

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: P565942

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565942
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-FDL-UNV-L830-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

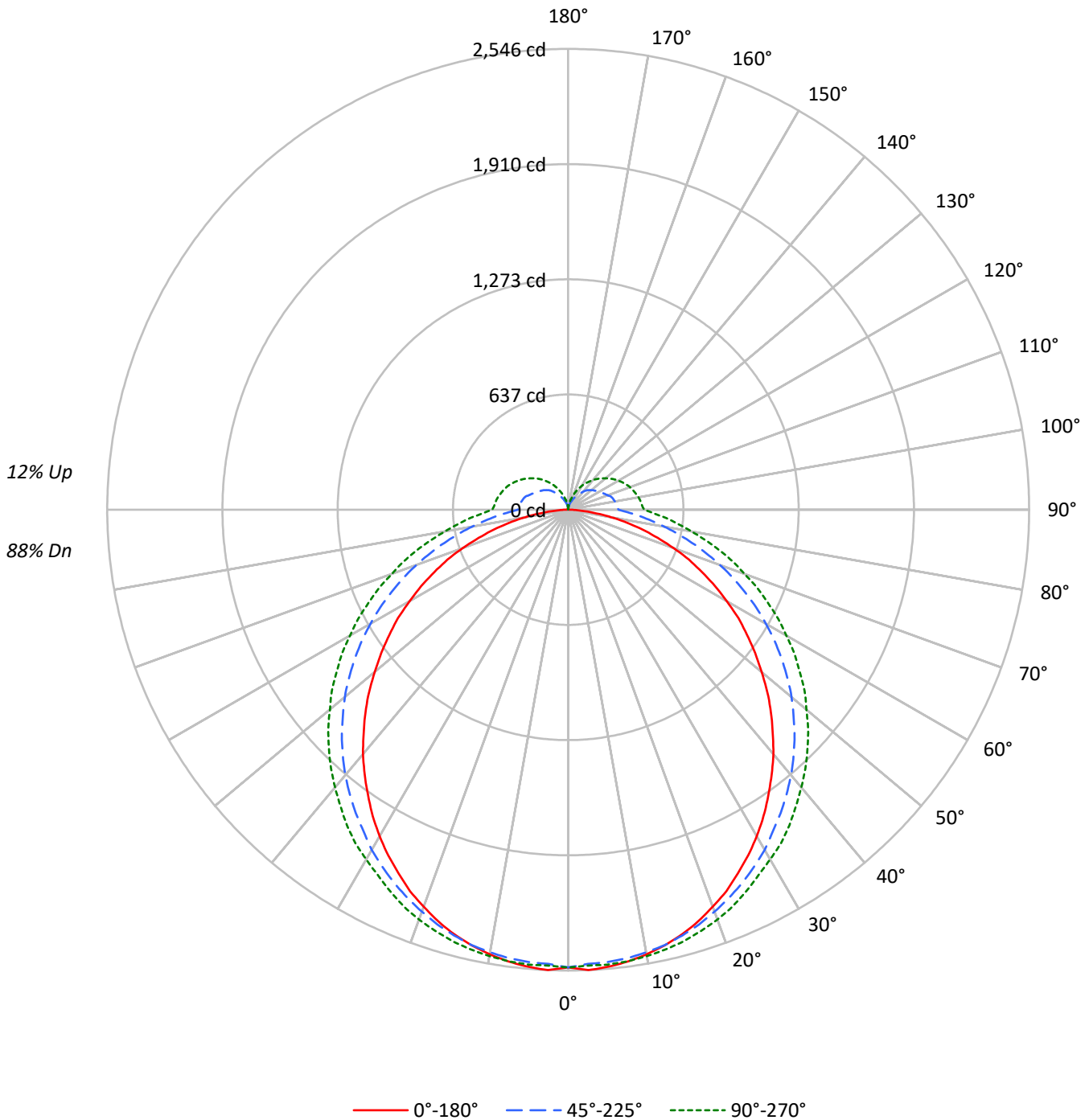
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9104.0 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: 0.04')
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°	27219	27219	27219
5°	27366	26811	26864
10°	27214	26558	26585
15°	26993	26256	26326
20°	26633	25893	26030
25°	26202	25524	25634
30°	25734	25155	25295
35°	25138	24711	25059
40°	24562	24343	24695
45°	23864	23917	24390
50°	23054	23467	24002
55°	22284	22908	23656
60°	21396	22314	23232
65°	20314	21630	22816
70°	18936	20882	22347
75°	16978	20061	22186
80°	14234	19551	22007
85°	10319	19958	23199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	2.6
10°-20°	690.6	7.6
20°-30°	1050.5	11.5
30°-40°	1277.4	14.0
40°-50°	1351.4	14.8
50°-60°	1266.8	13.9
60°-70°	1042.1	11.4
70°-80°	721.1	7.9
80°-90°	401.0	4.4
90°-100°	264.2	2.9
100°-110°	236.9	2.6
110°-120°	196.1	2.2
120°-130°	151.6	1.7
130°-140°	107.3	1.2
140°-150°	64.7	0.7
150°-160°	31.1	0.3
160°-170°	10.2	0.1
170°-180°	1.2	0.0
0°-30°	1981.2	21.8
0°-40°	3258.5	35.8
0°-60°	5876.7	64.6
0°-90°	8040.9	88.3
90°-120°	697.1	7.7
90°-150°	1020.7	11.2
90°-180°	1063.0	11.7
0°-180°	9104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2529	2529	2529	2529	2529	
5°	2535	2530	2508	2529	2522	241
15°	2429	2437	2435	2468	2468	685
25°	2217	2248	2275	2324	2326	1022
35°	1927	1978	2045	2111	2130	1206
45°	1584	1667	1768	1847	1869	1221
55°	1205	1313	1439	1529	1561	1079
65°	815	932	1077	1183	1216	808
75°	424	547	708	820	865	450
85°	94	232	393	502	546	108
90°	2	131	278	382	419	6
95°	2	125	270	370	405	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°	2528.7	2528.7	2528.7	2528.7	2528.7
2.5°	2545.9	2538.1	2511.6	2528.7	2520.9
5°	2535.0	2530.3	2508.5	2528.7	2522.5
7.5°	2517.8	2516.3	2499.1	2522.5	2516.3
10°	2494.4	2497.6	2483.5	2508.5	2503.8
12.5°	2464.8	2469.5	2463.3	2491.3	2488.2
15°	2429.0	2436.8	2435.2	2467.9	2467.9
17.5°	2385.3	2396.2	2402.5	2439.9	2439.9
20°	2333.9	2351.0	2363.5	2404.0	2410.3
