

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: P566065

Luminaire Tested: **4SNX-116HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566065
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-116HL-LW-UNV-L850-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

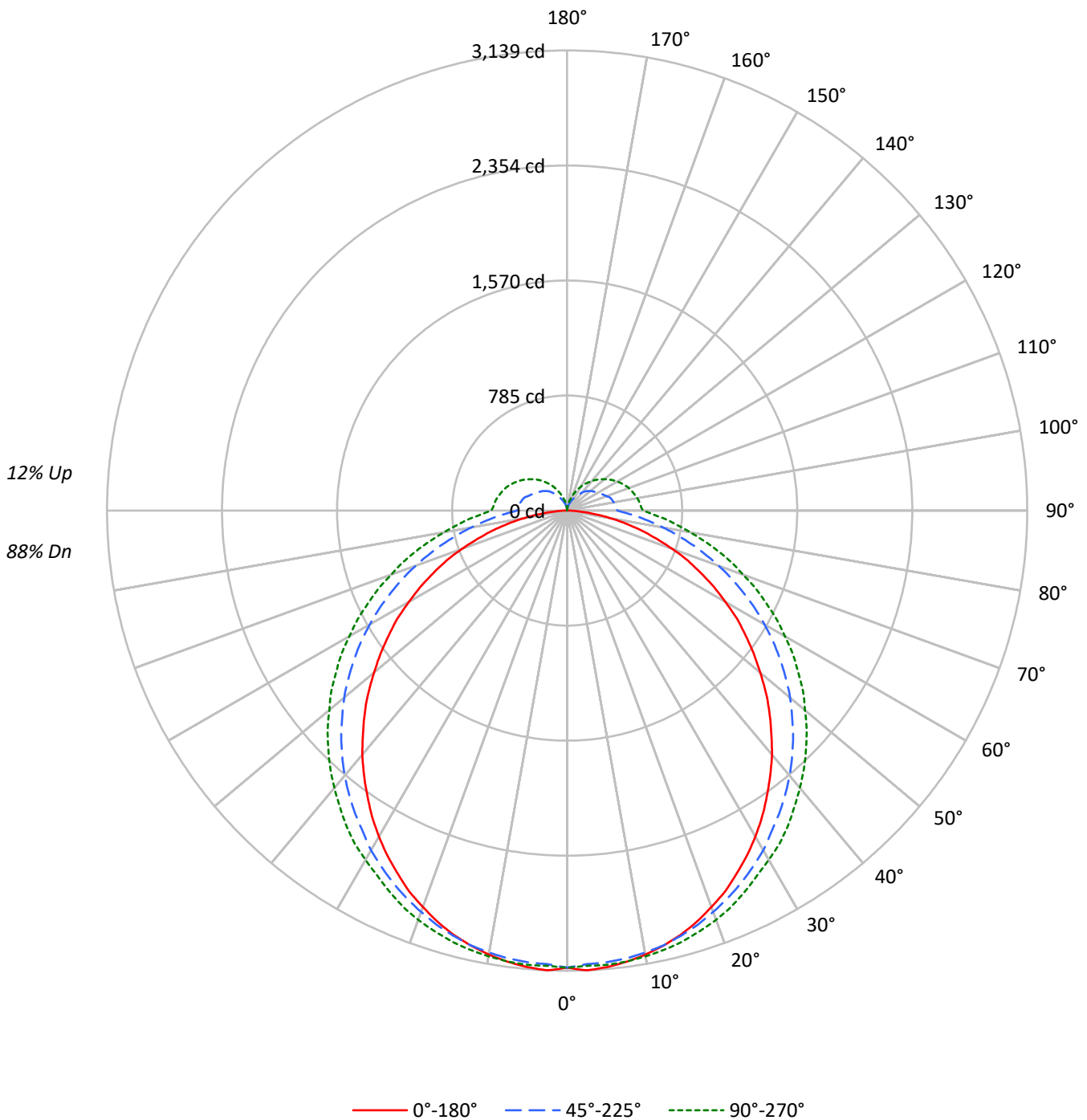
Lumens per Lamp: N/A
Luminaire Lumens: 11225.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 85.4
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°	33561	33561	33561
5°	33650	32016	31754
10°	33371	30753	30193
15°	33004	29500	28770
20°	32470	28233	27394
25°	31845	27002	25984
30°	31169	25798	24687
35°	30335	24535	23523
40°	29517	23353	22257
45°	28540	22108	21051
50°	27416	20822	19767
55°	26319	19410	18498
60°	25048	17926	17131
65°	23504	16311	15717
70°	21549	14563	14186
75°	18816	12649	12720
80°	15037	10735	11041
85°	9646	8896	9639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	2.6
10°-20°	851.4	7.6
20°-30°	1295.3	11.5
30°-40°	1574.9	14.0
40°-50°	1666.3	14.8
50°-60°	1561.9	13.9
60°-70°	1284.9	11.4
70°-80°	889.1	7.9
80°-90°	494.4	4.4
90°-100°	325.7	2.9
100°-110°	292.0	2.6
110°-120°	241.7	2.2
120°-130°	186.9	1.7
130°-140°	132.3	1.2
140°-150°	79.8	0.7
150°-160°	38.3	0.3
160°-170°	12.5	0.1
170°-180°	1.5	0.0
0°-30°	2442.7	21.8
0°-40°	4017.7	35.8
0°-60°	7245.8	64.6
0°-90°	9914.2	88.3
90°-120°	859.4	7.7
90°-150°	1258.4	11.2
90°-180°	1311.0	11.7
0°-180°	11225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3118	3118	3118	3118	3118	
5°	3126	3120	3093	3118	3110	297
15°	2995	3004	3002	3043	3043	844
25°	2733	2772	2804	2866	2868	1260
35°	2376	2439	2522	2603	2626	1487
45°	1953	2055	2180	2278	2305	1505
55°	1486	1618	1774	1886	1924	1330
65°	1005	1150	1328	1459	1499	997
75°	523	675	873	1011	1067	555
85°	115	286	484	619	673	133
90°	2	162	342	471	517	8
95°	2	154	332	456	500	2
105°	2	133	311	429	467	2
115°	4	115	263	381	423	3
125°	4	98	225	325	365	3
135°	4	77	188	267	300	3
145°	4	56	131	202	227	2
155°	6	38	81	129	150	3
165°	6	25	44	60	77	2
175°	6	10	14	14	8	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3117.9	3117.9	3117.9	3117.9	3117.9
2.5°	3139.0	3129.4	3096.7	3117.9	3108.3
5°	3125.6	3119.8	3092.9	3117.9	3110.2
7.5°	3104.4	3102.5	3081.3	3110.2	3102.5
10°	3075.6	3079.4	3062.1	3092.9	3087.1
12.5°	3039.1	3044.8	3037.1	3071.7	3067.9
15°	2994.8	3004.5	3002.5	3042.9	3042.9
17.5°	2941.0	2954.5	2962.2	3008.3	3008.3
