

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: P882462

Luminaire Tested: **NAV-SB2B-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882462
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-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 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: 9795 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

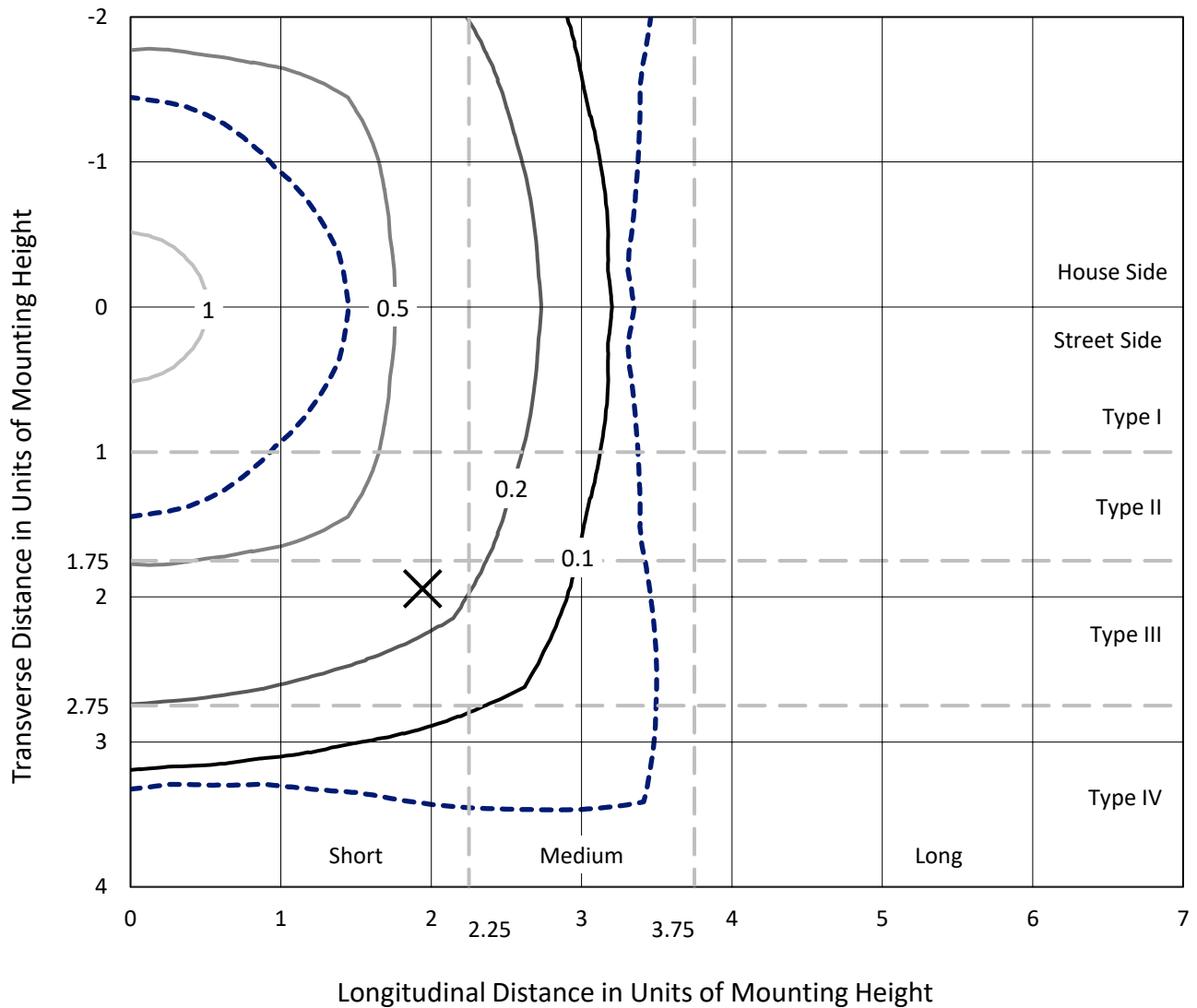
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

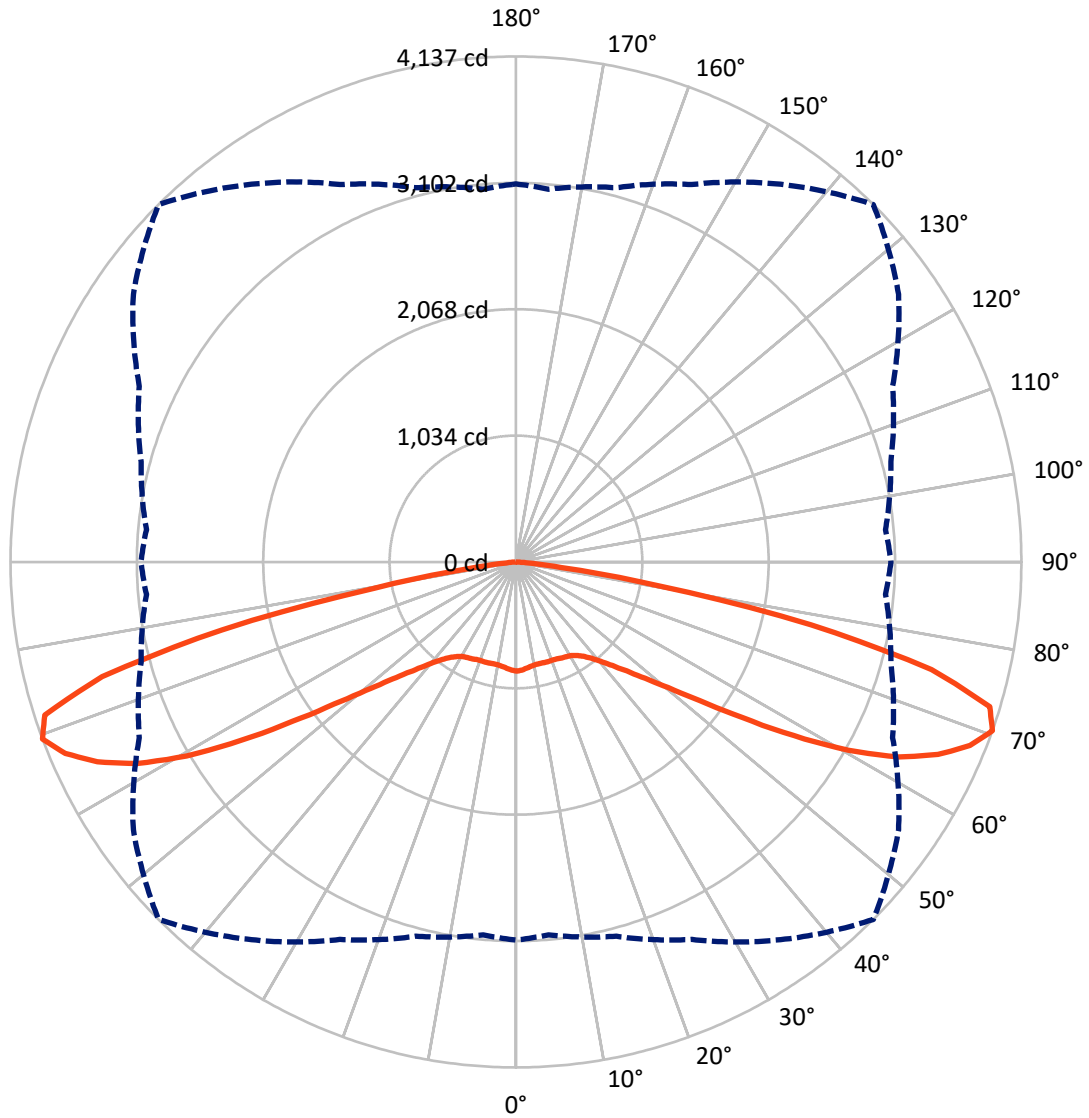
✕ Max cd
 - - - 1/2 Max cd



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	4897.5	0.0	4897.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4897.5	0.0	4897.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9795.0	0.0	9795.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	0.8
10°-20°	244.0	2.5
20°-30°	406.1	4.1
30°-40°	614.2	6.3
40°-50°	1020.7	10.4
50°-60°	1925.9	19.7
60°-70°	3252.0	33.2
70°-80°	2136.9	21.8
80°-90°	112.0	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°	9795.0	100.0
0°-180°	9795.0	100.0



