

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: P881542

Luminaire Tested: **NAV-SB1A-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881542
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-SB1A-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4470 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

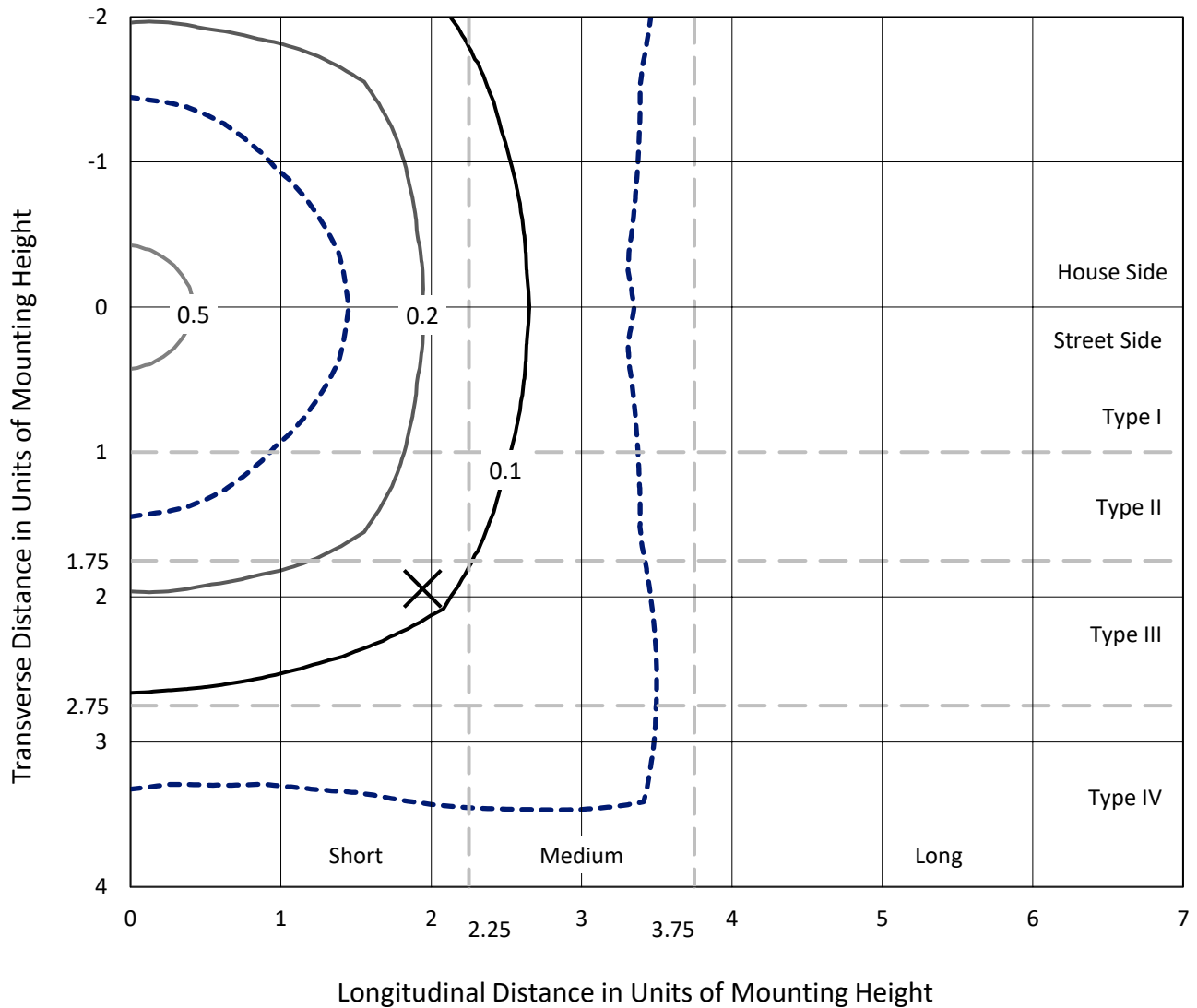
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

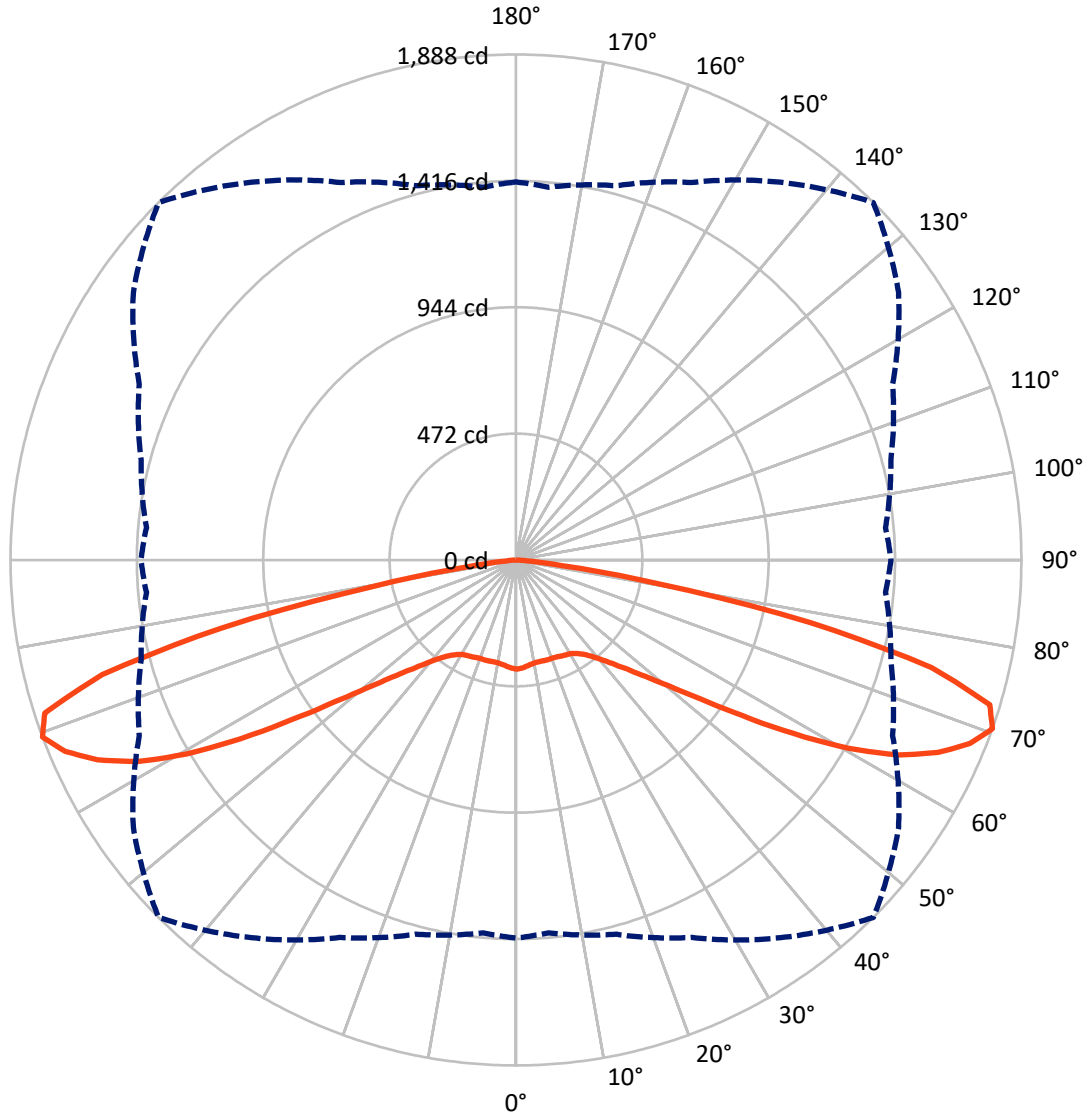
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2235.0	0.0	2235.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2235.0	0.0	2235.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4470.0	0.0	4470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.8
10°-20°	111.4	2.5
20°-30°	185.3	4.1
30°-40°	280.3	6.3
40°-50°	465.8	10.4
50°-60°	878.9	19.7
60°-70°	1484.1	33.2
70°-80°	975.2	21.8
80°-90°	51.1	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°	4470.0	100.0
0°-180°	4470.0	100.0

Coefficient of Utilization



