

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: P881522

Luminaire Tested: **NAV-SB1A-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881522
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-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

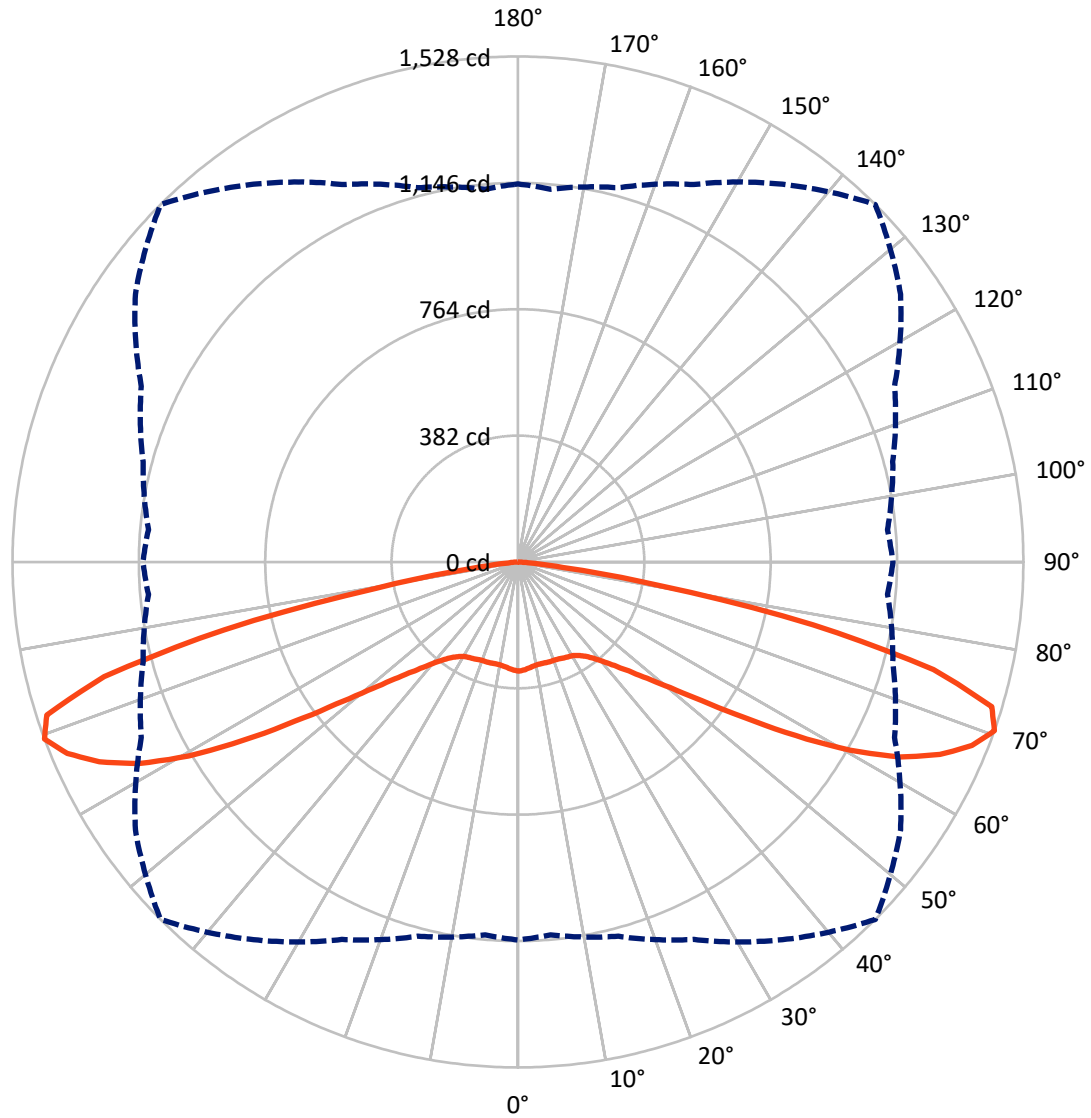
Lumens per Lamp: N/A
Luminaire Lumens: 3619 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

