

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: P565958

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565958  
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-100HL-LN-UNV-L830-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

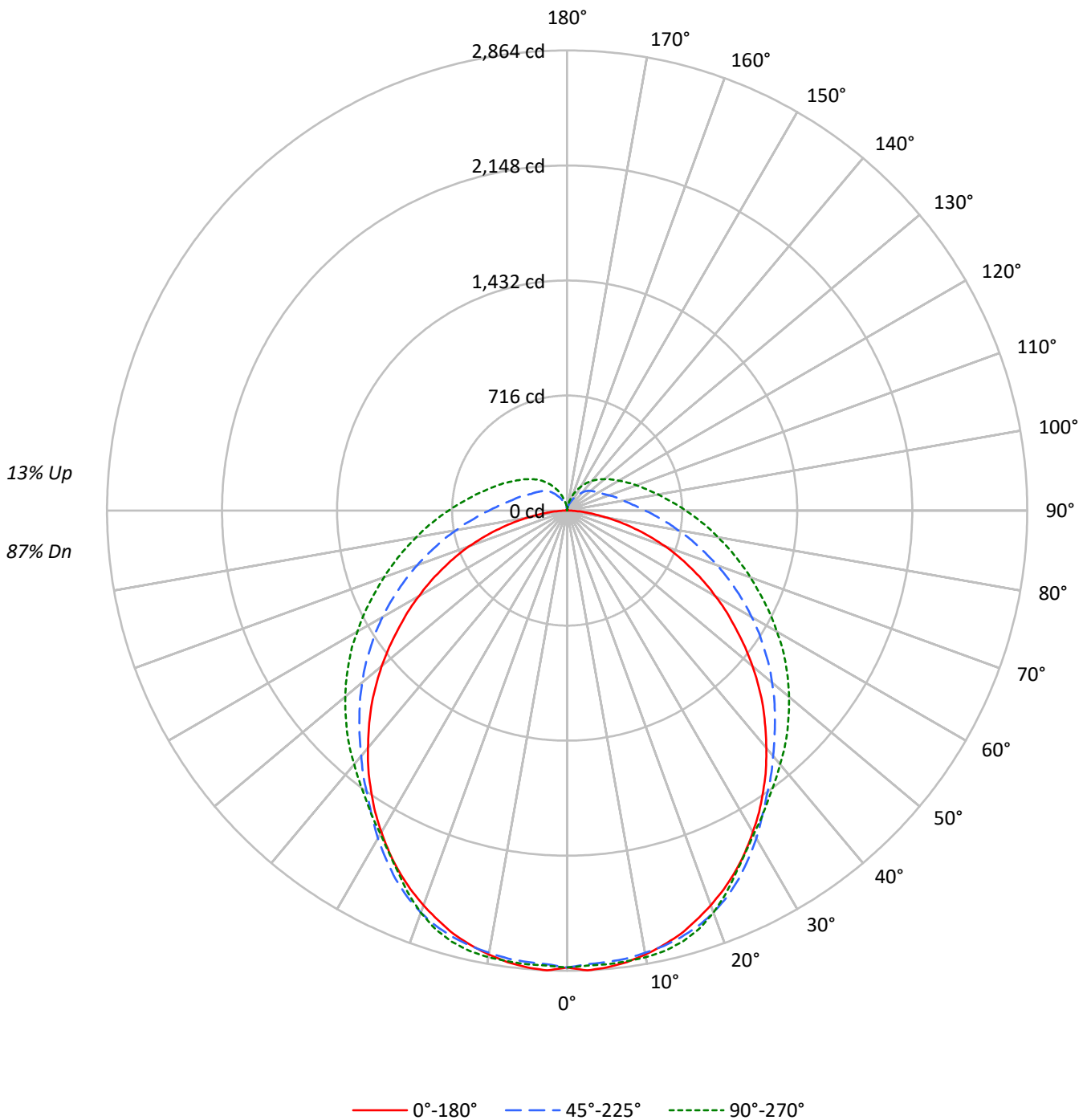
Lumens per Lamp: N/A  
Luminaire Lumens: 10264.9 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 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	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°	30608	30608	30608
5°	30726	29201	28943
10°	30438	28069	27607
15°	30072	26998	26260
20°	29494	25797	24544
25°	28871	24345	22531
30°	28050	22717	20851
35°	27174	21061	19597
40°	26178	19730	18582
45°	25203	18550	17707
50°	24043	17464	16824
55°	22686	16373	15960
60°	21384	15286	15057
65°	19936	14189	14229
70°	18282	13161	13481
75°	15721	12158	12865
80°	12389	11291	12342
85°	8299	10673	12042



