

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: P566838

Luminaire Tested: **4SNX-81HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566838  
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-81HL-SLW-UNV-L830-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

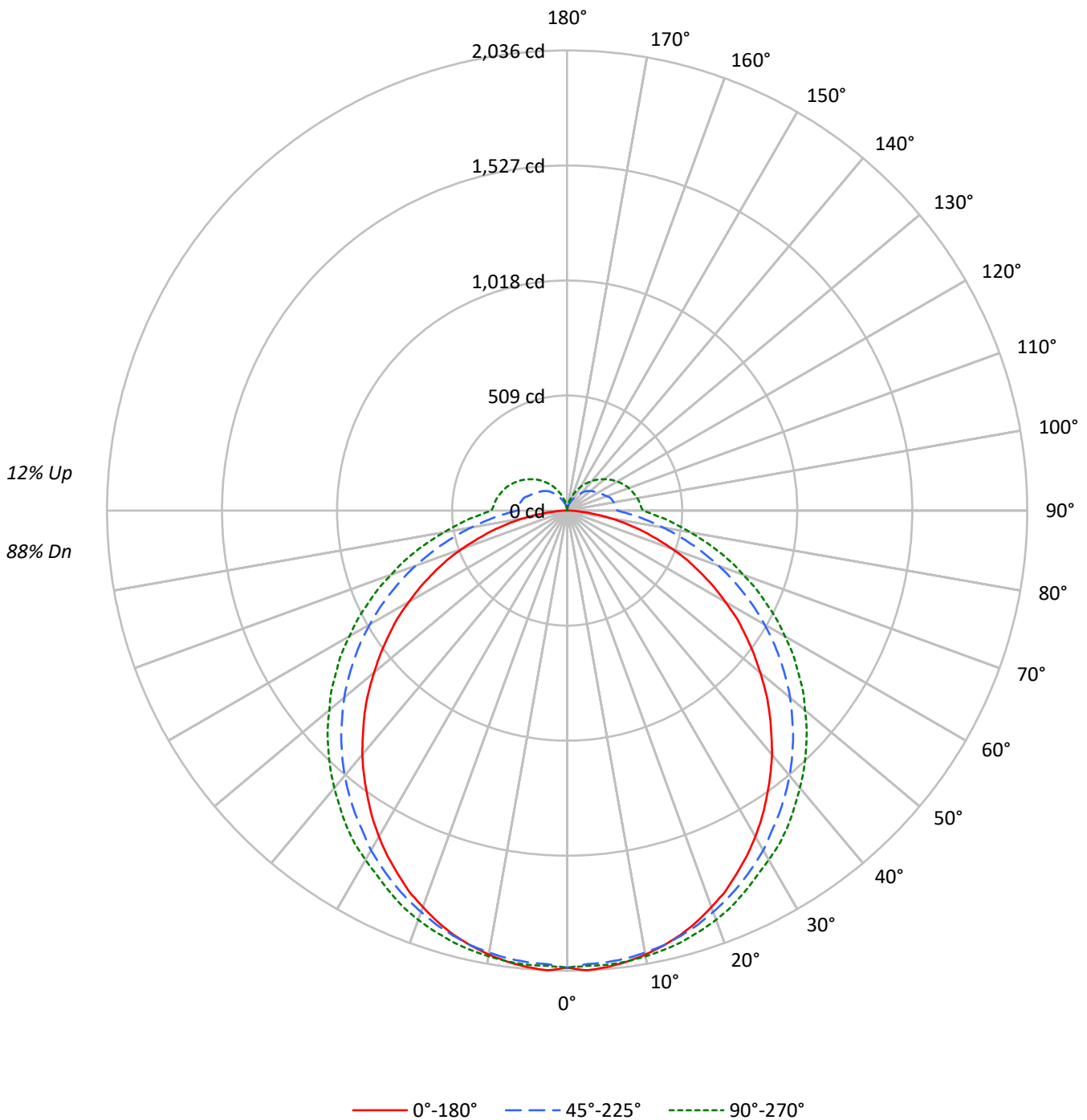
Lumens per Lamp: N/A  
Luminaire Lumens: 7281.0 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	21769	21769	21769
5°	21866	21214	21183
10°	21725	20795	20676
15°	21528	20344	20198
20°	21220	19850	19700
25°	20856	19354	19132
30°	20459	18856	18609
35°	19961	18300	18159
40°	19476	17790	17608
45°	18892	17226	17085
50°	18216	16626	16486
55°	17566	15924	15889
60°	16816	15164	15202
65°	15901	14297	14468
70°	14738	13318	13626
75°	13089	12193	12853
80°	10787	11075	11878
85°	7467	10076	11241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	2.6
10°-20°	552.3	7.6
20°-30°	840.2	11.5
30°-40°	1021.6	14.0
40°-50°	1080.8	14.8
50°-60°	1013.1	13.9
60°-70°	833.5	11.4
70°-80°	576.7	7.9
80°-90°	320.7	4.4
90°-100°	211.2	2.9
100°-110°	189.4	2.6
110°-120°	156.8	2.2
120°-130°	121.2	1.7
130°-140°	85.8	1.2
140°-150°	51.8	0.7
150°-160°	24.9	0.3
160°-170°	8.1	0.1
170°-180°	1.0	0.0
0°-30°	1584.5	21.8
0°-40°	2606.0	35.8
0°-60°	4699.9	64.6
0°-90°	6430.7	88.3
90°-120°	557.5	7.7
90°-150°	816.3	11.2
90°-180°	850.0	11.7
0°-180°	7281.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	2027	2024	2006	2022	2017	192
15°	1943	1949	1948	1974	1974	548
25°	1773	1798	1819	1859	1860	817
35°	1541	1582	1636	1688	1703	964
45°	1267	1333	1414	1478	1495	976
55°	964	1050	1151	1223	1248	863
65°	652	746	862	946	972	647
75°	339	438	566	656	692	360
85°	75	186	314	402	436	86
90°	1	105	222	306	335	5
95°	1	100	216	296	324	1
105°	1	86	202	278	303	1
115°	2	75	171	247	274	2
125°	2	64	146	211	237	2
135°	2	50	122	173	194	2
145°	2	36	85	131	147	2
155°	4	25	52	84	97	2
165°	4	16	29	39	50	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2022.4	2022.4	2022.4	2022.4	2022.4
2.5°	2036.1	2029.9	2008.7	2022.4	2016.1
5°	2027.4	2023.6	2006.2	2022.4	2017.4
7.5°	2013.7	2012.4	1998.7	2017.4	2012.4
10°	1994.9	1997.4	1986.2	2006.2	2002.4
12.5°	1971.3	1975.0	1970.0	1992.5	1990.0
15°	1942.6	1948.8	1947.6	1973.8	1973.8
17.5°	1907.7	1916.4	1921.4	1951.3	1951.3
20°	1866.5	1880.2	1890.2	1922.6	1927.6