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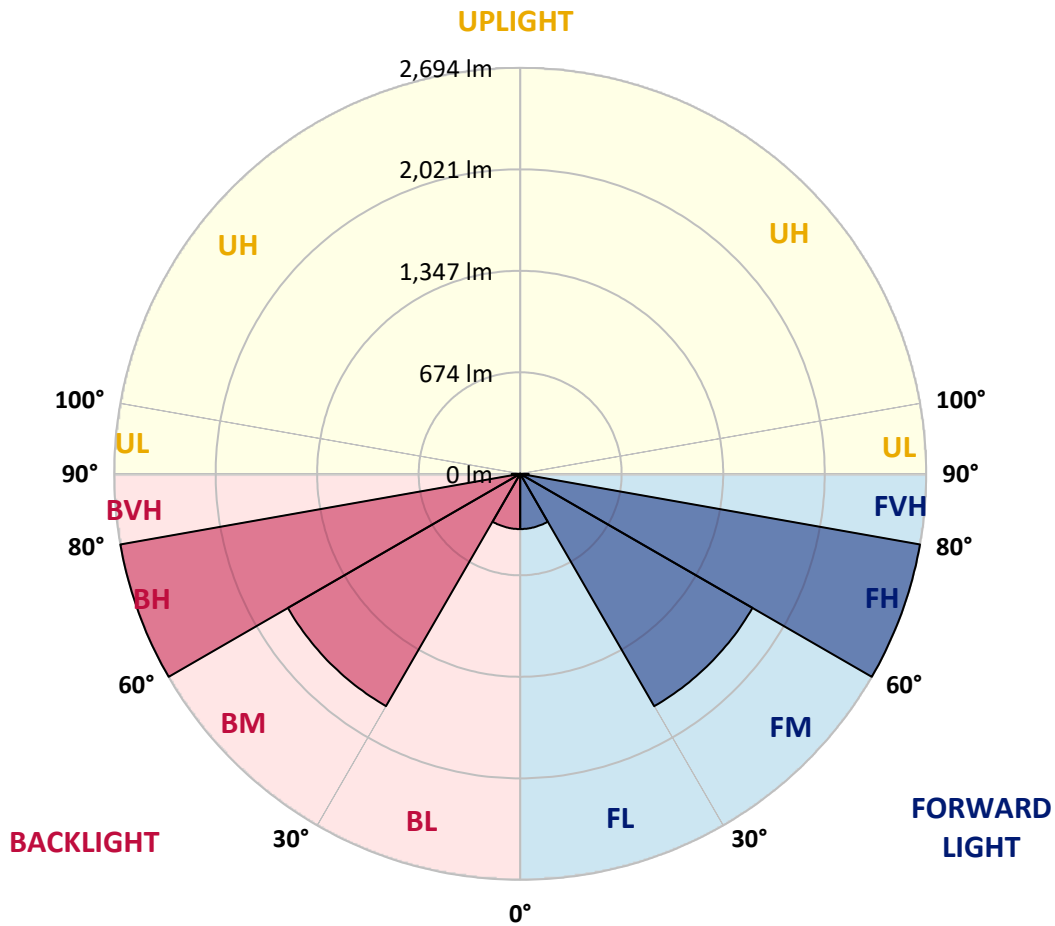
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.7	3.7			
FM (30°-60°)	1780.4	18.2			
FH (60°-80°)	2694.5	27.5			G2/5000
FVH (80°-90°)	56.0	0.6			G1/100
BL (0°-30°)	366.7	3.7	B1/500		
BM (30°-60°)	1780.4	18.2	B2/2500		
BH (60°-80°)	2694.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	56.0	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°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	887.9	890.4	889.4	887.4	887.4	885.9	887.4	888.4	889.9	891.0	890.4
5°	876.2	878.2	877.7	876.2	876.7	875.2	876.2	877.7	878.7	879.2	879.2
7.5°	866.0	868.0	867.0	864.5	864.5	863.0	863.5	865.0	866.5	867.0	867.0
10°	863.5	865.5	862.4	858.4	856.8	854.8	855.3	856.8	859.9	861.4	861.4
12.5°	864.5	866.0	863.0	856.8	855.3	853.3	853.3	854.8	858.9	860.9	861.4
15°	867.5	869.1	864.5	857.9	856.3	854.8	854.3	856.3	860.9	864.5	865.0
17.5°	873.1	874.7	867.5	858.4	856.3	856.8	856.3	857.9	865.0	871.6	871.6
20°	878.2	879.2	869.6	858.4	856.3	856.8	856.3	859.4	868.6	877.7	878.2
