

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: P960491

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6979.2 lumens
Efficiency: N/A
Efficacy: 128.3 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): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



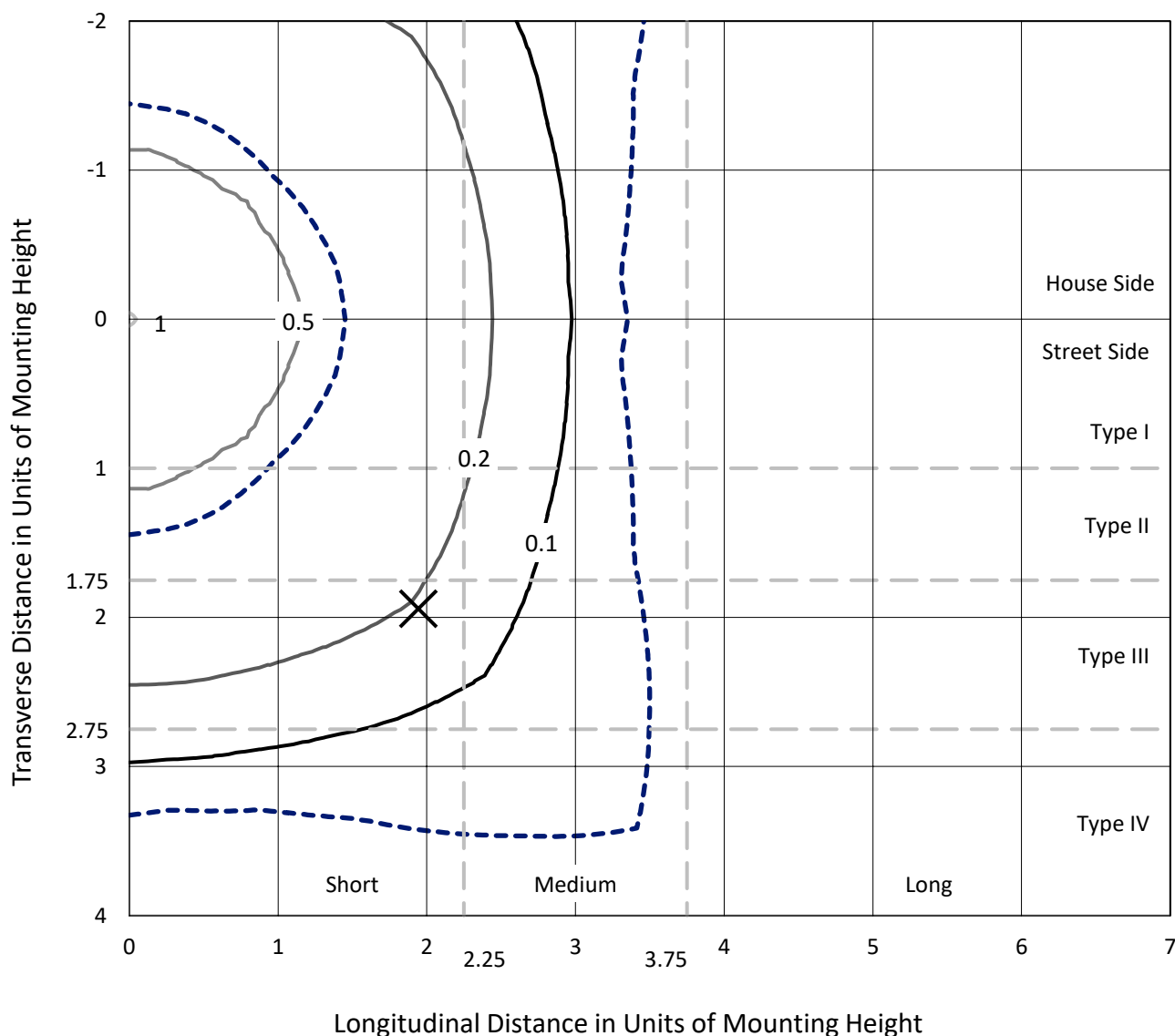
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

