

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: P566068

Luminaire Tested: **4SNX-116HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566068
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-L940-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

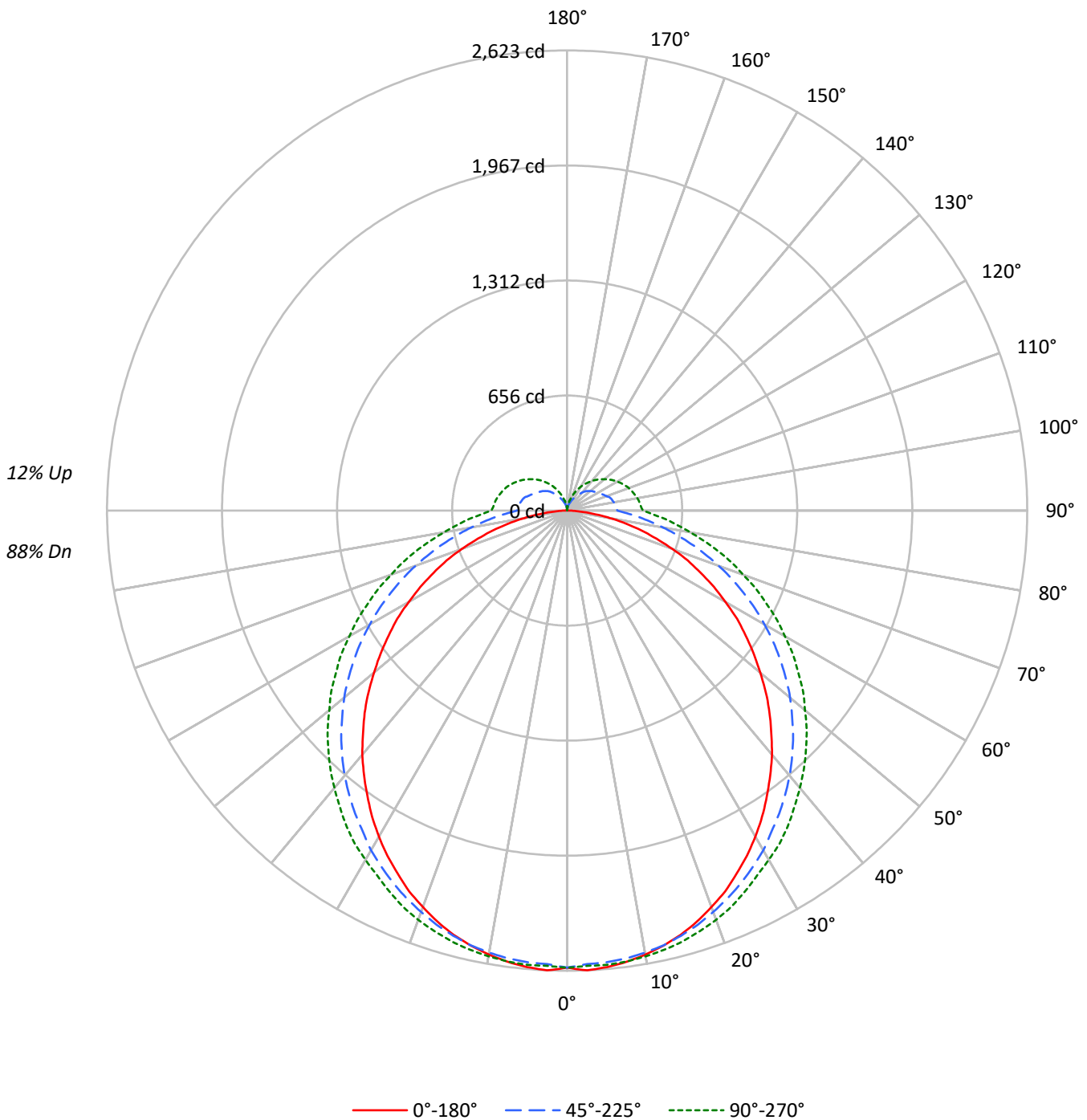
Lumens per Lamp: N/A
Luminaire Lumens: 9380.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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°	28044	28044	28044
5°	28118	26753	26535
10°	27886	25698	25230
15°	27580	24651	24041
20°	27133	23592	22891
25°	26610	22564	21713
30°	26046	21557	20629
35°	25349	20503	19657
40°	24665	19515	18599
45°	23849	18474	17590
50°	22909	17400	16518
55°	21993	16220	15457
60°	20932	14980	14315
65°	19642	13629	13134
70°	18008	12169	11854
75°	15725	10571	10629
80°	12565	8971	9226
85°	8065	7434	8055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	2.6
10°-20°	711.5	7.6
20°-30°	1082.4	11.5
30°-40°	1316.1	14.0
40°-50°	1392.4	14.8
50°-60°	1305.2	13.9
60°-70°	1073.7	11.4
70°-80°	742.9	7.9
80°-90°	413.1	4.4
90°-100°	272.2	2.9
100°-110°	244.0	2.6
110°-120°	202.0	2.2
120°-130°	156.2	1.7
130°-140°	110.5	1.2
140°-150°	66.7	0.7
150°-160°	32.0	0.3
160°-170°	10.5	0.1
170°-180°	1.3	0.0
0°-30°	2041.2	21.8
0°-40°	3357.3	35.8
0°-60°	6054.9	64.6
0°-90°	8284.6	88.3
90°-120°	718.2	7.7
90°-150°	1051.6	11.2
90°-180°	1095.0	11.7
0°-180°	9380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2605	2605	2605	2605	2605	
5°	2612	2607	2584	2605	2599	248
15°	2503	2511	2509	2543	2543	705
25°	2284	2316	2344	2395	2397	1053
35°	1985	2038	2108	2175	2194	1243
45°	1632	1717	1822	1904	1926	1258
55°	1242	1352	1483	1576	1608	1112
65°	840	961	1110	1219	1253	833
75°	437	564	729	845	892	463
85°	96	239	405	517	562	111
90°	2	135	286	394	432	6
95°	2	128	278	381	418	1
105°	2	111	260	358	390	2
115°	3	96	220	318	353	3
125°	3	82	188	272	305	3
135°	3	64	157	223	251	2
145°	3	47	109	169	190	2
155°	5	32	68	108	125	2
165°	5	21	37	50	64	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-116HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2605.4	2605.4	2605.4	2605.4	2605.4
2.5°	2623.1	2615.0	2587.7	2605.4	2597.4
5°	2611.8	2607.0	2584.5	2605.4	2599.0
7.5°	2594.2	2592.6	2574.9	2599.0	2592.6
10°	2570.1	2573.3	2558.8	2584.5	2579.7
12.5°	2539.5	2544.4	2537.9	2566.9	2563.6
15°	2502.6	2510.6	2509.0	2542.8	2542.8
17.5°	2457.6	2468.9	2475.3	2513.8	2513.8
20°	2404.6	2422.3	2435.1	2476.9	2483.3
22.5°	2351.6	2372.5	2391.8	2435.1	2444.8
25°	2284.1	2316.3	2343.6	2395.0	2396.6
27.5°	2218.3	2253.6	2290.6	2340.4	2345.2
30°	2146.0	2191.0	2236.0	2284.1	2298.6
32.5°	2068.9	2118.7	2168.5	2232.7	2252.0
35°	1985.4	2038.4	2107.5	2174.9	2194.2
37.5°	1901.8	1961.3	2041.6	2110.7	2128.3
40°	1816.7	1882.6	1972.5	2043.2	2064.1
42.5°	1721.9	1802.3	1898.6	1974.1	1998.2
45°	1632.0	1717.1	1821.5	1903.5	1925.9
47.5°	1537.2	1627.2	1739.6	1826.4	1852.1
50°	1436.0	1538.8	1659.3	1746.0	1770.1
52.5°	1341.3	1445.7	1572.6	1662.5	1696.2
55°	1241.7	1352.5	1482.6	1575.8	1607.9
57.5°	1148.5	1254.5	1394.3	1487.4	1527.6
60°	1042.5	1159.7	1299.5	1400.7	1432.8
62.5°	942.9	1061.8	1206.3	1310.7	1347.7
65°	840.1	960.6	1109.9	1219.2	1252.9
67.5°	743.7	862.6	1015.2	1122.8	1166.2
70°	637.7	763.0	918.8	1029.6	1066.6
72.5°	533.3	663.4	822.4	941.3	983.0
75°	436.9	563.8	729.3	844.9	891.5
77.5°	343.7	472.2	639.3	758.2	798.3
80°	250.6	385.5	555.8	673.0	711.6
82.5°	165.4	306.8	475.5	592.7	634.5
85°	96.4	239.3	404.8	517.2	562.2
87.5°	41.8	181.5	338.9	449.8	486.7
90°	1.6	134.9	285.9	393.5	432.1
92.5°	1.6	131.7	279.5	385.5	422.5
95°	1.6	128.5	277.9	380.7	417.6
97.5°	1.6	126.9	274.7	377.5	412.8
100°	1.6	122.1	269.9	371.1	406.4
102.5°	1.6	115.7	265.0	364.6	398.4
105°	1.6	110.8	260.2	358.2	390.3
107.5°	1.6	106.0	252.2	350.2	382.3
110°	1.6	101.2	239.3	342.1	374.3



