

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: P566998

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566998
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-FDL-UNV-L830-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

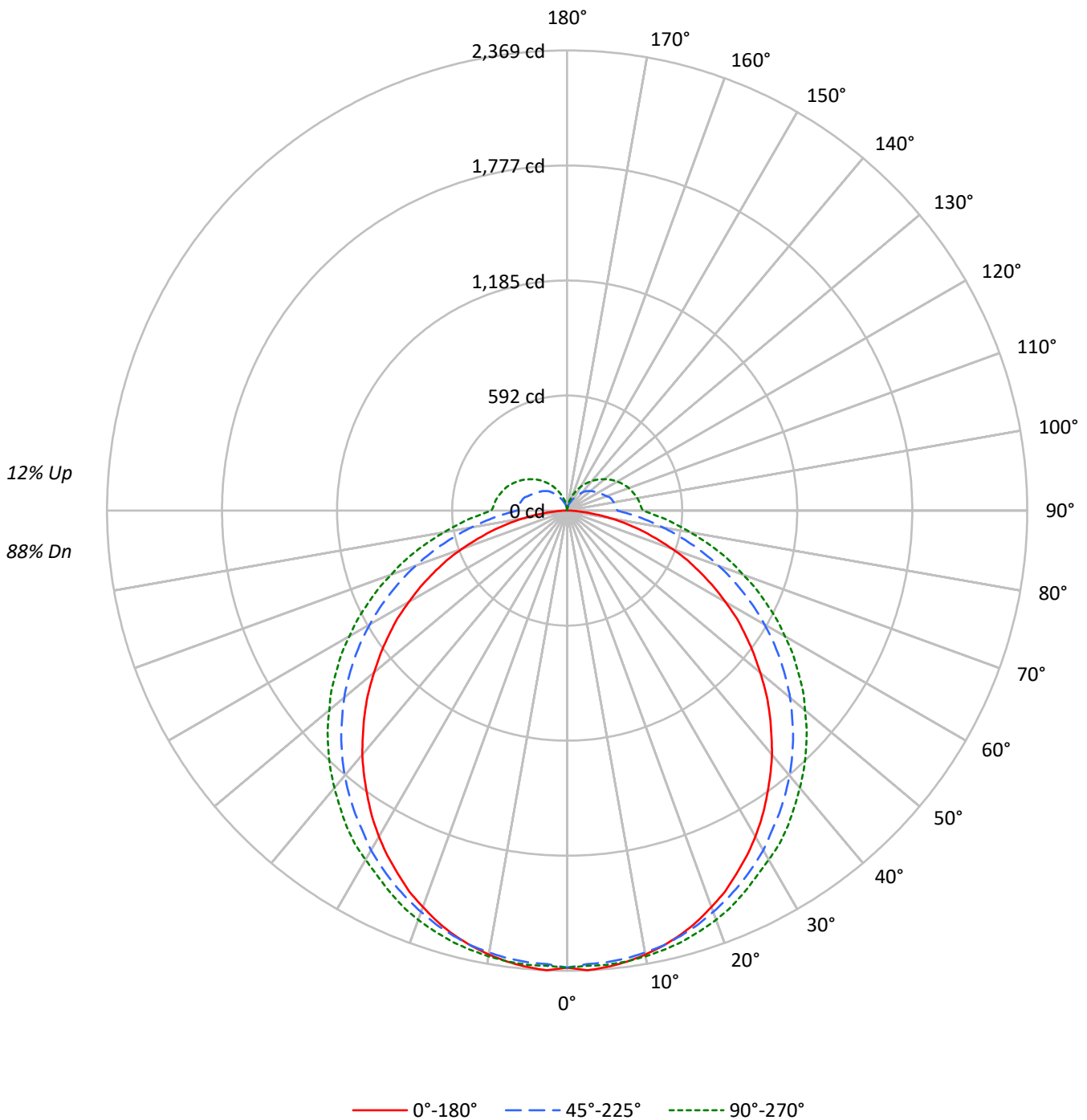
Lumens per Lamp: N/A
Luminaire Lumens: 8471.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	25326	25326	25326
5°	25463	24947	24996
10°	25322	24711	24737
15°	25116	24431	24495
20°	24781	24092	24220
25°	24381	23750	23851
30°	23944	23406	23536
35°	23390	22993	23318
40°	22854	22651	22979
45°	22204	22254	22694
50°	21451	21835	22334
55°	20734	21315	22011
60°	19909	20762	21617
65°	18902	20126	21231
70°	17620	19430	20792
75°	15797	18667	20643
80°	13245	18192	20477
85°	9601	18572	21584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	2.6
10°-20°	642.5	7.6
20°-30°	977.5	11.5
30°-40°	1188.5	14.0
40°-50°	1257.4	14.8
50°-60°	1178.7	13.9
60°-70°	969.7	11.4
70°-80°	670.9	7.9
80°-90°	373.1	4.4
90°-100°	245.8	2.9
100°-110°	220.4	2.6
110°-120°	182.4	2.2
120°-130°	141.0	1.7
130°-140°	99.8	1.2
140°-150°	60.2	0.7
150°-160°	28.9	0.3
160°-170°	9.5	0.1
170°-180°	1.2	0.0
0°-30°	1843.4	21.8
0°-40°	3032.0	35.8
0°-60°	5468.1	64.6
0°-90°	7481.8	88.3
90°-120°	648.6	7.7
90°-150°	949.7	11.2
90°-180°	989.0	11.7
0°-180°	8471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2353	2353	2353	2353	2353	
5°	2359	2354	2334	2353	2347	224
15°	2260	2267	2266	2296	2296	637
25°	2063	2092	2116	2163	2164	951
35°	1793	1841	1903	1964	1982	1122
45°	1474	1551	1645	1719	1739	1136
55°	1121	1221	1339	1423	1452	1004
65°	759	868	1002	1101	1132	752
75°	395	509	659	763	805	419
85°	87	216	366	467	508	100
90°	2	122	258	355	390	6
95°	2	116	251	344	377	1
105°	2	100	235	324	352	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2352.9	2352.9	2352.9	2352.9	2352.9
2.5°	2368.9	2361.6	2337.0	2352.9	2345.7
5°	2358.7	2354.4	2334.1	2352.9	2347.1
7.5°	2342.8	2341.3	2325.4	2347.1	2341.3
10°	2321.0	2323.9	2310.8	2334.1	2329.7
12.5°	2293.4	2297.8	2292.0	2318.1	2315.2
15°	2260.1	2267.3	2265.9	2296.3	2296.3
17.5°	2219.5	2229.6	2235.4	2270.2	2270.2
20°	2171.6	2187.5	2199.1	2236.9	2242.7
