

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: P566038

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566038  
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-116HL-FDL-UNV-L830-CD  
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

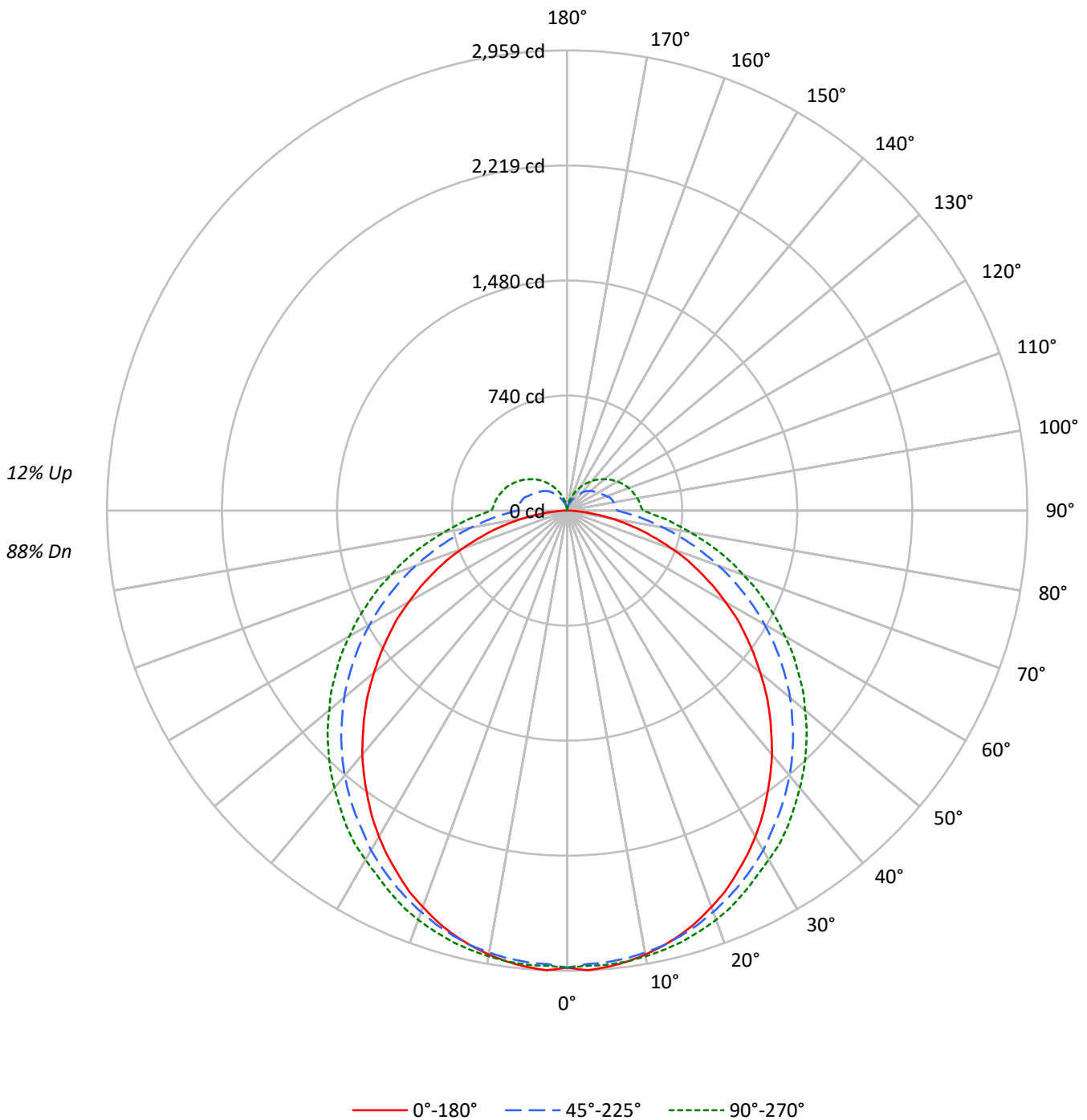
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10581.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 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: 0.04')  
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	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°	31635	31635	31635
5°	31805	31160	31222
10°	31629	30867	30898
15°	31371	30516	30597
20°	30954	30093	30253
25°	30453	29665	29792
30°	29908	29235	29399
35°	29216	28720	29125
40°	28546	28293	28703
45°	27734	27798	28346
50°	26794	27274	27897
55°	25899	26624	27494
60°	24868	25933	27001
65°	23610	25140	26518
70°	22008	24268	25971
75°	19732	23315	25784
80°	16546	22723	25579
85°	11996	23194	26962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	2.6
10°-20°	802.6	7.6
20°-30°	1221.0	11.5
30°-40°	1484.6	14.0
40°-50°	1570.7	14.8
50°-60°	1472.3	13.9
60°-70°	1211.2	11.4
70°-80°	838.0	7.9
80°-90°	466.0	4.4
90°-100°	307.0	2.9
100°-110°	275.3	2.6
110°-120°	227.9	2.2
120°-130°	176.2	1.7
130°-140°	124.7	1.2
140°-150°	75.2	0.7
150°-160°	36.1	0.3
160°-170°	11.8	0.1
170°-180°	1.4	0.0
0°-30°	2302.6	21.8
0°-40°	3787.2	35.8
0°-60°	6830.1	64.6
0°-90°	9345.3	88.3
90°-120°	810.2	7.7
90°-150°	1186.2	11.2
90°-180°	1236.0	11.7
0°-180°	10581.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2939	2939	2939	2939	2939	
5°	2946	2941	2915	2939	2932	280
15°	2823	2832	2830	2868	2868	796
25°	2577	2613	2644	2702	2703	1188
35°	2240	2299	2377	2453	2475	1402
45°	1841	1937	2055	2147	2172	1419
55°	1401	1526	1672	1778	1814	1254
65°	948	1084	1252	1375	1413	940
75°	493	636	823	953	1006	523
85°	109	270	457	583	634	125
90°	2	152	322	444	487	7
95°	2	145	314	429	471	1
105°	2	125	294	404	440	2
115°	4	109	248	359	399	3
125°	4	92	212	306	344	3
135°	4	72	178	252	283	3
145°	4	52	123	190	214	2
155°	5	36	76	121	141	2
165°	5	24	42	56	72	2
175°	5	9	13	13	7	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2939.0	2939.0	2939.0	2939.0	2939.0
2.5°	2958.9	2949.9	2919.1	2939.0	2929.9
5°	2946.2	2940.8	2915.4	2939.0	2931.7
7.5°	2926.3	2924.5	2904.6	2931.7	2924.5
10°	2899.1	2902.8	2886.4	2915.4	2910.0
12.5°	2864.7	2870.1	2862.9	2895.5	2891.9
