

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: P882212

Luminaire Tested: **NAV-SB2A-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882212
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 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: 8381 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

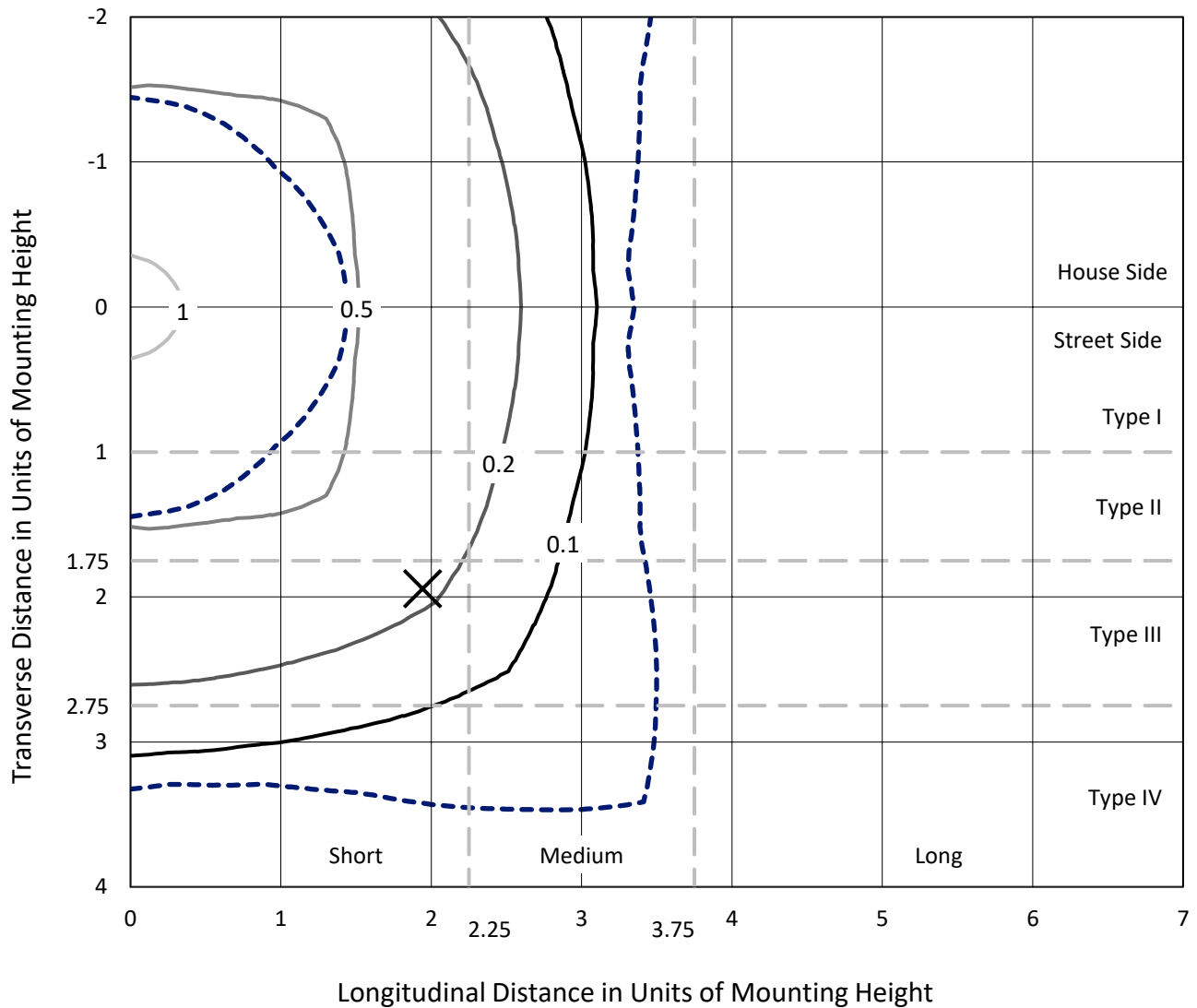
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

