

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: P882442

Luminaire Tested: **NAV-SB2B-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882442
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-SB2B-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9432 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

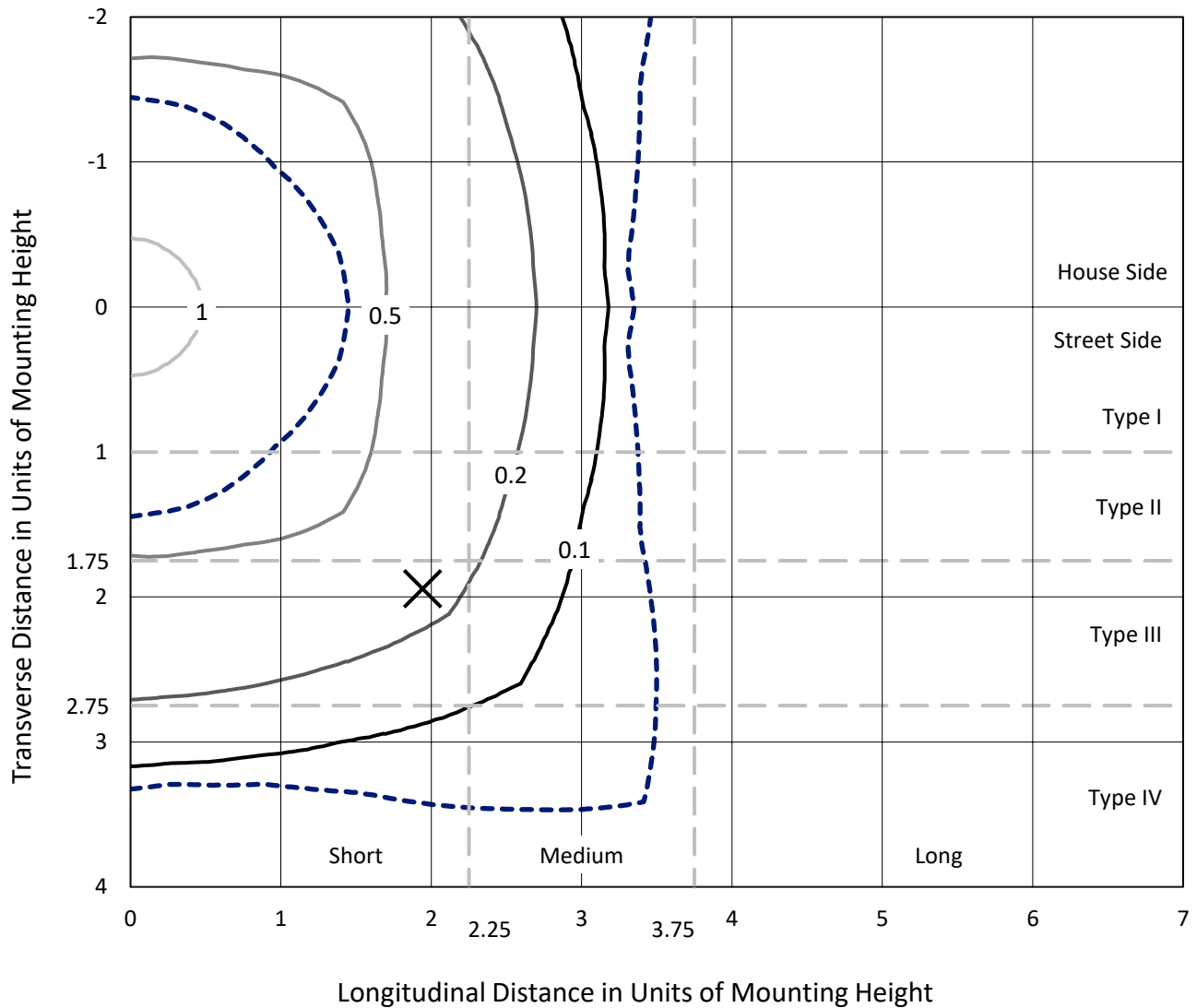
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

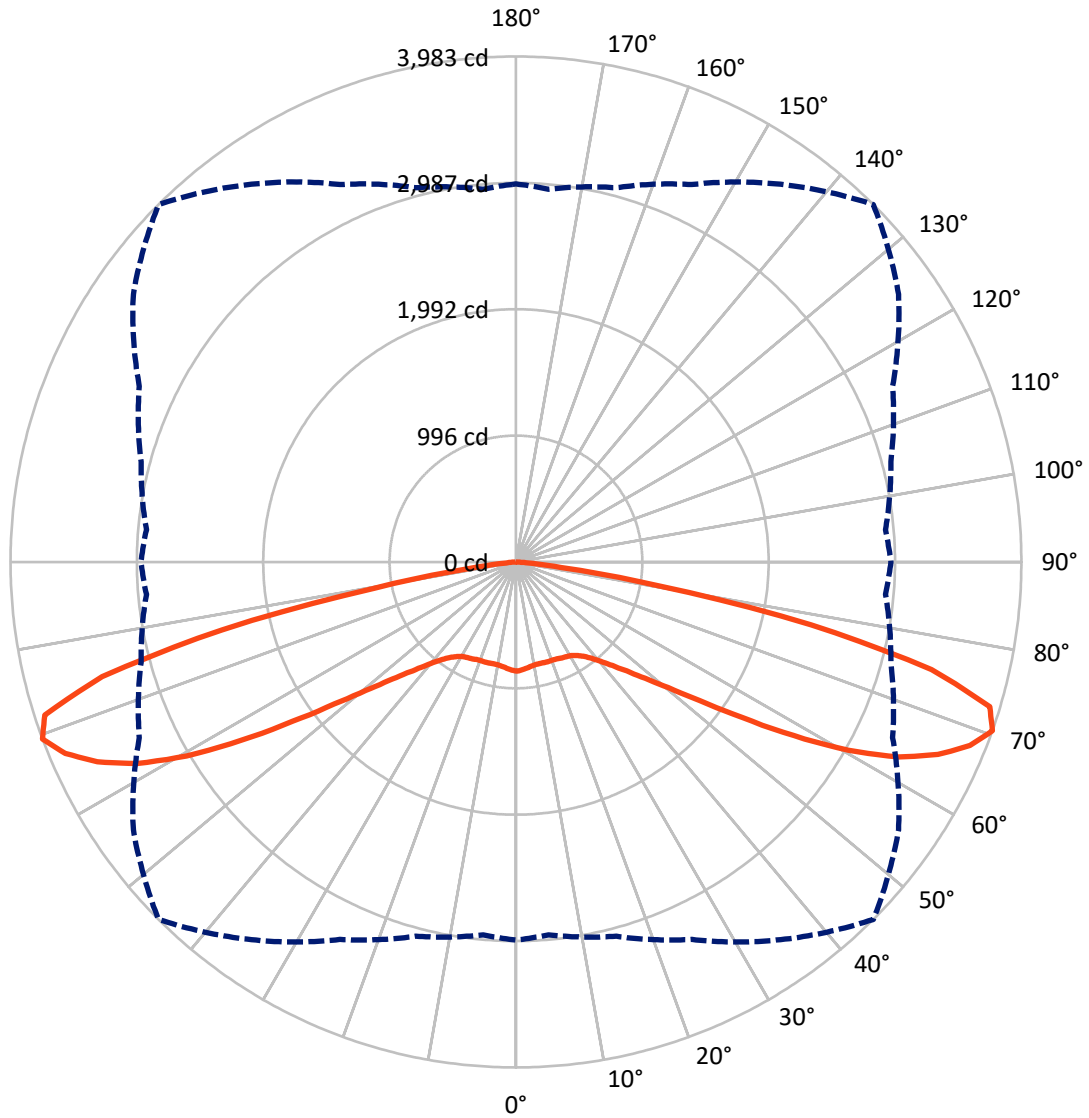
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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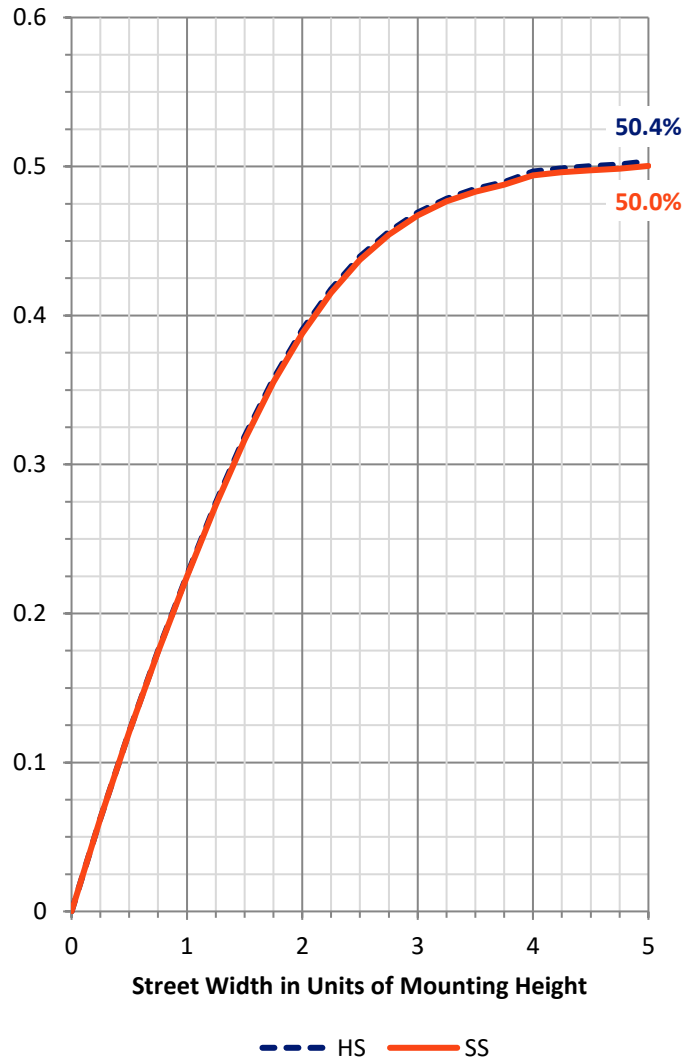
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4716.0	0.0	4716.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4716.0	0.0	4716.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9432.0	0.0	9432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	0.8
10°-20°	235.0	2.5
20°-30°	391.1	4.1
30°-40°	591.4	6.3
40°-50°	982.8	10.4
50°-60°	1854.6	19.7
60°-70°	3131.5	33.2
70°-80°	2057.7	21.8
80°-90°	107.8	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°	9432.0	100.0