22.5°	1825.4	1841.6	1856.6	1890.2	1897.7
25°	1773.0	1797.9	1819.1	1859.0	1860.3
27.5°	1721.9	1749.3	1778.0	1816.7	1820.4
30°	1665.8	1700.7	1735.6	1773.0	1784.2
32.5°	1605.9	1644.6	1683.2	1733.1	1748.1
35°	1541.1	1582.2	1635.9	1688.2	1703.2
37.5°	1476.3	1522.4	1584.7	1638.4	1652.1
40°	1410.2	1461.3	1531.1	1586.0	1602.2
42.5°	1336.6	1399.0	1473.8	1532.4	1551.1
45°	1266.8	1332.9	1413.9	1477.5	1495.0
47.5°	1193.2	1263.1	1350.3	1417.7	1437.6
50°	1114.7	1194.5	1288.0	1355.3	1374.0
52.5°	1041.1	1122.2	1220.7	1290.5	1316.7
55°	963.8	1049.8	1150.8	1223.2	1248.1
57.5°	891.5	973.8	1082.3	1154.6	1185.7
60°	809.2	900.2	1008.7	1087.2	1112.2
62.5°	731.9	824.2	936.4	1017.4	1046.1
65°	652.1	745.6	861.6	946.4	972.5
67.5°	577.3	669.6	788.0	871.5	905.2
70°	495.0	592.3	713.2	799.2	827.9
72.5°	414.0	514.9	638.4	730.7	763.1
75°	339.1	437.6	566.1	655.8	692.0
77.5°	266.8	366.6	496.2	588.5	619.7
80°	194.5	299.2	431.4	522.4	552.4
82.5°	128.4	238.1	369.1	460.1	492.5
85°	74.8	185.8	314.2	401.5	436.4
87.5°	32.4	140.9	263.1	349.1	377.8
90°	1.2	104.7	221.9	305.5	335.4
92.5°	1.2	102.2	217.0	299.2	327.9
95°	1.2	99.7	215.7	295.5	324.2
97.5°	1.2	98.5	213.2	293.0	320.4
100°	1.2	94.8	209.5	288.0	315.5
102.5°	1.2	89.8	205.7	283.0	309.2
105°	1.2	86.0	202.0	278.0	303.0
107.5°	1.2	82.3	195.8	271.8	296.7
110°	1.2	78.6	185.8	265.6	290.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	77.3	178.3	256.8	283.0
115°	2.5	74.8	170.8	246.9	274.3
117.5°	2.5	73.6	164.6	236.9	265.6
120°	2.5	69.8	158.3	228.2	255.6
122.5°	2.5	66.1	152.1	219.4	246.9
125°	2.5	63.6	145.9	210.7	236.9
127.5°	2.5	59.8	140.9	202.0	225.7
130°	2.5	57.4	134.7	192.0	215.7
132.5°	2.5	53.6	128.4	182.0	204.5
135°	2.5	49.9	122.2	173.3	194.5
137.5°	2.5	44.9	114.7	163.3	183.3
140°	2.5	41.1	104.7	153.4	172.1
142.5°	2.5	38.7	94.8	142.1	159.6
145°	2.5	36.2	84.8	130.9	147.1
147.5°	2.5	33.7	76.1	119.7	134.7
150°	2.5	29.9	67.3	109.7	122.2
152.5°	3.7	27.4	59.8	97.3	109.7
155°	3.7	24.9	52.4	83.5	97.3
157.5°	3.7	22.4	44.9	69.8	84.8
160°	3.7	19.9	38.7	57.4	72.3
162.5°	3.7	18.7	33.7	47.4	61.1
165°	3.7	16.2	28.7	38.7	49.9
167.5°	3.7	12.5	23.7	29.9	41.1
170°	3.7	10.0	18.7	21.2	31.2
172.5°	3.7	7.5	13.7	15.0	16.2
175°	3.7	6.2	8.7	8.7	5.0
177.5°	3.7	5.0	5.0	5.0	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)