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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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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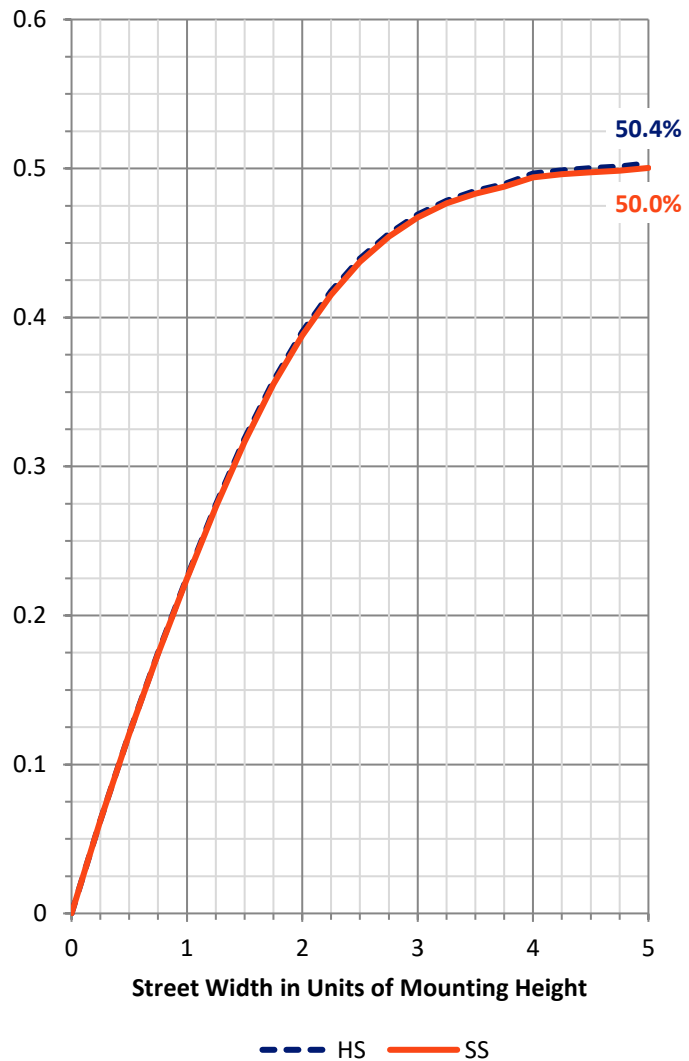
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.5	0.0	1809.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1809.5	0.0	1809.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3619.0	0.0	3619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	0.8
10°-20°	90.2	2.5
20°-30°	150.1	4.1
30°-40°	226.9	6.3
40°-50°	377.1	10.4
50°-60°	711.6	19.7
60°-70°	1201.5	33.2
70°-80°	789.5	21.8
80°-90°	41.4	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°	3619.0	100.0
0°-180°	3619.0	100.0