0°-180°	9432.0	100.0

Coefficient of Utilization



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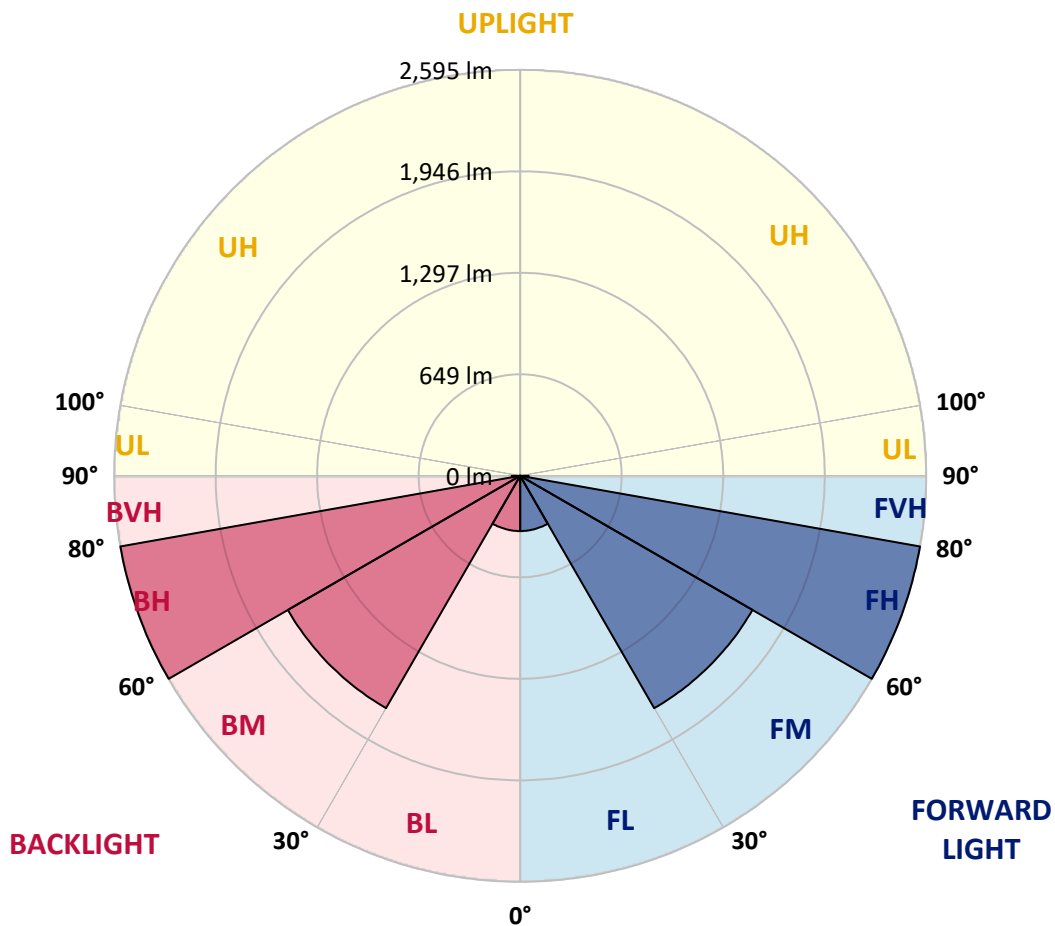
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.1	3.7			
FM (30°-60°)	1714.4	18.2			
FH (60°-80°)	2594.6	27.5			G2/5000
FVH (80°-90°)	53.9	0.6			G1/100
BL (0°-30°)	353.1	3.7	B1/500		
BM (30°-60°)	1714.4	18.2	B2/2500		
BH (60°-80°)	2594.6	27.5	B4/5000		G2/5000
BVH (80°-90°)	53.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	860.4	860.4	860.4	860.4	860.4	860.4	860.4	860.4	860.4	860.4	860.4
2.5°	855.0	857.4	856.5	854.5	854.5	853.0	854.5	855.5	857.0	857.9	857.4
5°	843.7	845.7	845.2	843.7	844.2	842.7	843.7	845.2	846.2	846.7	846.7
7.5°	833.9	835.9	834.9	832.4	832.4	831.0	831.5	832.9	834.4	834.9	834.9
10°	831.5	833.4	830.5	826.6	825.1	823.1	823.6	825.1	828.0	829.5	829.5
12.5°	832.4	833.9	831.0	825.1	823.6	821.7	821.7	823.1	827.1	829.0	829.5
15°	835.4	836.9	832.4	826.1	824.6	823.1	822.6	824.6	829.0	832.4	832.9
17.5°	840.8	842.2	835.4	826.6	824.6	825.1	824.6	826.1	832.9	839.3	839.3
