

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: P565967

Luminaire Tested: **4SNX-100HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565967  
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-100HL-LW-UNV-L835-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

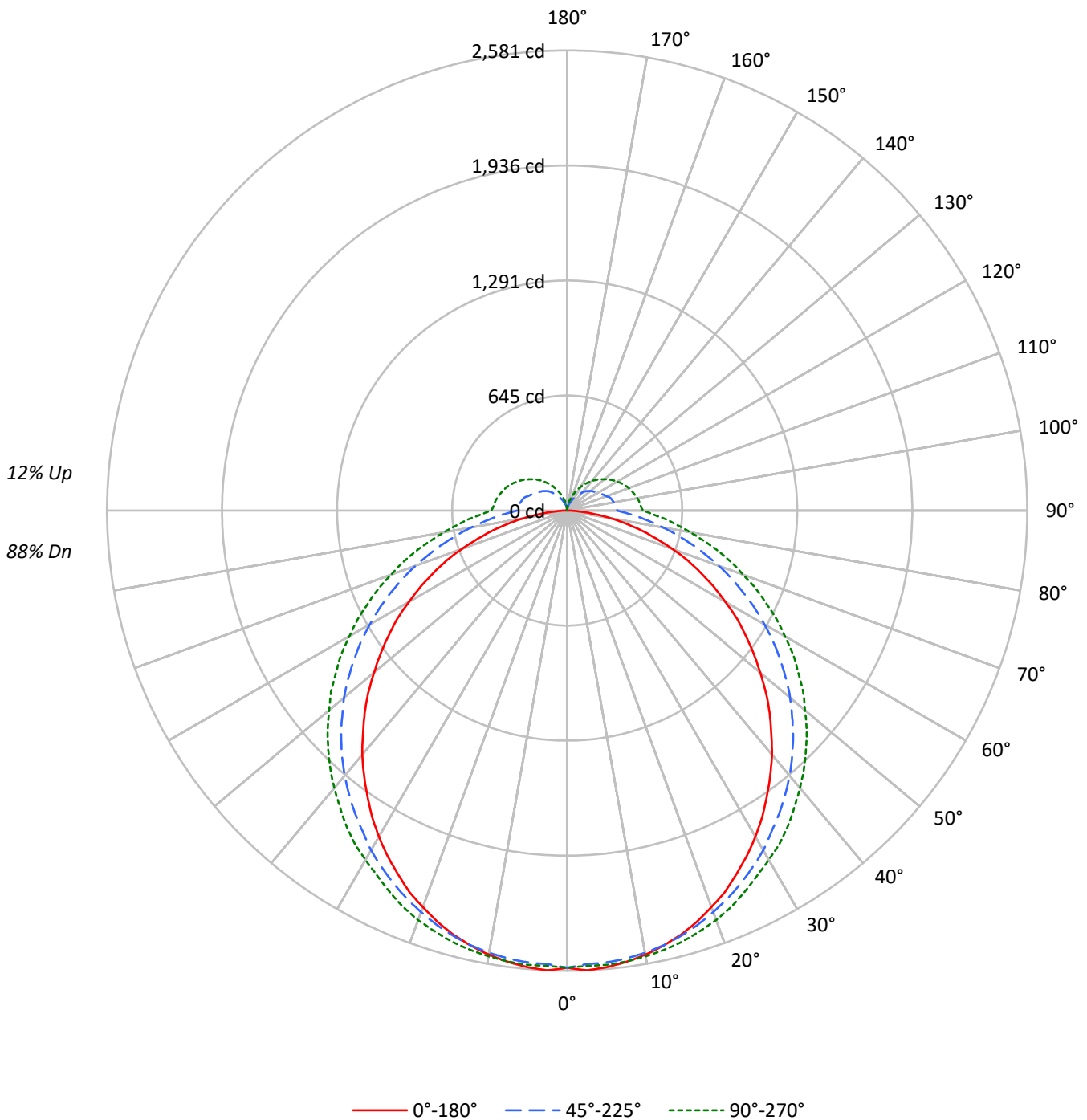
Lumens per Lamp: N/A  
Luminaire Lumens: 9231.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 72.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	27599	27599	27599
5°	27671	26329	26113
10°	27442	25290	24829
15°	27141	24260	23659
20°	26701	23218	22528
25°	26189	22205	21368
30°	25632	21214	20302
35°	24946	20177	19344
40°	24274	19205	18303
45°	23471	18181	17311
50°	22545	17123	16256
55°	21643	15963	15212
60°	20599	14741	14088
65°	19329	13413	12925
70°	17723	11976	11665
75°	15476	10403	10460
80°	12364	8827	9080
85°	7931	7316	7927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.4	2.6
10°-20°	700.2	7.6
20°-30°	1065.2	11.5
30°-40°	1295.2	14.0
40°-50°	1370.3	14.8
50°-60°	1284.4	13.9
60°-70°	1056.7	11.4
70°-80°	731.1	7.9
80°-90°	406.5	4.4
90°-100°	267.8	2.9
100°-110°	240.2	2.6
110°-120°	198.8	2.2
120°-130°	153.7	1.7
130°-140°	108.8	1.2
140°-150°	65.6	0.7
150°-160°	31.5	0.3
160°-170°	10.3	0.1
170°-180°	1.3	0.0
0°-30°	2008.8	21.8
0°-40°	3304.0	35.8
0°-60°	5958.7	64.6
0°-90°	8153.0	88.3
90°-120°	706.8	7.7
90°-150°	1034.9	11.2
90°-180°	1078.0	11.7
0°-180°	9231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2564	2564	2564	2564	2564	
5°	2570	2566	2544	2564	2558	244
15°	2463	2471	2469	2502	2502	694
25°	2248	2280	2306	2357	2358	1036
35°	1954	2006	2074	2140	2159	1223
45°	1606	1690	1793	1873	1895	1238
55°	1222	1331	1459	1551	1582	1094
65°	827	945	1092	1200	1233	820
75°	430	555	718	832	877	456
85°	95	236	398	509	553	109
90°	2	133	281	387	425	6
95°	2	126	274	375	411	1
105°	2	109	256	352	384	2
115°	3	95	217	313	348	3
125°	3	81	185	267	300	3
135°	3	63	155	220	247	2
145°	3	46	108	166	186	2
155°	5	32	66	106	123	2
165°	5	21	36	49	63	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2564.0	2564.0	2564.0	2564.0	2564.0
2.5°	2581.4	2573.5	2546.6	2564.0	2556.1
5°	2570.3	2565.6	2543.5	2564.0	2557.7
7.5°	2552.9	2551.4	2534.0	2557.7	2551.4
10°	2529.2	2532.4	2518.2	2543.5	2538.7
12.5°	2499.2	2503.9	2497.6	2526.1	2522.9
15°	2462.8	2470.7	2469.2	2502.4	2502.4
17.5°	2418.6	2429.6	2436.0	2473.9	2473.9