15°	2823.0	2832.1	2830.3	2868.3	2868.3
17.5°	2772.3	2785.0	2792.2	2835.7	2835.7
20°	2712.5	2732.4	2746.9	2794.0	2801.3
22.5°	2652.7	2676.3	2698.0	2746.9	2757.8
25°	2576.6	2612.8	2643.6	2701.6	2703.4
27.5°	2502.3	2542.2	2583.8	2640.0	2645.5
30°	2420.8	2471.5	2522.2	2576.6	2592.9
32.5°	2333.8	2390.0	2446.1	2518.6	2540.4
35°	2239.6	2299.4	2377.3	2453.4	2475.1
37.5°	2145.4	2212.4	2303.0	2380.9	2400.8
40°	2049.3	2123.6	2225.1	2304.8	2328.4
42.5°	1942.4	2033.0	2141.7	2226.9	2254.1
45°	1840.9	1937.0	2054.8	2147.2	2172.5
47.5°	1734.0	1835.5	1962.3	2060.2	2089.2
50°	1619.9	1735.9	1871.8	1969.6	1996.8
52.5°	1513.0	1630.8	1773.9	1875.4	1913.4
55°	1400.6	1525.7	1672.4	1777.5	1813.8
57.5°	1295.5	1415.1	1572.8	1677.9	1723.2
60°	1176.0	1308.2	1465.9	1580.0	1616.3
62.5°	1063.6	1197.7	1360.8	1478.6	1520.2
65°	947.7	1083.5	1252.1	1375.3	1413.3
67.5°	838.9	973.0	1145.2	1266.6	1315.5
70°	719.3	860.7	1036.4	1161.5	1203.1
72.5°	601.6	748.3	927.7	1061.8	1108.9
75°	492.9	636.0	822.6	953.1	1005.6
77.5°	387.8	532.7	721.2	855.2	900.5
80°	282.7	434.9	626.9	759.2	802.7
82.5°	186.6	346.1	536.3	668.6	715.7
85°	108.7	270.0	456.6	583.4	634.2
87.5°	47.1	204.8	382.3	507.3	549.0
90°	1.8	152.2	322.5	443.9	487.4
92.5°	1.8	148.6	315.3	434.9	476.5
95°	1.8	145.0	313.5	429.4	471.1
97.5°	1.8	143.1	309.8	425.8	465.7
100°	1.8	137.7	304.4	418.6	458.4
102.5°	1.8	130.5	299.0	411.3	449.4
105°	1.8	125.0	293.5	404.1	440.3
107.5°	1.8	119.6	284.5	395.0	431.2
110°	1.8	114.2	270.0	385.9	422.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	112.3	259.1	373.3	411.3
115°	3.6	108.7	248.2	358.8	398.6
117.5°	3.6	106.9	239.2	344.3	385.9
120°	3.6	101.5	230.1	331.6	371.5
122.5°	3.6	96.0	221.1	318.9	358.8
125°	3.6	92.4	212.0	306.2	344.3
127.5°	3.6	87.0	204.8	293.5	328.0
130°	3.6	83.3	195.7	279.0	313.5
132.5°	3.6	77.9	186.6	264.5	297.2
135°	3.6	72.5	177.6	251.9	282.7
137.5°	3.6	65.2	166.7	237.4	266.4
140°	3.6	59.8	152.2	222.9	250.0
142.5°	3.6	56.2	137.7	206.6	231.9
145°	3.6	52.5	123.2	190.3	213.8
147.5°	3.6	48.9	110.5	173.9	195.7
150°	3.6	43.5	97.8	159.5	177.6
152.5°	5.4	39.9	87.0	141.3	159.5
155°	5.4	36.2	76.1	121.4	141.3
157.5°	5.4	32.6	65.2	101.5	123.2
160°	5.4	29.0	56.2	83.3	105.1
162.5°	5.4	27.2	48.9	68.9	88.8
165°	5.4	23.6	41.7	56.2	72.5
167.5°	5.4	18.1	34.4	43.5	59.8
170°	5.4	14.5	27.2	30.8	45.3
172.5°	5.4	10.9	19.9	21.7	23.6
175°	5.4	9.1	12.7	12.7	7.2
177.5°	5.4	7.2	7.2	7.2	3.6
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)