

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: P882272

Luminaire Tested: **NAV-SB2A-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882272
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 7514 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

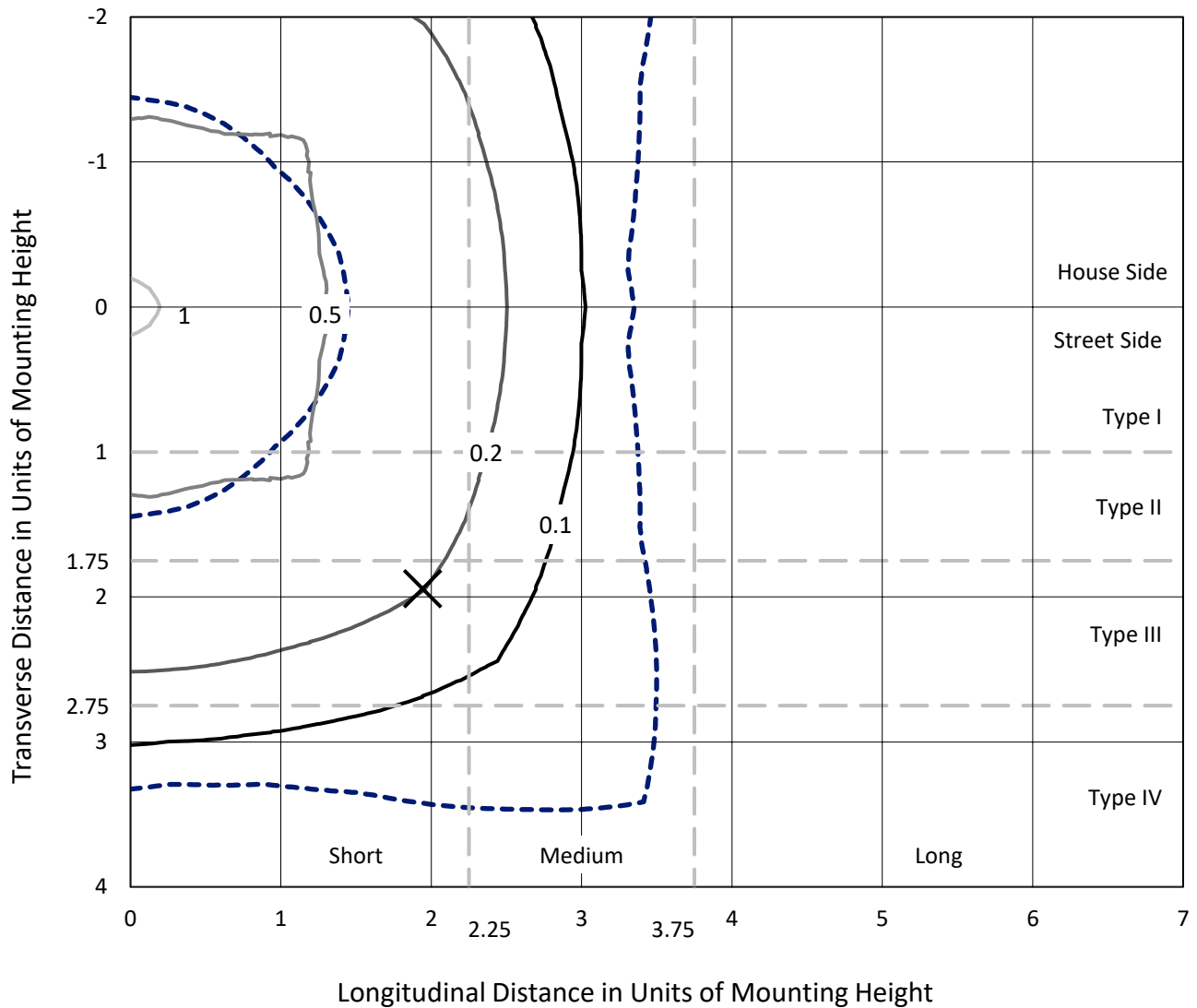
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

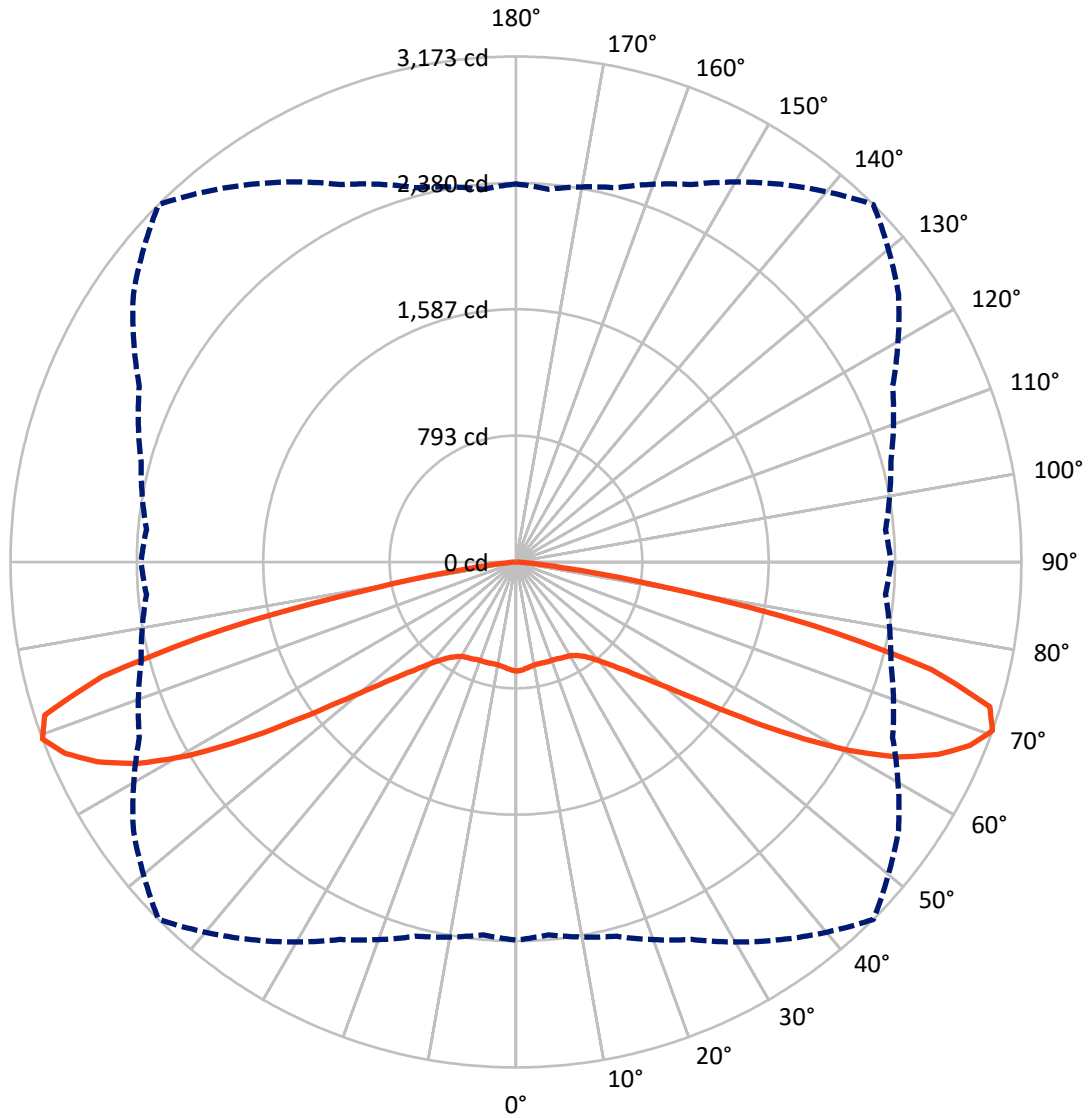
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	3757.0	0.0	3757.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3757.0	0.0	3757.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7514.0	0.0	7514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	0.8
10°-20°	187.2	2.5
20°-30°	311.6	4.1
30°-40°	471.2	6.3
40°-50°	783.0	10.4
50°-60°	1477.4	19.7
60°-70°	2494.7	33.2
70°-80°	1639.3	21.8
80°-90°	85.9	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°	7514.0	100.0
0°-180°	7514.0	100.0

Coefficient of Utilization



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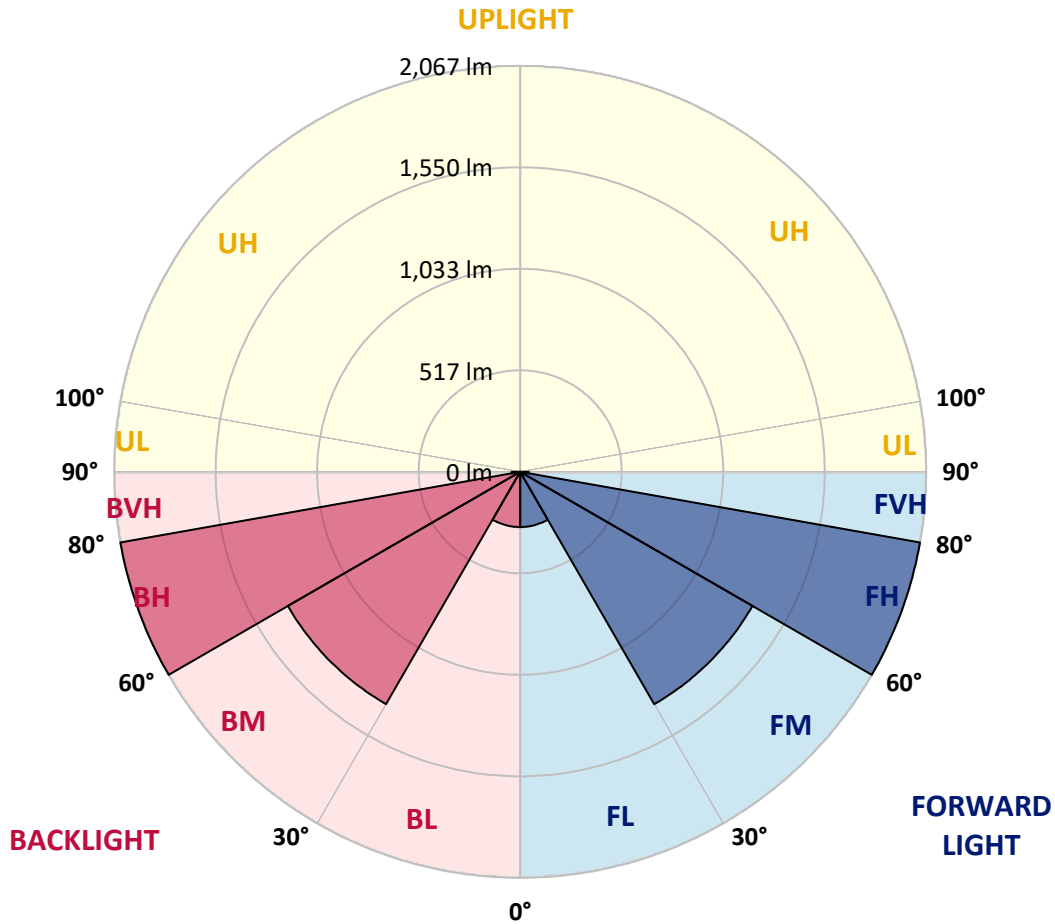
