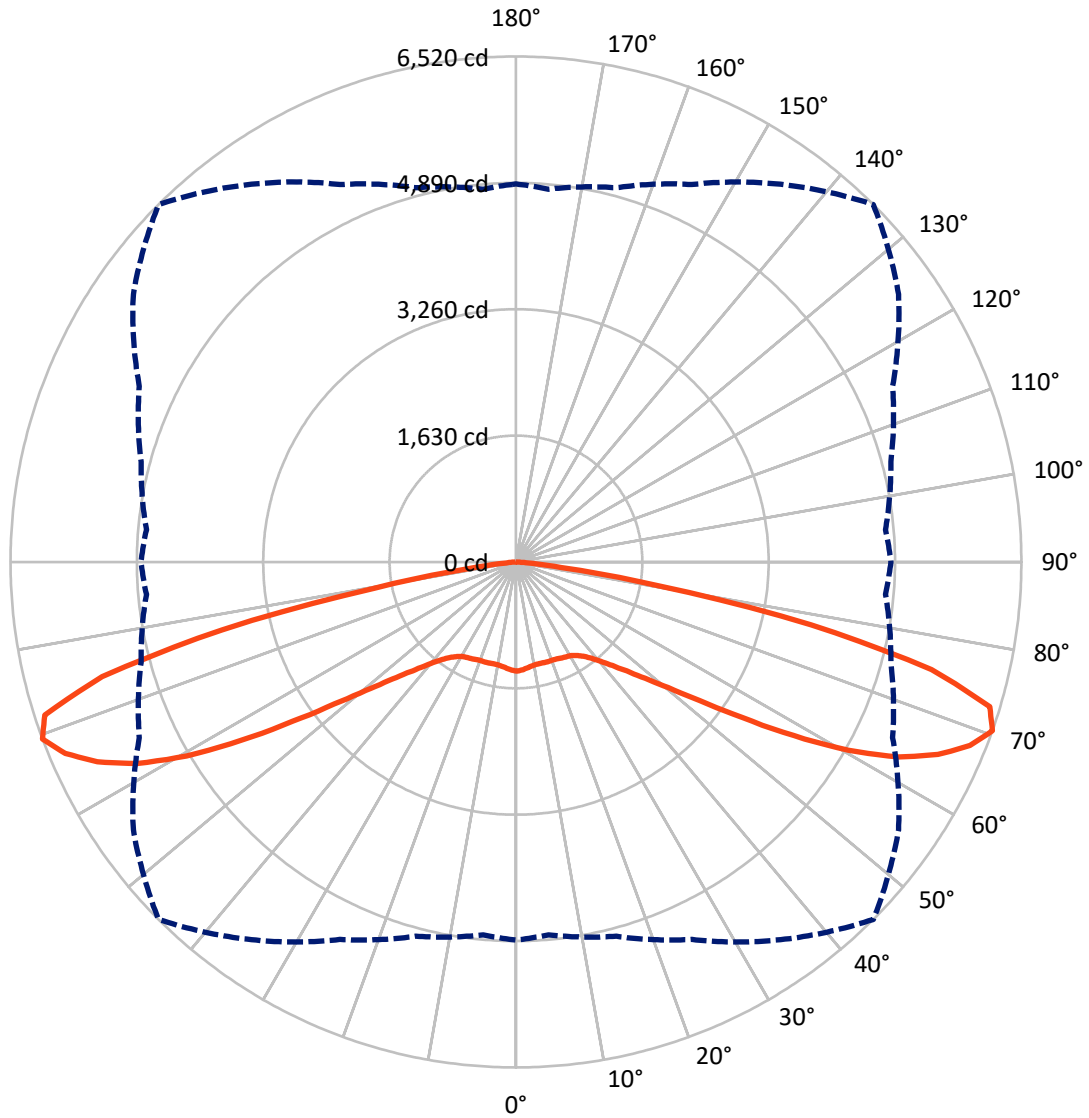
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	7719.5	0.0	7719.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7719.5	0.0	7719.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15439.0	0.0	15439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	0.8
10°-20°	384.7	2.5
20°-30°	640.2	4.1
30°-40°	968.1	6.3
40°-50°	1608.8	10.4
50°-60°	3035.7	19.7
60°-70°	5125.9	33.2
70°-80°	3368.2	21.8
80°-90°	176.5	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°	15439.0	100.0
0°-180°	15439.0	100.0

Coefficient of Utilization



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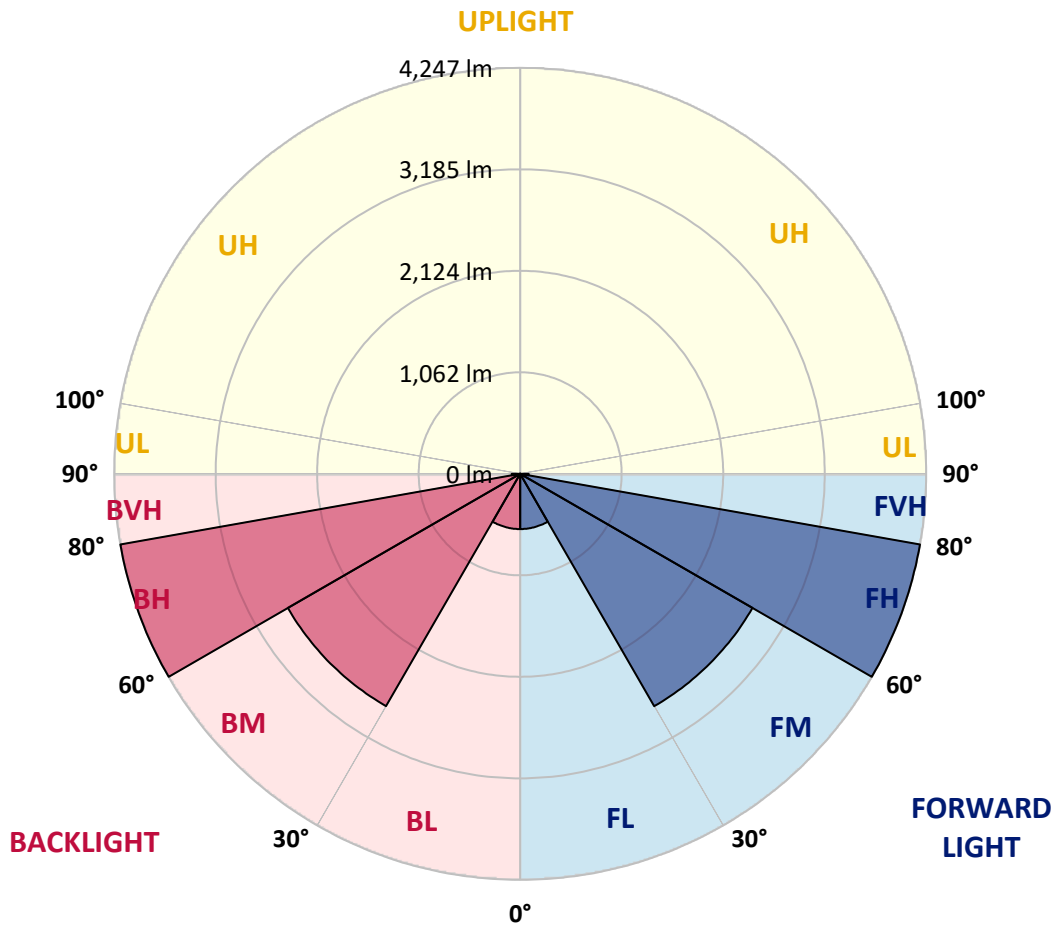
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.9	3.7			
FM (30°-60°)	2806.3	18.2			
FH (60°-80°)	4247.1	27.5			G2/5000
FVH (80°-90°)	88.2	0.6			G1/100
BL (0°-30°)	577.9	3.7	B2/1000		
BM (30°-60°)	2806.3	18.2	B3/5000		
BH (60°-80°)	4247.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	88.2	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°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1399.5	1403.5	1401.9	1398.7	1398.7	1396.3	1398.7	1400.3	1402.7	1404.3	1403.5
5°	1381.1	1384.3	1383.5	1381.1	1381.9	1379.5	1381.1	1383.5	1385.1	1385.9	1385.9
7.5°	1365.0	1368.2	1366.6	1362.6	1362.6	1360.2	1361.0	1363.4	1365.8	1366.6	1366.6