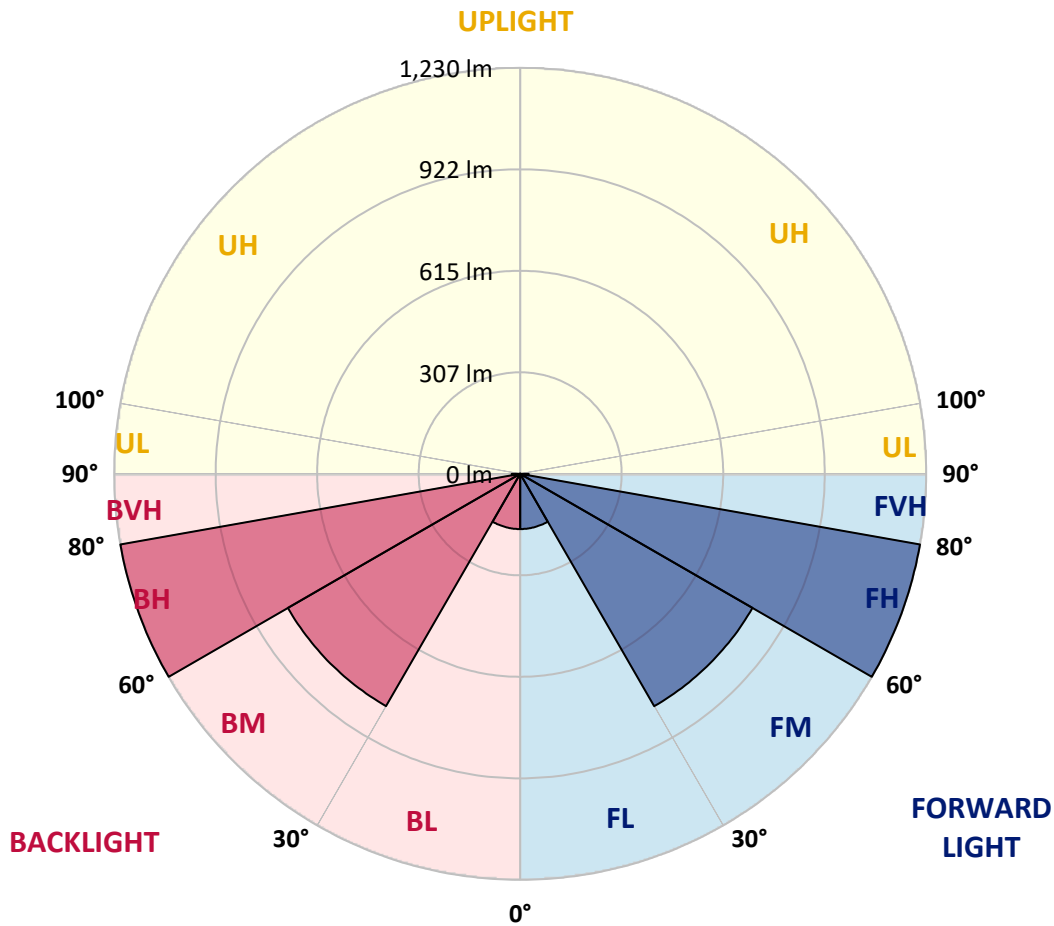
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.3	3.7			
FM (30°-60°)	812.5	18.2			
FH (60°-80°)	1229.6	27.5			G1/1800
FVH (80°-90°)	25.5	0.6			G1/100
BL (0°-30°)	167.3	3.7	B1/500		
BM (30°-60°)	812.5	18.2	B1/1000		
BH (60°-80°)	1229.6	27.5	B3/2500		G1/1800
BVH (80°-90°)	25.5	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	405.2	406.4	405.9	405.0	405.0	404.3	405.0	405.4	406.1	406.6	406.4
5°	399.9	400.8	400.6	399.9	400.1	399.4	399.9	400.6	401.0	401.2	401.2
7.5°	395.2	396.1	395.7	394.5	394.5	393.8	394.0	394.7	395.4	395.7	395.7
10°	394.0	395.0	393.6	391.7	391.0	390.1	390.3	391.0	392.4	393.1	393.1
12.5°	394.5	395.2	393.8	391.0	390.3	389.4	389.4	390.1	392.0	392.9	393.1
15°	395.9	396.6	394.5	391.5	390.8	390.1	389.9	390.8	392.9	394.5	394.7
17.5°	398.5	399.2	395.9	391.7	390.8	391.0	390.8	391.5	394.7	397.8	397.8
20°	400.8	401.2	396.8	391.7	390.8	391.0	390.8	392.2	396.4	400.6	400.8
22.5°	401.5	401.9	397.8	393.3	392.7	392.9	392.7	394.0	398.0	402.2	402.2