20°	2366.4	2383.8	2396.5	2437.6	2443.9
22.5°	2314.3	2334.8	2353.8	2396.5	2405.9
25°	2247.9	2279.5	2306.3	2356.9	2358.5
27.5°	2183.0	2217.8	2254.2	2303.2	2307.9
30°	2111.9	2156.2	2200.4	2247.9	2262.1
32.5°	2036.0	2085.0	2134.0	2197.3	2216.2
35°	1953.8	2006.0	2074.0	2140.4	2159.3
37.5°	1871.6	1930.1	2009.2	2077.1	2094.5
40°	1787.9	1852.7	1941.2	2010.7	2031.3
42.5°	1694.6	1773.6	1868.5	1942.8	1966.5
45°	1606.1	1689.8	1792.6	1873.2	1895.3
47.5°	1512.8	1601.3	1712.0	1797.3	1822.6
50°	1413.2	1514.4	1632.9	1718.3	1742.0
52.5°	1319.9	1422.7	1547.6	1636.1	1669.3
55°	1221.9	1331.0	1459.1	1550.7	1582.4
57.5°	1130.3	1234.6	1372.1	1463.8	1503.3
60°	1025.9	1141.3	1278.8	1378.4	1410.1
62.5°	927.9	1044.9	1187.2	1289.9	1326.3
65°	826.7	945.3	1092.3	1199.8	1233.0
67.5°	731.9	848.9	999.0	1105.0	1147.6
70°	627.6	750.9	904.2	1013.3	1049.6
72.5°	524.8	652.9	809.4	926.3	967.4
75°	430.0	554.9	717.7	831.5	877.3
77.5°	338.3	464.7	629.1	746.1	785.6
80°	246.6	379.4	546.9	662.3	700.3
82.5°	162.8	301.9	467.9	583.3	624.4
85°	94.8	235.5	398.4	509.0	553.3
87.5°	41.1	178.6	333.5	442.6	479.0
90°	1.6	132.8	281.4	387.3	425.2
92.5°	1.6	129.6	275.1	379.4	415.7
95°	1.6	126.5	273.5	374.6	411.0
97.5°	1.6	124.9	270.3	371.5	406.3
100°	1.6	120.1	265.6	365.2	399.9
102.5°	1.6	113.8	260.8	358.8	392.0
105°	1.6	109.1	256.1	352.5	384.1
107.5°	1.6	104.3	248.2	344.6	376.2
110°	1.6	99.6	235.5	336.7	368.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	98.0	226.1	325.6	358.8
115°	3.2	94.8	216.6	313.0	347.8
117.5°	3.2	93.3	208.7	300.3	336.7
120°	3.2	88.5	200.8	289.3	324.1
122.5°	3.2	83.8	192.9	278.2	313.0
125°	3.2	80.6	185.0	267.2	300.3
127.5°	3.2	75.9	178.6	256.1	286.1
130°	3.2	72.7	170.7	243.4	273.5
132.5°	3.2	68.0	162.8	230.8	259.2
135°	3.2	63.2	154.9	219.7	246.6
137.5°	3.2	56.9	145.4	207.1	232.4
140°	3.2	52.2	132.8	194.4	218.1
142.5°	3.2	49.0	120.1	180.2	202.3
145°	3.2	45.8	107.5	166.0	186.5
147.5°	3.2	42.7	96.4	151.8	170.7
150°	3.2	37.9	85.4	139.1	154.9
152.5°	4.7	34.8	75.9	123.3	139.1
155°	4.7	31.6	66.4	105.9	123.3
157.5°	4.7	28.5	56.9	88.5	107.5
160°	4.7	25.3	49.0	72.7	91.7
162.5°	4.7	23.7	42.7	60.1	77.5
165°	4.7	20.6	36.4	49.0	63.2
167.5°	4.7	15.8	30.0	37.9	52.2
170°	4.7	12.6	23.7	26.9	39.5
172.5°	4.7	9.5	17.4	19.0	20.6
175°	4.7	7.9	11.1	11.1	6.3
177.5°	4.7	6.3	6.3	6.3	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)