

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: P566054

Luminaire Tested: **4SNX-116HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566054  
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-116HL-LN-UNV-L830-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

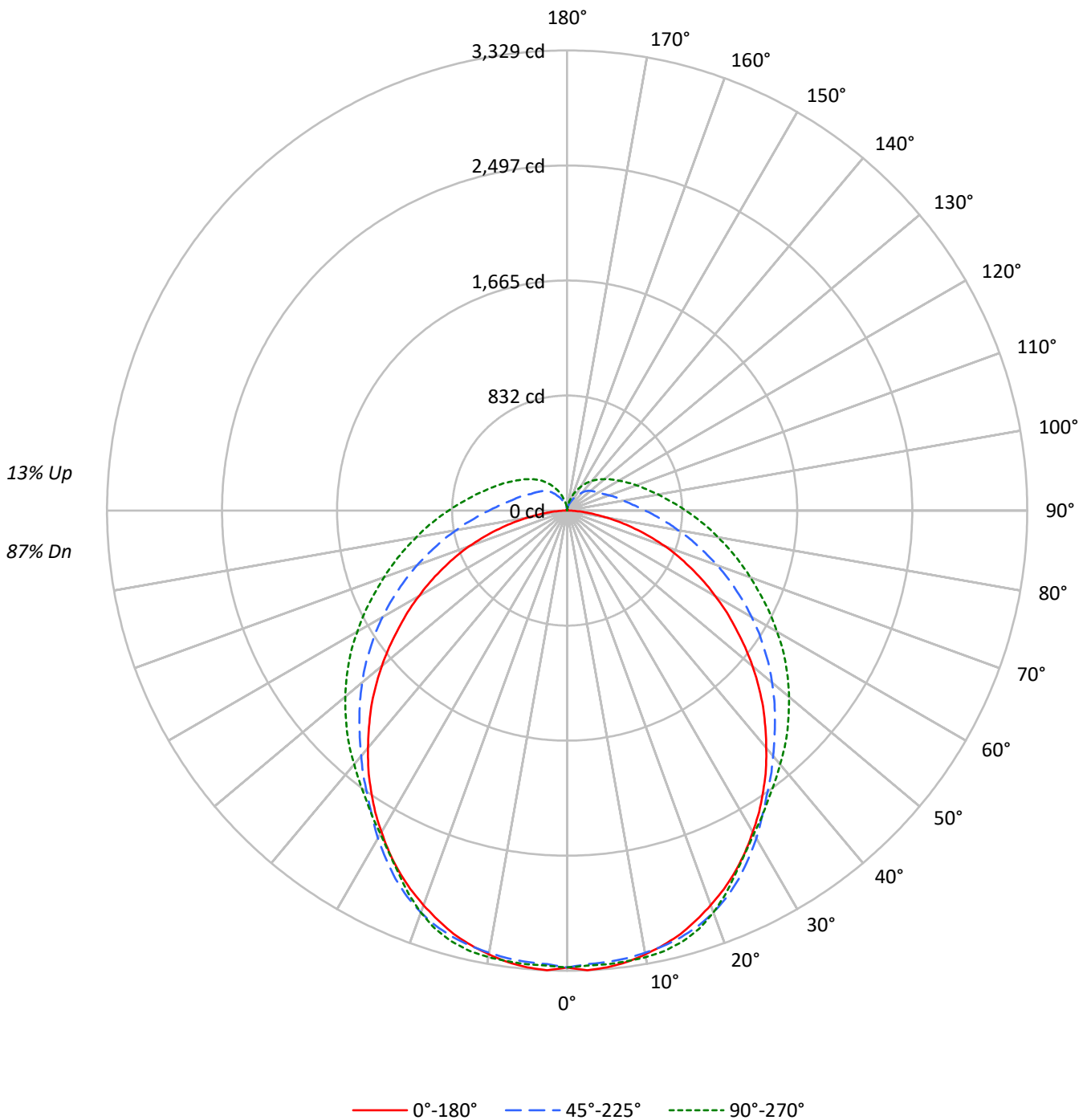
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11930.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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): 85.4  
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	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°	35573	35573	35573
5°	35710	33937	33637
10°	35375	32622	32085
15°	34950	31377	30520
20°	34278	29981	28525
25°	33554	28295	26185
30°	32599	26402	24233
35°	31582	24477	22775
40°	30425	22931	21596
45°	29290	21560	20578
50°	27943	20297	19553
55°	26367	19030	18549
60°	24853	17766	17499
65°	23170	16492	16537
70°	21247	15296	15668
75°	18273	14131	14951
80°	14400	13123	14344
85°	9646	12405	13996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.0	2.6
10°-20°	902.7	7.6
20°-30°	1344.1	11.3
30°-40°	1586.0	13.3
40°-50°	1654.0	13.9
50°-60°	1554.4	13.0
60°-70°	1312.7	11.0
70°-80°	991.8	8.3
80°-90°	683.7	5.7
90°-100°	478.4	4.0
100°-110°	357.0	3.0
110°-120°	269.1	2.3
120°-130°	200.7	1.7
130°-140°	140.9	1.2
140°-150°	85.2	0.7
150°-160°	40.7	0.3
160°-170°	13.1	0.1
170°-180°	1.6	0.0
0°-30°	2560.7	21.5
0°-40°	4146.7	34.8
0°-60°	7355.1	61.7
0°-90°	10343.2	86.7
90°-120°	1104.6	9.3
90°-150°	1531.4	12.8
90°-180°	1587.0	13.3
0°-180°	11930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3305	3305	3305	3305	3305	
5°	3317	3311	3278	3303	3295	315
15°	3171	3186	3194	3234	3228	893
25°	2880	2939	2939	2912	2890	1325
35°	2474	2565	2516	2536	2542	1547
45°	2004	2103	2126	2213	2253	1544
55°	1489	1616	1739	1879	1930	1336
65°	991	1149	1343	1519	1578	984
75°	508	704	975	1179	1254	541
85°	115	362	676	898	977	129
90°	2	257	564	781	858	8
95°	2	200	477	684	754	2
105°	4	144	368	534	595	4
115°	4	123	285	425	479	4
125°	6	105	241	348	392	5
135°	6	81	200	283	318	5
145°	8	59	140	216	243	5
155°	8	38	85	138	160	4
165°	10	24	44	61	81	3
175°	10	10	12	12	6	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3304.8	3304.8	3304.8	3304.8	3304.8
2.5°	3329.1	3321.0	3284.6	3304.8	3294.7
5°	3317.0	3310.9	3278.5	3302.8	3294.7
7.5°	3294.7	3292.7	3268.4	3296.7	3288.7
10°	3260.3	3266.4	3248.2	3286.6	3280.6
12.5°	3219.9	3232.0	3226.0	3268.4	3262.4
