

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: P881932

Luminaire Tested: **NAV-SB1C-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881932
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6160 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

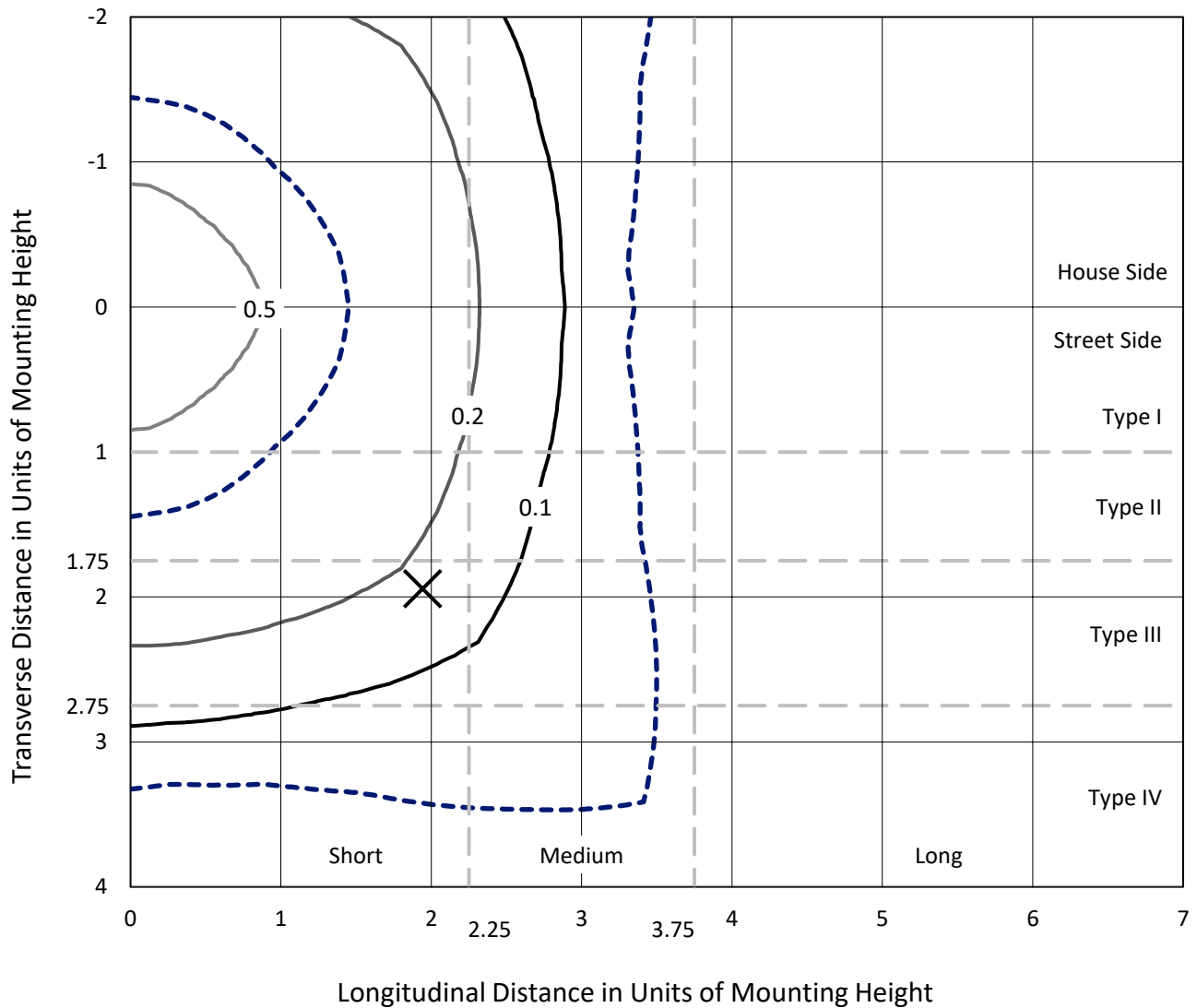
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

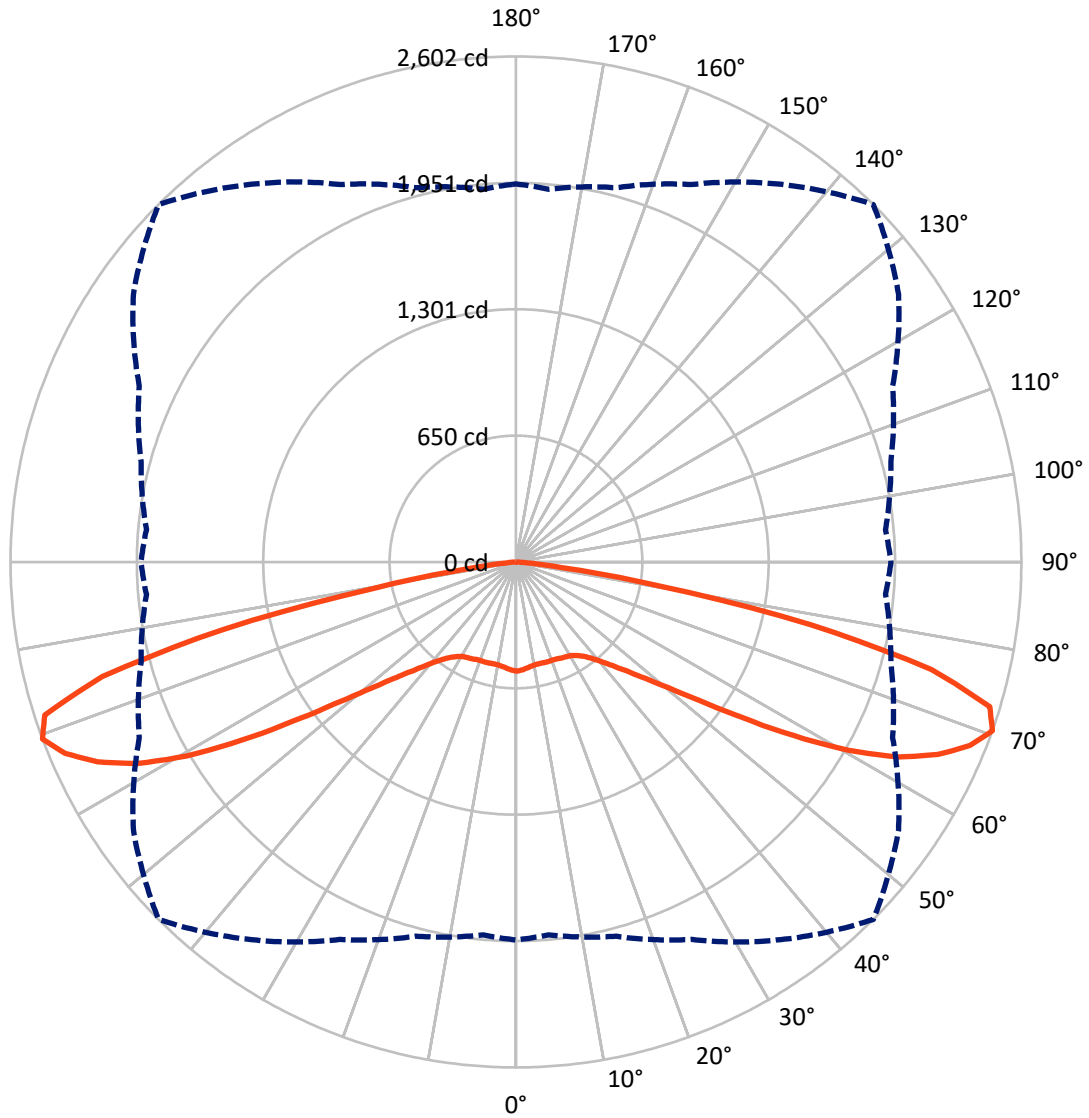
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	3080.0	0.0	3080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3080.0	0.0	3080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6160.0	0.0	6160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	0.8
10°-20°	153.5	2.5
20°-30°	255.4	4.1
30°-40°	386.3	6.3
40°-50°	641.9	10.4
50°-60°	1211.2	19.7
60°-70°	2045.2	33.2
70°-80°	1343.9	21.8
80°-90°	70.4	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°	6160.0	100.0
0°-180°	6160.0	100.0

Coefficient of Utilization



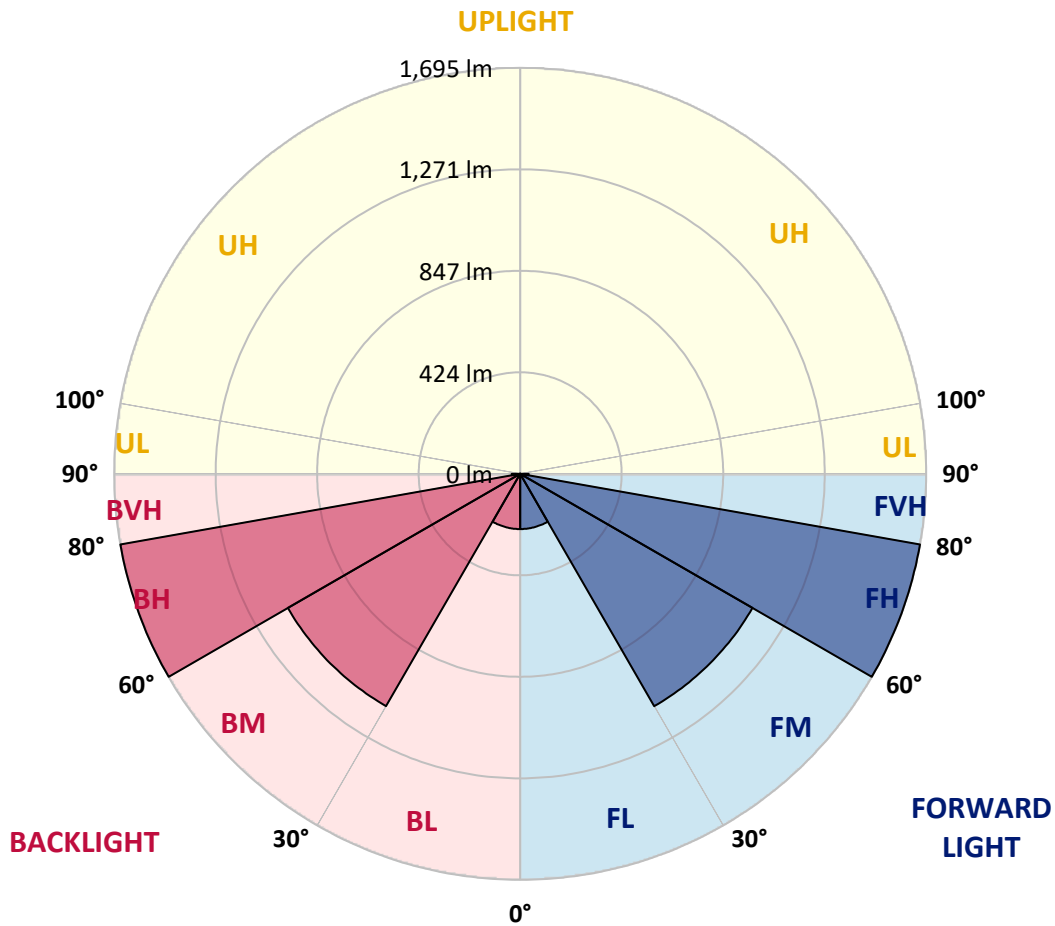