25°	401.7	402.4	399.2	395.7	396.8	397.3	396.8	397.1	400.1	403.8	403.6
27.5°	405.2	406.1	403.1	400.1	400.8	400.6	401.2	401.9	404.3	408.0	407.1
30°	412.4	413.1	410.5	407.5	407.1	405.4	407.5	409.8	412.4	415.7	415.0
32.5°	424.3	425.6	422.4	419.1	417.0	416.1	417.7	421.7	425.2	428.7	427.3
35°	444.0	444.9	441.9	435.9	432.1	432.1	433.5	438.7	444.2	448.6	447.0
37.5°	471.9	473.0	467.7	460.5	454.9	454.9	456.8	462.1	470.5	476.8	474.4
40°	505.8	507.4	500.7	493.3	487.9	487.0	489.3	495.3	503.2	511.1	508.6
42.5°	546.7	548.6	539.7	533.2	529.0	529.0	530.2	535.8	543.0	552.7	552.0
45°	599.0	602.2	590.1	583.6	579.7	580.6	581.3	586.2	592.7	603.8	603.4
47.5°	661.2	664.5	651.7	645.0	644.3	648.7	645.9	649.4	652.9	665.6	661.9
50°	731.9	737.4	728.6	728.1	729.5	737.7	731.2	733.0	729.1	737.2	732.3
52.5°	818.3	826.4	824.8	827.6	843.2	859.9	845.0	838.5	823.6	826.2	817.6
55°	923.1	935.4	937.7	954.4	989.8	1023.9	992.3	966.1	934.5	928.7	919.6
