

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: METALUX

Report Number: P566986

Luminaire Tested: **4SNX-90HL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-90HL-SLW-UNV-L930-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

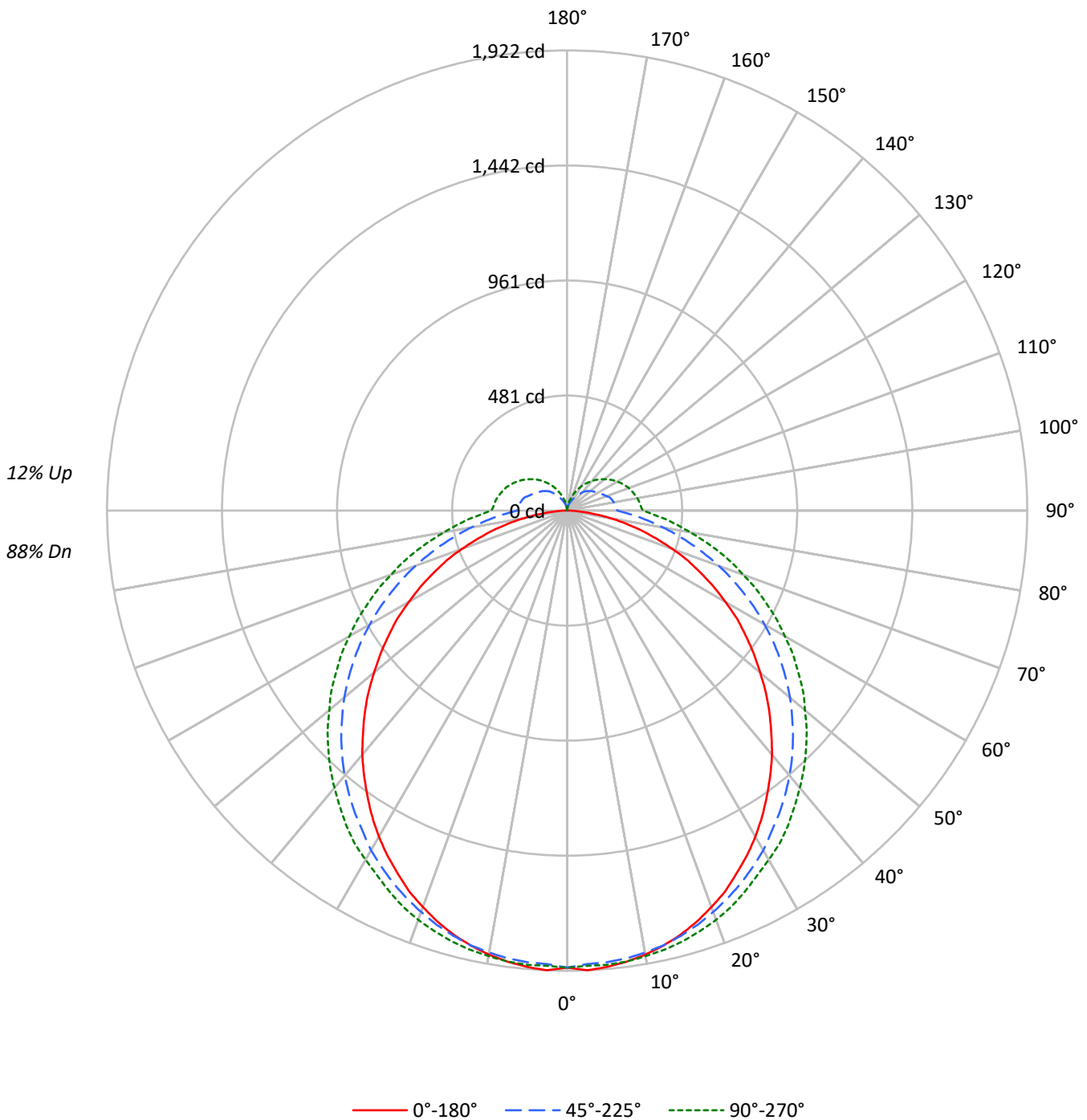
Lumens per Lamp: N/A
Luminaire Lumens: 6872.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P566986

CATALOG NUMBER: 4SNX-90HL-SLW-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566986

CATALOG NUMBER: 4SNX-90HL-SLW-UNV-L930-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20546	20546	20546
5°	20638	20022	19993
10°	20505	19626	19514
15°	20319	19201	19064
20°	20029	18734	18593
25°	19684	18268	18057
30°	19310	17797	17564
35°	18839	17272	17139
40°	18382	16791	16619
45°	17830	16259	16125
50°	17193	15692	15559
55°	16580	15030	14996
60°	15870	14312	14347
65°	15009	13494	13656
70°	13910	12570	12861
75°	12356	11508	12131
80°	10183	10454	11209
85°	7048	9512	10610