15°	3171.3	3185.5	3193.6	3234.0	3228.0
17.5°	3106.6	3132.9	3151.1	3183.5	3173.4
20°	3037.9	3074.3	3094.5	3110.7	3094.5
22.5°	2963.0	3011.6	3023.7	3015.6	2999.4
25°	2880.1	2938.8	2938.8	2912.5	2890.2
27.5°	2787.1	2859.9	2839.6	2809.3	2791.1
30°	2685.9	2772.9	2738.5	2704.1	2700.1
32.5°	2584.8	2675.8	2625.3	2617.2	2623.2
35°	2473.6	2564.6	2516.0	2536.3	2542.3
37.5°	2362.3	2453.3	2421.0	2451.3	2469.5
40°	2241.0	2338.1	2317.8	2372.4	2396.7
42.5°	2121.6	2222.8	2220.7	2291.5	2327.9
45°	2004.3	2103.4	2125.7	2212.7	2253.1
47.5°	1876.9	1978.0	2032.7	2133.8	2174.2
50°	1751.5	1860.7	1935.6	2048.8	2095.4
52.5°	1622.1	1737.4	1840.5	1965.9	2014.5
55°	1488.6	1616.0	1739.4	1878.9	1929.5
57.5°	1369.3	1498.7	1644.3	1787.9	1846.6
60°	1237.8	1381.4	1541.2	1692.9	1751.5
62.5°	1118.5	1266.1	1444.1	1603.9	1666.6
65°	991.0	1148.8	1343.0	1518.9	1577.6
67.5°	873.7	1035.5	1247.9	1425.9	1490.6
70°	752.4	924.3	1154.9	1343.0	1409.7
72.5°	627.0	809.0	1061.8	1262.1	1330.8
75°	507.7	703.8	974.9	1179.1	1254.0
77.5°	396.4	602.7	896.0	1106.3	1179.1
80°	287.2	511.7	813.1	1031.5	1106.3
82.5°	190.1	432.8	746.3	964.8	1043.6
85°	115.3	362.0	675.5	898.0	976.9
87.5°	52.6	303.4	618.9	839.4	916.2
90°	2.0	256.9	564.3	780.7	857.6
92.5°	2.0	224.5	519.8	730.1	805.0
95°	2.0	200.2	477.3	683.6	754.4
97.5°	2.0	184.1	445.0	639.1	707.9
100°	2.0	167.9	412.6	598.7	669.5
102.5°	4.0	153.7	388.3	562.3	629.0
105°	4.0	143.6	368.1	534.0	594.6
107.5°	4.0	137.5	345.9	505.6	562.3
110°	4.0	131.5	321.6	477.3	534.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	127.4	303.4	453.0	507.7
115°	4.0	123.4	285.2	424.7	479.3
117.5°	4.0	121.4	275.1	402.5	455.1
120°	6.1	115.3	262.9	382.3	432.8
122.5°	6.1	109.2	250.8	366.1	410.6
125°	6.1	105.2	240.7	347.9	392.4
127.5°	6.1	99.1	230.6	331.7	372.1
130°	6.1	93.0	222.5	315.5	353.9
132.5°	6.1	87.0	212.4	299.3	335.7
135°	6.1	80.9	200.2	283.2	317.5
137.5°	6.1	74.8	188.1	267.0	299.3
140°	6.1	68.8	171.9	250.8	281.1
142.5°	6.1	62.7	155.7	234.6	260.9
145°	8.1	58.7	139.6	216.4	242.7
147.5°	8.1	52.6	123.4	198.2	220.5
150°	8.1	48.5	111.2	180.0	200.2
152.5°	8.1	42.5	99.1	159.8	180.0
155°	8.1	38.4	84.9	137.5	159.8
157.5°	8.1	34.4	72.8	115.3	139.6
160°	8.1	32.4	62.7	95.1	119.3
162.5°	10.1	28.3	52.6	76.9	99.1
165°	10.1	24.3	44.5	60.7	80.9
167.5°	10.1	20.2	36.4	46.5	62.7
170°	10.1	16.2	28.3	32.4	48.5
172.5°	10.1	12.1	20.2	22.2	24.3
175°	10.1	10.1	12.1	12.1	6.1
177.5°	10.1	10.1	8.1	6.1	2.0
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)