

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: P882232

Luminaire Tested: **NAV-SB2A-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882232
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 9248 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

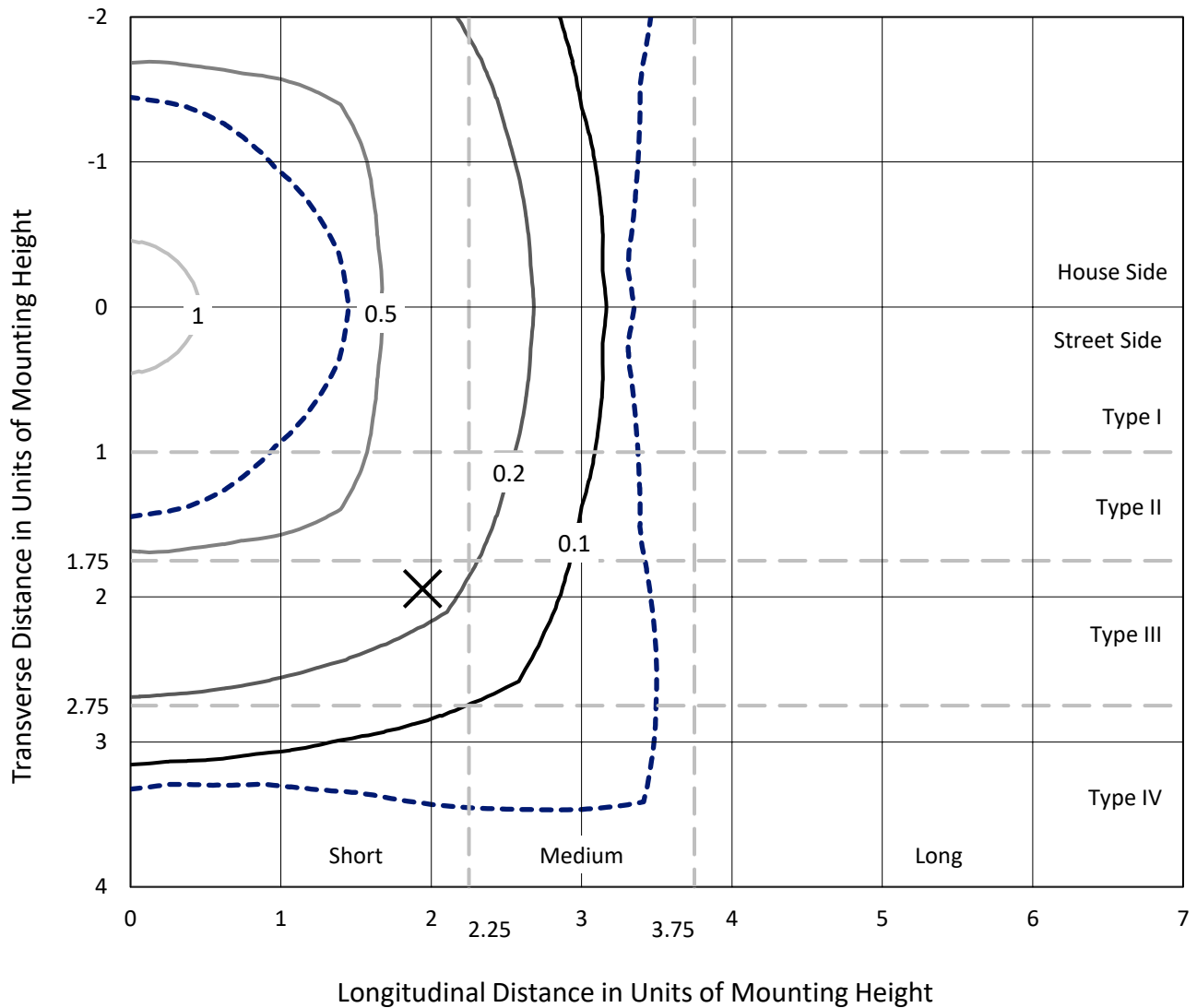
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

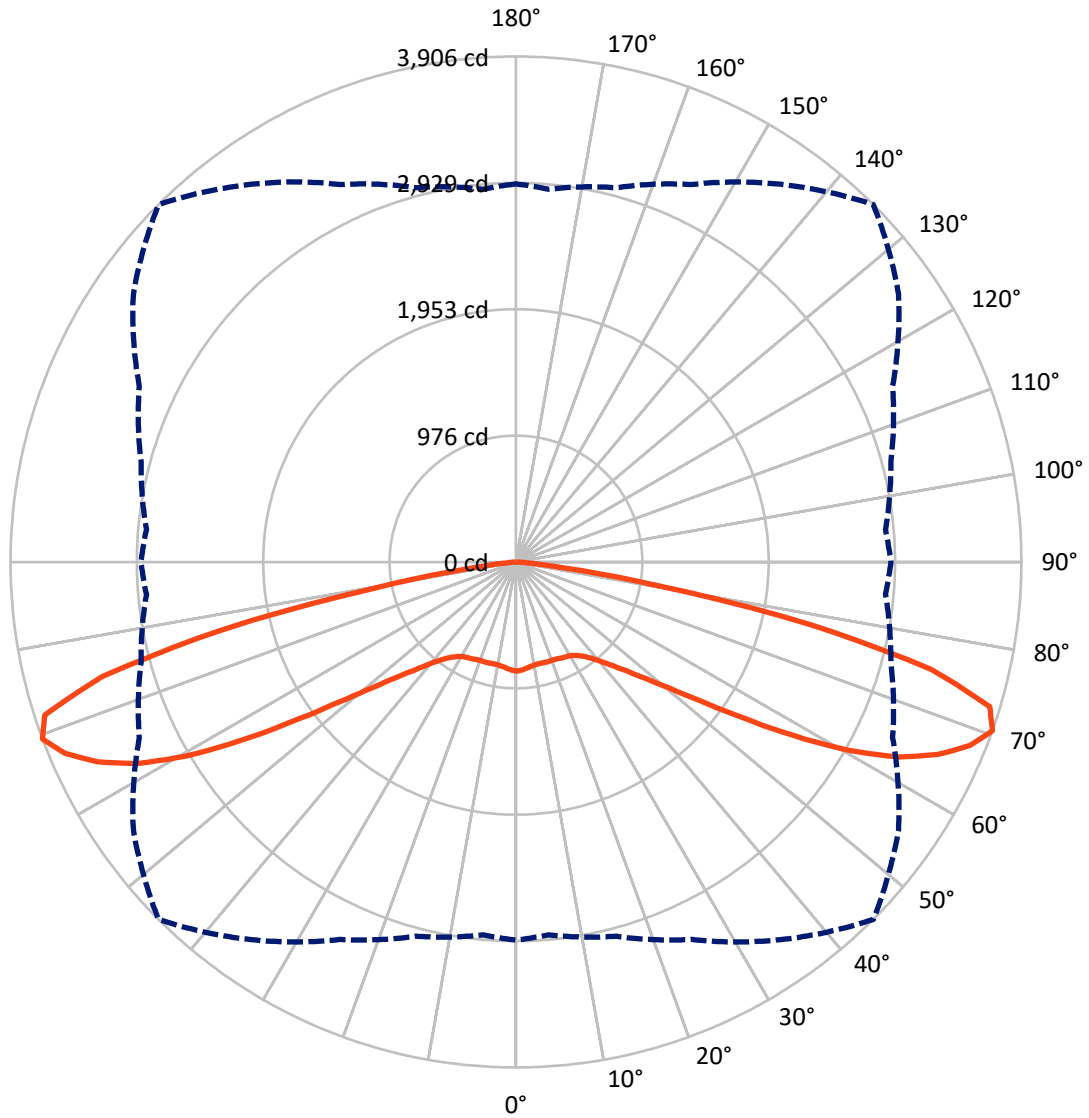
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4624.0	0.0	4624.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4624.0	0.0	4624.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9248.0	0.0	9248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	0.8
10°-20°	230.4	2.5
20°-30°	383.5	4.1
30°-40°	579.9	6.3
40°-50°	963.7	10.4
50°-60°	1818.4	19.7
60°-70°	3070.4	33.2
70°-80°	2017.6	21.8
80°-90°	105.7	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°	9248.0	100.0
0°-180°	9248.0	100.0

Coefficient of Utilization



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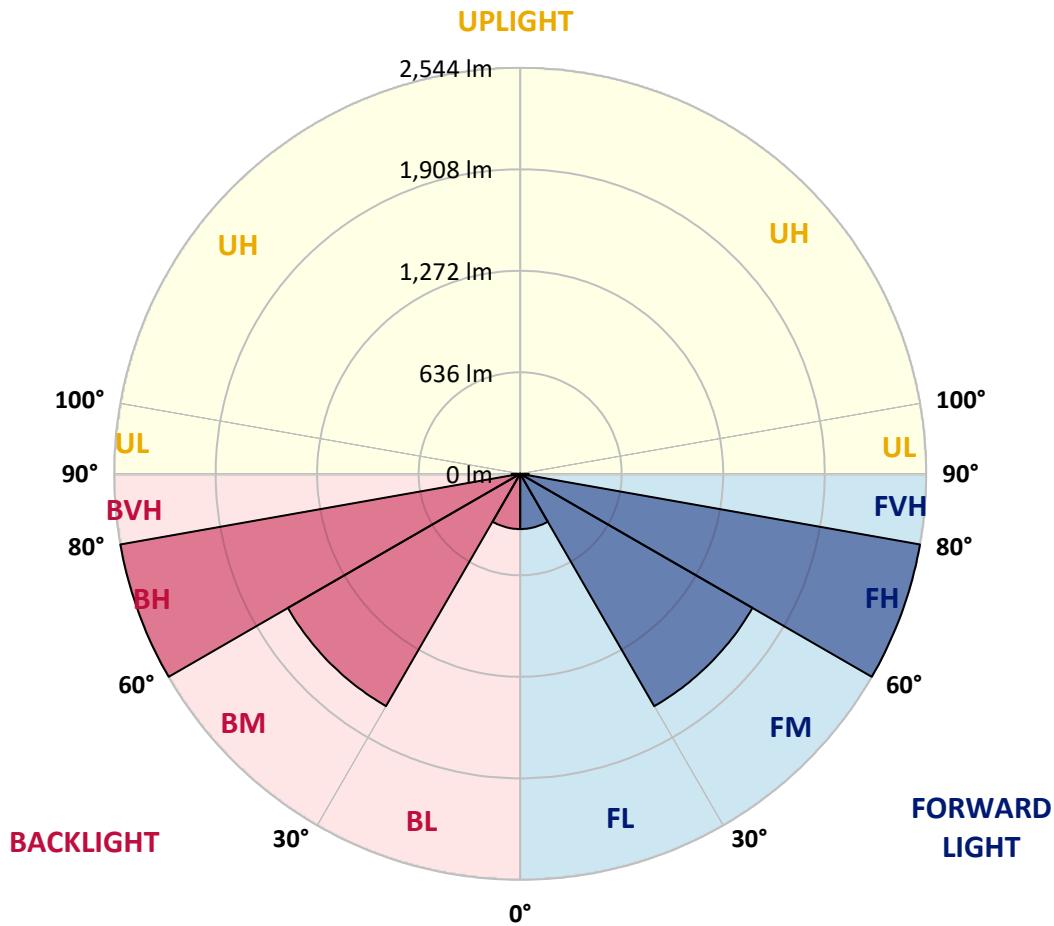
