

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: P565977

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565977
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-SLW-UNV-L850-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

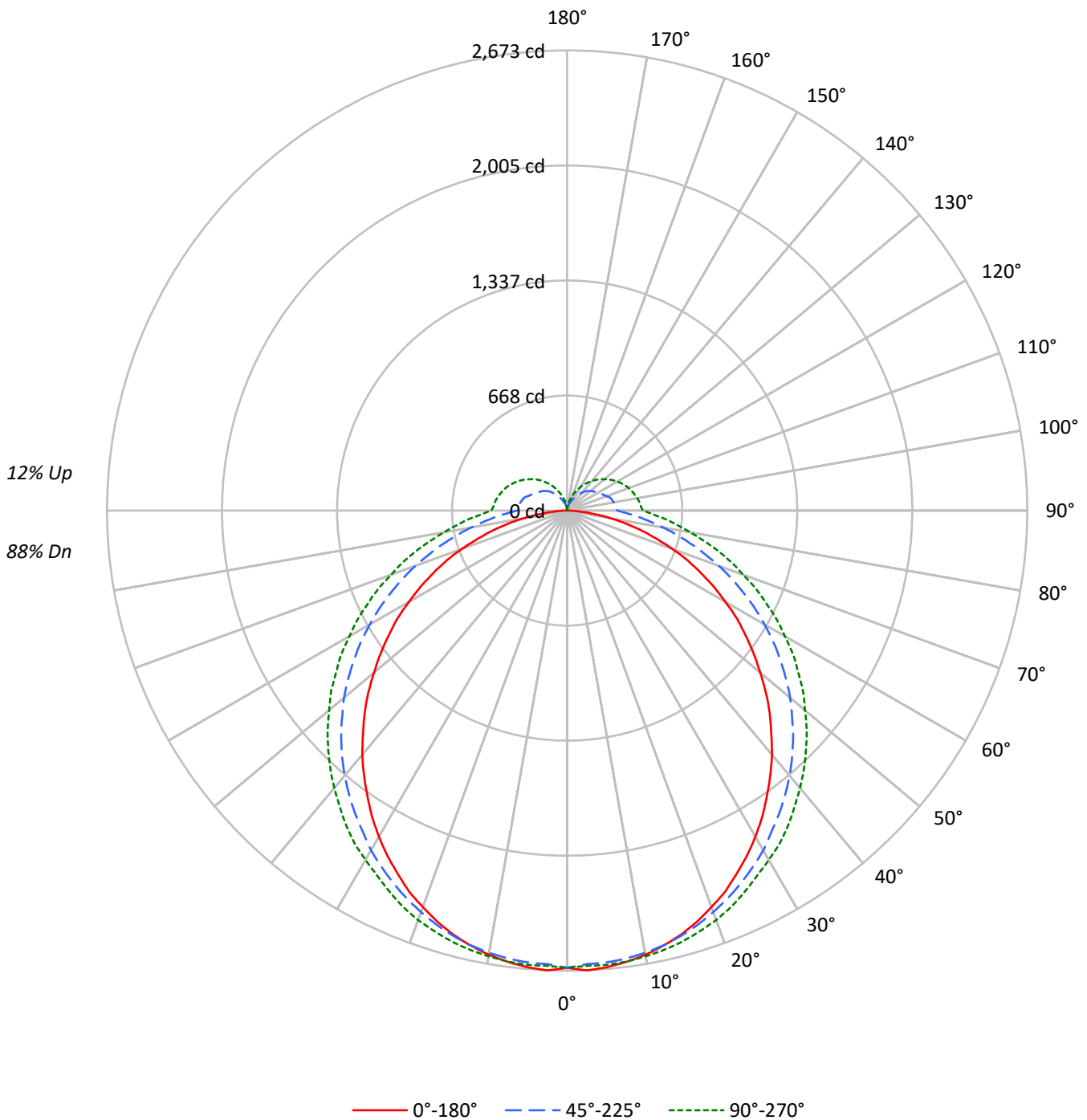
Lumens per Lamp: N/A
Luminaire Lumens: 9560.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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°	28583	28583	28583
5°	28710	27854	27813
10°	28526	27303	27148
15°	28266	26711	26521
20°	27863	26063	25866
25°	27384	25412	25121
30°	26863	24759	24434
35°	26209	24028	23843
40°	25572	23360	23119
45°	24805	22619	22433
50°	23918	21830	21646
55°	23065	20909	20862
60°	22080	19910	19960
65°	20878	18771	18997
70°	19350	17486	17891
75°	17188	16007	16877
80°	14165	14540	15593
85°	9803	13232	14759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	2.6
10°-20°	725.2	7.6
20°-30°	1103.2	11.5
30°-40°	1341.3	14.0
40°-50°	1419.1	14.8
50°-60°	1330.2	13.9
60°-70°	1094.3	11.4
70°-80°	757.2	7.9
80°-90°	421.0	4.4
90°-100°	277.4	2.9
100°-110°	248.7	2.6
110°-120°	205.9	2.2
120°-130°	159.2	1.7
130°-140°	112.7	1.2
140°-150°	68.0	0.7
150°-160°	32.6	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2080.4	21.8
0°-40°	3421.7	35.8
0°-60°	6171.1	64.6
0°-90°	8443.6	88.3
90°-120°	732.0	7.7
90°-150°	1071.8	11.2
90°-180°	1116.0	11.7
0°-180°	9560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2655	2655	2655	2655	2655	
5°	2662	2657	2634	2655	2649	253
15°	2551	2559	2557	2592	2592	719
25°	2328	2361	2388	2441	2443	1073
35°	2024	2078	2148	2217	2236	1266
45°	1663	1750	1856	1940	1963	1282
55°	1266	1378	1511	1606	1639	1133
65°	856	979	1131	1243	1277	849
75°	445	575	743	861	909	472
85°	98	244	413	527	573	113
90°	2	138	291	401	440	6
95°	2	131	283	388	426	1
105°	2	113	265	365	398	2
115°	3	98	224	324	360	3
125°	3	84	192	277	311	3
135°	3	66	160	228	255	3
145°	3	48	111	172	193	2
155°	5	33	69	110	128	2
165°	5	21	38	51	66	1
175°	5	8	12	12	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2655.4	2655.4	2655.4	2655.4	2655.4
2.5°	2673.4	2665.2	2637.4	2655.4	2647.2
5°	2661.9	2657.0	2634.1	2655.4	2648.8
7.5°	2643.9	2642.3	2624.3	2648.8	2642.3
10°	2619.4	2622.7	2607.9	2634.1	2629.2
12.5°	2588.3	2593.2	2586.6	2616.1	2612.8
15°	2550.6	2558.8	2557.2	2591.6	2591.6
17.5°	2504.8	2516.2	2522.8	2562.1	2562.1