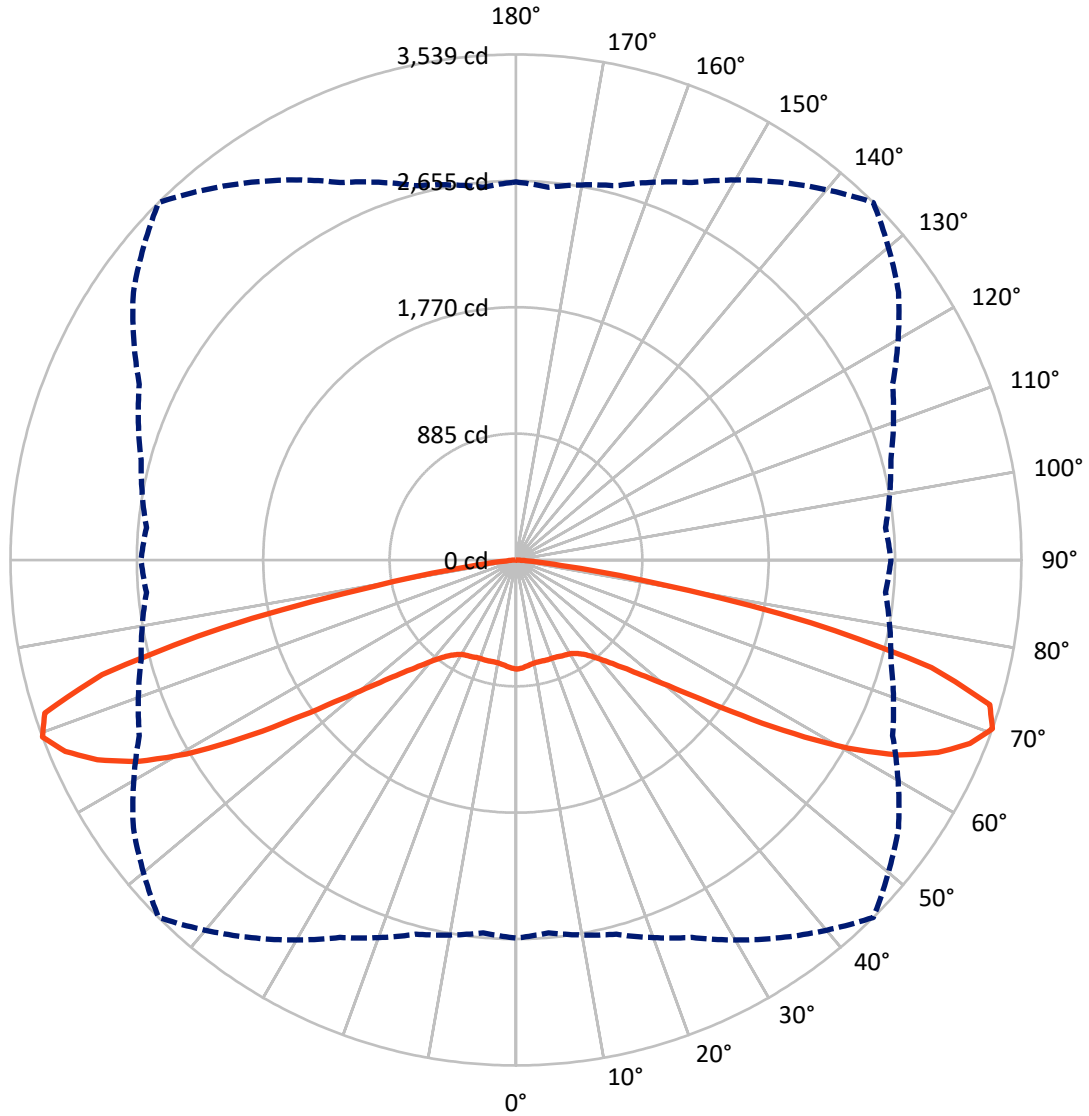
✕ Max cd
 - - - 1/2 Max cd



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	4190.5	0.0	4190.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4190.5	0.0	4190.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8381.0	0.0	8381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	0.8
10°-20°	208.8	2.5
20°-30°	347.5	4.1
30°-40°	525.5	6.3
40°-50°	873.3	10.4
50°-60°	1647.9	19.7
60°-70°	2782.6	33.2
70°-80°	1828.4	21.8
80°-90°	95.8	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°	8381.0	100.0
0°-180°	8381.0	100.0