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.2	3.7			
FM (30°-60°)	1681.0	18.2			
FH (60°-80°)	2544.0	27.5			G2/5000
FVH (80°-90°)	52.9	0.6			G1/100
BL (0°-30°)	346.2	3.7	B1/500		
BM (30°-60°)	1681.0	18.2	B2/2500		
BH (60°-80°)	2544.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	52.9	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°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	838.3	840.7	839.8	837.8	837.8	836.4	837.8	838.8	840.2	841.2	840.7
5°	827.3	829.2	828.7	827.3	827.7	826.3	827.3	828.7	829.7	830.1	830.1
7.5°	817.6	819.6	818.6	816.2	816.2	814.8	815.2	816.7	818.1	818.6	818.6
10°	815.2	817.2	814.3	810.4	809.0	807.1	807.6	809.0	811.9	813.3	813.3
12.5°	816.2	817.6	814.8	809.0	807.6	805.6	805.6	807.1	810.9	812.8	813.3
15°	819.1	820.5	816.2	810.0	808.5	807.1	806.6	808.5	812.8	816.2	816.7
17.5°	824.4	825.8	819.1	810.4	808.5	809.0	808.5	810.0	816.7	822.9	822.9
20°	829.2	830.1	821.0	810.4	808.5	809.0	808.5	811.4	820.1	828.7	829.2
22.5°	830.6	831.6	822.9	813.8	812.4	812.8	812.4	815.2	823.4	832.1	832.1
