

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: P883592

Luminaire Tested: **NAV-SB4A-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883592
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-SB4A-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 18388 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

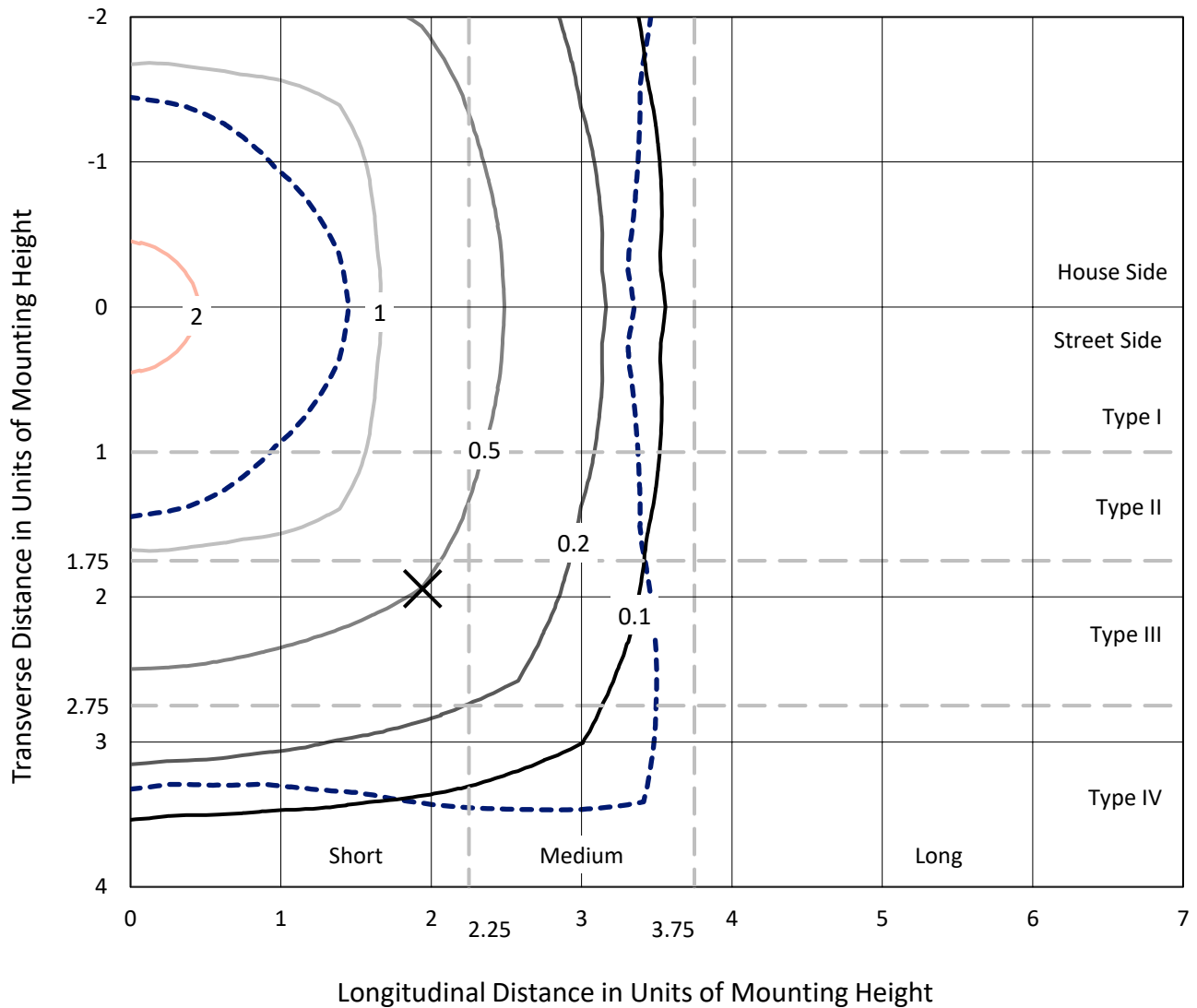
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

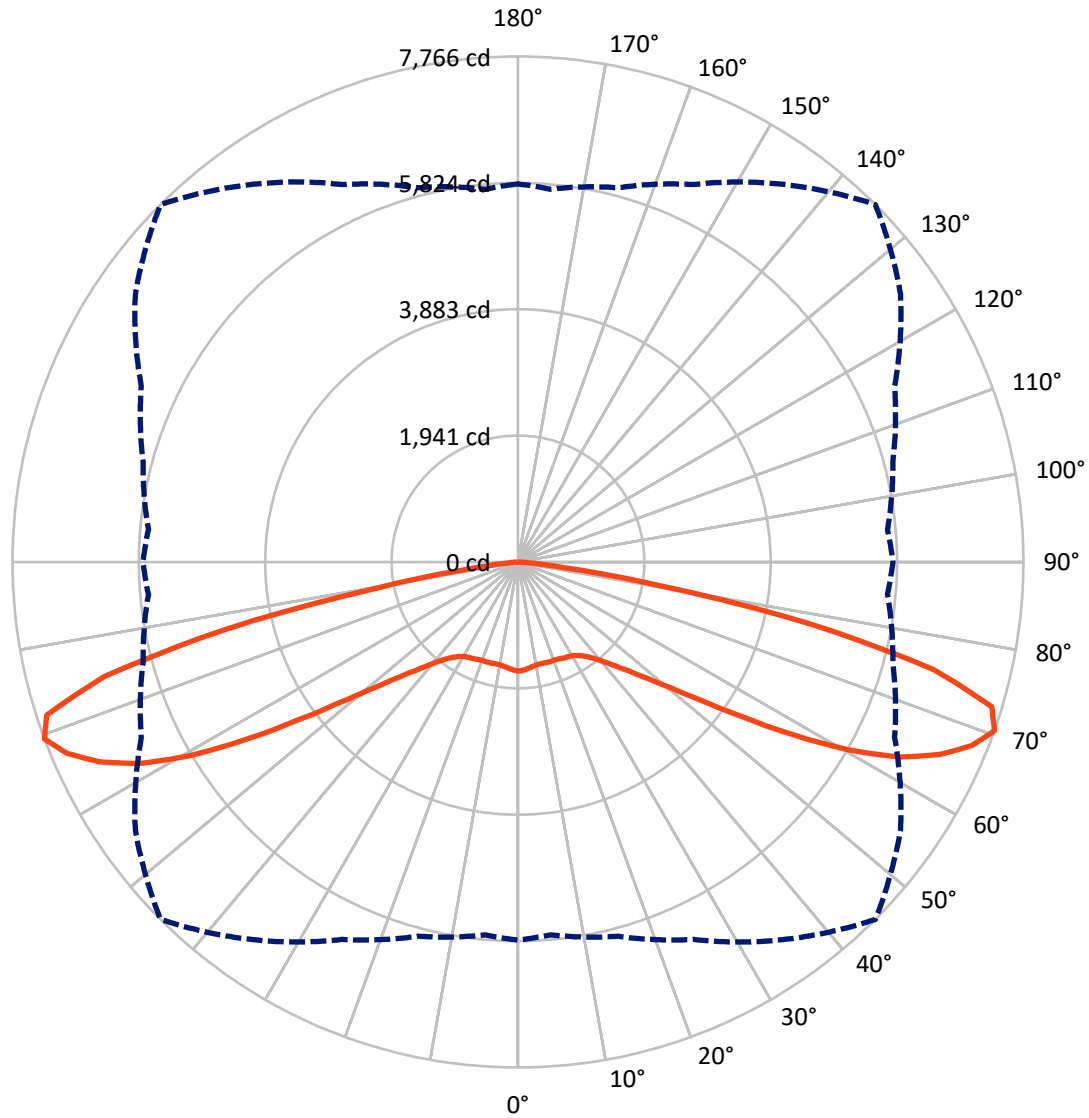
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	9194.0	0.0	9194.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9194.0	0.0	9194.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18388.0	0.0	18388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	0.8
10°-20°	458.2	2.5
20°-30°	762.4	4.1
30°-40°	1153.0	6.3
40°-50°	1916.1	10.4
50°-60°	3615.5	19.7
60°-70°	6105.0	33.2
70°-80°	4011.6	21.8
80°-90°	210.2	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°	18388.0	100.0
0°-180°	18388.0	100.0



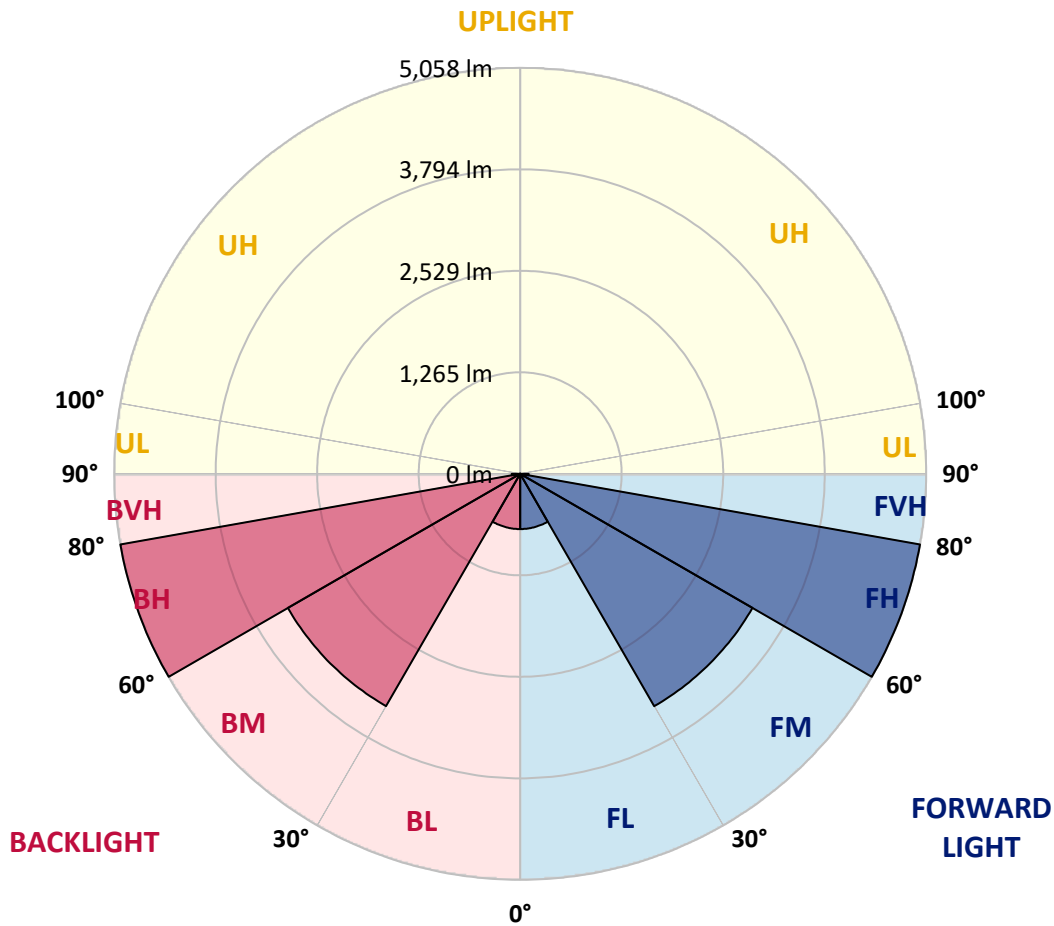
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.3	3.7			