22.5°	879.8	880.8	871.6	861.9	860.4	860.9	860.4	863.5	872.1	881.3	881.3
25°	880.3	881.8	874.7	867.0	869.6	870.6	869.6	870.1	876.7	884.8	884.3
27.5°	887.9	889.9	883.3	876.7	878.2	877.7	879.2	880.8	885.9	894.0	892.0
30°	903.7	905.2	899.6	893.0	892.0	888.4	893.0	898.1	903.7	910.8	909.3
32.5°	929.6	932.7	925.6	918.4	913.9	911.8	915.4	924.0	931.7	939.3	936.3
35°	972.9	975.0	968.3	955.1	947.0	947.0	950.0	961.2	973.4	983.1	979.5
37.5°	1034.0	1036.6	1024.9	1009.1	996.9	996.9	1000.9	1012.6	1031.0	1044.7	1039.6
40°	1108.3	1111.9	1097.1	1080.9	1069.1	1067.1	1072.2	1085.4	1102.7	1120.1	1114.5
42.5°	1198.0	1202.0	1182.7	1168.4	1159.3	1159.3	1161.8	1174.0	1189.8	1211.2	1209.7
45°	1312.5	1319.6	1293.2	1278.9	1270.2	1272.3	1273.8	1284.5	1298.8	1323.2	1322.2
47.5°	1448.9	1456.1	1428.1	1413.3	1411.8	1421.5	1415.3	1423.0	1430.6	1458.6	1450.5
50°	1603.7	1615.9	1596.6	1595.6	1598.6	1616.4	1602.2	1606.3	1597.6	1615.4	1604.7
52.5°	1793.1	1810.9	1807.4	1813.5	1847.6	1884.2	1851.7	1837.4	1804.8	1810.4	1791.6
55°	2022.7	2049.7	2054.8	2091.5	2168.8	2243.7	2174.4	2116.9	2047.7	2034.9	2015.1
