

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: P565966

Luminaire Tested: **4SNX-100HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565966  
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-L830-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

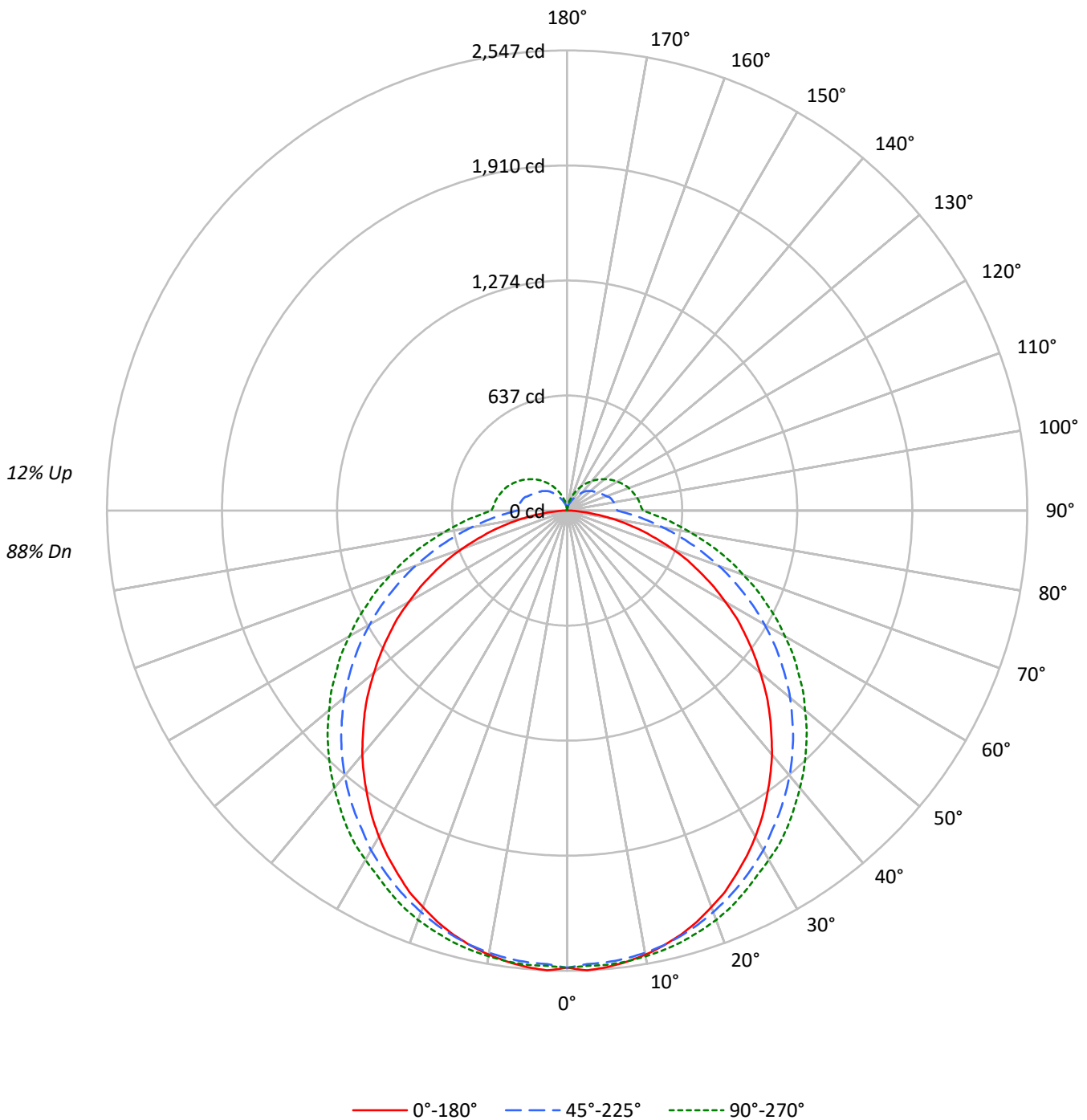
Lumens per Lamp: N/A  
Luminaire Lumens: 9109.1 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 72.5  
Input Voltage (V): NR  
Input Current (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°	27234	27234	27234
5°	27306	25980	25768
10°	27080	24956	24502
15°	26783	23939	23346
20°	26348	22911	22230
25°	25843	21912	21086
30°	25294	20935	20033
35°	24616	19910	19089
40°	23952	18951	18061
45°	23160	17941	17082
50°	22247	16897	16041
55°	21357	15752	15010
60°	20328	14546	13901
65°	19074	13236	12754
70°	17488	11818	11512
75°	15271	10265	10322
80°	12199	8711	8959
85°	7830	7219	7823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.2	2.6
10°-20°	690.9	7.6
20°-30°	1051.1	11.5
30°-40°	1278.1	14.0
40°-50°	1352.2	14.8
50°-60°	1267.5	13.9
60°-70°	1042.7	11.4
70°-80°	721.5	7.9
80°-90°	401.2	4.4
90°-100°	264.3	2.9
100°-110°	237.0	2.6
110°-120°	196.2	2.2
120°-130°	151.7	1.7
130°-140°	107.4	1.2
140°-150°	64.8	0.7
150°-160°	31.1	0.3
160°-170°	10.2	0.1
170°-180°	1.2	0.0
0°-30°	1982.3	21.8
0°-40°	3260.3	35.8
0°-60°	5879.9	64.6
0°-90°	8045.3	88.3
90°-120°	697.5	7.7
90°-150°	1021.3	11.2
90°-180°	1064.0	11.7
0°-180°	9109.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2536	2532	2510	2530	2524	241
15°	2430	2438	2436	2469	2469	685
25°	2218	2249	2276	2326	2327	1022
35°	1928	1980	2047	2112	2131	1207
45°	1585	1668	1769	1848	1870	1222
55°	1206	1313	1440	1530	1561	1079
65°	816	933	1078	1184	1217	809
75°	424	548	708	820	866	450
85°	94	232	393	502	546	108
90°	2	131	278	382	420	6
95°	2	125	270	370	406	1
105°	2	108	253	348	379	2
115°	3	94	214	309	343	3
125°	3	80	182	264	296	3
135°	3	62	153	217	243	2
145°	3	45	106	164	184	2
155°	5	31	66	104	122	2
165°	5	20	36	48	62	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°	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2547.3	2539.5	2513.0	2530.1	2522.3
5°	2536.4	2531.7	2509.8	2530.1	2523.9
7.5°	2519.2	2517.6	2500.5	2523.9	2517.6
10°	2495.8	2498.9	2484.9	2509.8	2505.2
12.5°	2466.2	2470.9	2464.6	2492.7	2489.6
15°	2430.3	2438.1	2436.5	2469.3	2469.3