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.6	3.7			
FM (30°-60°)	1119.7	18.2			
FH (60°-80°)	1694.5	27.5			G1/1800
FVH (80°-90°)	35.2	0.6			G1/100
BL (0°-30°)	230.6	3.7	B1/500		
BM (30°-60°)	1119.7	18.2	B2/2500		
BH (60°-80°)	1694.5	27.5	B3/2500		G1/1800
BVH (80°-90°)	35.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	558.4	560.0	559.4	558.1	558.1	557.1	558.1	558.7	559.7	560.3	560.0
5°	551.0	552.3	552.0	551.0	551.4	550.4	551.0	552.0	552.6	553.0	553.0
7.5°	544.6	545.9	545.3	543.7	543.7	542.7	543.0	544.0	544.9	545.3	545.3
10°	543.0	544.3	542.4	539.8	538.9	537.6	537.9	538.9	540.8	541.7	541.7
12.5°	543.7	544.6	542.7	538.9	537.9	536.6	536.6	537.6	540.1	541.4	541.7
15°	545.6	546.5	543.7	539.5	538.5	537.6	537.3	538.5	541.4	543.7	544.0
17.5°	549.1	550.1	545.6	539.8	538.5	538.9	538.5	539.5	544.0	548.1	548.1
20°	552.3	553.0	546.9	539.8	538.5	538.9	538.5	540.5	546.2	552.0	552.3
22.5°	553.3	553.9	548.1	542.1	541.1	541.4	541.1	543.0	548.5	554.2	554.2
