

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: P567014

Luminaire Tested: **4SNX-93HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

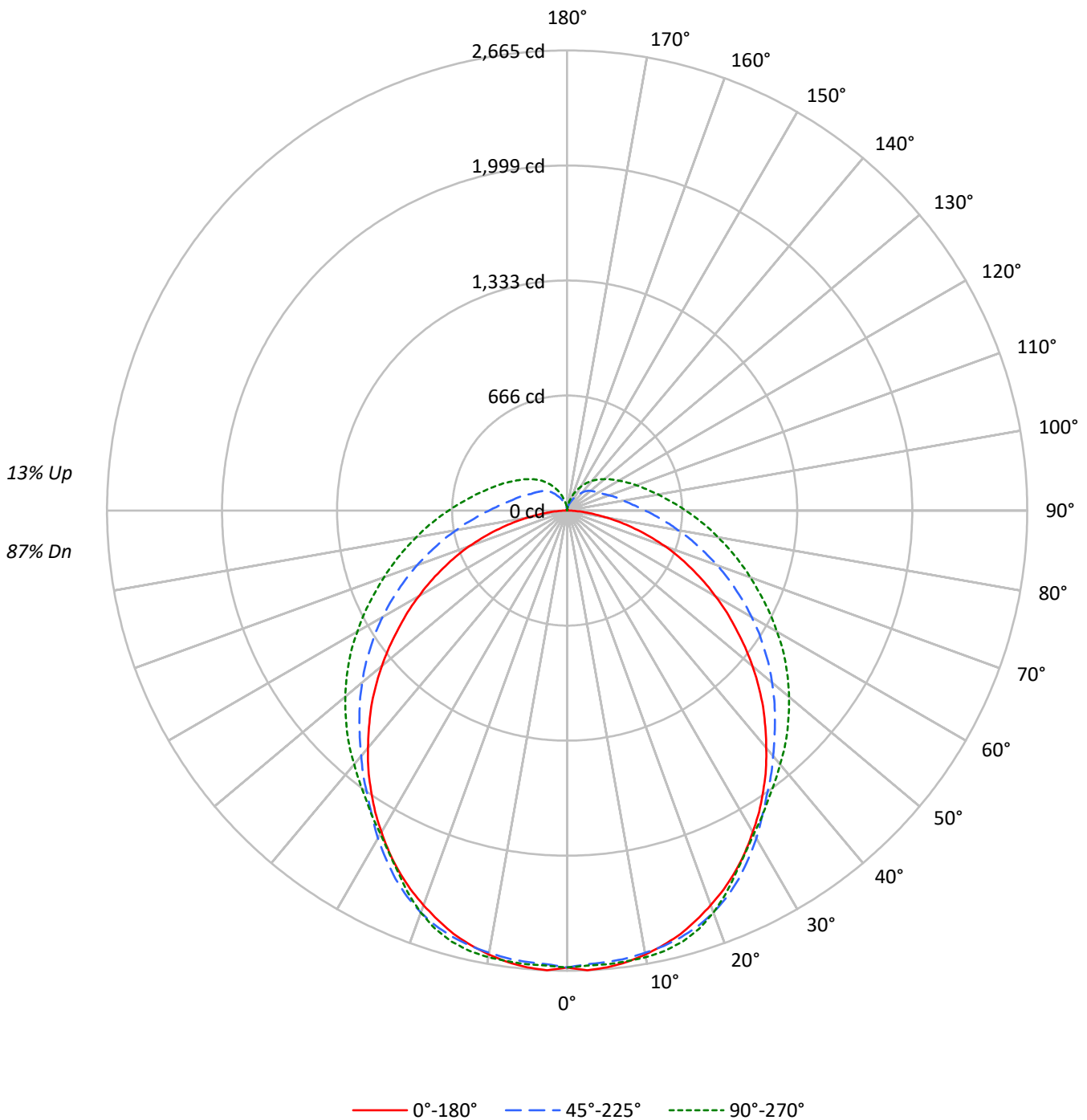
Test Method: LM-79-08  
Report Number: P567014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-93HL-LN-UNV-L830-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9551.0 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 67.4  
Input Voltage (V): NR  
Input Current (Ain): 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

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### Luminous Intensity Polar Plot