FM (30°-60°)	3342.3	18.2			
FH (60°-80°)	5058.3	27.5			G3/7500
FVH (80°-90°)	105.1	0.6			G2/225
BL (0°-30°)	688.3	3.7	B2/1000		
BM (30°-60°)	3342.3	18.2	B3/5000		
BH (60°-80°)	5058.3	27.5	B5		G3/7500
BVH (80°-90°)	105.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1666.8	1671.6	1669.7	1665.9	1665.9	1663.0	1665.9	1667.8	1670.7	1672.6	1671.6
5°	1644.9	1648.7	1647.7	1644.9	1645.8	1642.9	1644.9	1647.7	1649.6	1650.6	1650.6
7.5°	1625.7	1629.6	1627.7	1622.9	1622.9	1620.0	1621.0	1623.8	1626.7	1627.7	1627.7
10°	1621.0	1624.8	1619.1	1611.4	1608.5	1604.7	1605.7	1608.5	1614.3	1617.1	1617.1
12.5°	1622.9	1625.7	1620.0	1608.5	1605.7	1601.9	1601.9	1604.7	1612.4	1616.2	1617.1
15°	1628.6	1631.5	1622.9	1610.5	1607.6	1604.7	1603.8	1607.6	1616.2	1622.9	1623.8
17.5°	1639.1	1642.0	1628.6	1611.4	1607.6	1608.5	1607.6	1610.5	1623.8	1636.3	1636.3
20°	1648.7	1650.6	1632.4	1611.4	1607.6	1608.5	1607.6	1613.3	1630.5	1647.7	1648.7
22.5°	1651.6	1653.5	1636.3	1618.1	1615.2	1616.2	1615.2	1621.0	1637.2	1654.4	1654.4
