

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: P566077

Luminaire Tested: **4SNX-116HL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566077
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-SLW-UNV-L950-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

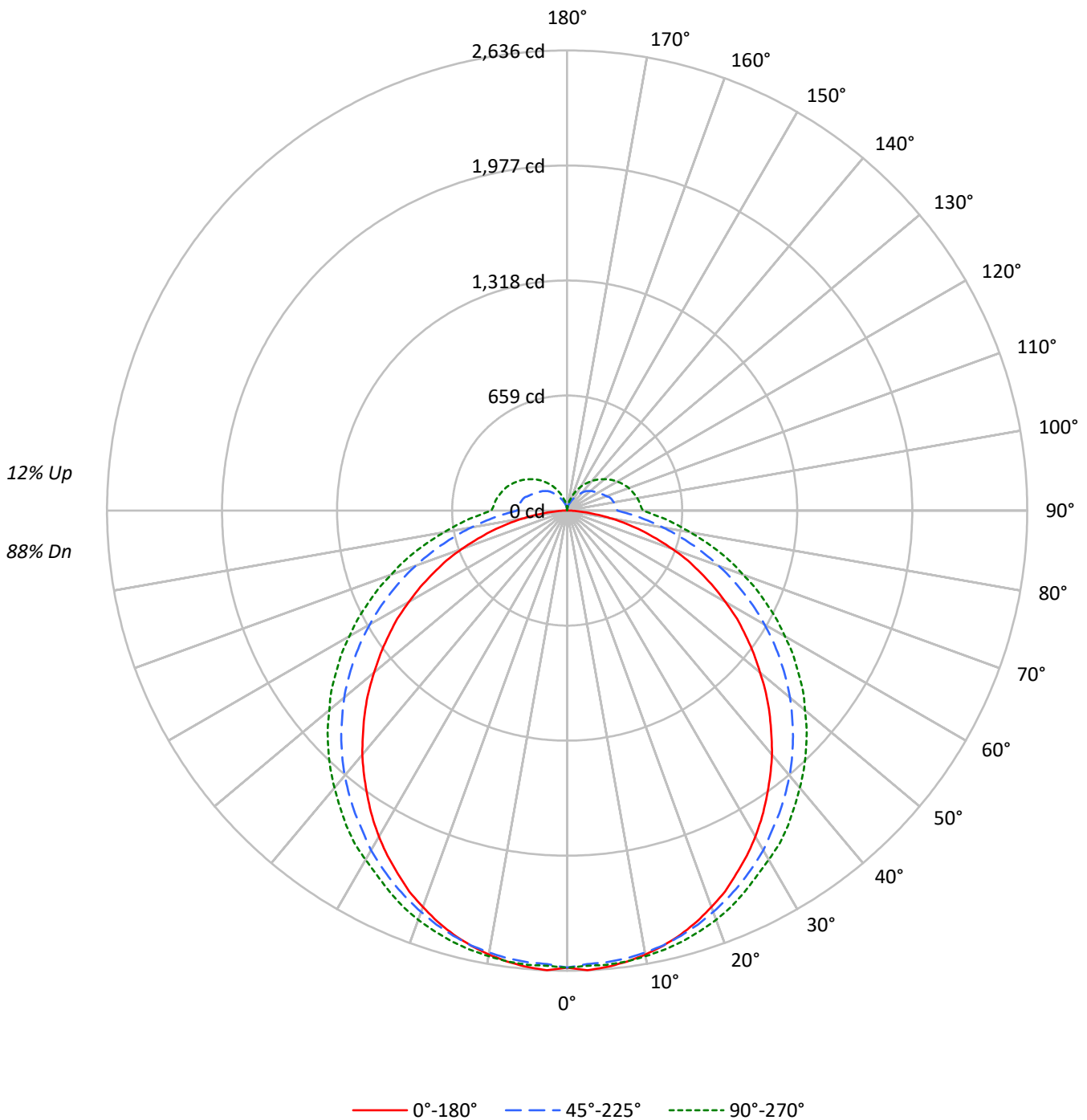
Lumens per Lamp: N/A
Luminaire Lumens: 9425.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 85.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	28179	28179	28179
5°	28305	27460	27420
10°	28123	26918	26765
15°	27867	26334	26146
20°	27469	25695	25500
25°	26997	25053	24766
30°	26484	24409	24089
35°	25838	23689	23506
40°	25210	23030	22793
45°	24454	22299	22116
50°	23579	21522	21340
55°	22739	20613	20567
60°	21768	19629	19678
65°	20583	18507	18729
70°	19079	17240	17639
75°	16945	15783	16639
80°	13965	14335	15374
85°	9663	13043	14550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	2.6
10°-20°	714.9	7.6
20°-30°	1087.6	11.5
30°-40°	1322.4	14.0
40°-50°	1399.1	14.8
50°-60°	1311.4	13.9
60°-70°	1078.9	11.4
70°-80°	746.5	7.9
80°-90°	415.1	4.4
90°-100°	273.5	2.9
100°-110°	245.2	2.6
110°-120°	203.0	2.2
120°-130°	156.9	1.7
130°-140°	111.1	1.2
140°-150°	67.0	0.7
150°-160°	32.2	0.3
160°-170°	10.5	0.1
170°-180°	1.3	0.0
0°-30°	2051.0	21.8
0°-40°	3373.4	35.8
0°-60°	6083.9	64.6
0°-90°	8324.4	88.3
90°-120°	721.7	7.7
90°-150°	1056.7	11.2
90°-180°	1101.0	11.7
0°-180°	9425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2618	2618	2618	2618	2618	
5°	2624	2620	2597	2618	2611	249
15°	2515	2523	2521	2555	2555	709
25°	2295	2327	2355	2406	2408	1058
35°	1995	2048	2118	2185	2205	1248
45°	1640	1725	1830	1913	1935	1264
55°	1248	1359	1490	1583	1616	1117
65°	844	965	1115	1225	1259	837
75°	439	566	733	849	896	466
85°	97	240	407	520	565	111
90°	2	136	287	395	434	6
95°	2	129	279	382	420	1
105°	2	111	262	360	392	2
115°	3	97	221	320	355	3
125°	3	82	189	273	307	3
135°	3	65	158	224	252	2
145°	3	47	110	170	190	2
155°	5	32	68	108	126	2
165°	5	21	37	50	65	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°	2617.9	2617.9	2617.9	2617.9	2617.9
2.5°	2635.7	2627.6	2600.1	2617.9	2609.8
5°	2624.4	2619.5	2596.9	2617.9	2611.4
7.5°	2606.6	2605.0	2587.2	2611.4	2605.0
10°	2582.4	2585.6	2571.1	2596.9	2592.1
12.5°	2551.7	2556.6	2550.1	2579.2	2575.9
15°	2514.6	2522.7	2521.1	2555.0	2555.0
17.5°	2469.4	2480.7	2487.2	2525.9	2525.9