Coefficient of Utilization



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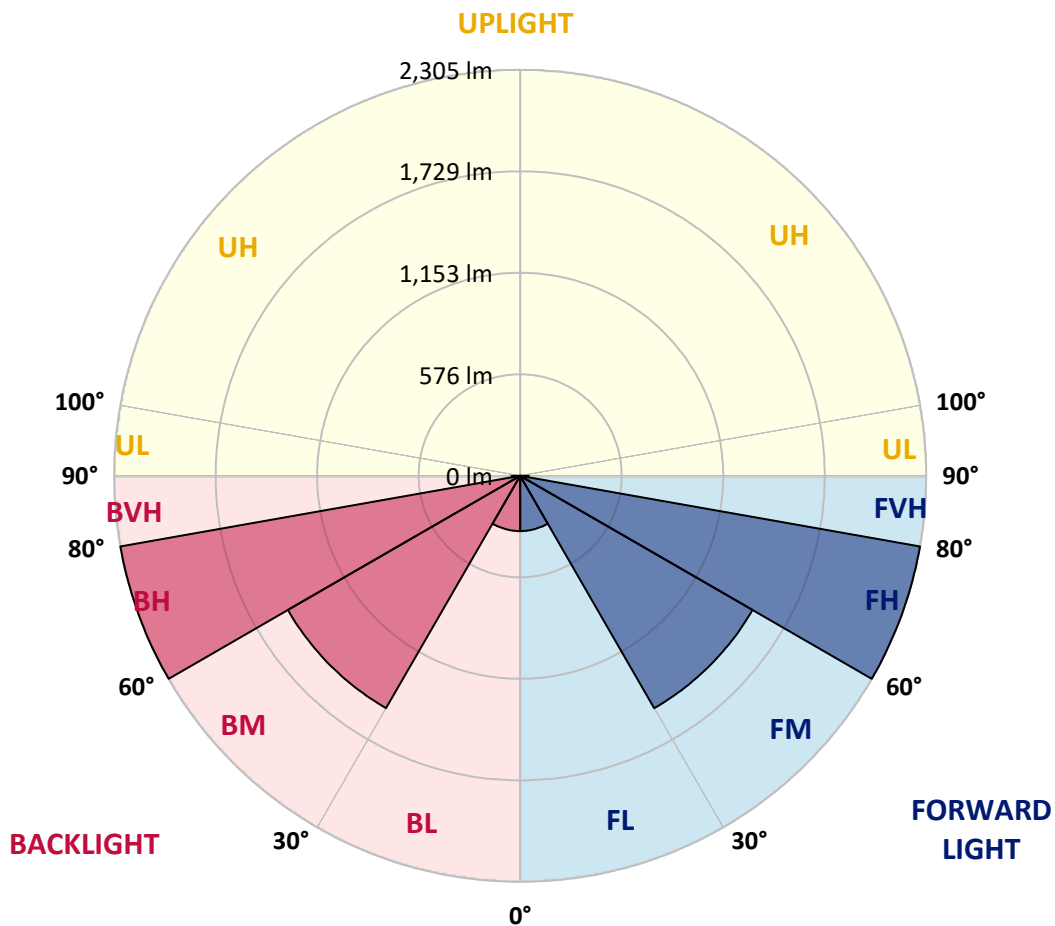
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.7	3.7			
FM (30°-60°)	1523.4	18.2			
FH (60°-80°)	2305.5	27.5			G2/5000
FVH (80°-90°)	47.9	0.6			G1/100
BL (0°-30°)	313.7	3.7	B1/500		
BM (30°-60°)	1523.4	18.2	B2/2500		
BH (60°-80°)	2305.5	27.5	B3/2500		G2/5000
BVH (80°-90°)	47.9	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°	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5
2.5°	759.7	761.9	761.0	759.3	759.3	758.0	759.3	760.2	761.5	762.3	761.9
5°	749.7	751.4	751.0	749.7	750.1	748.8	749.7	751.0	751.9	752.3	752.3
7.5°	741.0	742.7	741.9	739.7	739.7	738.4	738.8	740.1	741.4	741.9	741.9
10°	738.8	740.6	737.9	734.5	733.2	731.4	731.8	733.2	735.8	737.1	737.1
12.5°	739.7	741.0	738.4	733.2	731.8	730.1	730.1	731.4	734.9	736.6	737.1
15°	742.3	743.6	739.7	734.0	732.7	731.4	731.0	732.7	736.6	739.7	740.1
17.5°	747.1	748.4	742.3	734.5	732.7	733.2	732.7	734.0	740.1	745.8	745.8
20°	751.4	752.3	744.0	734.5	732.7	733.2	732.7	735.3	743.2	751.0	751.4
22.5°	752.8	753.6	745.8	737.5	736.2	736.6	736.2	738.8	746.2	754.1	754.1
25°	753.2	754.5	748.4	741.9	744.0	744.9	744.0	744.5	750.1	757.1	756.7
27.5°	759.7	761.5	755.8	750.1	751.4	751.0	752.3	753.6	758.0	765.0	763.2
30°	773.2	774.5	769.7	764.1	763.2	760.2	764.1	768.4	773.2	779.3	778.0
32.5°	795.4	798.1	792.0	785.9	781.9	780.2	783.2	790.7	797.2	803.7	801.1
35°	832.5	834.2	828.6	817.2	810.3	810.3	812.9	822.5	832.9	841.2	838.1
37.5°	884.7	886.9	876.9	863.4	852.9	852.9	856.4	866.5	882.1	893.9	889.5