20°	845.7	846.7	837.3	826.6	824.6	825.1	824.6	827.5	836.4	845.2	845.7
22.5°	847.2	848.1	839.3	830.0	828.5	829.0	828.5	831.5	839.8	848.6	848.6
25°	847.6	849.1	842.2	834.9	837.3	838.3	837.3	837.8	844.2	852.1	851.6
27.5°	855.0	857.0	850.6	844.2	845.7	845.2	846.7	848.1	853.0	860.9	858.9
30°	870.2	871.7	866.3	859.9	858.9	855.5	859.9	864.8	870.2	877.1	875.6
32.5°	895.2	898.1	891.3	884.4	880.0	878.0	881.5	889.8	897.2	904.5	901.6
35°	936.9	938.8	932.5	919.7	911.9	911.9	914.8	925.6	937.4	946.7	943.2
37.5°	995.7	998.1	986.9	971.7	959.9	959.9	963.8	975.1	992.8	1006.0	1001.1
40°	1067.3	1070.7	1056.5	1040.8	1029.5	1027.6	1032.5	1045.2	1061.9	1078.5	1073.2
42.5°	1153.6	1157.5	1138.9	1125.1	1116.3	1116.3	1118.7	1130.5	1145.7	1166.3	1164.8
45°	1263.9	1270.7	1245.2	1231.5	1223.2	1225.1	1226.6	1236.9	1250.6	1274.2	1273.2
47.5°	1395.3	1402.1	1375.2	1360.9	1359.5	1368.8	1362.9	1370.2	1377.6	1404.6	1396.7
50°	1544.3	1556.1	1537.4	1536.4	1539.4	1556.5	1542.8	1546.7	1538.4	1555.6	1545.3
52.5°	1726.7	1743.8	1740.4	1746.3	1779.1	1814.4	1783.0	1769.3	1737.9	1743.3	1725.2
55°	1947.8	1973.7	1978.6	2013.9	2088.5	2160.5	2093.9	2038.5	1971.8	1959.5	1940.4