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.3	3.7			
FM (30°-60°)	1365.8	18.2			
FH (60°-80°)	2067.0	27.5			G2/5000
FVH (80°-90°)	42.9	0.6			G1/100
BL (0°-30°)	281.3	3.7	B1/500		
BM (30°-60°)	1365.8	18.2	B2/2500		
BH (60°-80°)	2067.0	27.5	B3/2500		G2/5000
BVH (80°-90°)	42.9	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°	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4
2.5°	681.1	683.1	682.3	680.7	680.7	679.6	680.7	681.5	682.7	683.5	683.1
5°	672.1	673.7	673.3	672.1	672.5	671.4	672.1	673.3	674.1	674.5	674.5
7.5°	664.3	665.9	665.1	663.2	663.2	662.0	662.4	663.6	664.7	665.1	665.1
10°	662.4	663.9	661.6	658.5	657.3	655.7	656.1	657.3	659.7	660.8	660.8
12.5°	663.2	664.3	662.0	657.3	656.1	654.6	654.6	655.7	658.9	660.4	660.8
15°	665.5	666.7	663.2	658.1	656.9	655.7	655.4	656.9	660.4	663.2	663.6
17.5°	669.8	671.0	665.5	658.5	656.9	657.3	656.9	658.1	663.6	668.6	668.6
20°	673.7	674.5	667.1	658.5	656.9	657.3	656.9	659.3	666.3	673.3	673.7
22.5°	674.9	675.7	668.6	661.2	660.0	660.4	660.0	662.4	669.0	676.1	676.1
