

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: P565961

Luminaire Tested: **4SNX-100HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565961
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-L850-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

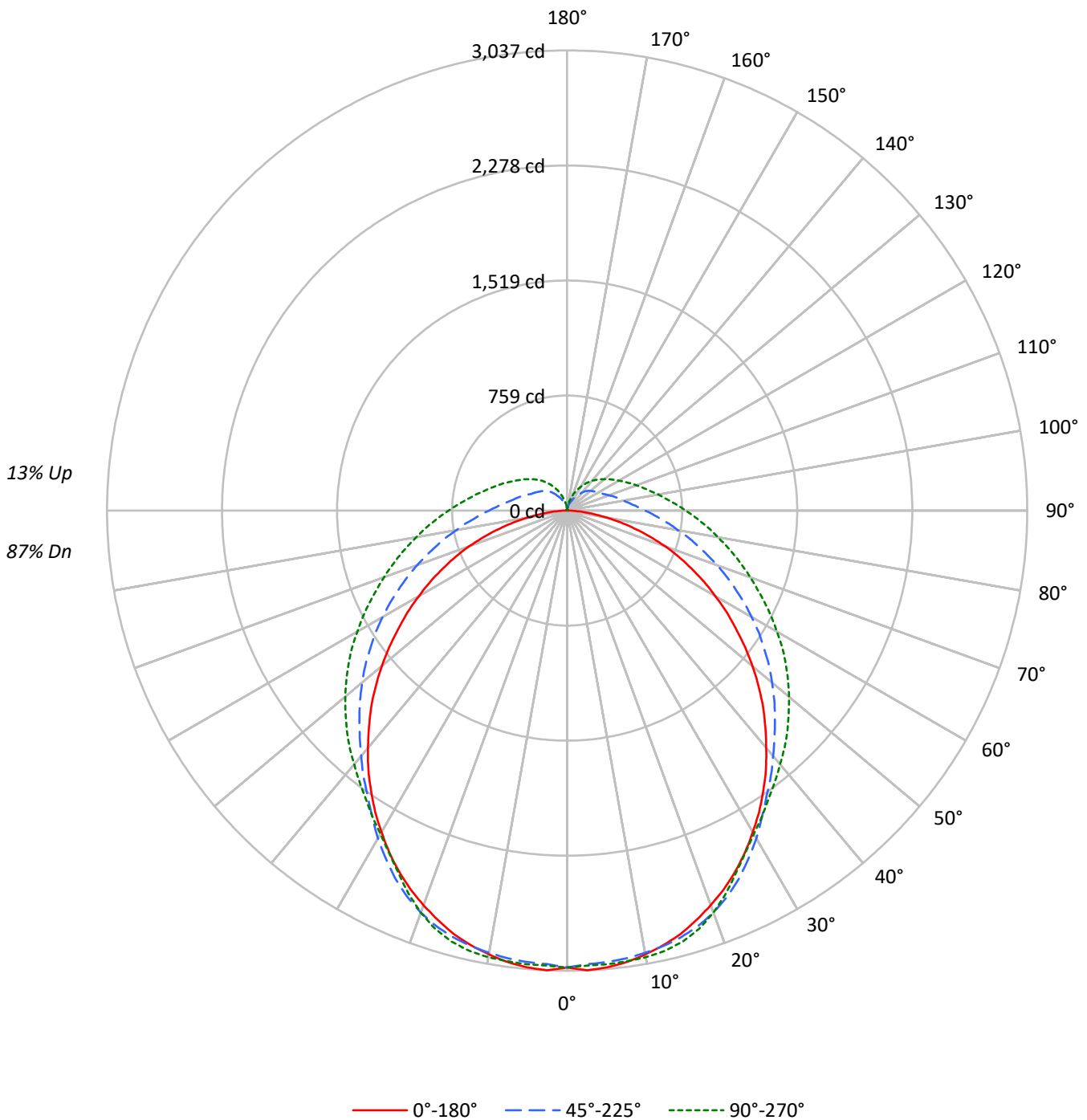
Lumens per Lamp: N/A
Luminaire Lumens: 10884.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P565961

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L850-CD

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°	32454	32454	32454
5°	32578	30962	30688
10°	32274	29761	29271
15°	31886	28626	27844
20°	31272	27352	26024
25°	30612	25813	23890
30°	29741	24087	22108
35°	28813	22331	20778
40°	27757	20920	19703
45°	26722	19669	18775
50°	25494	18518	17838
55°	24055	17361	16922
60°	22675	16207	15966
65°	21141	15045	15088
70°	19383	13955	14294
75°	16668	12891	13640
80°	13136	11973	13086
85°	8801	11318	12768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	2.6
10°-20°	823.5	7.6
20°-30°	1226.3	11.3
30°-40°	1446.9	13.3
40°-50°	1509.0	13.9
50°-60°	1418.1	13.0
60°-70°	1197.6	11.0
70°-80°	904.8	8.3
80°-90°	623.7	5.7
90°-100°	436.5	4.0
100°-110°	325.7	3.0
110°-120°	245.5	2.3
120°-130°	183.1	1.7
130°-140°	128.5	1.2
140°-150°	77.7	0.7
150°-160°	37.2	0.3
160°-170°	11.9	0.1
170°-180°	1.4	0.0
0°-30°	2336.2	21.5
0°-40°	3783.1	34.8
0°-60°	6710.2	61.7
0°-90°	9436.4	86.7
90°-120°	1007.7	9.3
90°-150°	1397.1	12.8
90°-180°	1448.0	13.3
0°-180°	10884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3015	3015	3015	3015	3015	
5°	3026	3021	2991	3013	3006	287
15°	2893	2906	2914	2950	2945	815
25°	2628	2681	2681	2657	2637	1209
35°	2257	2340	2295	2314	2319	1411
45°	1829	1919	1939	2019	2056	1408
55°	1358	1474	1587	1714	1760	1219
65°	904	1048	1225	1386	1439	898
75°	463	642	889	1076	1144	493
85°	105	330	616	819	891	118
90°	2	234	515	712	782	7
95°	2	183	436	624	688	1
105°	4	131	336	487	542	4
115°	4	113	260	388	437	4
125°	6	96	220	317	358	5
135°	6	74	183	258	290	4
145°	7	54	127	197	221	4
155°	7	35	78	126	146	3
165°	9	22	41	55	74	3
175°	9	9	11	11	6	1
180°	6	6	6	6	6	



