

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: P567022

Luminaire Tested: **4SNX-93HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567022
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-93HL-LW-UNV-L830-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

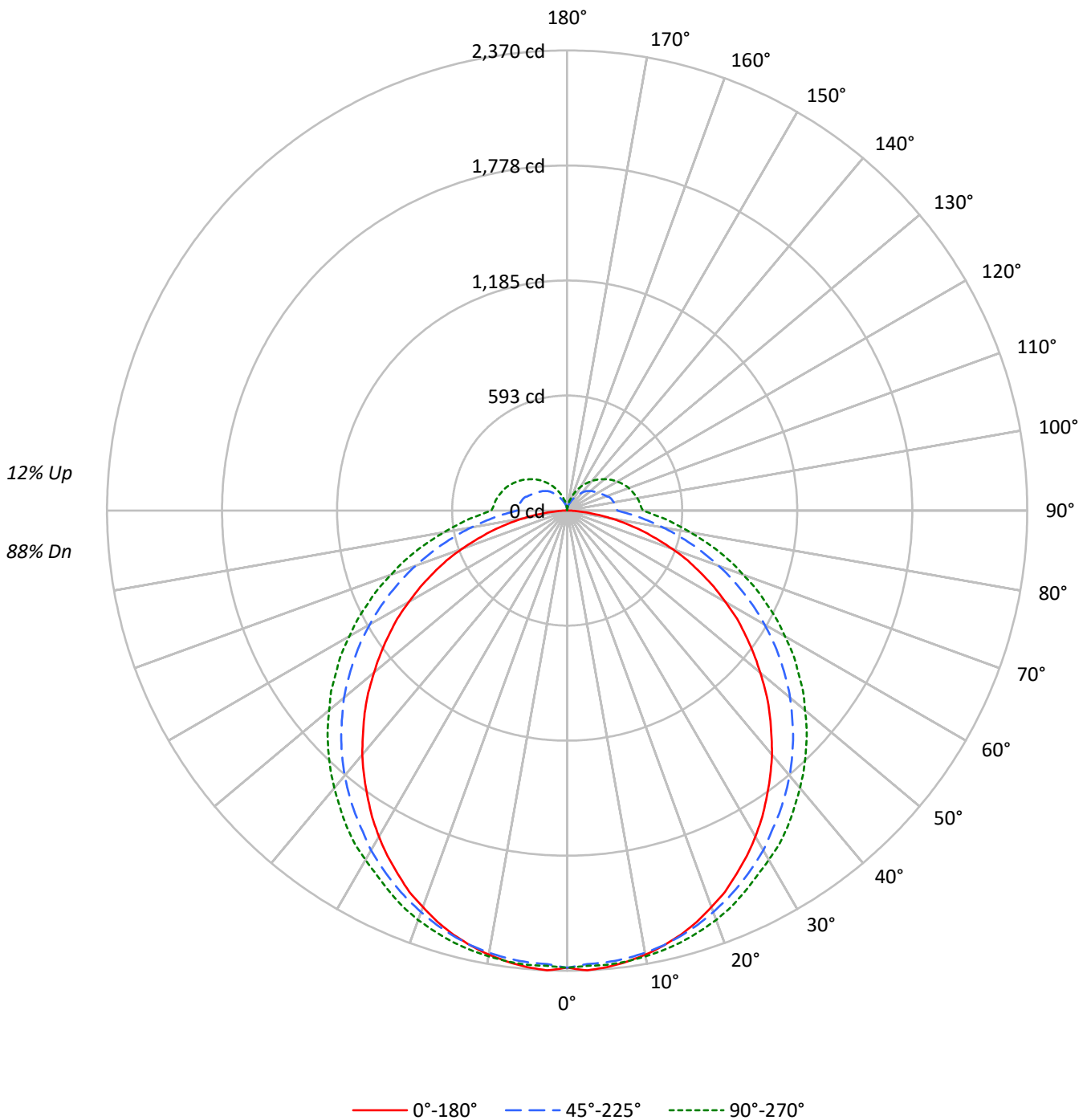
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8476.0 lumens
Efficiency: N/A
Efficacy: 125.8 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): 67.4
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°	25341	25341	25341
5°	25408	24175	23977
10°	25199	23221	22799
15°	24922	22275	21724
20°	24518	21319	20685
25°	24046	20389	19621
30°	23536	19480	18641
35°	22905	18526	17762
40°	22287	17634	16807
45°	21551	16694	15895
50°	20701	15723	14926
55°	19873	14657	13967
60°	18914	13535	12935
65°	17748	12316	11868
70°	16271	10996	10712
75°	14210	9552	9605
80°	11351	8105	8337
85°	7287	6718	7278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	2.6
10°-20°	642.9	7.6
20°-30°	978.1	11.5
30°-40°	1189.2	14.0
40°-50°	1258.2	14.8
50°-60°	1179.4	13.9
60°-70°	970.2	11.4
70°-80°	671.3	7.9
80°-90°	373.3	4.4
90°-100°	245.9	2.9
100°-110°	220.5	2.6
110°-120°	182.5	2.2
120°-130°	141.1	1.7
130°-140°	99.9	1.2
140°-150°	60.3	0.7
150°-160°	28.9	0.3
160°-170°	9.5	0.1
170°-180°	1.2	0.0
0°-30°	1844.5	21.8
0°-40°	3033.7	35.8
0°-60°	5471.3	64.6
0°-90°	7486.2	88.3
90°-120°	649.0	7.7
90°-150°	950.3	11.2
90°-180°	990.0	11.7
0°-180°	8476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2354	2354	2354	2354	2354	
5°	2360	2356	2335	2354	2348	224
15°	2261	2269	2267	2298	2298	637
25°	2064	2093	2118	2164	2166	951
35°	1794	1842	1904	1965	1983	1123
45°	1475	1552	1646	1720	1740	1137
55°	1122	1222	1340	1424	1453	1004
65°	759	868	1003	1102	1132	753
75°	395	510	659	764	806	419
85°	87	216	366	467	508	100
90°	2	122	258	356	390	6
95°	2	116	251	344	377	1
105°	2	100	235	324	353	2
115°	3	87	199	287	319	2
125°	3	74	170	245	276	3
135°	3	58	142	202	226	2
145°	3	42	99	152	171	2
155°	4	29	61	97	113	2
165°	4	19	33	45	58	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-93HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2354.3	2354.3	2354.3	2354.3	2354.3
2.5°	2370.3	2363.0	2338.3	2354.3	2347.0
5°	2360.1	2355.8	2335.4	2354.3	2348.5
7.5°	2344.1	2342.7	2326.7	2348.5	2342.7
10°	2322.4	2325.3	2312.2	2335.4	2331.1
12.5°	2294.8	2299.1	2293.3	2319.5	2316.6