57.5°	2199.3	2219.9	2243.4	2315.4	2454.7	2582.6	2454.7	2332.1	2227.2	2202.2	2184.6
60°	2469.9	2495.4	2517.9	2624.3	2831.2	3011.1	2827.3	2632.6	2493.9	2460.1	2430.7
62.5°	2760.6	2793.4	2809.1	2927.3	3168.5	3383.2	3171.9	2936.1	2782.2	2745.9	2716.5
65°	3039.5	3066.5	3084.2	3210.2	3440.6	3655.8	3456.3	3223.9	3065.5	3018.0	2994.4
67.5°	3169.5	3184.2	3227.3	3370.0	3613.1	3858.8	3654.3	3385.2	3208.2	3124.9	3125.8
70°	2979.2	2949.3	3053.3	3281.7	3633.7	3983.3	3680.8	3274.9	3058.2	2922.9	2955.2
72.5°	2302.2	2250.7	2431.1	2821.9	3398.4	3903.9	3421.9	2843.9	2543.4	2268.9	2337.0
75°	1252.6	1194.2	1443.3	1937.5	2710.1	3383.7	2772.4	1992.9	1607.0	1243.3	1324.2
77.5°	353.5	331.4	532.4	937.4	1630.1	2375.8	1692.8	957.9	631.4	374.6	416.2
80°	108.3	104.9	142.2	282.4	692.2	1137.9	665.3	285.8	180.9	114.2	120.6
82.5°	64.2	58.8	70.6	103.0	176.5	357.4	171.6	107.4	86.3	57.8	62.8
85°	36.8	34.3	41.7	50.0	59.3	76.0	49.5	51.0	46.1	30.9	32.4
87.5°	15.2	13.7	16.2	15.7	13.7	17.6	13.2	15.7	18.6	12.3	11.3
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)