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**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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	28479	28479	28479
5°	28589	27170	26930
10°	28321	26117	25687
15°	27980	25120	24434
20°	27443	24002	22837
25°	26863	22652	20964
30°	26098	21137	19401
35°	25284	19596	18234
40°	24358	18358	17290
45°	23449	17260	16475
50°	22370	16249	15654
55°	21108	15234	14850
60°	19898	14222	14009
65°	18550	13203	13240
70°	17008	12246	12543
75°	14627	11313	11970
80°	11527	10505	11484
85°	7722	9932	11205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.3	2.6
10°-20°	722.7	7.6
20°-30°	1076.1	11.3
30°-40°	1269.7	13.3
40°-50°	1324.2	13.9
50°-60°	1244.4	13.0
60°-70°	1050.9	11.0
70°-80°	794.0	8.3
80°-90°	547.3	5.7
90°-100°	383.0	4.0
100°-110°	285.8	3.0
110°-120°	215.5	2.3
120°-130°	160.7	1.7
130°-140°	112.8	1.2
140°-150°	68.2	0.7
150°-160°	32.6	0.3
160°-170°	10.4	0.1
170°-180°	1.2	0.0
0°-30°	2050.1	21.5
0°-40°	3319.8	34.8
0°-60°	5888.4	61.7
0°-90°	8280.6	86.7
90°-120°	884.3	9.3
90°-150°	1226.0	12.8
90°-180°	1270.0	13.3
0°-180°	9551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2646	2646	2646	2646	2646	
5°	2656	2651	2625	2644	2638	252
15°	2539	2550	2557	2589	2584	715
25°	2306	2353	2353	2332	2314	1061
35°	1980	2053	2014	2030	2035	1238
45°	1605	1684	1702	1771	1804	1236
55°	1192	1294	1392	1504	1545	1069
65°	793	920	1075	1216	1263	788
75°	406	564	780	944	1004	433
85°	92	290	541	719	782	103
90°	2	206	452	625	686	6
95°	2	160	382	547	604	1
105°	3	115	295	428	476	3
115°	3	99	228	340	384	3
125°	5	84	193	278	314	4
135°	5	65	160	227	254	4
145°	6	47	112	173	194	4
155°	6	31	68	110	128	3
165°	8	19	36	49	65	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2645.8	2645.8	2645.8	2645.8	2645.8
2.5°	2665.2	2658.8	2629.6	2645.8	2637.7
5°	2655.5	2650.7	2624.8	2644.2	2637.7
7.5°	2637.7	2636.1	2616.7	2639.3	2632.9
10°	2610.2	2615.0	2600.5	2631.2	2626.4
12.5°	2577.8	2587.5	2582.7	2616.7	2611.8
15°	2538.9	2550.3	2556.7	2589.1	2584.3
17.5°	2487.1	2508.2	2522.7	2548.7	2540.6
20°	2432.1	2461.2	2477.4	2490.4	2477.4
22.5°	2372.2	2411.0	2420.7	2414.3	2401.3
25°	2305.8	2352.7	2352.7	2331.7	2313.9
27.5°	2231.3	2289.6	2273.4	2249.1	2234.5
30°	2150.3	2219.9	2192.4	2164.9	2161.7
32.5°	2069.4	2142.2	2101.7	2095.3	2100.1
35°	1980.3	2053.2	2014.3	2030.5	2035.4
37.5°	1891.2	1964.1	1938.2	1962.5	1977.1
40°	1794.1	1871.8	1855.6	1899.3	1918.8
42.5°	1698.6	1779.5	1777.9	1834.6	1863.7
45°	1604.6	1684.0	1701.8	1771.4	1803.8
47.5°	1502.6	1583.6	1627.3	1708.3	1740.7
50°	1402.2	1489.7	1549.6	1640.3	1677.5
52.5°	1298.6	1390.9	1473.5	1573.9	1612.7
55°	1191.7	1293.8	1392.5	1504.3	1544.7
57.5°	1096.2	1199.8	1316.4	1431.4	1478.3
60°	991.0	1105.9	1233.8	1355.3	1402.2
62.5°	895.4	1013.6	1156.1	1284.0	1334.2
65°	793.4	919.7	1075.2	1216.0	1263.0
67.5°	699.5	829.0	999.1	1141.5	1193.4
70°	602.3	740.0	924.6	1075.2	1128.6
72.5°	502.0	647.7	850.1	1010.4	1065.4
75°	406.4	563.5	780.5	944.0	1003.9
77.5°	317.4	482.5	717.3	885.7	944.0
80°	229.9	409.7	650.9	825.8	885.7
82.5°	152.2	346.5	597.5	772.4	835.5
85°	92.3	289.8	540.8	718.9	782.1
87.5°	42.1	242.9	495.5	672.0	733.5
90°	1.6	205.6	451.8	625.0	686.5
92.5°	1.6	179.7	416.1	584.5	644.4
95°	1.6	160.3	382.1	547.3	604.0
97.5°	1.6	147.3	356.2	511.7	566.7
100°	1.6	134.4	330.3	479.3	536.0
102.5°	3.2	123.1	310.9	450.1	503.6
105°	3.2	115.0	294.7	427.5	476.1
107.5°	3.2	110.1	276.9	404.8	450.1
110°	3.2	105.2	257.5	382.1	427.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	102.0	242.9	362.7	406.4
115°	3.2	98.8	228.3	340.0	383.8
117.5°	3.2	97.2	220.2	322.2	364.3
120°	4.9	92.3	210.5	306.0	346.5
122.5°	4.9	87.4	200.8	293.1	328.7
125°	4.9	84.2	192.7	278.5	314.1
127.5°	4.9	79.3	184.6	265.6	297.9
130°	4.9	74.5	178.1	252.6	283.4
132.5°	4.9	69.6	170.0	239.6	268.8
135°	4.9	64.8	160.3	226.7	254.2
137.5°	4.9	59.9	150.6	213.7	239.6
140°	4.9	55.1	137.6	200.8	225.1
142.5°	4.9	50.2	124.7	187.8	208.9
145°	6.5	47.0	111.7	173.3	194.3
147.5°	6.5	42.1	98.8	158.7	176.5
150°	6.5	38.9	89.1	144.1	160.3
152.5°	6.5	34.0	79.3	127.9	144.1
155°	6.5	30.8	68.0	110.1	127.9
157.5°	6.5	27.5	58.3	92.3	111.7
160°	6.5	25.9	50.2	76.1	95.5
162.5°	8.1	22.7	42.1	61.5	79.3
165°	8.1	19.4	35.6	48.6	64.8
167.5°	8.1	16.2	29.1	37.2	50.2
170°	8.1	13.0	22.7	25.9	38.9
172.5°	8.1	9.7	16.2	17.8	19.4
175°	8.1	8.1	9.7	9.7	4.9
177.5°	8.1	8.1	6.5	4.9	1.6
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)