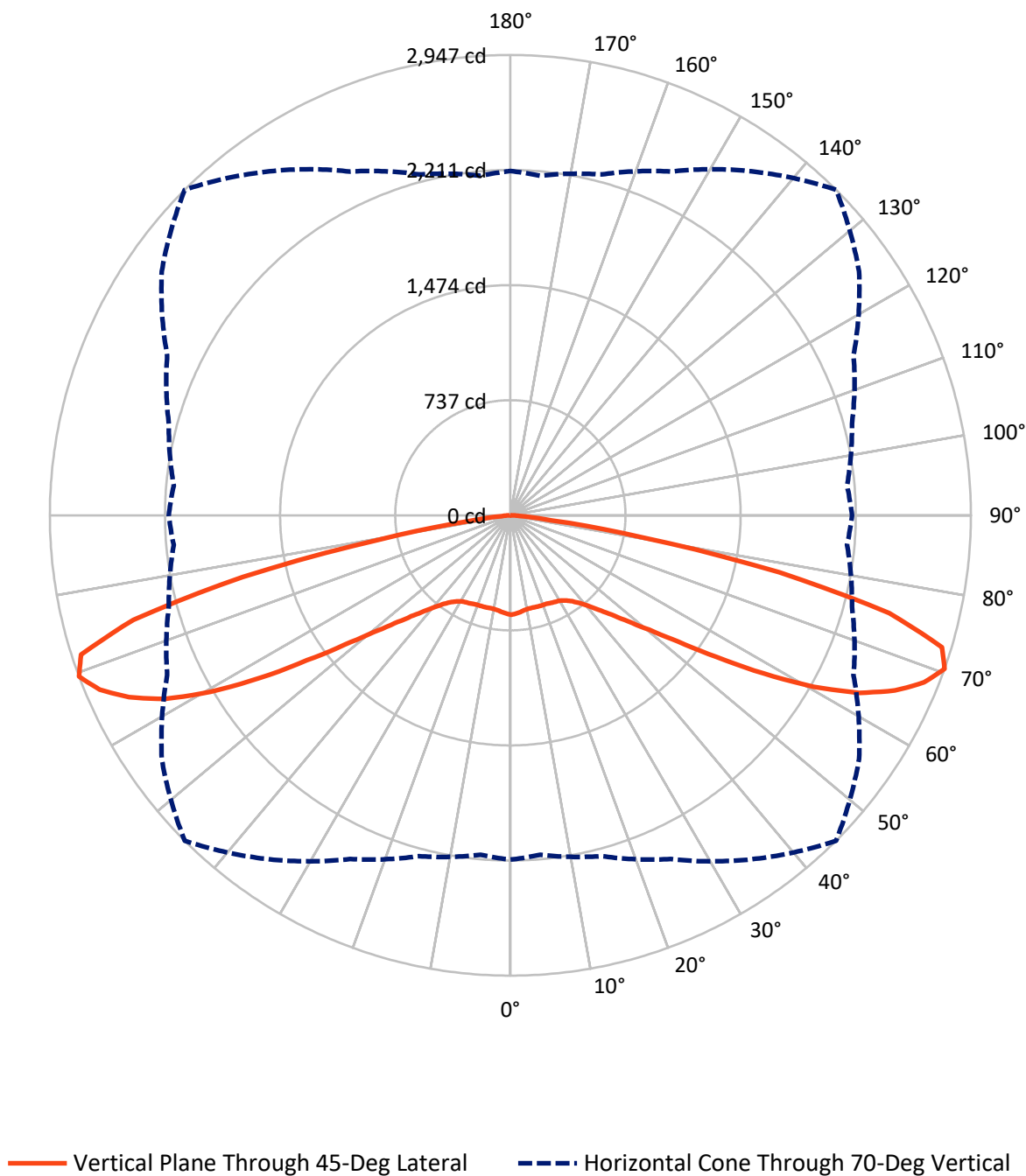


Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3489.6	0.0	3489.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3489.6	0.0	3489.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6979.2	0.0	6979.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	0.8
10°-20°	173.9	2.5
20°-30°	289.4	4.1
30°-40°	437.6	6.3
40°-50°	727.2	10.4
50°-60°	1372.3	19.7
60°-70°	2317.2	33.2
70°-80°	1522.6	21.8
80°-90°	79.8	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°	6979.2	100.0
0°-180°	6979.2	100.0