25°	1652.5	1655.4	1642.0	1627.7	1632.4	1634.3	1632.4	1633.4	1645.8	1661.1	1660.2
27.5°	1666.8	1670.7	1658.2	1645.8	1648.7	1647.7	1650.6	1653.5	1663.0	1678.3	1674.5
30°	1696.5	1699.3	1688.8	1676.4	1674.5	1667.8	1676.4	1686.0	1696.5	1709.9	1707.0
32.5°	1745.2	1750.9	1737.6	1724.2	1715.6	1711.8	1718.5	1734.7	1749.0	1763.4	1757.6
35°	1826.5	1830.3	1817.9	1793.0	1777.7	1777.7	1783.4	1804.5	1827.4	1845.6	1838.9
37.5°	1941.1	1945.9	1923.9	1894.3	1871.4	1871.4	1879.0	1901.0	1935.4	1961.2	1951.7
40°	2080.7	2087.4	2059.7	2029.1	2007.1	2003.3	2012.8	2037.7	2070.2	2102.7	2092.2
42.5°	2248.9	2256.5	2220.2	2193.5	2176.3	2176.3	2181.0	2204.0	2233.6	2273.7	2270.9
45°	2463.9	2477.3	2427.6	2400.9	2384.6	2388.4	2391.3	2411.4	2438.1	2484.0	2482.1
47.5°	2720.1	2733.5	2680.9	2653.2	2650.3	2668.5	2657.0	2671.3	2685.7	2738.2	2723.0
50°	3010.6	3033.6	2997.3	2995.3	3001.1	3034.5	3007.8	3015.4	2999.2	3032.6	3012.6
52.5°	3366.2	3399.6	3392.9	3404.4	3468.4	3537.3	3476.1	3449.3	3388.2	3398.7	3363.3
55°	3797.2	3847.9	3857.4	3926.3	4071.5	4212.0	4082.0	3974.0	3844.1	3820.2	3782.9