22.5°	2282.4	2302.7	2321.4	2363.5	2372.8
25°	2216.9	2248.1	2274.6	2324.5	2326.1
27.5°	2153.0	2187.3	2223.2	2271.5	2276.2
30°	2082.9	2126.5	2170.2	2216.9	2231.0
32.5°	2008.0	2056.4	2104.7	2167.0	2185.8
35°	1927.0	1978.4	2045.4	2110.9	2129.6
37.5°	1845.9	1903.6	1981.5	2048.6	2065.7
40°	1763.3	1827.2	1914.5	1983.1	2003.3
42.5°	1671.3	1749.2	1842.8	1916.0	1939.4
45°	1584.0	1666.6	1767.9	1847.4	1869.3
47.5°	1492.0	1579.3	1688.4	1772.6	1797.6
50°	1393.8	1493.5	1610.5	1694.7	1718.0
52.5°	1301.8	1403.1	1526.3	1613.6	1646.3
55°	1205.1	1312.7	1439.0	1529.4	1560.6
57.5°	1114.7	1217.6	1353.2	1443.7	1482.6
60°	1011.8	1125.6	1261.3	1359.5	1390.7
62.5°	915.1	1030.5	1170.8	1272.2	1308.0
65°	815.4	932.3	1077.3	1183.3	1216.0
67.5°	721.8	837.2	985.3	1089.8	1131.9
70°	618.9	740.5	891.8	999.3	1035.2
72.5°	517.6	643.9	798.2	913.6	954.1
75°	424.1	547.2	707.8	820.0	865.3
77.5°	333.6	458.4	620.5	735.9	774.8
80°	243.2	374.2	539.4	653.2	690.6
82.5°	160.6	297.8	461.5	575.3	615.8
85°	93.5	232.3	392.9	502.0	545.7
87.5°	40.5	176.2	329.0	436.5	472.4
90°	1.6	131.0	277.5	382.0	419.4
92.5°	1.6	127.8	271.3	374.2	410.0
95°	1.6	124.7	269.7	369.5	405.3
97.5°	1.6	123.2	266.6	366.4	400.7
100°	1.6	118.5	261.9	360.1	394.4
102.5°	1.6	112.2	257.2	353.9	386.6
105°	1.6	107.6	252.6	347.7	378.8
107.5°	1.6	102.9	244.8	339.9	371.0
110°	1.6	98.2	232.3	332.1	363.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	96.7	222.9	321.2	353.9
115°	3.1	93.5	213.6	308.7	343.0
117.5°	3.1	92.0	205.8	296.2	332.1
120°	3.1	87.3	198.0	285.3	319.6
122.5°	3.1	82.6	190.2	274.4	308.7
125°	3.1	79.5	182.4	263.5	296.2
127.5°	3.1	74.8	176.2	252.6	282.2
130°	3.1	71.7	168.4	240.1	269.7
132.5°	3.1	67.0	160.6	227.6	255.7
135°	3.1	62.4	152.8	216.7	243.2
137.5°	3.1	56.1	143.4	204.2	229.2
140°	3.1	51.4	131.0	191.8	215.1
142.5°	3.1	48.3	118.5	177.7	199.6
145°	3.1	45.2	106.0	163.7	184.0
147.5°	3.1	42.1	95.1	149.7	168.4
150°	3.1	37.4	84.2	137.2	152.8
152.5°	4.7	34.3	74.8	121.6	137.2
155°	4.7	31.2	65.5	104.5	121.6
157.5°	4.7	28.1	56.1	87.3	106.0
160°	4.7	24.9	48.3	71.7	90.4
162.5°	4.7	23.4	42.1	59.2	76.4
165°	4.7	20.3	35.9	48.3	62.4
167.5°	4.7	15.6	29.6	37.4	51.4
170°	4.7	12.5	23.4	26.5	39.0
172.5°	4.7	9.4	17.1	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)