57.5°	1042.3	1052.0	1063.2	1097.3	1163.3	1224.0	1163.3	1105.2	1055.5	1043.7	1035.3
60°	1170.5	1182.6	1193.3	1243.7	1341.8	1427.0	1339.9	1247.7	1181.9	1165.9	1151.9
62.5°	1308.3	1323.9	1331.3	1387.3	1501.6	1603.4	1503.2	1391.5	1318.5	1301.3	1287.4
65°	1440.5	1453.3	1461.6	1521.4	1630.6	1732.5	1638.0	1527.9	1452.8	1430.3	1419.1
67.5°	1502.1	1509.0	1529.5	1597.1	1712.3	1828.7	1731.9	1604.3	1520.4	1480.9	1481.4
70°	1411.9	1397.7	1447.0	1555.3	1722.1	1887.7	1744.4	1552.0	1449.3	1385.2	1400.5
72.5°	1091.1	1066.7	1152.2	1337.3	1610.6	1850.1	1621.7	1347.8	1205.4	1075.3	1107.6
75°	593.6	566.0	684.0	918.2	1284.4	1603.6	1313.9	944.5	761.6	589.2	627.5
77.5°	167.5	157.1	252.3	444.2	772.5	1125.9	802.3	454.0	299.3	177.5	197.3
80°	51.3	49.7	67.4	133.8	328.1	539.3	315.3	135.5	85.7	54.1	57.2
82.5°	30.4	27.9	33.5	48.8	83.6	169.4	81.3	50.9	40.9	27.4	29.7
85°	17.4	16.3	19.7	23.7	28.1	36.0	23.5	24.2	21.8	14.6	15.3
87.5°	7.2	6.5	7.7	7.4	6.5	8.4	6.3	7.4	8.8	5.8	5.3
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)