

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: P566842

Luminaire Tested: **4SNX-81HL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566842  
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-L930-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

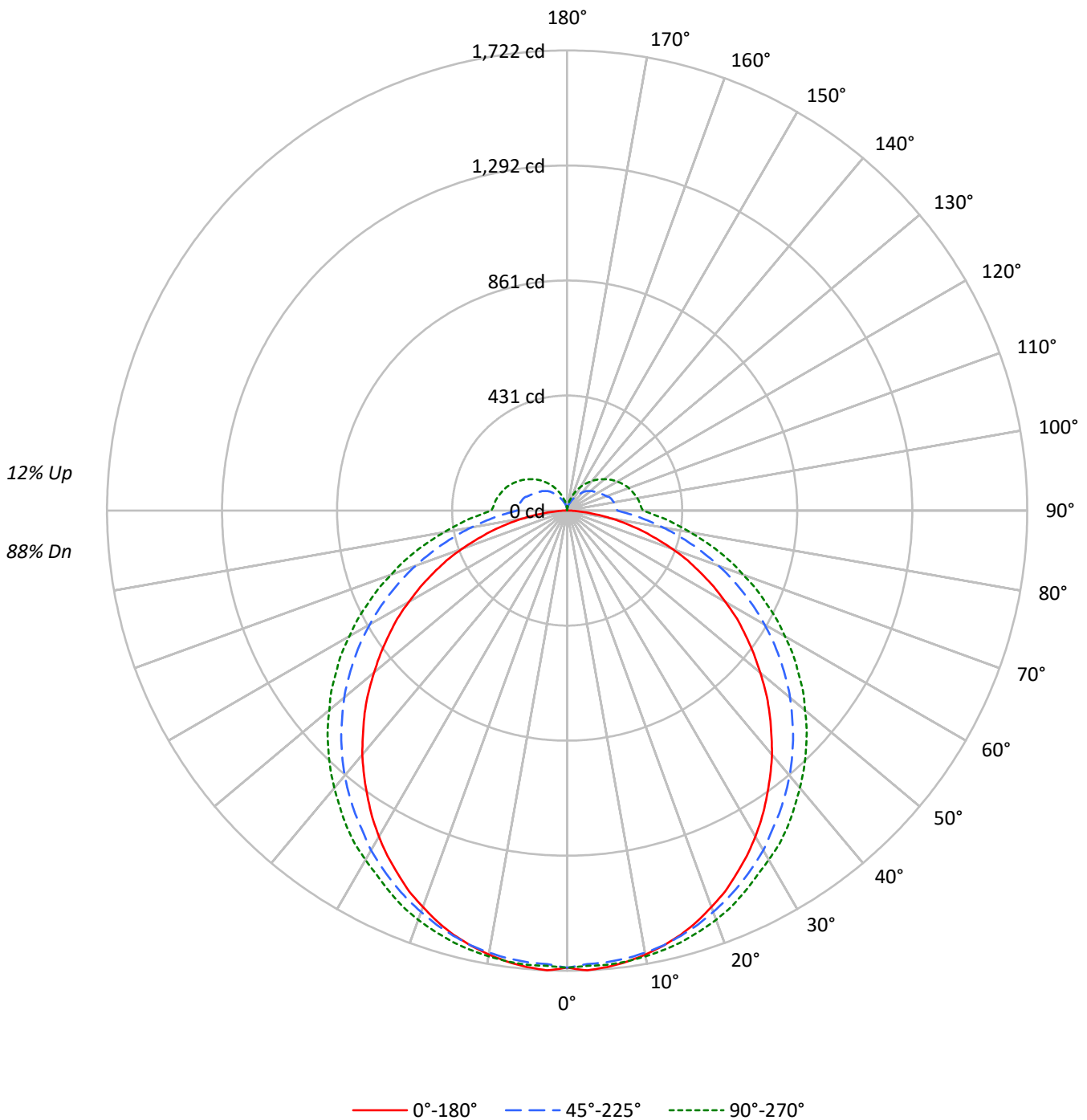
Lumens per Lamp: N/A  
Luminaire Lumens: 6158.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
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°	18412	18412	18412
5°	18494	17941	17915
10°	18375	17588	17487
15°	18208	17206	17082
20°	17947	16789	16661
25°	17638	16369	16182
30°	17304	15948	15739
35°	16882	15477	15358
40°	16472	15047	14892
45°	15978	14569	14450
50°	15407	14061	13943
55°	14858	13468	13438
60°	14222	12825	12856
65°	13448	12092	12237
70°	12466	11264	11524
75°	11070	10313	10872
80°	9123	9368	10046
85°	6319	8521	9507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	2.6
10°-20°	467.1	7.6
20°-30°	710.6	11.5
30°-40°	864.0	14.0
40°-50°	914.1	14.8
50°-60°	856.8	13.9
60°-70°	704.9	11.4
70°-80°	487.7	7.9
80°-90°	271.2	4.4
90°-100°	178.7	2.9
100°-110°	160.2	2.6
110°-120°	132.6	2.2
120°-130°	102.5	1.7
130°-140°	72.6	1.2
140°-150°	43.8	0.7
150°-160°	21.0	0.3
160°-170°	6.9	0.1
170°-180°	0.8	0.0
0°-30°	1340.1	21.8
0°-40°	2204.1	35.8
0°-60°	3975.0	64.6
0°-90°	5438.9	88.3
90°-120°	471.5	7.7
90°-150°	690.4	11.2
90°-180°	719.0	11.7
0°-180°	6158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1715	1712	1697	1710	1706	163
15°	1643	1648	1647	1669	1669	463
25°	1500	1521	1539	1572	1573	691
35°	1303	1338	1384	1428	1440	816
45°	1071	1127	1196	1250	1264	826
55°	815	888	973	1034	1056	730
65°	552	631	729	800	822	547
75°	287	370	479	555	585	304
85°	63	157	266	340	369	73
90°	1	89	188	258	284	4
95°	1	84	182	250	274	1
105°	1	73	171	235	256	1
115°	2	63	144	209	232	2
125°	2	54	123	178	200	2
135°	2	42	103	147	164	2
145°	2	31	72	111	124	1
155°	3	21	44	71	82	1
165°	3	14	24	33	42	1
175°	3	5	7	7	4	0
180°	2	2	2	2	2	



