

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: P882282

Luminaire Tested: **NAV-SB2A-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882282
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-SB2A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 8092 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

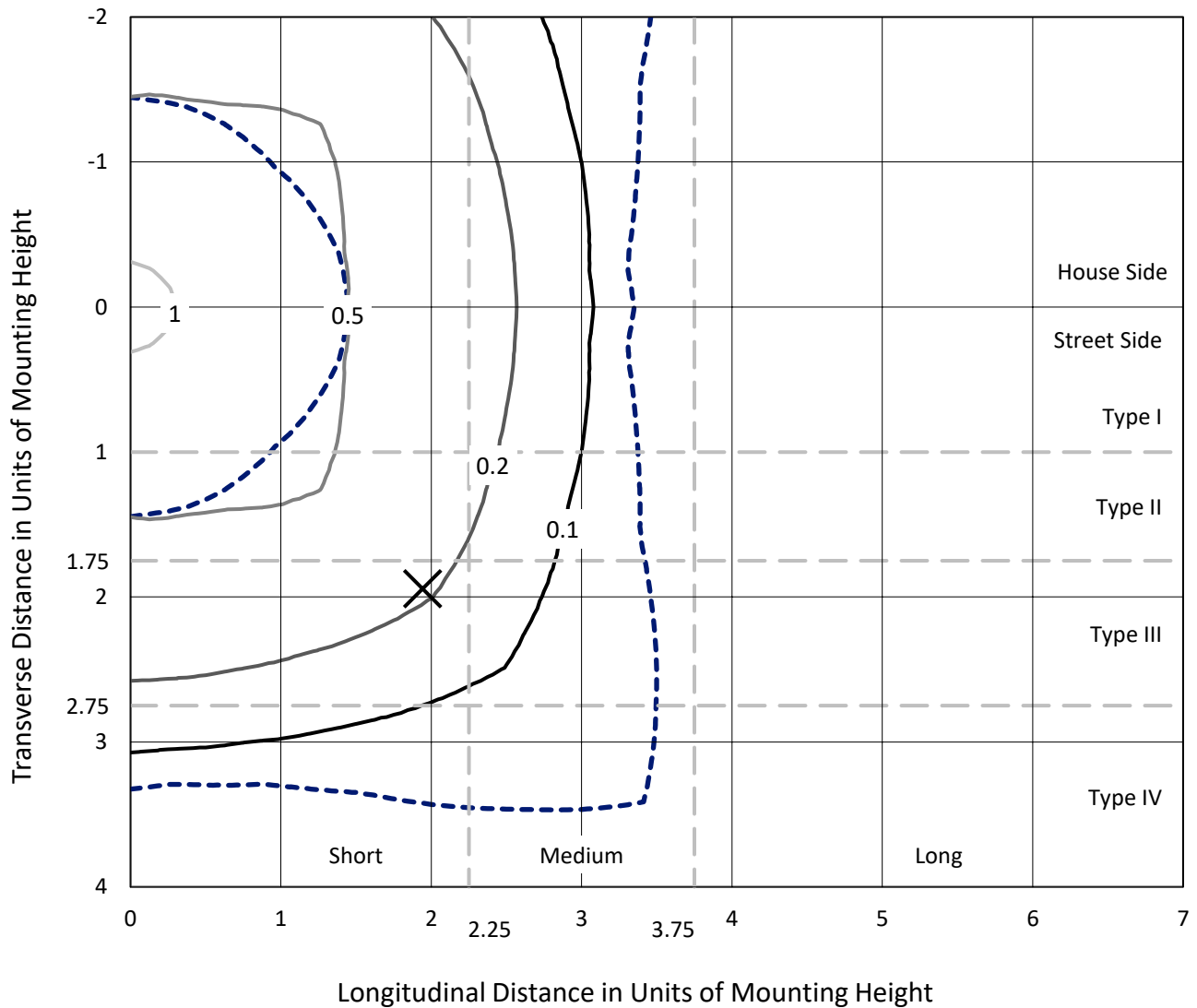
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

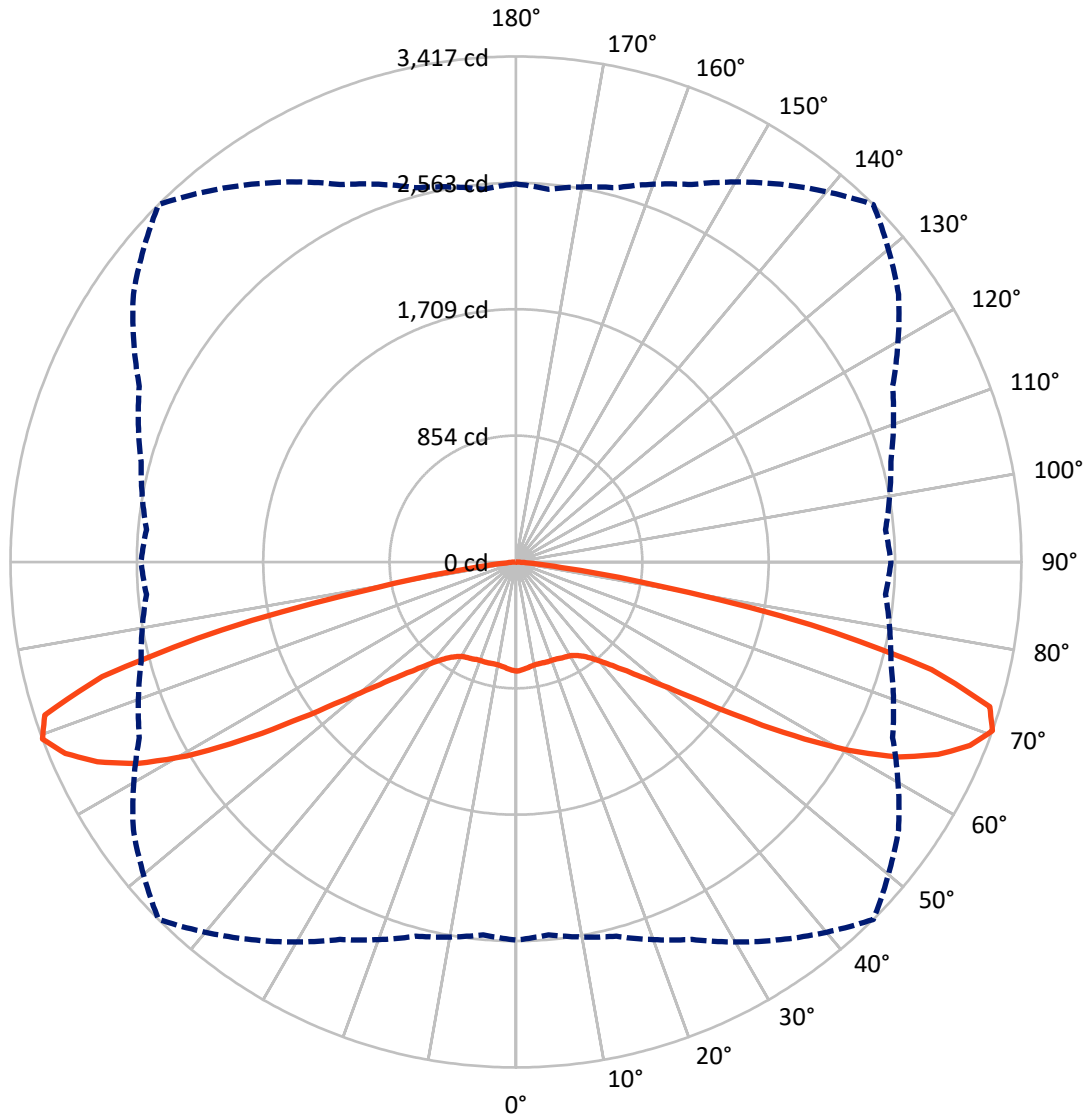
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	4046.0	0.0	4046.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4046.0	0.0	4046.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8092.0	0.0	8092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	0.8
10°-20°	201.6	2.5
20°-30°	335.5	4.1
30°-40°	507.4	6.3
40°-50°	843.2	10.4
50°-60°	1591.1	19.7
60°-70°	2686.6	33.2
70°-80°	1765.4	21.8
80°-90°	92.5	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°	8092.0	100.0
0°-180°	8092.0	100.0

Coefficient of Utilization



