

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: P881952

Luminaire Tested: **NAV-SB1C-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881952
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-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6397 lumens
Efficiency: N/A
Efficacy: 117.6 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

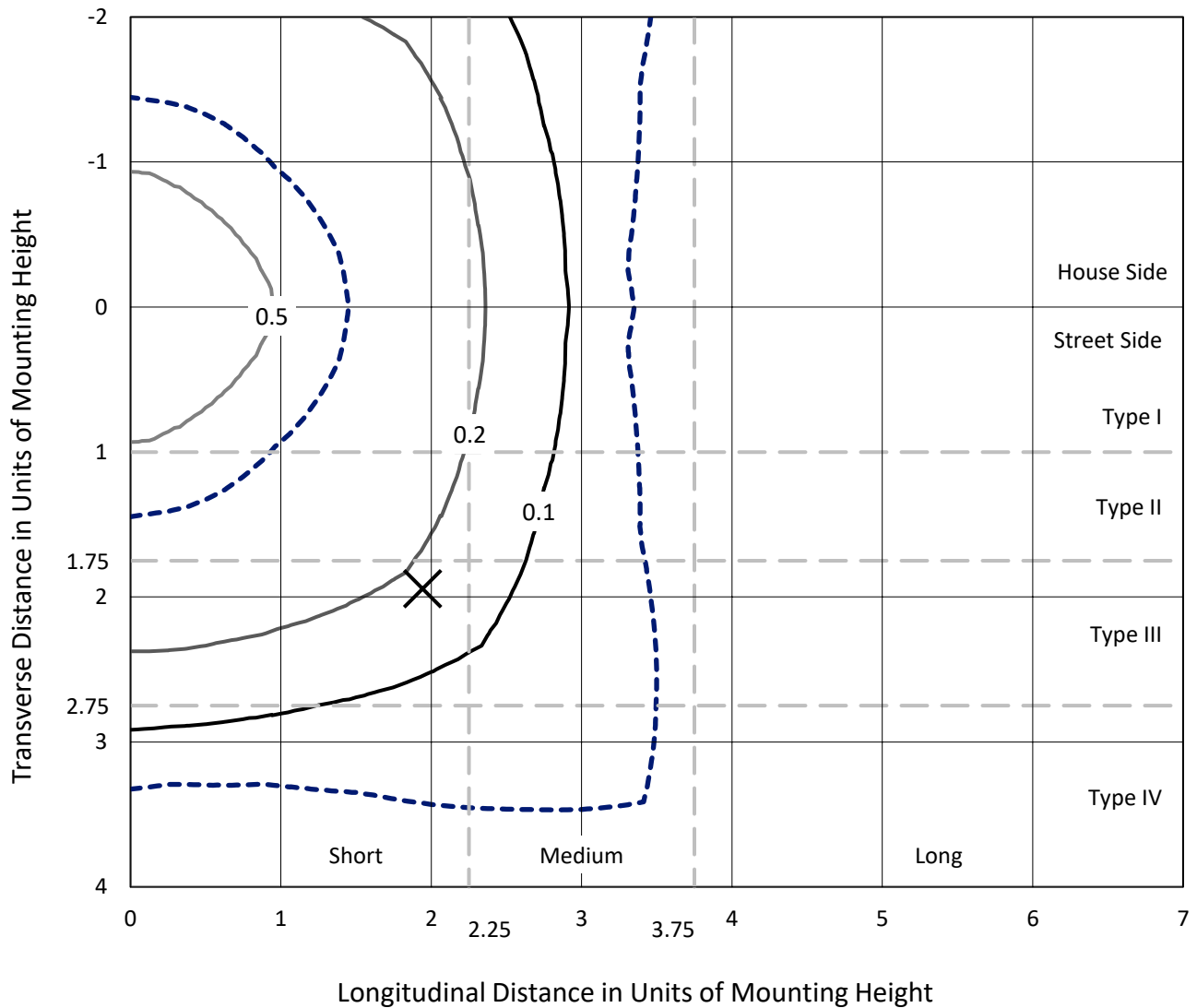
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