Coefficient of Utilization



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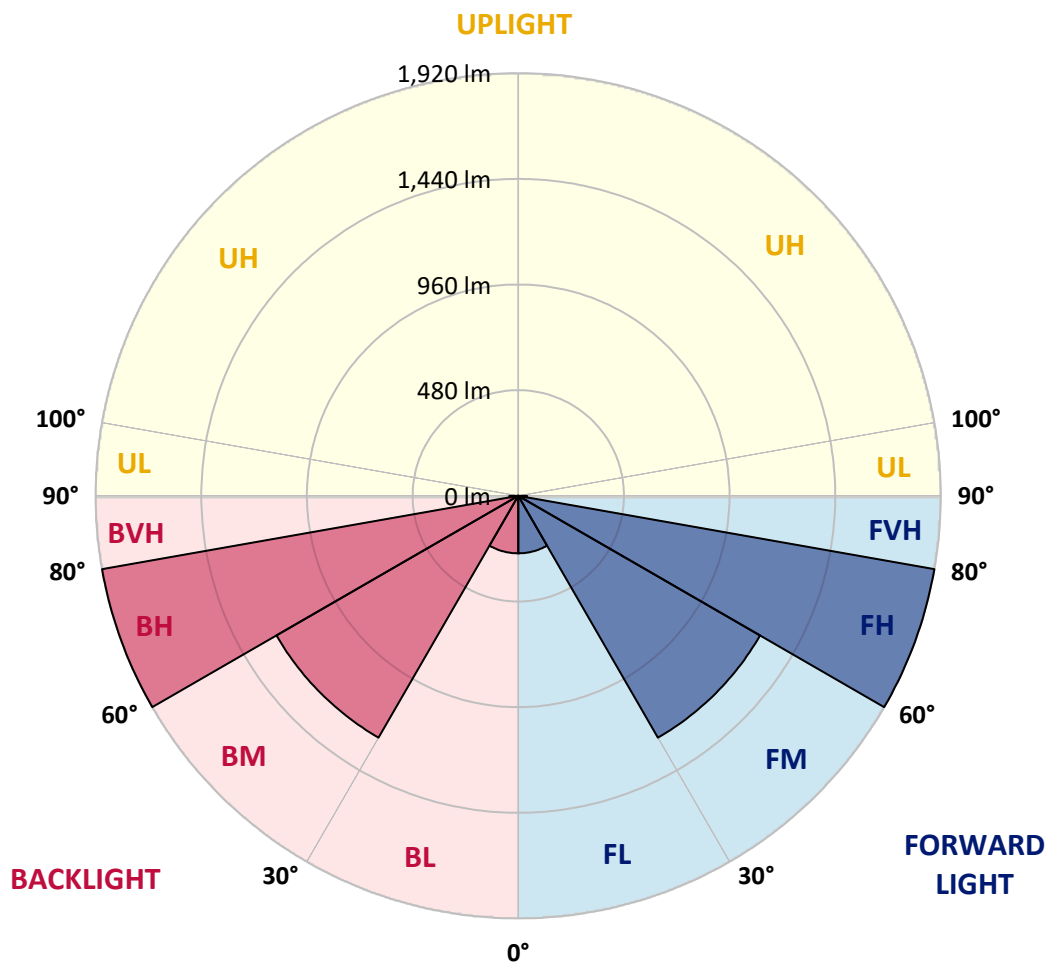
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.2	3.7			
FM	(30°-60°)	1268.6	18.2			
FH	(60°-80°)	1919.9	27.5			G2/5000
FVH	(80°-90°)	39.9	0.6			G1/100
BL	(0°-30°)	261.2	3.7	B1/500		
BM	(30°-60°)	1268.6	18.2	B2/2500		
BH	(60°-80°)	1919.9	27.5	B3/2500		G2/5000
BVH	(80°-90°)	39.9	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°	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
2.5°	632.6	634.5	633.8	632.3	632.3	631.2	632.3	633.0	634.1	634.8	634.5
5°	624.3	625.8	625.4	624.3	624.6	623.6	624.3	625.4	626.2	626.5	626.5
7.5°	617.0	618.5	617.8	615.9	615.9	614.9	615.2	616.3	617.5	617.8	617.8
10°	615.2	616.7	614.5	611.6	610.5	609.1	609.5	610.5	612.7	613.8	613.8
12.5°	615.9	617.0	614.9	610.5	609.5	608.0	608.0	609.1	612.0	613.5	613.8
15°	618.2	619.2	615.9	611.2	610.2	609.1	608.7	610.2	613.5	615.9	616.3
17.5°	622.2	623.2	618.2	611.6	610.2	610.5	610.2	611.2	616.3	621.0	621.0
20°	625.8	626.5	619.6	611.6	610.2	610.5	610.2	612.3	618.9	625.4	625.8
22.5°	626.9	627.6	621.0	614.2	613.1	613.5	613.1	615.2	621.5	627.9	627.9
25°	627.2	628.3	623.2	617.8	619.6	620.3	619.6	619.9	624.6	630.5	630.1
27.5°	632.6	634.1	629.3	624.6	625.8	625.4	626.5	627.6	631.2	637.0	635.6
30°	643.9	645.0	641.0	636.3	635.6	633.0	636.3	639.9	643.9	649.0	647.9
32.5°	662.4	664.6	659.5	654.5	651.2	649.7	652.2	658.5	663.9	669.3	667.1
35°	693.2	694.6	689.9	680.5	674.8	674.8	676.9	684.9	693.6	700.5	697.9
37.5°	736.8	738.6	730.2	719.0	710.3	710.3	713.2	721.5	734.6	744.4	740.8