17.5°	2386.6	2397.5	2403.8	2441.2	2441.2
20°	2335.1	2352.3	2364.8	2405.3	2411.6
22.5°	2283.7	2303.9	2322.7	2364.8	2374.1
25°	2218.2	2249.3	2275.9	2325.8	2327.3
27.5°	2154.2	2188.5	2224.4	2272.7	2277.4
30°	2084.0	2127.7	2171.4	2218.2	2232.2
32.5°	2009.1	2057.5	2105.8	2168.2	2187.0
35°	1928.0	1979.5	2046.6	2112.1	2130.8
37.5°	1846.9	1904.6	1982.6	2049.7	2066.8
40°	1764.2	1828.2	1915.5	1984.2	2004.4
42.5°	1672.2	1750.2	1843.8	1917.1	1940.5
45°	1584.8	1667.5	1768.9	1848.5	1870.3
47.5°	1492.8	1580.2	1689.4	1773.6	1798.5
50°	1394.5	1494.4	1611.4	1695.6	1719.0
52.5°	1302.5	1403.9	1527.1	1614.5	1647.2
55°	1205.8	1313.4	1439.8	1530.2	1561.4
57.5°	1115.3	1218.3	1354.0	1444.5	1483.4
60°	1012.4	1126.2	1261.9	1360.2	1391.4
62.5°	915.7	1031.1	1171.5	1272.9	1308.7
65°	815.8	932.8	1077.9	1184.0	1216.7
67.5°	722.2	837.7	985.8	1090.4	1132.5
70°	619.3	740.9	892.3	999.9	1035.8
72.5°	517.9	644.2	798.7	914.1	954.6
75°	424.3	547.5	708.2	820.5	865.7
77.5°	333.8	458.6	620.8	736.3	775.3
80°	243.3	374.4	539.7	653.6	691.0
82.5°	160.7	297.9	461.7	575.6	616.2
85°	93.6	232.4	393.1	502.3	546.0
87.5°	40.6	176.3	329.1	436.8	472.6
90°	1.6	131.0	277.7	382.2	419.6
92.5°	1.6	127.9	271.4	374.4	410.2
95°	1.6	124.8	269.9	369.7	405.6
97.5°	1.6	123.2	266.7	366.6	400.9
100°	1.6	118.6	262.1	360.3	394.7
102.5°	1.6	112.3	257.4	354.1	386.9
105°	1.6	107.6	252.7	347.9	379.1
107.5°	1.6	103.0	244.9	340.1	371.3
110°	1.6	98.3	232.4	332.3	363.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	96.7	223.1	321.3	354.1
115°	3.1	93.6	213.7	308.9	343.2
117.5°	3.1	92.0	205.9	296.4	332.3
120°	3.1	87.4	198.1	285.5	319.8
122.5°	3.1	82.7	190.3	274.5	308.9
125°	3.1	79.6	182.5	263.6	296.4
127.5°	3.1	74.9	176.3	252.7	282.3
130°	3.1	71.8	168.5	240.2	269.9
132.5°	3.1	67.1	160.7	227.7	255.8
135°	3.1	62.4	152.9	216.8	243.3
137.5°	3.1	56.2	143.5	204.3	229.3
140°	3.1	51.5	131.0	191.9	215.3
142.5°	3.1	48.4	118.6	177.8	199.7
145°	3.1	45.2	106.1	163.8	184.1
147.5°	3.1	42.1	95.2	149.7	168.5
150°	3.1	37.4	84.2	137.3	152.9
152.5°	4.7	34.3	74.9	121.7	137.3
155°	4.7	31.2	65.5	104.5	121.7
157.5°	4.7	28.1	56.2	87.4	106.1
160°	4.7	25.0	48.4	71.8	90.5
162.5°	4.7	23.4	42.1	59.3	76.4
165°	4.7	20.3	35.9	48.4	62.4
167.5°	4.7	15.6	29.6	37.4	51.5
170°	4.7	12.5	23.4	26.5	39.0
172.5°	4.7	9.4	17.2	18.7	20.3
175°	4.7	7.8	10.9	10.9	6.2
177.5°	4.7	6.2	6.2	6.2	3.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)