25°	831.1	832.5	825.8	818.6	821.0	822.0	821.0	821.5	827.7	835.4	835.0
27.5°	838.3	840.2	834.0	827.7	829.2	828.7	830.1	831.6	836.4	844.1	842.2
30°	853.2	854.7	849.4	843.1	842.2	838.8	843.1	847.9	853.2	859.9	858.5
32.5°	877.7	880.6	873.9	867.2	862.8	860.9	864.3	872.4	879.7	886.9	884.0
35°	918.6	920.5	914.3	901.8	894.1	894.1	897.0	907.5	919.1	928.2	924.8
37.5°	976.3	978.7	967.6	952.7	941.2	941.2	945.0	956.1	973.4	986.4	981.6
40°	1046.5	1049.8	1035.9	1020.5	1009.4	1007.5	1012.3	1024.8	1041.2	1057.5	1052.2
42.5°	1131.1	1134.9	1116.6	1103.2	1094.5	1094.5	1096.9	1108.5	1123.4	1143.6	1142.1
45°	1239.2	1245.9	1220.9	1207.5	1199.3	1201.2	1202.7	1212.8	1226.2	1249.3	1248.3
47.5°	1368.0	1374.8	1348.3	1334.4	1332.9	1342.1	1336.3	1343.5	1350.7	1377.2	1369.5
50°	1514.2	1525.7	1507.4	1506.5	1509.4	1526.2	1512.7	1516.6	1508.4	1525.2	1515.1
52.5°	1693.0	1709.8	1706.4	1712.2	1744.4	1779.0	1748.3	1734.8	1704.0	1709.3	1691.5
55°	1909.8	1935.2	1940.0	1974.7	2047.7	2118.4	2053.0	1998.7	1933.3	1921.3	1902.6