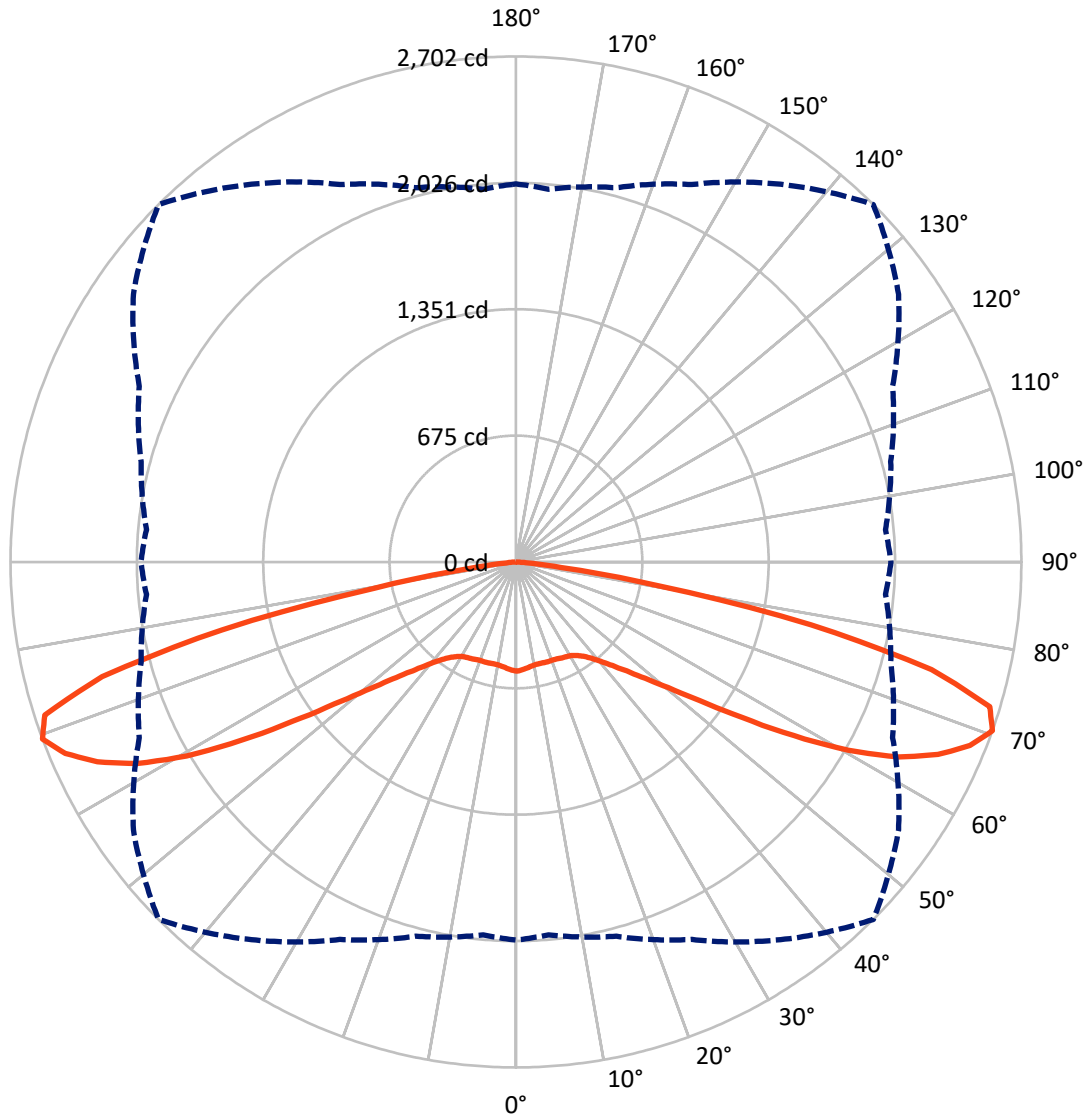
✕ Max cd
 - - - 1/2 Max cd



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	3198.5	0.0	3198.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3198.5	0.0	3198.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6397.0	0.0	6397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	0.8
10°-20°	159.4	2.5
20°-30°	265.2	4.1
30°-40°	401.1	6.3
40°-50°	666.6	10.4
50°-60°	1257.8	19.7
60°-70°	2123.9	33.2
70°-80°	1395.6	21.8
80°-90°	73.1	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°	6397.0	100.0
0°-180°	6397.0	100.0