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CATALOG NUMBER: 4SNX-116HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	99.6	229.7	330.9	364.6
115°	3.2	96.4	220.1	318.0	353.4
117.5°	3.2	94.8	212.0	305.2	342.1
120°	3.2	90.0	204.0	294.0	329.3
122.5°	3.2	85.1	196.0	282.7	318.0
125°	3.2	81.9	187.9	271.5	305.2
127.5°	3.2	77.1	181.5	260.2	290.7
130°	3.2	73.9	173.5	247.4	277.9
132.5°	3.2	69.1	165.4	234.5	263.4
135°	3.2	64.3	157.4	223.3	250.6
137.5°	3.2	57.8	147.8	210.4	236.1
140°	3.2	53.0	134.9	197.6	221.7
142.5°	3.2	49.8	122.1	183.1	205.6
145°	3.2	46.6	109.2	168.7	189.5
147.5°	3.2	43.4	98.0	154.2	173.5
150°	3.2	38.6	86.7	141.4	157.4
152.5°	4.8	35.3	77.1	125.3	141.4
155°	4.8	32.1	67.5	107.6	125.3
157.5°	4.8	28.9	57.8	90.0	109.2
160°	4.8	25.7	49.8	73.9	93.2
162.5°	4.8	24.1	43.4	61.0	78.7
165°	4.8	20.9	36.9	49.8	64.3
167.5°	4.8	16.1	30.5	38.6	53.0
170°	4.8	12.9	24.1	27.3	40.2
172.5°	4.8	9.6	17.7	19.3	20.9
175°	4.8	8.0	11.2	11.2	6.4
177.5°	4.8	6.4	6.4	6.4	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)