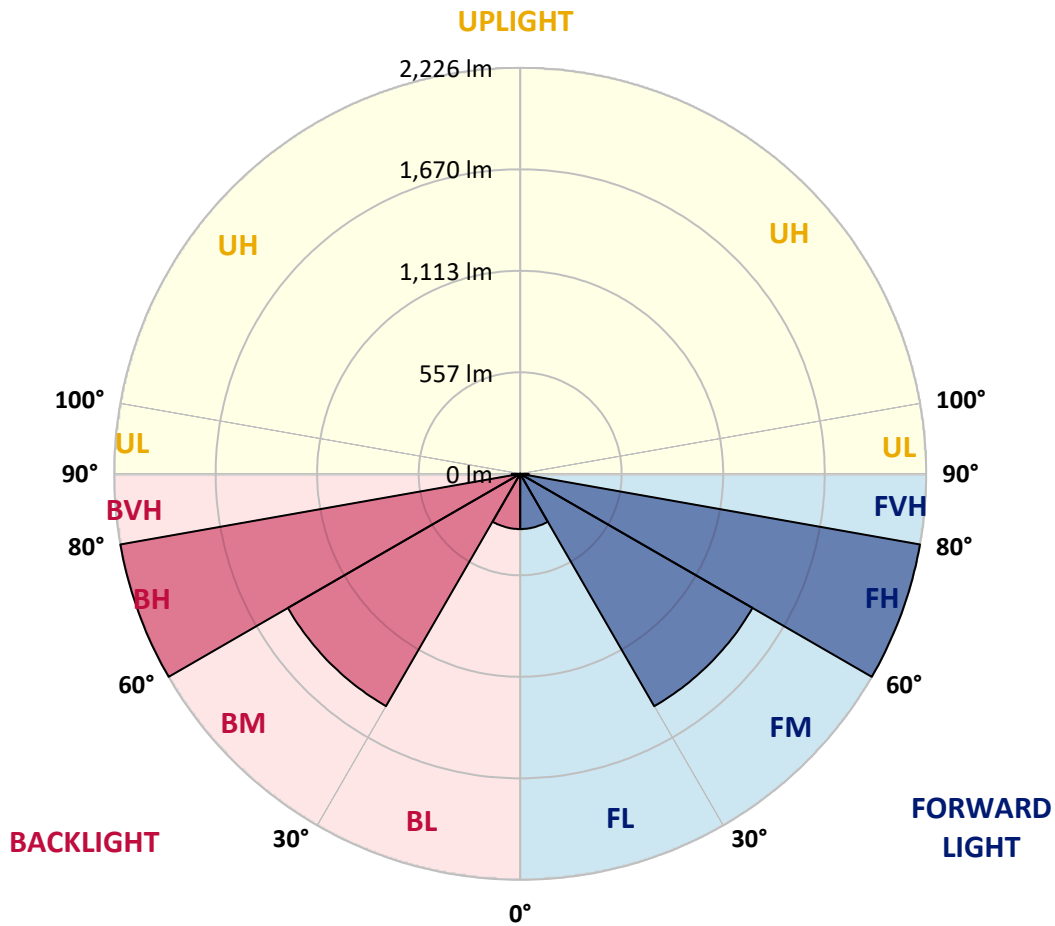
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.9	3.7			
FM (30°-60°)	1470.8	18.2			
FH (60°-80°)	2226.0	27.5			G2/5000
FVH (80°-90°)	46.2	0.6			G1/100
BL (0°-30°)	302.9	3.7	B1/500		
BM (30°-60°)	1470.8	18.2	B2/2500		
BH (60°-80°)	2226.0	27.5	B3/2500		G2/5000
BVH (80°-90°)	46.2	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	733.5	735.6	734.8	733.1	733.1	731.8	733.1	733.9	735.2	736.1	735.6
5°	723.9	725.5	725.1	723.9	724.3	723.0	723.9	725.1	726.0	726.4	726.4
7.5°	715.4	717.1	716.3	714.2	714.2	712.9	713.3	714.6	715.9	716.3	716.3
10°	713.3	715.0	712.5	709.1	707.9	706.2	706.6	707.9	710.4	711.7	711.7
12.5°	714.2	715.4	712.9	707.9	706.6	704.9	704.9	706.2	709.6	711.2	711.7
15°	716.7	718.0	714.2	708.7	707.4	706.2	705.8	707.4	711.2	714.2	714.6
17.5°	721.3	722.6	716.7	709.1	707.4	707.9	707.4	708.7	714.6	720.1	720.1
20°	725.5	726.4	718.4	709.1	707.4	707.9	707.4	710.0	717.5	725.1	725.5
22.5°	726.8	727.6	720.1	712.1	710.8	711.2	710.8	713.3	720.5	728.1	728.1