57.5°	4287.5	4327.7	4373.5	4514.0	4785.5	5034.9	4785.5	4546.5	4342.0	4293.3	4258.9
60°	4815.1	4864.8	4908.8	5116.2	5519.5	5870.3	5511.9	5132.4	4861.9	4796.0	4738.6
62.5°	5381.9	5445.9	5476.5	5706.8	6177.1	6595.7	6183.8	5724.0	5423.9	5353.2	5295.9
65°	5925.7	5978.3	6012.7	6258.3	6707.5	7127.1	6738.1	6285.1	5976.4	5883.6	5837.8
67.5°	6179.0	6207.7	6291.8	6569.9	7043.9	7522.8	7124.2	6599.5	6254.5	6092.0	6093.9
70°	5808.1	5749.8	5952.5	6397.8	7084.1	7765.5	7175.8	6384.5	5962.0	5698.2	5761.3
72.5°	4488.2	4387.9	4739.6	5501.3	6625.3	7610.7	6671.2	5544.4	4958.5	4423.2	4556.1
75°	2442.0	2328.2	2813.8	3777.2	5283.4	6596.6	5404.8	3885.2	3133.0	2423.8	2581.5
77.5°	689.1	646.1	1038.0	1827.4	3177.9	4631.6	3300.2	1867.6	1231.0	730.2	811.4
80°	211.2	204.5	277.2	550.5	1349.5	2218.3	1297.0	557.2	352.7	222.7	235.1
82.5°	125.2	114.7	137.6	200.7	344.1	696.7	334.5	209.3	168.2	112.8	122.3
85°	71.7	66.9	81.2	97.5	115.6	148.1	96.5	99.4	89.8	60.2	63.1
87.5°	29.6	26.8	31.5	30.6	26.8	34.4	25.8	30.6	36.3	23.9	22.0
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)