Coefficient of Utilization



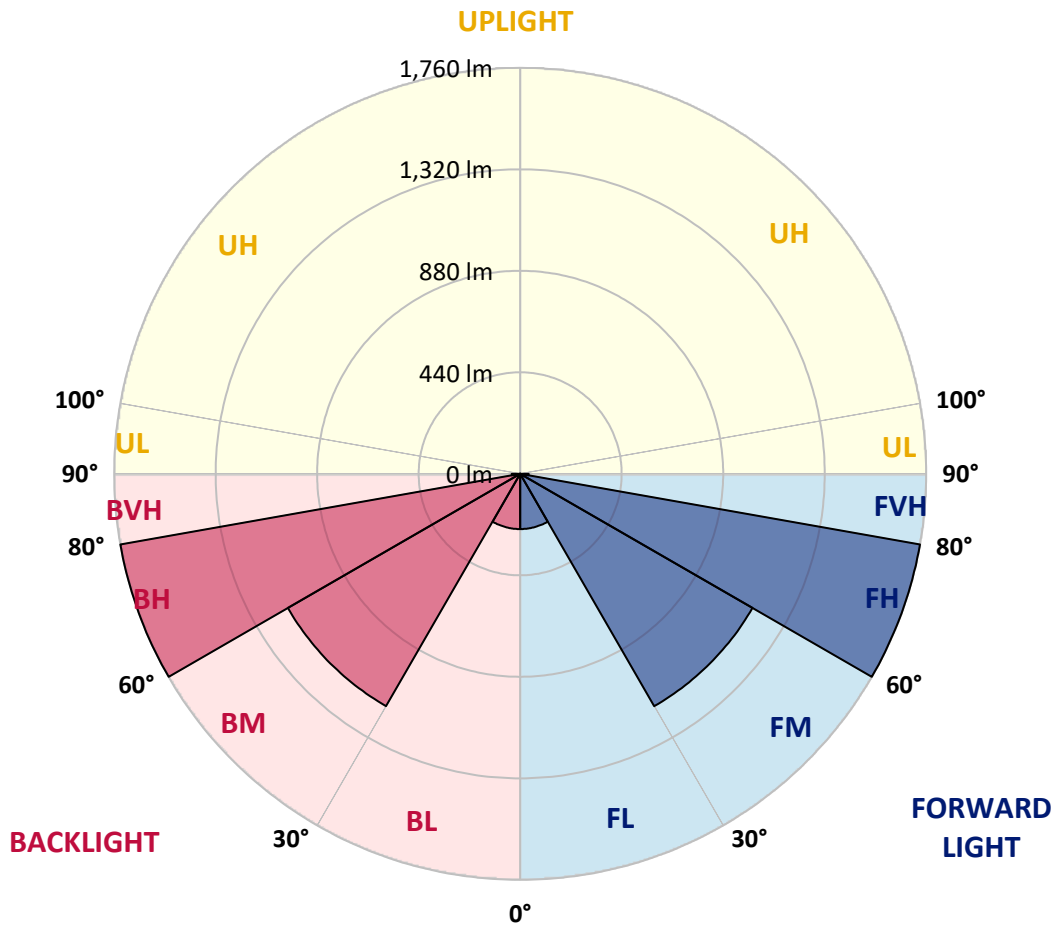
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.5	3.7			
FM (30°-60°)	1162.7	18.2			
FH (60°-80°)	1759.7	27.5			G1/1800
FVH (80°-90°)	36.6	0.6			G1/100
BL (0°-30°)	239.5	3.7	B1/500		
BM (30°-60°)	1162.7	18.2	B2/2500		
BH (60°-80°)	1759.7	27.5	B3/2500		G1/1800
BVH (80°-90°)	36.6	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°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	579.9	581.5	580.9	579.5	579.5	578.5	579.5	580.2	581.2	581.9	581.5
5°	572.2	573.6	573.2	572.2	572.6	571.6	572.2	573.2	573.9	574.2	574.2
7.5°	565.6	566.9	566.2	564.6	564.6	563.6	563.9	564.9	565.9	566.2	566.2
10°	563.9	565.2	563.3	560.6	559.6	558.3	558.6	559.6	561.6	562.6	562.6
12.5°	564.6	565.6	563.6	559.6	558.6	557.3	557.3	558.3	560.9	562.3	562.6
15°	566.6	567.6	564.6	560.3	559.3	558.3	557.9	559.3	562.3	564.6	564.9
17.5°	570.2	571.2	566.6	560.6	559.3	559.6	559.3	560.3	564.9	569.2	569.2
20°	573.6	574.2	567.9	560.6	559.3	559.6	559.3	561.3	567.2	573.2	573.6
22.5°	574.6	575.2	569.2	562.9	561.9	562.3	561.9	563.9	569.6	575.6	575.6
25°	574.9	575.9	571.2	566.2	567.9	568.6	567.9	568.2	572.6	577.9	577.6
27.5°	579.9	581.2	576.9	572.6	573.6	573.2	574.2	575.2	578.5	583.9	582.5
30°	590.2	591.2	587.5	583.2	582.5	580.2	583.2	586.5	590.2	594.8	593.8
32.5°	607.1	609.1	604.5	599.8	596.8	595.5	597.8	603.5	608.5	613.5	611.5
35°	635.4	636.7	632.4	623.8	618.4	618.4	620.4	627.8	635.7	642.1	639.7
37.5°	675.3	677.0	669.3	659.0	651.0	651.0	653.7	661.3	673.3	682.3	679.0