25°	727.2	728.5	722.6	716.3	718.4	719.2	718.4	718.8	724.3	731.0	730.6
27.5°	733.5	735.2	729.7	724.3	725.5	725.1	726.4	727.6	731.8	738.6	736.9
30°	746.6	747.8	743.2	737.7	736.9	733.9	737.7	741.9	746.6	752.5	751.2
32.5°	768.0	770.5	764.7	758.8	755.0	753.3	756.2	763.4	769.7	776.0	773.5
35°	803.8	805.4	800.0	789.0	782.3	782.3	784.8	794.1	804.2	812.2	809.2
37.5°	854.2	856.3	846.7	833.6	823.5	823.5	826.9	836.6	851.7	863.1	858.9
40°	915.6	918.6	906.4	892.9	883.3	881.6	885.8	896.7	911.0	925.3	920.7
42.5°	989.7	993.0	977.1	965.3	957.7	957.7	959.8	969.9	982.9	1000.6	999.3
45°	1084.3	1090.2	1068.3	1056.5	1049.4	1051.1	1052.3	1061.2	1073.0	1093.1	1092.3
47.5°	1197.0	1202.9	1179.8	1167.6	1166.3	1174.3	1169.3	1175.6	1181.9	1205.0	1198.3
50°	1324.9	1335.0	1319.0	1318.2	1320.7	1335.4	1323.6	1327.0	1319.8	1334.6	1325.7
52.5°	1481.4	1496.1	1493.1	1498.2	1526.4	1556.6	1529.7	1517.9	1491.0	1495.7	1480.1
55°	1671.0	1693.3	1697.5	1727.8	1791.8	1853.6	1796.4	1748.9	1691.7	1681.1	1664.7