25°	553.6	554.6	550.1	545.3	546.9	547.5	546.9	547.2	551.4	556.5	556.2
27.5°	558.4	559.7	555.5	551.4	552.3	552.0	553.0	553.9	557.1	562.2	561.0
30°	568.3	569.3	565.8	561.6	561.0	558.7	561.6	564.8	568.3	572.8	571.8
32.5°	584.6	586.6	582.1	577.6	574.7	573.4	575.7	581.1	585.9	590.7	588.8
35°	611.9	613.1	609.0	600.7	595.5	595.5	597.5	604.5	612.2	618.3	616.0
37.5°	650.3	651.9	644.5	634.6	626.9	626.9	629.5	636.8	648.4	657.0	653.8
40°	697.0	699.3	690.0	679.7	672.4	671.1	674.3	682.6	693.5	704.4	700.9
42.5°	753.4	755.9	743.8	734.8	729.1	729.1	730.7	738.3	748.3	761.7	760.7
45°	825.4	829.9	813.3	804.3	798.8	800.1	801.1	807.8	816.8	832.1	831.5
47.5°	911.2	915.7	898.1	888.8	887.9	893.9	890.1	894.9	899.7	917.3	912.2
50°	1008.6	1016.3	1004.1	1003.4	1005.4	1016.6	1007.6	1010.2	1004.7	1015.9	1009.2
52.5°	1127.7	1138.9	1136.6	1140.5	1161.9	1185.0	1164.5	1155.5	1135.0	1138.6	1126.7
55°	1272.1	1289.0	1292.2	1315.3	1364.0	1411.0	1367.5	1331.3	1287.8	1279.8	1267.3
57.5°	1436.3	1449.8	1465.1	1512.2	1603.1	1686.7	1603.1	1523.1	1454.6	1438.2	1426.7
