

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: P566062

Luminaire Tested: **4SNX-116HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566062
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-L830-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

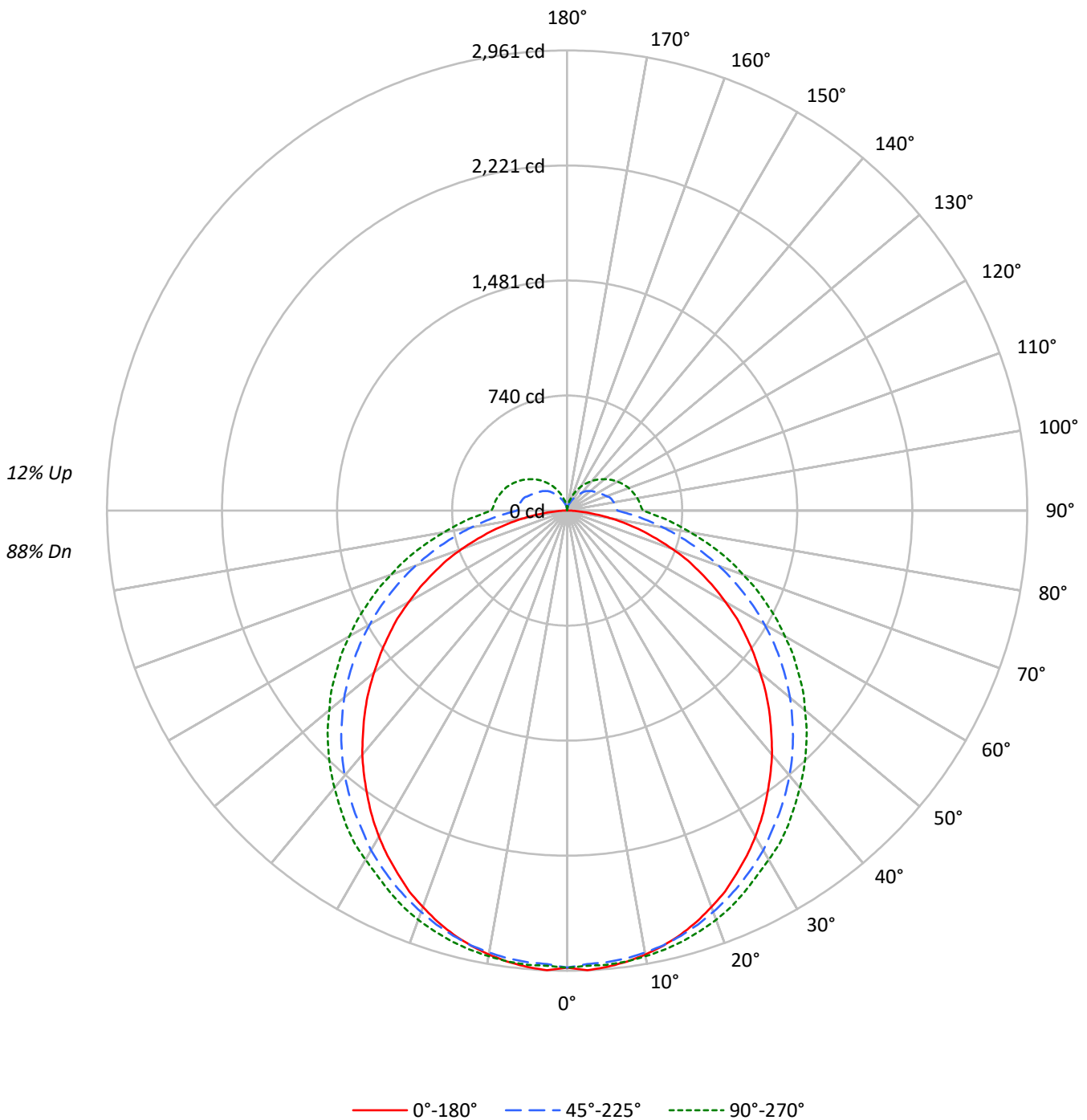
Lumens per Lamp: N/A
Luminaire Lumens: 10587.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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°	31653	31653	31653
5°	31736	30196	29949
10°	31474	29005	28477
15°	31129	27823	27135
20°	30624	26629	25837
25°	30036	25467	24508
30°	29397	24331	23284
35°	28610	23140	22185
40°	27839	22025	20992
45°	26918	20852	19854
50°	25857	19639	18644
55°	24822	18308	17446
60°	23625	16907	16157
65°	22169	15384	14823
70°	20326	13735	13379
75°	17747	11930	11997
80°	14179	10125	10414
85°	9102	8391	9091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	2.6
10°-20°	803.1	7.6
20°-30°	1221.7	11.5
30°-40°	1485.4	14.0
40°-50°	1571.6	14.8
50°-60°	1473.1	13.9
60°-70°	1211.9	11.4
70°-80°	838.5	7.9
80°-90°	466.3	4.4
90°-100°	307.2	2.9
100°-110°	275.4	2.6
110°-120°	228.0	2.2
120°-130°	176.3	1.7
130°-140°	124.8	1.2
140°-150°	75.3	0.7
150°-160°	36.1	0.3
160°-170°	11.8	0.1
170°-180°	1.4	0.0
0°-30°	2303.9	21.8
0°-40°	3789.3	35.8
0°-60°	6834.0	64.6
0°-90°	9350.6	88.3
90°-120°	810.6	7.7
90°-150°	1186.9	11.2
90°-180°	1236.0	11.7
0°-180°	10587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2948	2942	2917	2941	2933	280
15°	2825	2834	2832	2870	2870	796
25°	2578	2614	2645	2703	2705	1188
35°	2241	2301	2379	2455	2476	1402
45°	1842	1938	2056	2148	2174	1420
55°	1401	1526	1673	1778	1815	1255
65°	948	1084	1253	1376	1414	940
75°	493	636	823	954	1006	523
85°	109	270	457	584	634	125
90°	2	152	323	444	488	7
95°	2	145	314	430	471	1
105°	2	125	294	404	441	2
115°	4	109	248	359	399	3
125°	4	92	212	306	344	3
135°	4	72	178	252	283	3
145°	4	53	123	190	214	2
155°	5	36	76	122	141	2
165°	5	24	42	56	72	2
175°	5	9	13	13	7	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2940.7	2940.7	2940.7	2940.7	2940.7
2.5°	2960.6	2951.5	2920.7	2940.7	2931.6
5°	2947.9	2942.5	2917.1	2940.7	2933.4
7.5°	2928.0	2926.2	2906.2	2933.4	2926.2
10°	2900.8	2904.4	2888.1	2917.1	2911.7
12.5°	2866.3	2871.8	2864.5	2897.1	2893.5
15°	2824.6	2833.7	2831.9	2870.0	2870.0
17.5°	2773.9	2786.6	2793.8	2837.3	2837.3