57.5°	2283.9	2305.3	2329.7	2404.6	2549.2	2682.0	2549.2	2421.9	2312.9	2287.0	2268.6
60°	2564.9	2591.4	2614.8	2725.3	2940.2	3127.0	2936.1	2734.0	2589.9	2554.8	2524.2
62.5°	2866.8	2901.0	2917.2	3039.9	3290.4	3513.4	3294.0	3049.1	2889.2	2851.6	2821.0
65°	3156.5	3184.5	3202.9	3333.7	3573.0	3796.5	3589.3	3348.0	3183.5	3134.1	3109.7
67.5°	3291.4	3306.7	3351.5	3499.7	3752.2	4007.3	3795.0	3515.5	3331.7	3245.1	3246.1
70°	3093.9	3062.9	3170.8	3408.0	3773.6	4136.6	3822.5	3400.9	3175.9	3035.4	3069.0
72.5°	2390.8	2337.4	2524.7	2930.5	3529.2	4054.1	3553.6	2953.4	2641.3	2356.2	2427.0
75°	1300.8	1240.2	1498.8	2012.0	2814.4	3513.9	2879.1	2069.6	1668.9	1291.1	1375.1
77.5°	367.1	344.2	552.9	973.4	1692.8	2467.2	1758.0	994.8	655.7	389.0	432.2
80°	112.5	109.0	147.6	293.3	718.9	1181.7	690.9	296.8	187.9	118.6	125.2
82.5°	66.7	61.1	73.3	106.9	183.3	371.1	178.2	111.5	89.6	60.1	65.2
85°	38.2	35.6	43.3	51.9	61.6	78.9	51.4	52.9	47.9	32.1	33.6
87.5°	15.8	14.3	16.8	16.3	14.3	18.3	13.7	16.3	19.3	12.7	11.7
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)