22.5°	2123.7	2142.6	2160.0	2199.1	2207.9
25°	2062.8	2091.8	2116.5	2162.9	2164.3
27.5°	2003.3	2035.2	2068.6	2113.6	2117.9
30°	1938.0	1978.7	2019.3	2062.8	2075.8
32.5°	1868.4	1913.4	1958.3	2016.4	2033.8
35°	1793.0	1840.8	1903.2	1964.1	1981.6
37.5°	1717.5	1771.2	1843.7	1906.1	1922.1
40°	1640.7	1700.1	1781.4	1845.2	1864.1
42.5°	1555.1	1627.6	1714.6	1782.8	1804.6
45°	1473.8	1550.7	1645.0	1719.0	1739.3
47.5°	1388.2	1469.5	1571.0	1649.4	1672.6
50°	1296.9	1389.7	1498.5	1576.8	1598.6
52.5°	1211.3	1305.6	1420.2	1501.4	1531.9
55°	1121.3	1221.4	1338.9	1423.1	1452.1
57.5°	1037.2	1132.9	1259.1	1343.3	1379.5
60°	941.5	1047.4	1173.6	1264.9	1294.0
62.5°	851.5	958.9	1089.4	1183.7	1217.1
65°	758.7	867.5	1002.4	1101.0	1131.5
67.5°	671.6	779.0	916.8	1014.0	1053.2
70°	575.9	689.0	829.8	929.9	963.2
72.5°	481.6	599.1	742.7	850.1	887.8
75°	394.6	509.2	658.6	763.0	805.1
77.5°	310.4	426.5	577.3	684.7	721.0
80°	226.3	348.2	501.9	607.8	642.6
82.5°	149.4	277.1	429.4	535.3	573.0
85°	87.0	216.1	365.6	467.1	507.7
87.5°	37.7	163.9	306.1	406.2	439.5
90°	1.5	121.9	258.2	355.4	390.2
92.5°	1.5	119.0	252.4	348.2	381.5
95°	1.5	116.1	251.0	343.8	377.2
97.5°	1.5	114.6	248.1	340.9	372.8
100°	1.5	110.2	243.7	335.1	367.0
102.5°	1.5	104.4	239.4	329.3	359.8
105°	1.5	100.1	235.0	323.5	352.5
107.5°	1.5	95.7	227.7	316.2	345.2
110°	1.5	91.4	216.1	309.0	338.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	89.9	207.4	298.8	329.3
115°	2.9	87.0	198.7	287.2	319.1
117.5°	2.9	85.6	191.5	275.6	309.0
120°	2.9	81.2	184.2	265.5	297.4
122.5°	2.9	76.9	177.0	255.3	287.2
125°	2.9	74.0	169.7	245.2	275.6
127.5°	2.9	69.6	163.9	235.0	262.6
130°	2.9	66.7	156.7	223.4	251.0
132.5°	2.9	62.4	149.4	211.8	237.9
135°	2.9	58.0	142.2	201.6	226.3
137.5°	2.9	52.2	133.5	190.0	213.2
140°	2.9	47.9	121.9	178.4	200.2
142.5°	2.9	45.0	110.2	165.4	185.7
145°	2.9	42.1	98.6	152.3	171.2
147.5°	2.9	39.2	88.5	139.3	156.7
150°	2.9	34.8	78.3	127.7	142.2
152.5°	4.4	31.9	69.6	113.1	127.7
155°	4.4	29.0	60.9	97.2	113.1
157.5°	4.4	26.1	52.2	81.2	98.6
160°	4.4	23.2	45.0	66.7	84.1
162.5°	4.4	21.8	39.2	55.1	71.1
165°	4.4	18.9	33.4	45.0	58.0
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)