

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: P881942

Luminaire Tested: **NAV-SB1C-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881942
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-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

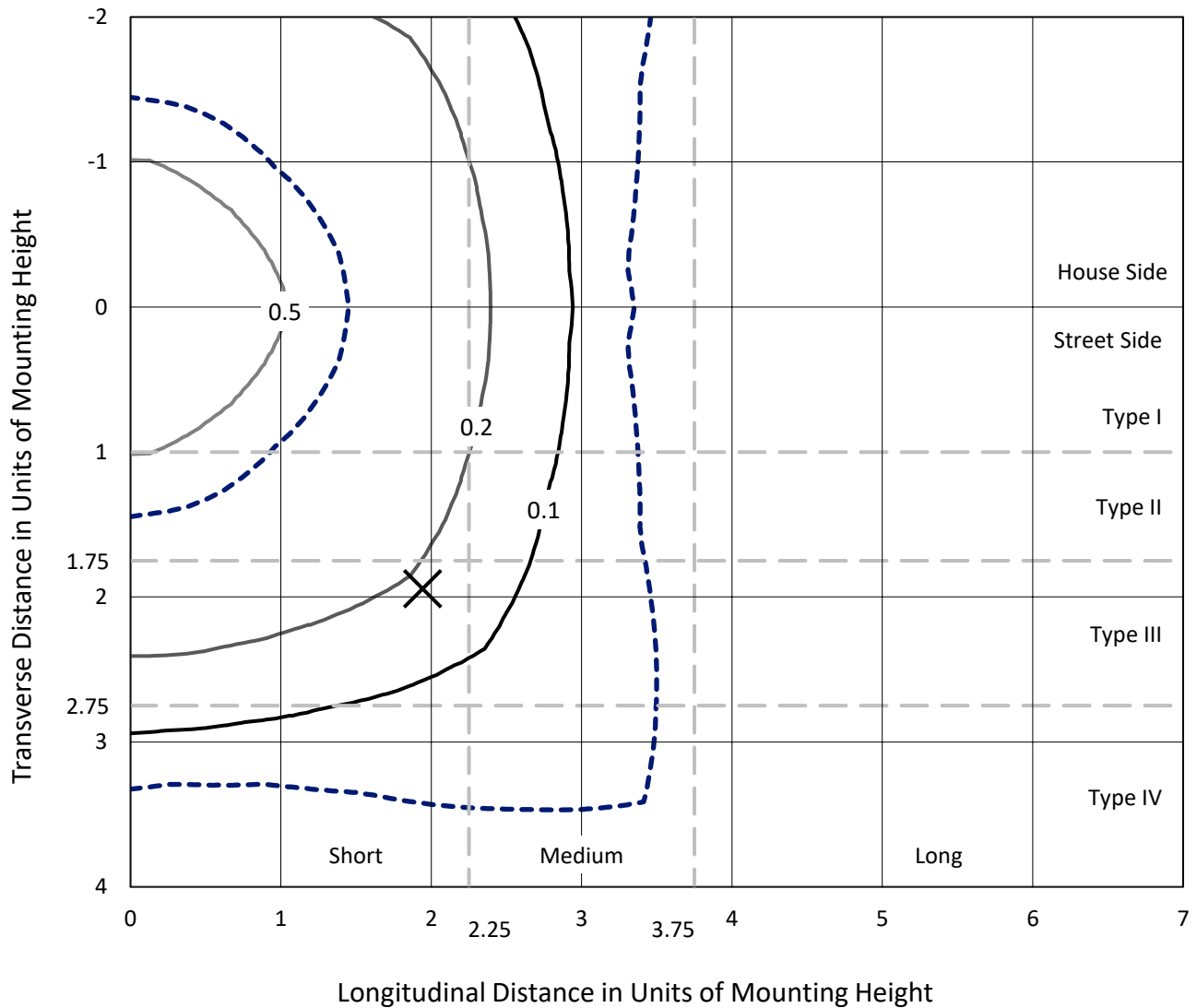
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

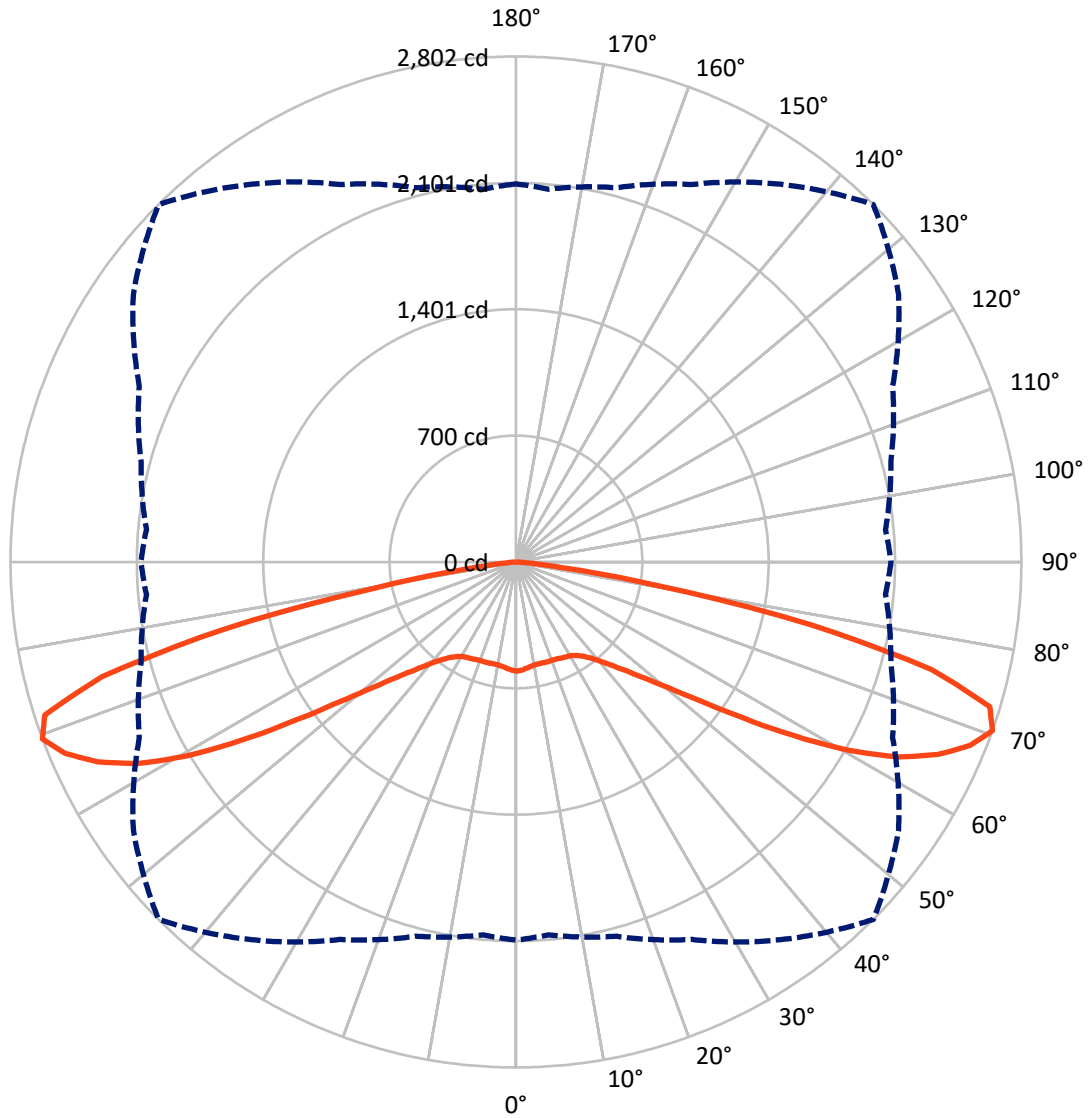
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	3317.0	0.0	3317.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3317.0	0.0	3317.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6634.0	0.0	6634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.8
10°-20°	165.3	2.5
20°-30°	275.1	4.1
30°-40°	416.0	6.3
40°-50°	691.3	10.4
50°-60°	1304.4	19.7
60°-70°	2202.6	33.2
70°-80°	1447.3	21.8
80°-90°	75.8	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°	6634.0	100.0
0°-180°	6634.0	100.0



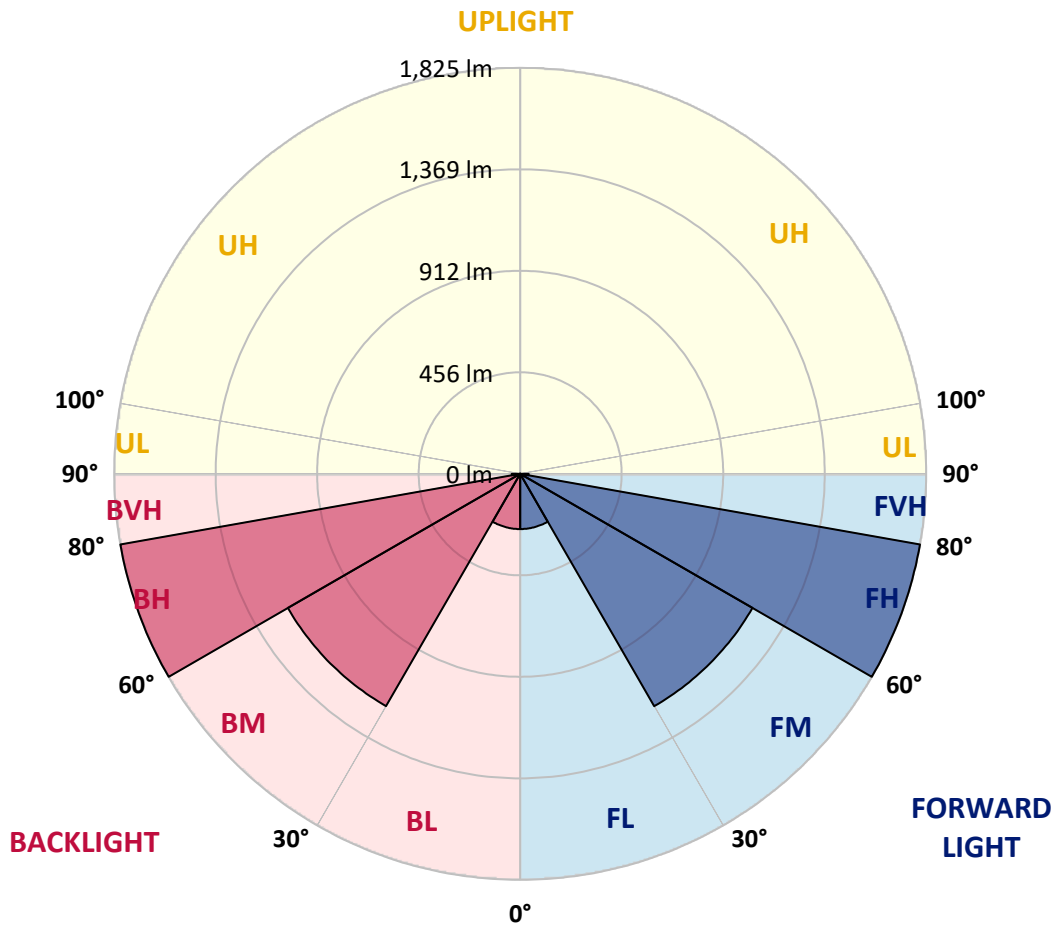
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.3	3.7			