20°	2416.2	2433.9	2446.8	2488.8	2495.2
22.5°	2362.9	2383.9	2403.2	2446.8	2456.5
25°	2295.1	2327.4	2354.8	2406.5	2408.1
27.5°	2228.9	2264.4	2301.6	2351.6	2356.4
30°	2156.3	2201.5	2246.7	2295.1	2309.6
32.5°	2078.8	2128.9	2178.9	2243.5	2262.8
35°	1994.9	2048.2	2117.6	2185.3	2204.7
37.5°	1911.0	1970.7	2051.4	2120.8	2138.5
40°	1825.4	1891.6	1982.0	2053.0	2074.0
42.5°	1730.2	1810.9	1907.7	1983.6	2007.8
45°	1639.8	1725.4	1830.3	1912.6	1935.2
47.5°	1544.6	1635.0	1748.0	1835.1	1860.9
50°	1442.9	1546.2	1667.3	1754.4	1778.6
52.5°	1347.7	1452.6	1580.1	1670.5	1704.4
55°	1247.6	1359.0	1489.7	1583.3	1615.6
57.5°	1154.0	1260.5	1400.9	1494.6	1534.9
60°	1047.5	1165.3	1305.7	1407.4	1439.7
62.5°	947.4	1066.9	1212.1	1317.0	1354.1
65°	844.1	965.2	1115.3	1225.0	1258.9
67.5°	747.3	866.7	1020.0	1128.2	1171.8
70°	640.8	766.6	923.2	1034.6	1071.7
72.5°	535.8	666.6	826.4	945.8	987.8
75°	439.0	566.5	732.8	849.0	895.8
77.5°	345.4	474.5	642.4	761.8	802.2
80°	251.8	387.4	558.4	676.3	715.0
82.5°	166.2	308.3	477.7	595.6	637.5
85°	96.8	240.5	406.7	519.7	564.9
87.5°	42.0	182.4	340.6	451.9	489.0
90°	1.6	135.6	287.3	395.4	434.2
92.5°	1.6	132.3	280.8	387.4	424.5
95°	1.6	129.1	279.2	382.5	419.6
97.5°	1.6	127.5	276.0	379.3	414.8
100°	1.6	122.7	271.2	372.8	408.3
102.5°	1.6	116.2	266.3	366.4	400.3
105°	1.6	111.4	261.5	359.9	392.2
107.5°	1.6	106.5	253.4	351.9	384.1
110°	1.6	101.7	240.5	343.8	376.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	100.1	230.8	332.5	366.4
115°	3.2	96.8	221.1	319.6	355.1
117.5°	3.2	95.2	213.0	306.7	343.8
120°	3.2	90.4	205.0	295.4	330.9
122.5°	3.2	85.5	196.9	284.1	319.6
125°	3.2	82.3	188.8	272.8	306.7
127.5°	3.2	77.5	182.4	261.5	292.1
130°	3.2	74.2	174.3	248.6	279.2
132.5°	3.2	69.4	166.2	235.6	264.7
135°	3.2	64.6	158.2	224.3	251.8
137.5°	3.2	58.1	148.5	211.4	237.3
140°	3.2	53.3	135.6	198.5	222.7
142.5°	3.2	50.0	122.7	184.0	206.6
145°	3.2	46.8	109.8	169.5	190.5
147.5°	3.2	43.6	98.5	154.9	174.3
150°	3.2	38.7	87.2	142.0	158.2
152.5°	4.8	35.5	77.5	125.9	142.0
155°	4.8	32.3	67.8	108.1	125.9
157.5°	4.8	29.1	58.1	90.4	109.8
160°	4.8	25.8	50.0	74.2	93.6
162.5°	4.8	24.2	43.6	61.3	79.1
165°	4.8	21.0	37.1	50.0	64.6
167.5°	4.8	16.1	30.7	38.7	53.3
170°	4.8	12.9	24.2	27.4	40.3
172.5°	4.8	9.7	17.8	19.4	21.0
175°	4.8	8.1	11.3	11.3	6.5
177.5°	4.8	6.5	6.5	6.5	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)