20°	2714.0	2734.0	2748.5	2795.6	2802.9
22.5°	2654.2	2677.8	2699.5	2748.5	2759.4
25°	2578.1	2614.3	2645.1	2703.2	2705.0
27.5°	2503.7	2543.6	2585.3	2641.5	2647.0
30°	2422.1	2472.9	2523.7	2578.1	2594.4
32.5°	2335.1	2391.3	2447.5	2520.0	2541.8
35°	2240.8	2300.7	2378.6	2454.8	2476.5
37.5°	2146.6	2213.7	2304.3	2382.3	2402.2
40°	2050.5	2124.8	2226.3	2306.1	2329.7
42.5°	1943.5	2034.2	2142.9	2228.2	2255.4
45°	1842.0	1938.1	2055.9	2148.4	2173.8
47.5°	1735.0	1836.6	1963.5	2061.4	2090.4
50°	1620.8	1736.8	1872.8	1970.7	1997.9
52.5°	1513.8	1631.7	1774.9	1876.4	1914.5
55°	1401.4	1526.5	1673.4	1778.5	1814.8
57.5°	1296.3	1415.9	1573.7	1678.8	1724.1
60°	1176.6	1309.0	1466.7	1580.9	1617.2
62.5°	1064.2	1198.4	1361.6	1479.4	1521.1
65°	948.2	1084.2	1252.8	1376.1	1414.1
67.5°	839.4	973.6	1145.8	1267.3	1316.2
70°	719.8	861.2	1037.0	1162.1	1203.8
72.5°	601.9	748.8	928.2	1062.4	1109.5
75°	493.1	636.4	823.1	953.6	1006.2
77.5°	388.0	533.0	721.6	855.7	901.1
80°	282.8	435.1	627.3	759.6	803.2
82.5°	186.7	346.3	536.6	669.0	716.1
85°	108.8	270.1	456.9	583.8	634.5
87.5°	47.1	204.9	382.5	507.6	549.3
90°	1.8	152.3	322.7	444.2	487.7
92.5°	1.8	148.7	315.5	435.1	476.8
95°	1.8	145.0	313.6	429.7	471.4
97.5°	1.8	143.2	310.0	426.1	465.9
100°	1.8	137.8	304.6	418.8	458.7
102.5°	1.8	130.5	299.1	411.5	449.6
105°	1.8	125.1	293.7	404.3	440.6
107.5°	1.8	119.7	284.6	395.2	431.5
110°	1.8	114.2	270.1	386.2	422.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	112.4	259.3	373.5	411.5
115°	3.6	108.8	248.4	359.0	398.9
117.5°	3.6	107.0	239.3	344.5	386.2
120°	3.6	101.5	230.2	331.8	371.7
122.5°	3.6	96.1	221.2	319.1	359.0
125°	3.6	92.5	212.1	306.4	344.5
127.5°	3.6	87.0	204.9	293.7	328.2
130°	3.6	83.4	195.8	279.2	313.6
132.5°	3.6	78.0	186.7	264.7	297.3
135°	3.6	72.5	177.7	252.0	282.8
137.5°	3.6	65.3	166.8	237.5	266.5
140°	3.6	59.8	152.3	223.0	250.2
142.5°	3.6	56.2	137.8	206.7	232.1
145°	3.6	52.6	123.3	190.4	213.9
147.5°	3.6	49.0	110.6	174.0	195.8
150°	3.6	43.5	97.9	159.5	177.7
152.5°	5.4	39.9	87.0	141.4	159.5
155°	5.4	36.3	76.1	121.5	141.4
157.5°	5.4	32.6	65.3	101.5	123.3
160°	5.4	29.0	56.2	83.4	105.2
162.5°	5.4	27.2	49.0	68.9	88.8
165°	5.4	23.6	41.7	56.2	72.5
167.5°	5.4	18.1	34.4	43.5	59.8
170°	5.4	14.5	27.2	30.8	45.3
172.5°	5.4	10.9	19.9	21.8	23.6
175°	5.4	9.1	12.7	12.7	7.3
177.5°	5.4	7.3	7.3	7.3	3.6
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)