40°	789.8	792.2	781.8	770.2	761.8	760.3	763.9	773.4	785.8	798.1	794.1
42.5°	853.6	856.5	842.7	832.5	826.0	826.0	827.8	836.5	847.8	863.0	861.9
45°	935.2	940.2	921.4	911.2	905.1	906.5	907.6	915.2	925.4	942.8	942.1
47.5°	1032.4	1037.5	1017.5	1007.1	1005.9	1012.8	1008.5	1013.9	1019.4	1039.4	1033.5
50°	1142.7	1151.4	1137.6	1136.9	1139.1	1151.8	1141.6	1144.5	1138.4	1151.1	1143.4
52.5°	1277.7	1290.4	1287.8	1292.1	1316.5	1342.5	1319.4	1309.2	1286.0	1290.0	1276.5
55°	1441.3	1460.5	1464.1	1490.2	1545.4	1598.7	1549.4	1508.4	1459.0	1450.0	1435.8
57.5°	1627.4	1642.6	1660.0	1713.3	1816.3	1911.0	1816.3	1725.7	1648.0	1629.5	1616.4
60°	1827.6	1846.4	1863.1	1941.9	2094.9	2228.0	2092.0	1948.0	1845.4	1820.3	1798.6
62.5°	2042.7	2067.0	2078.6	2166.0	2344.5	2503.5	2347.0	2172.6	2058.7	2031.9	2010.0
65°	2249.2	2269.0	2282.2	2375.3	2545.9	2705.1	2557.5	2385.5	2268.3	2233.2	2215.7
67.5°	2345.2	2356.2	2388.0	2493.6	2673.5	2855.3	2704.1	2504.9	2373.9	2312.2	2313.0
70°	2204.5	2182.3	2259.3	2428.3	2688.8	2947.4	2723.6	2423.2	2262.9	2162.8	2186.7
72.5°	1703.6	1665.4	1799.0	2088.0	2514.6	2888.7	2532.1	2104.4	1882.0	1678.8	1729.3
75°	926.8	883.7	1067.9	1433.7	2005.3	2503.8	2051.4	1474.7	1189.1	919.9	979.8
77.5°	261.6	245.2	393.9	693.6	1206.2	1758.0	1252.7	708.8	467.2	277.2	308.0
80°	80.2	77.6	105.2	209.0	512.2	841.9	492.3	211.5	133.9	84.6	89.3
82.5°	47.6	43.6	52.3	76.2	130.6	264.4	127.0	79.4	63.9	42.8	46.4
85°	27.2	25.4	30.9	37.0	43.9	56.3	36.6	37.7	34.1	22.9	24.0
87.5°	11.3	10.1	12.0	11.6	10.1	13.0	9.8	11.6	13.7	9.0	8.3
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)