20°	2877.6	2898.7	2914.1	2964.1	2971.8
22.5°	2814.2	2839.1	2862.2	2914.1	2925.6
25°	2733.4	2771.9	2804.5	2866.1	2868.0
27.5°	2654.6	2696.9	2741.1	2800.7	2806.5
30°	2568.1	2621.9	2675.8	2733.4	2750.7
32.5°	2475.8	2535.4	2595.0	2671.9	2695.0
35°	2375.9	2439.3	2522.0	2602.7	2625.8
37.5°	2275.9	2347.1	2443.2	2525.8	2547.0
40°	2174.1	2252.9	2360.5	2445.1	2470.1
42.5°	2060.6	2156.8	2272.1	2362.4	2391.3
45°	1953.0	2054.9	2179.8	2277.9	2304.8
47.5°	1839.6	1947.2	2081.8	2185.6	2216.3
50°	1718.5	1841.5	1985.7	2089.5	2118.3
52.5°	1605.1	1730.0	1881.9	1989.5	2029.9
55°	1485.9	1618.5	1774.2	1885.7	1924.2
57.5°	1374.4	1501.3	1668.5	1780.0	1828.0
60°	1247.5	1387.9	1555.1	1676.2	1714.6
62.5°	1128.4	1270.6	1443.6	1568.5	1612.8
65°	1005.3	1149.5	1328.3	1459.0	1499.3
67.5°	890.0	1032.2	1214.9	1343.6	1395.5
70°	763.1	913.1	1099.5	1232.2	1276.4
72.5°	638.2	793.9	984.2	1126.4	1176.4
75°	522.8	674.7	872.7	1011.1	1066.8
77.5°	411.4	565.1	765.1	907.3	955.4
80°	299.9	461.3	665.1	805.4	851.6
82.5°	198.0	367.1	569.0	709.3	759.3
85°	115.3	286.4	484.4	619.0	672.8
87.5°	50.0	217.2	405.6	538.2	582.4
90°	1.9	161.5	342.2	470.9	517.1
92.5°	1.9	157.6	334.5	461.3	505.5
95°	1.9	153.8	332.5	455.6	499.8
97.5°	1.9	151.9	328.7	451.7	494.0
100°	1.9	146.1	322.9	444.0	486.3
102.5°	1.9	138.4	317.2	436.3	476.7
105°	1.9	132.6	311.4	428.7	467.1
107.5°	1.9	126.9	301.8	419.0	457.5
110°	1.9	121.1	286.4	409.4	447.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	119.2	274.9	396.0	436.3
115°	3.8	115.3	263.3	380.6	422.9
117.5°	3.8	113.4	253.7	365.2	409.4
120°	3.8	107.6	244.1	351.8	394.1
122.5°	3.8	101.9	234.5	338.3	380.6
125°	3.8	98.0	224.9	324.9	365.2
127.5°	3.8	92.3	217.2	311.4	347.9
130°	3.8	88.4	207.6	296.0	332.5
132.5°	3.8	82.7	198.0	280.6	315.2
135°	3.8	76.9	188.4	267.2	299.9
137.5°	3.8	69.2	176.8	251.8	282.6
140°	3.8	63.4	161.5	236.4	265.3
142.5°	3.8	59.6	146.1	219.1	246.0
145°	3.8	55.7	130.7	201.8	226.8
147.5°	3.8	51.9	117.3	184.5	207.6
150°	3.8	46.1	103.8	169.2	188.4
152.5°	5.8	42.3	92.3	149.9	169.2
155°	5.8	38.4	80.7	128.8	149.9
157.5°	5.8	34.6	69.2	107.6	130.7
160°	5.8	30.8	59.6	88.4	111.5
162.5°	5.8	28.8	51.9	73.0	94.2
165°	5.8	25.0	44.2	59.6	76.9
167.5°	5.8	19.2	36.5	46.1	63.4
170°	5.8	15.4	28.8	32.7	48.1
172.5°	5.8	11.5	21.1	23.1	25.0
175°	5.8	9.6	13.5	13.5	7.7
177.5°	5.8	7.7	7.7	7.7	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)