Coefficient of Utilization



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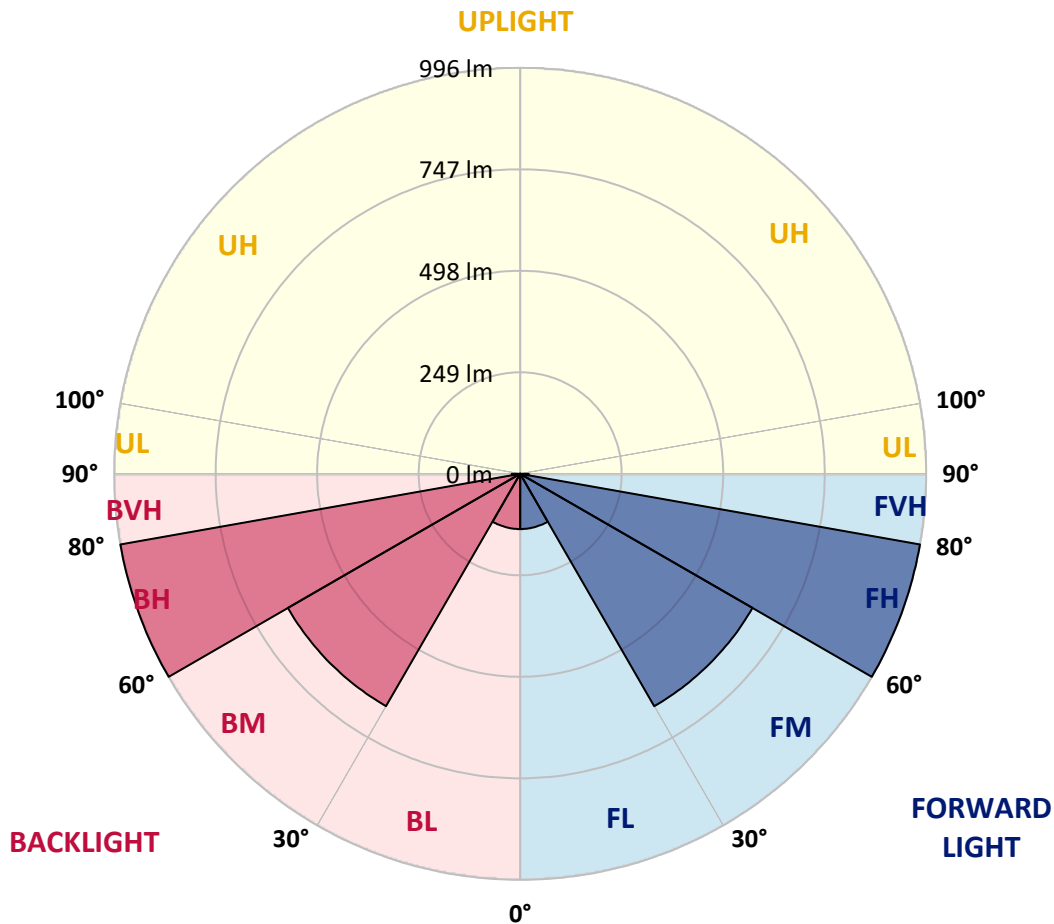
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.5	3.7			
FM	(30°-60°)	657.8	18.2			
FH	(60°-80°)	995.5	27.5			G1/1800
FVH	(80°-90°)	20.7	0.6			G1/100
BL	(0°-30°)	135.5	3.7	B1/500		
BM	(30°-60°)	657.8	18.2	B1/1000		
BH	(60°-80°)	995.5	27.5	B2/1000		G1/1800
BVH	(80°-90°)	20.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1
2.5°	328.1	329.0	328.6	327.9	327.9	327.3	327.9	328.2	328.8	329.2	329.0
5°	323.7	324.5	324.3	323.7	323.9	323.4	323.7	324.3	324.7	324.9	324.9
7.5°	320.0	320.7	320.3	319.4	319.4	318.8	319.0	319.6	320.2	320.3	320.3
10°	319.0	319.8	318.7	317.1	316.6	315.8	316.0	316.6	317.7	318.3	318.3
12.5°	319.4	320.0	318.8	316.6	316.0	315.3	315.3	315.8	317.3	318.1	318.3
15°	320.5	321.1	319.4	317.0	316.4	315.8	315.6	316.4	318.1	319.4	319.6
17.5°	322.6	323.2	320.5	317.1	316.4	316.6	316.4	317.0	319.6	322.0	322.0
20°	324.5	324.9	321.3	317.1	316.4	316.6	316.4	317.5	320.9	324.3	324.5
22.5°	325.0	325.4	322.0	318.5	317.9	318.1	317.9	319.0	322.2	325.6	325.6
25°	325.2	325.8	323.2	320.3	321.3	321.7	321.3	321.5	323.9	326.9	326.7
27.5°	328.1	328.8	326.4	323.9	324.5	324.3	324.9	325.4	327.3	330.3	329.6
30°	333.9	334.5	332.4	329.9	329.6	328.2	329.9	331.8	333.9	336.5	336.0
32.5°	343.5	344.6	342.0	339.3	337.6	336.9	338.2	341.4	344.2	347.1	345.9
35°	359.5	360.2	357.8	352.9	349.9	349.9	351.0	355.1	359.7	363.2	361.9
37.5°	382.0	383.0	378.7	372.8	368.3	368.3	369.8	374.1	380.9	386.0	384.1
40°	409.5	410.8	405.4	399.3	395.0	394.3	396.2	401.0	407.4	413.8	411.8
42.5°	442.6	444.1	437.0	431.7	428.3	428.3	429.3	433.8	439.6	447.5	446.9
45°	484.9	487.6	477.8	472.5	469.3	470.1	470.6	474.6	479.9	488.9	488.5
47.5°	535.3	538.0	527.6	522.2	521.6	525.2	522.9	525.8	528.6	538.9	535.9
50°	592.5	597.0	589.9	589.5	590.7	597.2	592.0	593.5	590.3	596.9	592.9
52.5°	662.5	669.1	667.8	670.0	682.6	696.2	684.1	678.9	666.8	668.9	661.9
55°	747.3	757.3	759.2	772.7	801.3	829.0	803.4	782.1	756.6	751.9	744.5
57.5°	843.8	851.7	860.8	888.4	941.8	990.9	941.8	894.8	854.6	845.0	838.2
60°	947.7	957.5	966.1	1006.9	1086.3	1155.3	1084.8	1010.1	956.9	943.9	932.6
62.5°	1059.2	1071.8	1077.8	1123.2	1215.7	1298.1	1217.0	1126.6	1067.5	1053.6	1042.3
65°	1166.3	1176.6	1183.4	1231.7	1320.1	1402.7	1326.1	1237.0	1176.2	1158.0	1149.0
67.5°	1216.1	1221.7	1238.3	1293.0	1386.3	1480.6	1402.1	1298.9	1231.0	1199.0	1199.4
70°	1143.1	1131.6	1171.5	1259.2	1394.2	1528.4	1412.3	1256.5	1173.4	1121.5	1133.9
72.5°	883.3	863.6	932.8	1082.7	1303.9	1497.9	1313.0	1091.2	975.9	870.6	896.7
75°	480.6	458.2	553.8	743.4	1039.8	1298.3	1063.7	764.7	616.6	477.0	508.1
77.5°	135.6	127.2	204.3	359.7	625.5	911.6	649.5	367.6	242.3	143.7	159.7
80°	41.6	40.3	54.6	108.3	265.6	436.6	255.3	109.7	69.4	43.8	46.3
82.5°	24.6	22.6	27.1	39.5	67.7	137.1	65.8	41.2	33.1	22.2	24.1
85°	14.1	13.2	16.0	19.2	22.8	29.2	19.0	19.6	17.7	11.9	12.4
87.5°	5.8	5.3	6.2	6.0	5.3	6.8	5.1	6.0	7.1	4.7	4.3
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)