15°	2261.4	2268.7	2267.2	2297.7	2297.7
17.5°	2220.8	2230.9	2236.7	2271.6	2271.6
20°	2172.9	2188.8	2200.4	2238.2	2244.0
22.5°	2125.0	2143.8	2161.3	2200.4	2209.2
25°	2064.0	2093.0	2117.7	2164.2	2165.6
27.5°	2004.5	2036.4	2069.8	2114.8	2119.2
30°	1939.2	1979.8	2020.5	2064.0	2077.1
32.5°	1869.5	1914.5	1959.5	2017.6	2035.0
35°	1794.0	1841.9	1904.3	1965.3	1982.7
37.5°	1718.6	1772.3	1844.8	1907.2	1923.2
40°	1641.6	1701.1	1782.4	1846.3	1865.2
42.5°	1556.0	1628.6	1715.7	1783.9	1805.6
45°	1474.7	1551.6	1646.0	1720.0	1740.3
47.5°	1389.1	1470.4	1572.0	1650.3	1673.6
50°	1297.6	1390.5	1499.4	1577.8	1599.5
52.5°	1212.0	1306.3	1421.0	1502.3	1532.8
55°	1122.0	1222.1	1339.7	1423.9	1452.9
57.5°	1037.8	1133.6	1259.9	1344.1	1380.4
60°	942.0	1048.0	1174.2	1265.7	1294.7
62.5°	852.0	959.4	1090.1	1184.4	1217.8
65°	759.1	868.0	1003.0	1101.7	1132.2
67.5°	672.0	779.4	917.3	1014.6	1053.8
70°	576.2	689.5	830.2	930.4	963.8
72.5°	481.9	599.5	743.2	850.6	888.3
75°	394.8	509.5	659.0	763.5	805.6
77.5°	310.6	426.7	577.7	685.1	721.4
80°	226.4	348.4	502.2	608.2	643.0
82.5°	149.5	277.2	429.6	535.6	573.3
85°	87.1	216.3	365.8	467.4	508.0
87.5°	37.7	164.0	306.3	406.4	439.8
90°	1.5	121.9	258.4	355.6	390.4
92.5°	1.5	119.0	252.6	348.4	381.7
95°	1.5	116.1	251.1	344.0	377.4
97.5°	1.5	114.7	248.2	341.1	373.0
100°	1.5	110.3	243.8	335.3	367.2
102.5°	1.5	104.5	239.5	329.5	360.0
105°	1.5	100.2	235.1	323.7	352.7
107.5°	1.5	95.8	227.9	316.4	345.5
110°	1.5	91.4	216.3	309.2	338.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	90.0	207.6	299.0	329.5
115°	2.9	87.1	198.9	287.4	319.3
117.5°	2.9	85.6	191.6	275.8	309.2
120°	2.9	81.3	184.3	265.6	297.6
122.5°	2.9	76.9	177.1	255.5	287.4
125°	2.9	74.0	169.8	245.3	275.8
127.5°	2.9	69.7	164.0	235.1	262.7
130°	2.9	66.8	156.8	223.5	251.1
132.5°	2.9	62.4	149.5	211.9	238.0
135°	2.9	58.1	142.2	201.8	226.4
137.5°	2.9	52.3	133.5	190.1	213.4
140°	2.9	47.9	121.9	178.5	200.3
142.5°	2.9	45.0	110.3	165.5	185.8
145°	2.9	42.1	98.7	152.4	171.3
147.5°	2.9	39.2	88.5	139.3	156.8
150°	2.9	34.8	78.4	127.7	142.2
152.5°	4.4	31.9	69.7	113.2	127.7
155°	4.4	29.0	61.0	97.2	113.2
157.5°	4.4	26.1	52.3	81.3	98.7
160°	4.4	23.2	45.0	66.8	84.2
162.5°	4.4	21.8	39.2	55.2	71.1
165°	4.4	18.9	33.4	45.0	58.1
167.5°	4.4	14.5	27.6	34.8	47.9
170°	4.4	11.6	21.8	24.7	36.3
172.5°	4.4	8.7	16.0	17.4	18.9
175°	4.4	7.3	10.2	10.2	5.8
177.5°	4.4	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)