25°	675.3	676.4	671.0	665.1	667.1	667.9	667.1	667.5	672.5	678.8	678.4
27.5°	681.1	682.7	677.6	672.5	673.7	673.3	674.5	675.7	679.6	685.8	684.3
30°	693.2	694.4	690.1	685.0	684.3	681.5	685.0	688.9	693.2	698.7	697.5
32.5°	713.2	715.5	710.0	704.6	701.1	699.5	702.2	708.9	714.7	720.6	718.2
35°	746.4	747.9	742.8	732.7	726.4	726.4	728.8	737.4	746.7	754.2	751.4
37.5°	793.2	795.2	786.2	774.1	764.7	764.7	767.8	776.8	790.9	801.4	797.5
40°	850.2	853.0	841.7	829.2	820.2	818.6	822.5	832.7	845.9	859.2	854.9
42.5°	919.0	922.1	907.3	896.3	889.3	889.3	891.3	900.6	912.7	929.1	928.0
45°	1006.9	1012.3	992.0	981.1	974.4	976.0	977.2	985.4	996.3	1015.1	1014.3
47.5°	1111.5	1117.0	1095.5	1084.2	1083.0	1090.4	1085.7	1091.6	1097.5	1118.9	1112.7
50°	1230.3	1239.6	1224.8	1224.0	1226.3	1240.0	1229.1	1232.2	1225.6	1239.2	1231.0
52.5°	1375.5	1389.2	1386.5	1391.2	1417.3	1445.5	1420.5	1409.5	1384.5	1388.8	1374.4
55°	1551.7	1572.4	1576.3	1604.4	1663.8	1721.2	1668.1	1623.9	1570.8	1561.1	1545.8