FM (30°-60°)	1205.8	18.2			
FH (60°-80°)	1824.9	27.5			G2/5000
FVH (80°-90°)	37.9	0.6			G1/100
BL (0°-30°)	248.3	3.7	B1/500		
BM (30°-60°)	1205.8	18.2	B2/2500		
BH (60°-80°)	1824.9	27.5	B3/2500		G2/5000
BVH (80°-90°)	37.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2	605.2
2.5°	601.4	603.1	602.4	601.0	601.0	600.0	601.0	601.7	602.7	603.4	603.1
5°	593.4	594.8	594.5	593.4	593.8	592.7	593.4	594.5	595.2	595.5	595.5
7.5°	586.5	587.9	587.2	585.5	585.5	584.5	584.8	585.8	586.9	587.2	587.2
10°	584.8	586.2	584.1	581.4	580.3	578.9	579.3	580.3	582.4	583.4	583.4
12.5°	585.5	586.5	584.5	580.3	579.3	577.9	577.9	578.9	581.7	583.1	583.4
15°	587.6	588.6	585.5	581.0	580.0	578.9	578.6	580.0	583.1	585.5	585.8
17.5°	591.4	592.4	587.6	581.4	580.0	580.3	580.0	581.0	585.8	590.3	590.3
20°	594.8	595.5	588.9	581.4	580.0	580.3	580.0	582.1	588.3	594.5	594.8
22.5°	595.8	596.5	590.3	583.8	582.7	583.1	582.7	584.8	590.7	596.9	596.9