57.5°	1886.8	1904.5	1924.7	1986.5	2105.9	2215.7	2105.9	2000.8	1910.8	1889.3	1874.2
60°	2119.0	2140.9	2160.2	2251.5	2429.0	2583.3	2425.6	2258.6	2139.6	2110.6	2085.3
62.5°	2368.4	2396.6	2410.0	2511.4	2718.3	2902.6	2721.3	2519.0	2386.9	2355.8	2330.5
65°	2607.7	2630.9	2646.0	2754.1	2951.8	3136.4	2965.2	2765.9	2630.0	2589.2	2569.0
67.5°	2719.2	2731.8	2768.8	2891.2	3099.8	3310.5	3135.2	2904.2	2752.4	2680.9	2681.7
70°	2556.0	2530.3	2619.5	2815.5	3117.5	3417.4	3157.9	2809.6	2623.7	2507.6	2535.4
72.5°	1975.1	1931.0	2085.8	2421.0	2915.6	3349.2	2935.8	2439.9	2182.1	1946.5	2005.0
75°	1074.6	1024.6	1238.2	1662.2	2325.1	2903.0	2378.5	1709.7	1378.7	1066.6	1136.0
77.5°	303.3	284.3	456.8	804.2	1398.5	2038.2	1452.3	821.9	541.7	321.3	357.1
80°	93.0	90.0	122.0	242.3	593.9	976.2	570.8	245.2	155.2	98.0	103.5
82.5°	55.1	50.5	60.6	88.3	151.4	306.6	147.2	92.1	74.0	49.6	53.8
85°	31.5	29.4	35.8	42.9	50.9	65.2	42.5	43.7	39.5	26.5	27.8
87.5°	13.0	11.8	13.9	13.5	11.8	15.1	11.4	13.5	16.0	10.5	9.7
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)