57.5°	1752.0	1768.4	1787.2	1844.6	1955.5	2057.5	1955.5	1857.9	1774.3	1754.4	1740.3
60°	1967.6	1987.9	2005.9	2090.7	2255.5	2398.8	2252.3	2097.3	1986.8	1959.8	1936.4
62.5°	2199.2	2225.4	2237.9	2332.0	2524.2	2695.2	2526.9	2339.0	2216.4	2187.5	2164.1
65°	2421.5	2442.9	2457.0	2557.4	2740.9	2912.4	2753.4	2568.3	2442.2	2404.3	2385.5
67.5°	2525.0	2536.7	2571.0	2684.7	2878.4	3074.1	2911.2	2696.8	2555.8	2489.4	2490.2
70°	2373.4	2349.6	2432.4	2614.4	2894.8	3173.3	2932.3	2608.9	2436.3	2328.5	2354.3
72.5°	1834.1	1793.0	1936.8	2248.0	2707.3	3110.0	2726.1	2265.6	2026.2	1807.5	1861.8
75°	997.9	951.4	1149.8	1543.5	2159.0	2695.6	2208.6	1587.6	1280.2	990.5	1054.9
77.5°	281.6	264.0	424.1	746.7	1298.6	1892.6	1348.6	763.1	503.0	298.4	331.6
80°	86.3	83.6	113.3	225.0	551.5	906.5	530.0	227.7	144.1	91.0	96.1
82.5°	51.2	46.9	56.2	82.0	140.6	284.7	136.7	85.5	68.7	46.1	50.0
85°	29.3	27.3	33.2	39.8	47.3	60.5	39.4	40.6	36.7	24.6	25.8
87.5°	12.1	10.9	12.9	12.5	10.9	14.1	10.5	12.5	14.8	9.8	9.0
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)