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.1	2.6
10°-20°	776.7	7.6
20°-30°	1156.5	11.3
30°-40°	1364.6	13.3
40°-50°	1423.2	13.9
50°-60°	1337.4	13.0
60°-70°	1129.4	11.0
70°-80°	853.4	8.3
80°-90°	588.2	5.7
90°-100°	411.7	4.0
100°-110°	307.2	3.0
110°-120°	231.6	2.3
120°-130°	172.7	1.7
130°-140°	121.2	1.2
140°-150°	73.3	0.7
150°-160°	35.1	0.3
160°-170°	11.2	0.1
170°-180°	1.3	0.0
0°-30°	2203.3	21.5
0°-40°	3568.0	34.8
0°-60°	6328.6	61.7
0°-90°	8899.7	86.7
90°-120°	950.4	9.3
90°-150°	1317.7	12.8
90°-180°	1365.0	13.3
0°-180°	10264.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2844	2844	2844	2844	2844	
5°	2854	2849	2821	2842	2835	271
15°	2729	2741	2748	2783	2778	768
25°	2478	2529	2529	2506	2487	1140
35°	2128	2207	2165	2182	2188	1331
45°	1725	1810	1829	1904	1939	1328
55°	1281	1390	1497	1617	1660	1149
65°	853	988	1156	1307	1357	847
75°	437	606	839	1015	1079	465
85°	99	312	581	773	840	111
90°	2	221	486	672	738	7
95°	2	172	411	588	649	1
105°	4	124	317	459	512	3
115°	4	106	245	366	412	4
125°	5	90	207	299	338	5
135°	5	70	172	244	273	4
145°	7	50	120	186	209	4
155°	7	33	73	118	138	3
165°	9	21	38	52	70	2
175°	9	9	10	10	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2843.6	2843.6	2843.6	2843.6	2843.6
2.5°	2864.5	2857.5	2826.2	2843.6	2834.9
5°	2854.0	2848.8	2821.0	2841.9	2834.9
7.5°	2834.9	2833.2	2812.3	2836.6	2829.7
10°	2805.3	2810.5	2794.9	2827.9	2822.7
12.5°	2770.5	2780.9	2775.7	2812.3	2807.1
15°	2728.7	2740.9	2747.9	2782.7	2777.5
17.5°	2673.0	2695.7	2711.3	2739.2	2730.5
20°	2613.9	2645.2	2662.6	2676.5	2662.6
22.5°	2549.5	2591.3	2601.7	2594.7	2580.8
25°	2478.1	2528.6	2528.6	2506.0	2486.8
27.5°	2398.1	2460.7	2443.3	2417.2	2401.6
30°	2311.1	2385.9	2356.3	2326.7	2323.3
32.5°	2224.1	2302.4	2258.9	2251.9	2257.1
35°	2128.3	2206.7	2164.9	2182.3	2187.5
37.5°	2032.6	2110.9	2083.1	2109.2	2124.9
40°	1928.2	2011.7	1994.3	2041.3	2062.2
42.5°	1825.5	1912.6	1910.8	1971.7	2003.0
45°	1724.6	1809.9	1829.0	1903.9	1938.7
47.5°	1615.0	1702.0	1749.0	1836.0	1870.8
50°	1507.1	1601.0	1665.4	1762.9	1802.9
52.5°	1395.7	1494.9	1583.6	1691.5	1733.3
55°	1280.8	1390.5	1496.6	1616.7	1660.2
57.5°	1178.2	1289.5	1414.8	1538.4	1588.9
60°	1065.0	1188.6	1326.1	1456.6	1507.1
62.5°	962.4	1089.4	1242.6	1380.0	1434.0
65°	852.7	988.5	1155.5	1306.9	1357.4
67.5°	751.8	891.0	1073.7	1226.9	1282.6
70°	647.4	795.3	993.7	1155.5	1213.0
72.5°	539.5	696.1	913.6	1085.9	1145.1
75°	436.8	605.6	838.8	1014.6	1079.0
77.5°	341.1	518.6	770.9	951.9	1014.6
80°	247.1	440.3	699.6	887.5	951.9
82.5°	163.6	372.4	642.2	830.1	898.0
85°	99.2	311.5	581.2	772.7	840.5
87.5°	45.2	261.0	532.5	722.2	788.3
90°	1.7	221.0	485.5	671.7	737.9
92.5°	1.7	193.2	447.2	628.2	692.6
95°	1.7	172.3	410.7	588.2	649.1
97.5°	1.7	158.4	382.9	549.9	609.1
100°	1.7	144.4	355.0	515.1	576.0
102.5°	3.5	132.3	334.1	483.8	541.2
105°	3.5	123.6	316.7	459.4	511.6
107.5°	3.5	118.3	297.6	435.1	483.8
110°	3.5	113.1	276.7	410.7	459.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	109.6	261.0	389.8	436.8
115°	3.5	106.2	245.4	365.5	412.4
117.5°	3.5	104.4	236.7	346.3	391.6
120°	5.2	99.2	226.2	328.9	372.4
122.5°	5.2	94.0	215.8	315.0	353.3
125°	5.2	90.5	207.1	299.3	337.6
127.5°	5.2	85.3	198.4	285.4	320.2
130°	5.2	80.1	191.4	271.5	304.5
132.5°	5.2	74.8	182.7	257.6	288.9
135°	5.2	69.6	172.3	243.6	273.2
137.5°	5.2	64.4	161.8	229.7	257.6
140°	5.2	59.2	147.9	215.8	241.9
142.5°	5.2	53.9	134.0	201.9	224.5
145°	7.0	50.5	120.1	186.2	208.8
147.5°	7.0	45.2	106.2	170.5	189.7
150°	7.0	41.8	95.7	154.9	172.3
152.5°	7.0	36.5	85.3	137.5	154.9
155°	7.0	33.1	73.1	118.3	137.5
157.5°	7.0	29.6	62.6	99.2	120.1
160°	7.0	27.8	53.9	81.8	102.7
162.5°	8.7	24.4	45.2	66.1	85.3
165°	8.7	20.9	38.3	52.2	69.6
167.5°	8.7	17.4	31.3	40.0	53.9
170°	8.7	13.9	24.4	27.8	41.8
172.5°	8.7	10.4	17.4	19.1	20.9
175°	8.7	8.7	10.4	10.4	5.2
177.5°	8.7	8.7	7.0	5.2	1.7
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)