20°	2450.8	2468.8	2481.9	2524.4	2531.0
22.5°	2396.7	2418.0	2437.7	2481.9	2491.7
25°	2328.0	2360.7	2388.5	2440.9	2442.6
27.5°	2260.9	2296.9	2334.5	2385.3	2390.2
30°	2187.2	2233.0	2278.9	2328.0	2342.7
32.5°	2108.6	2159.4	2210.1	2275.6	2295.2
35°	2023.5	2077.5	2147.9	2216.7	2236.3
37.5°	1938.3	1998.9	2080.8	2151.2	2169.2
40°	1851.6	1918.7	2010.4	2082.4	2103.7
42.5°	1755.0	1836.8	1935.1	2012.0	2036.6
45°	1663.3	1750.1	1856.5	1940.0	1962.9
47.5°	1566.7	1658.4	1773.0	1861.4	1887.6
50°	1463.6	1568.4	1691.1	1779.5	1804.1
52.5°	1367.0	1473.4	1602.7	1694.4	1728.8
55°	1265.5	1378.4	1511.1	1606.0	1638.8
57.5°	1170.5	1278.6	1421.0	1516.0	1556.9
60°	1062.5	1182.0	1324.4	1427.6	1460.3
62.5°	961.0	1082.1	1229.5	1335.9	1373.5
65°	856.2	979.0	1131.2	1242.6	1276.9
67.5°	758.0	879.1	1034.7	1144.3	1188.5
70°	649.9	777.6	936.4	1049.4	1087.0
72.5°	543.5	676.1	838.2	959.3	1001.9
75°	445.3	574.6	743.2	861.1	908.6
77.5°	350.3	481.3	651.6	772.7	813.6
80°	255.4	392.9	566.4	686.0	725.2
82.5°	168.6	312.7	484.6	604.1	646.7
85°	98.2	243.9	412.6	527.2	573.0
87.5°	42.6	185.0	345.4	458.4	496.0
90°	1.6	137.5	291.4	401.1	440.4
92.5°	1.6	134.2	284.9	392.9	430.6
95°	1.6	131.0	283.2	388.0	425.6
97.5°	1.6	129.3	279.9	384.7	420.7
100°	1.6	124.4	275.0	378.2	414.2
102.5°	1.6	117.9	270.1	371.6	406.0
105°	1.6	113.0	265.2	365.1	397.8
107.5°	1.6	108.0	257.0	356.9	389.6
110°	1.6	103.1	243.9	348.7	381.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	101.5	234.1	337.2	371.6
115°	3.3	98.2	224.3	324.1	360.2
117.5°	3.3	96.6	216.1	311.1	348.7
120°	3.3	91.7	207.9	299.6	335.6
122.5°	3.3	86.8	199.7	288.1	324.1
125°	3.3	83.5	191.5	276.7	311.1
127.5°	3.3	78.6	185.0	265.2	296.3
130°	3.3	75.3	176.8	252.1	283.2
132.5°	3.3	70.4	168.6	239.0	268.5
135°	3.3	65.5	160.4	227.6	255.4
137.5°	3.3	58.9	150.6	214.5	240.7
140°	3.3	54.0	137.5	201.4	225.9
142.5°	3.3	50.8	124.4	186.6	209.6
145°	3.3	47.5	111.3	171.9	193.2
147.5°	3.3	44.2	99.9	157.2	176.8
150°	3.3	39.3	88.4	144.1	160.4
152.5°	4.9	36.0	78.6	127.7	144.1
155°	4.9	32.7	68.8	109.7	127.7
157.5°	4.9	29.5	58.9	91.7	111.3
160°	4.9	26.2	50.8	75.3	95.0
162.5°	4.9	24.6	44.2	62.2	80.2
165°	4.9	21.3	37.7	50.8	65.5
167.5°	4.9	16.4	31.1	39.3	54.0
170°	4.9	13.1	24.6	27.8	40.9
172.5°	4.9	9.8	18.0	19.6	21.3
175°	4.9	8.2	11.5	11.5	6.5
177.5°	4.9	6.5	6.5	6.5	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)