57.5°	2156.4	2176.5	2199.6	2270.3	2406.8	2532.3	2406.8	2286.6	2183.8	2159.2	2141.9
60°	2421.7	2446.7	2468.8	2573.1	2776.0	2952.4	2772.1	2581.3	2445.2	2412.1	2383.2
62.5°	2706.7	2738.9	2754.3	2870.2	3106.7	3317.2	3110.0	2878.8	2727.9	2692.3	2663.5
65°	2980.3	3006.7	3024.0	3147.5	3373.5	3584.5	3388.8	3161.0	3005.7	2959.1	2936.0
67.5°	3107.6	3122.1	3164.4	3304.2	3542.7	3783.5	3583.0	3319.1	3145.6	3063.9	3064.9
70°	2921.1	2891.8	2993.7	3217.7	3562.8	3905.6	3609.0	3211.0	2998.5	2865.8	2897.6
72.5°	2257.3	2206.8	2383.7	2766.8	3332.1	3827.7	3355.2	2788.5	2493.8	2224.6	2291.4
75°	1228.2	1171.0	1415.1	1899.7	2657.2	3317.7	2718.3	1954.0	1575.7	1219.0	1298.3
77.5°	346.6	324.9	522.0	919.1	1598.3	2329.4	1659.8	939.3	619.1	367.2	408.1
80°	106.2	102.9	139.4	276.9	678.7	1115.7	652.3	280.2	177.4	112.0	118.2
82.5°	63.0	57.7	69.2	100.9	173.0	350.4	168.2	105.3	84.6	56.7	61.5
85°	36.1	33.6	40.9	49.0	58.2	74.5	48.5	50.0	45.2	30.3	31.7
87.5°	14.9	13.5	15.9	15.4	13.5	17.3	13.0	15.4	18.3	12.0	11.1
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)