40°	948.3	951.4	938.8	924.8	914.8	913.1	917.4	928.7	943.6	958.4	953.6
42.5°	1025.0	1028.5	1011.9	999.8	991.9	991.9	994.1	1004.5	1018.0	1036.3	1035.0
45°	1123.0	1129.1	1106.5	1094.3	1086.9	1088.6	1089.9	1099.1	1111.3	1132.2	1131.3
47.5°	1239.8	1245.9	1221.9	1209.3	1208.0	1216.3	1211.0	1217.6	1224.1	1248.1	1241.1
50°	1372.2	1382.7	1366.1	1365.2	1367.9	1383.1	1370.9	1374.4	1367.0	1382.2	1373.1
52.5°	1534.3	1549.5	1546.5	1551.7	1580.9	1612.2	1584.4	1572.2	1544.3	1549.1	1533.0
55°	1730.7	1753.8	1758.2	1789.5	1855.7	1919.8	1860.5	1811.3	1752.1	1741.2	1724.2
57.5°	1954.2	1972.5	1993.4	2057.4	2181.2	2294.9	2181.2	2072.3	1979.0	1956.8	1941.1
60°	2194.7	2217.3	2237.4	2331.9	2515.7	2675.6	2512.2	2339.3	2216.0	2185.9	2159.8
62.5°	2453.0	2482.2	2496.1	2601.1	2815.4	3006.2	2818.5	2608.9	2472.2	2439.9	2413.8
65°	2700.9	2724.8	2740.5	2852.5	3057.2	3248.4	3071.1	2864.6	2723.9	2681.7	2660.8
67.5°	2816.3	2829.4	2867.7	2994.5	3210.5	3428.8	3247.1	3008.0	2850.7	2776.7	2777.5
70°	2647.3	2620.7	2713.1	2916.1	3228.8	3539.4	3270.6	2910.0	2717.4	2597.2	2625.9
72.5°	2045.7	1999.9	2160.2	2507.4	3019.7	3468.9	3040.6	2527.0	2260.0	2016.1	2076.6
75°	1113.0	1061.2	1282.5	1721.6	2408.1	3006.7	2463.4	1770.8	1428.0	1104.7	1176.6
77.5°	314.1	294.5	473.1	832.9	1448.4	2111.0	1504.2	851.2	561.1	332.8	369.8
80°	96.3	93.2	126.3	250.9	615.1	1011.1	591.1	254.0	160.7	101.5	107.2
82.5°	57.1	52.3	62.7	91.5	156.8	317.6	152.5	95.4	76.7	51.4	55.8
85°	32.7	30.5	37.0	44.4	52.7	67.5	44.0	45.3	40.9	27.4	28.8
87.5°	13.5	12.2	14.4	13.9	12.2	15.7	11.8	13.9	16.6	10.9	10.0
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)