TEST NUMBER: P566986

CATALOG NUMBER: 4SNX-90HL-SLW-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	2.6
10°-20°	521.3	7.6
20°-30°	793.0	11.5
30°-40°	964.2	14.0
40°-50°	1020.1	14.8
50°-60°	956.2	13.9
60°-70°	786.6	11.4
70°-80°	544.3	7.9
80°-90°	302.7	4.4
90°-100°	199.4	2.9
100°-110°	178.8	2.6
110°-120°	148.0	2.2
120°-130°	114.4	1.7
130°-140°	81.0	1.2
140°-150°	48.9	0.7
150°-160°	23.5	0.3
160°-170°	7.7	0.1
170°-180°	0.9	0.0
0°-30°	1495.5	21.8
0°-40°	2459.6	35.8
0°-60°	4435.9	64.6
0°-90°	6069.5	88.3
90°-120°	526.2	7.7
90°-150°	770.4	11.2
90°-180°	803.0	11.7
0°-180°	6872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1914	1910	1894	1909	1904	182
15°	1834	1839	1838	1863	1863	517
25°	1673	1697	1717	1755	1756	771
35°	1454	1493	1544	1593	1608	910
45°	1196	1258	1334	1394	1411	922
55°	910	991	1086	1154	1178	814
65°	616	704	813	893	918	610
75°	320	413	534	619	653	340
85°	71	175	297	379	412	81
90°	1	99	210	288	317	5
95°	1	94	204	279	306	1
105°	1	81	191	262	286	1
115°	2	71	161	233	259	2
125°	2	60	138	199	224	2
135°	2	47	115	164	184	2
145°	2	34	80	124	139	2
155°	4	24	49	79	92	2
165°	4	15	27	36	47	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566986

CATALOG NUMBER: 4SNX-90HL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1908.8	1908.8	1908.8	1908.8	1908.8
2.5°	1921.7	1915.8	1895.8	1908.8	1902.9
5°	1913.5	1910.0	1893.5	1908.8	1904.1
7.5°	1900.5	1899.4	1886.4	1904.1	1899.4
10°	1882.9	1885.2	1874.6	1893.5	1889.9
12.5°	1860.5	1864.1	1859.4	1880.5	1878.2
15°	1833.5	1839.3	1838.2	1862.9	1862.9
17.5°	1800.5	1808.7	1813.5	1841.7	1841.7
20°	1761.7	1774.6	1784.0	1814.6	1819.3
22.5°	1722.8	1738.1	1752.3	1784.0	1791.1
25°	1673.4	1697.0	1717.0	1754.6	1755.8
27.5°	1625.2	1651.1	1678.1	1714.6	1718.1
30°	1572.2	1605.2	1638.1	1673.4	1684.0
32.5°	1515.7	1552.2	1588.7	1635.8	1649.9
35°	1454.5	1493.4	1544.0	1593.4	1607.5
37.5°	1393.3	1436.9	1495.7	1546.3	1559.3
40°	1331.0	1379.2	1445.1	1496.9	1512.2
42.5°	1261.5	1320.4	1391.0	1446.3	1463.9
45°	1195.6	1258.0	1334.5	1394.5	1411.0
47.5°	1126.2	1192.1	1274.5	1338.0	1356.9
50°	1052.1	1127.4	1215.6	1279.2	1296.8
52.5°	982.6	1059.1	1152.1	1218.0	1242.7
55°	909.7	990.9	1086.2	1154.4	1178.0
57.5°	841.4	919.1	1021.5	1089.7	1119.1
60°	763.7	849.7	952.0	1026.2	1049.7
62.5°	690.8	777.9	883.8	960.3	987.3
65°	615.5	703.7	813.2	893.2	917.9
67.5°	544.9	631.9	743.7	822.6	854.4
70°	467.2	559.0	673.1	754.3	781.4
72.5°	390.7	486.0	602.5	689.6	720.2
75°	320.1	413.1	534.3	619.0	653.1
77.5°	251.8	346.0	468.4	555.5	584.9
80°	183.6	282.4	407.2	493.1	521.3
82.5°	121.2	224.8	348.3	434.2	464.8
85°	70.6	175.3	296.6	378.9	411.9
87.5°	30.6	133.0	248.3	329.5	356.6
90°	1.2	98.9	209.5	288.3	316.6
92.5°	1.2	96.5	204.8	282.4	309.5
95°	1.2	94.1	203.6	278.9	306.0
97.5°	1.2	93.0	201.2	276.5	302.4
100°	1.2	89.4	197.7	271.8	297.7
102.5°	1.2	84.7	194.2	267.1	291.8
105°	1.2	81.2	190.6	262.4	286.0
107.5°	1.2	77.7	184.8	256.5	280.1
110°	1.2	74.1	175.3	250.7	274.2



TEST NUMBER: P566986

CATALOG NUMBER: 4SNX-90HL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	73.0	168.3	242.4	267.1
115°	2.4	70.6	161.2	233.0	258.9
117.5°	2.4	69.4	155.3	223.6	250.7
120°	2.4	65.9	149.5	215.4	241.2
122.5°	2.4	62.4	143.6	207.1	233.0
125°	2.4	60.0	137.7	198.9	223.6
127.5°	2.4	56.5	133.0	190.6	213.0
130°	2.4	54.1	127.1	181.2	203.6
132.5°	2.4	50.6	121.2	171.8	193.0
135°	2.4	47.1	115.3	163.6	183.6
137.5°	2.4	42.4	108.3	154.2	173.0
140°	2.4	38.8	98.9	144.7	162.4
142.5°	2.4	36.5	89.4	134.2	150.6
145°	2.4	34.1	80.0	123.6	138.9
147.5°	2.4	31.8	71.8	113.0	127.1
150°	2.4	28.2	63.5	103.6	115.3
152.5°	3.5	25.9	56.5	91.8	103.6
155°	3.5	23.5	49.4	78.8	91.8
157.5°	3.5	21.2	42.4	65.9	80.0
160°	3.5	18.8	36.5	54.1	68.3
162.5°	3.5	17.7	31.8	44.7	57.7
165°	3.5	15.3	27.1	36.5	47.1
167.5°	3.5	11.8	22.4	28.2	38.8
170°	3.5	9.4	17.7	20.0	29.4
172.5°	3.5	7.1	12.9	14.1	15.3
175°	3.5	5.9	8.2	8.2	4.7
177.5°	3.5	4.7	4.7	4.7	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)