25°	596.2	597.2	592.4	587.2	588.9	589.6	588.9	589.3	593.8	599.3	598.9
27.5°	601.4	602.7	598.3	593.8	594.8	594.5	595.5	596.5	600.0	605.5	604.1
30°	612.1	613.1	609.3	604.8	604.1	601.7	604.8	608.3	612.1	616.9	615.8
32.5°	629.6	631.7	626.9	622.1	618.9	617.6	620.0	625.8	631.0	636.2	634.1
35°	658.9	660.3	655.8	646.9	641.4	641.4	643.4	651.0	659.3	665.8	663.4
37.5°	700.3	702.0	694.1	683.4	675.2	675.2	677.9	685.8	698.3	707.6	704.1
40°	750.7	753.1	743.1	732.0	724.1	722.7	726.2	735.2	746.9	758.6	754.8
42.5°	811.4	814.1	801.0	791.4	785.1	785.1	786.9	795.1	805.8	820.3	819.3
45°	888.9	893.8	875.8	866.2	860.3	861.7	862.7	870.0	879.6	896.2	895.5
47.5°	981.4	986.2	967.2	957.2	956.2	962.7	958.6	963.8	968.9	987.9	982.4
50°	1086.2	1094.5	1081.3	1080.7	1082.7	1094.8	1085.1	1087.9	1082.0	1094.1	1086.9
52.5°	1214.4	1226.5	1224.1	1228.2	1251.3	1276.2	1254.1	1244.4	1222.4	1226.2	1213.4
55°	1370.0	1388.2	1391.7	1416.5	1468.9	1519.6	1472.7	1433.8	1386.9	1378.2	1364.8
57.5°	1546.9	1561.3	1577.9	1628.6	1726.5	1816.5	1726.5	1640.3	1566.5	1548.9	1536.5