60°	1613.1	1629.7	1644.4	1713.9	1849.0	1966.5	1846.5	1719.4	1628.8	1606.7	1587.5
62.5°	1802.9	1824.4	1834.6	1911.8	2069.3	2209.6	2071.6	1917.6	1817.0	1793.3	1774.1
65°	1985.1	2002.7	2014.3	2096.5	2247.0	2387.6	2257.3	2105.5	2002.1	1971.0	1955.7
67.5°	2070.0	2079.6	2107.7	2200.9	2359.7	2520.1	2386.6	2210.8	2095.3	2040.8	2041.5
70°	1945.7	1926.2	1994.1	2143.3	2373.2	2601.5	2403.9	2138.8	1997.3	1908.9	1930.0
72.5°	1503.6	1469.9	1587.8	1843.0	2219.5	2549.6	2234.9	1857.4	1661.1	1481.8	1526.3
75°	818.1	780.0	942.6	1265.4	1770.0	2209.9	1810.6	1301.5	1049.6	812.0	864.8
77.5°	230.8	216.4	347.7	612.2	1064.6	1551.6	1105.6	625.6	412.4	244.6	271.8
80°	70.8	68.5	92.9	184.4	452.1	743.1	434.5	186.7	118.1	74.6	78.8
82.5°	41.9	38.4	46.1	67.2	115.3	233.4	112.1	70.1	56.4	37.8	41.0
85°	24.0	22.4	27.2	32.7	38.7	49.6	32.3	33.3	30.1	20.2	21.1
87.5°	9.9	9.0	10.6	10.2	9.0	11.5	8.6	10.2	12.2	8.0	7.4
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)