40°	723.8	726.2	716.5	705.9	698.2	696.9	700.2	708.9	720.2	731.5	727.8
42.5°	782.4	785.0	772.4	763.1	757.1	757.1	758.8	766.7	777.0	791.0	790.0
45°	857.2	861.8	844.5	835.2	829.6	830.9	831.9	838.9	848.2	864.2	863.5
47.5°	946.3	950.9	932.7	923.0	922.0	928.3	924.3	929.3	934.3	952.6	947.3
50°	1047.4	1055.4	1042.7	1042.1	1044.0	1055.7	1046.4	1049.0	1043.4	1055.0	1048.0
52.5°	1171.1	1182.7	1180.4	1184.4	1206.6	1230.6	1209.3	1200.0	1178.7	1182.4	1170.1
55°	1321.0	1338.6	1342.0	1365.9	1416.4	1465.3	1420.1	1382.5	1337.3	1329.0	1316.0
57.5°	1491.6	1505.6	1521.5	1570.4	1664.8	1751.6	1664.8	1581.7	1510.5	1493.6	1481.6
60°	1675.1	1692.4	1707.7	1779.9	1920.2	2042.2	1917.5	1785.5	1691.4	1668.5	1648.5
62.5°	1872.3	1894.6	1905.2	1985.3	2148.9	2294.6	2151.3	1991.3	1886.9	1862.3	1842.4
65°	2061.5	2079.8	2091.7	2177.2	2333.5	2479.4	2344.1	2186.5	2079.1	2046.9	2030.9
67.5°	2149.6	2159.6	2188.8	2285.6	2450.5	2617.1	2478.4	2295.9	2175.9	2119.3	2120.0
70°	2020.6	2000.3	2070.8	2225.7	2464.5	2701.6	2496.4	2221.1	2074.1	1982.4	2004.3
72.5°	1561.4	1526.5	1648.9	1913.9	2304.9	2647.7	2320.8	1928.8	1725.0	1538.8	1585.0
75°	849.5	810.0	978.9	1314.0	1838.1	2294.9	1880.3	1351.6	1089.9	843.2	898.1
77.5°	239.7	224.8	361.1	635.7	1105.6	1611.3	1148.1	649.7	428.3	254.0	282.3
80°	73.5	71.2	96.4	191.5	469.5	771.7	451.2	193.8	122.7	77.5	81.8
82.5°	43.6	39.9	47.9	69.8	119.7	242.4	116.4	72.8	58.5	39.2	42.6
85°	24.9	23.3	28.3	33.9	40.2	51.5	33.6	34.6	31.3	20.9	21.9
87.5°	10.3	9.3	11.0	10.6	9.3	12.0	9.0	10.6	12.6	8.3	7.6
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)