TEST NUMBER: P565961

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3015.1	3015.1	3015.1	3015.1	3015.1
2.5°	3037.2	3029.8	2996.6	3015.1	3005.8
5°	3026.1	3020.6	2991.1	3013.2	3005.8
7.5°	3005.8	3004.0	2981.9	3007.7	3000.3
10°	2974.5	2980.0	2963.4	2998.5	2992.9
12.5°	2937.6	2948.6	2943.1	2981.9	2976.3
15°	2893.3	2906.2	2913.6	2950.5	2945.0
17.5°	2834.2	2858.2	2874.8	2904.4	2895.1
20°	2771.5	2804.7	2823.2	2837.9	2823.2
22.5°	2703.2	2747.5	2758.6	2751.2	2736.4
25°	2627.6	2681.1	2681.1	2657.1	2636.8
27.5°	2542.7	2609.1	2590.7	2563.0	2546.4
30°	2450.4	2529.8	2498.4	2467.0	2463.4
32.5°	2358.2	2441.2	2395.1	2387.7	2393.2
35°	2256.7	2339.7	2295.4	2313.9	2319.4
37.5°	2155.2	2238.2	2208.7	2236.4	2253.0
40°	2044.5	2133.1	2114.6	2164.4	2186.6
42.5°	1935.6	2027.9	2026.0	2090.6	2123.8
45°	1828.6	1919.0	1939.3	2018.7	2055.6
47.5°	1712.4	1804.6	1854.4	1946.7	1983.6
50°	1598.0	1697.6	1765.9	1869.2	1911.6
52.5°	1479.9	1585.0	1679.1	1793.5	1837.8
55°	1358.1	1474.3	1586.9	1714.2	1760.3
57.5°	1249.2	1367.3	1500.2	1631.2	1684.7
60°	1129.3	1260.3	1406.0	1544.4	1598.0
62.5°	1020.4	1155.1	1317.5	1463.3	1520.5
65°	904.2	1048.1	1225.2	1385.8	1439.3
67.5°	797.1	944.7	1138.5	1300.9	1359.9
70°	686.4	843.3	1053.6	1225.2	1286.1
72.5°	572.0	738.1	968.7	1151.4	1214.1
75°	463.1	642.1	889.4	1075.8	1144.0
77.5°	361.7	549.9	817.4	1009.3	1075.8
80°	262.0	466.8	741.8	941.1	1009.3
82.5°	173.4	394.9	680.9	880.2	952.1
85°	105.2	330.3	616.3	819.3	891.2
87.5°	48.0	276.8	564.6	765.8	835.9
90°	1.8	234.3	514.8	712.3	782.4
92.5°	1.8	204.8	474.2	666.1	734.4
95°	1.8	182.7	435.5	623.7	688.3
97.5°	1.8	167.9	405.9	583.1	645.8
100°	1.8	153.2	376.4	546.2	610.8
102.5°	3.7	140.2	354.3	513.0	573.9
105°	3.7	131.0	335.8	487.1	542.5
107.5°	3.7	125.5	315.5	461.3	513.0
110°	3.7	119.9	293.4	435.5	487.1



TEST NUMBER: P565961

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	116.2	276.8	413.3	463.1
115°	3.7	112.6	260.2	387.5	437.3
117.5°	3.7	110.7	250.9	367.2	415.2
120°	5.5	105.2	239.9	348.7	394.9
122.5°	5.5	99.6	228.8	334.0	374.6
125°	5.5	96.0	219.6	317.4	358.0
127.5°	5.5	90.4	210.4	302.6	339.5
130°	5.5	84.9	203.0	287.9	322.9
132.5°	5.5	79.3	193.7	273.1	306.3
135°	5.5	73.8	182.7	258.3	289.7
137.5°	5.5	68.3	171.6	243.6	273.1
140°	5.5	62.7	156.8	228.8	256.5
142.5°	5.5	57.2	142.1	214.0	238.0
145°	7.4	53.5	127.3	197.4	221.4
147.5°	7.4	48.0	112.6	180.8	201.1
150°	7.4	44.3	101.5	164.2	182.7
152.5°	7.4	38.7	90.4	145.8	164.2
155°	7.4	35.1	77.5	125.5	145.8
157.5°	7.4	31.4	66.4	105.2	127.3
160°	7.4	29.5	57.2	86.7	108.9
162.5°	9.2	25.8	48.0	70.1	90.4
165°	9.2	22.1	40.6	55.4	73.8
167.5°	9.2	18.5	33.2	42.4	57.2
170°	9.2	14.8	25.8	29.5	44.3
172.5°	9.2	11.1	18.5	20.3	22.1
175°	9.2	9.2	11.1	11.1	5.5
177.5°	9.2	9.2	7.4	5.5	1.8
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)