10°	1361.0	1364.2	1359.4	1353.0	1350.6	1347.4	1348.2	1350.6	1355.4	1357.8	1357.8
12.5°	1362.6	1365.0	1360.2	1350.6	1348.2	1345.0	1345.0	1347.4	1353.8	1357.0	1357.8
15°	1367.4	1369.8	1362.6	1352.2	1349.8	1347.4	1346.6	1349.8	1357.0	1362.6	1363.4
17.5°	1376.2	1378.7	1367.4	1353.0	1349.8	1350.6	1349.8	1352.2	1363.4	1373.8	1373.8
20°	1384.3	1385.9	1370.6	1353.0	1349.8	1350.6	1349.8	1354.6	1369.0	1383.5	1384.3
22.5°	1386.7	1388.3	1373.8	1358.6	1356.2	1357.0	1356.2	1361.0	1374.6	1389.1	1389.1
25°	1387.5	1389.9	1378.7	1366.6	1370.6	1372.2	1370.6	1371.4	1381.9	1394.7	1393.9
27.5°	1399.5	1402.7	1392.3	1381.9	1384.3	1383.5	1385.9	1388.3	1396.3	1409.2	1405.9
30°	1424.4	1426.8	1418.0	1407.5	1405.9	1400.3	1407.5	1415.6	1424.4	1435.6	1433.2
32.5°	1465.3	1470.1	1458.9	1447.7	1440.4	1437.2	1442.9	1456.5	1468.5	1480.6	1475.8
35°	1533.5	1536.7	1526.3	1505.4	1492.6	1492.6	1497.4	1515.1	1534.3	1549.6	1544.0
37.5°	1629.8	1633.8	1615.4	1590.5	1571.3	1571.3	1577.7	1596.1	1625.0	1646.7	1638.7
40°	1747.0	1752.6	1729.3	1703.7	1685.2	1682.0	1690.0	1710.9	1738.2	1765.5	1756.6
42.5°	1888.2	1894.6	1864.2	1841.7	1827.2	1827.2	1831.3	1850.5	1875.4	1909.1	1906.7
45°	2068.8	2080.0	2038.3	2015.8	2002.2	2005.4	2007.8	2024.7	2047.1	2085.6	2084.0
47.5°	2283.9	2295.1	2250.9	2227.7	2225.3	2240.5	2230.9	2242.9	2255.0	2299.1	2286.3