60°	1737.2	1755.1	1771.0	1845.8	1991.3	2117.9	1988.6	1851.7	1754.1	1730.3	1709.6
62.5°	1941.7	1964.8	1975.8	2058.9	2228.6	2379.6	2231.0	2065.1	1956.8	1931.3	1910.6
65°	2137.9	2156.8	2169.2	2257.9	2419.9	2571.3	2431.0	2267.5	2156.1	2122.7	2106.1
67.5°	2229.2	2239.6	2269.9	2370.3	2541.3	2714.1	2570.3	2381.0	2256.5	2197.9	2198.6
70°	2095.5	2074.4	2147.5	2308.2	2555.8	2801.6	2588.9	2303.4	2151.0	2055.8	2078.6
72.5°	1619.3	1583.1	1709.9	1984.8	2390.3	2745.8	2406.8	2000.3	1788.9	1595.8	1643.7
75°	881.0	840.0	1015.1	1362.7	1906.2	2379.9	1949.9	1401.7	1130.3	874.5	931.4
77.5°	248.6	233.1	374.5	659.3	1146.5	1671.0	1190.7	673.8	444.1	263.4	292.7
80°	76.2	73.8	100.0	198.6	486.9	800.3	467.9	201.0	127.2	80.3	84.8
82.5°	45.2	41.4	49.7	72.4	124.1	251.4	120.7	75.5	60.7	40.7	44.1
85°	25.9	24.1	29.3	35.2	41.7	53.4	34.8	35.9	32.4	21.7	22.8
87.5°	10.7	9.7	11.4	11.0	9.7	12.4	9.3	11.0	13.1	8.6	7.9
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)