50°	2527.8	2547.1	2516.6	2515.0	2519.8	2547.9	2525.4	2531.8	2518.2	2546.3	2529.4
52.5°	2826.3	2854.4	2848.8	2858.4	2912.2	2970.0	2918.6	2896.1	2844.8	2853.6	2823.9
55°	3188.2	3230.8	3238.8	3296.6	3418.6	3536.5	3427.4	3336.7	3227.6	3207.5	3176.2
57.5°	3599.9	3633.6	3672.1	3790.1	4018.0	4227.5	4018.0	3817.4	3645.7	3604.7	3575.8
60°	4042.9	4084.6	4121.5	4295.7	4634.3	4928.8	4627.9	4309.3	4082.2	4026.8	3978.7
62.5°	4518.7	4572.5	4598.2	4791.6	5186.4	5537.9	5192.0	4806.0	4554.1	4494.7	4446.5
65°	4975.4	5019.5	5048.4	5254.6	5631.8	5984.1	5657.5	5277.1	5017.9	4940.1	4901.5
67.5°	5188.0	5212.1	5282.7	5516.2	5914.3	6316.3	5981.7	5541.1	5251.4	5115.0	5116.6
70°	4876.7	4827.7	4997.8	5371.8	5948.0	6520.1	6025.0	5360.5	5005.9	4784.4	4837.3
72.5°	3768.4	3684.2	3979.5	4619.1	5562.8	6390.1	5601.3	4655.2	4163.3	3713.9	3825.4
75°	2050.3	1954.8	2362.5	3171.4	4436.1	5538.7	4538.0	3262.1	2630.5	2035.1	2167.5
77.5°	578.6	542.5	871.5	1534.3	2668.2	3888.8	2771.0	1568.0	1033.6	613.1	681.3
80°	177.3	171.7	232.7	462.2	1133.1	1862.5	1089.0	467.8	296.1	187.0	197.4
82.5°	105.1	96.3	115.6	168.5	288.9	585.0	280.9	175.7	141.2	94.7	102.7
85°	60.2	56.2	68.2	81.9	97.1	124.4	81.1	83.5	75.4	50.6	53.0
87.5°	24.9	22.5	26.5	25.7	22.5	28.9	21.7	25.7	30.5	20.1	18.5
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)