TEST NUMBER: P566842

CATALOG NUMBER: 4SNX-81HL-SLW-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1722.1	1716.8	1698.9	1710.5	1705.2
5°	1714.7	1711.5	1696.7	1710.5	1706.2
7.5°	1703.1	1702.0	1690.4	1706.2	1702.0
10°	1687.3	1689.4	1679.9	1696.7	1693.6
12.5°	1667.2	1670.4	1666.2	1685.1	1683.0
15°	1643.0	1648.2	1647.2	1669.3	1669.3
17.5°	1613.4	1620.8	1625.0	1650.3	1650.3
20°	1578.6	1590.2	1598.7	1626.1	1630.3
22.5°	1543.8	1557.5	1570.2	1598.7	1605.0
25°	1499.5	1520.6	1538.6	1572.3	1573.4
27.5°	1456.3	1479.5	1503.8	1536.5	1539.6
30°	1408.9	1438.4	1467.9	1499.5	1509.0
32.5°	1358.2	1390.9	1423.6	1465.8	1478.5
35°	1303.4	1338.2	1383.5	1427.8	1440.5
37.5°	1248.6	1287.6	1340.3	1385.7	1397.3
40°	1192.7	1235.9	1295.0	1341.4	1355.1
42.5°	1130.5	1183.2	1246.5	1296.0	1311.8
45°	1071.4	1127.3	1195.8	1249.6	1264.4
47.5°	1009.2	1068.2	1142.1	1199.0	1215.9
50°	942.8	1010.2	1089.3	1146.3	1162.1
52.5°	880.5	949.1	1032.4	1091.4	1113.6
55°	815.2	887.9	973.3	1034.5	1055.6
57.5°	754.0	823.6	915.3	976.5	1002.9
60°	684.4	761.4	853.1	919.6	940.6
62.5°	619.0	697.0	792.0	860.5	884.8
65°	551.5	630.6	728.7	800.4	822.5
67.5°	488.2	566.3	666.5	737.1	765.6
70°	418.7	500.9	603.2	676.0	700.2
72.5°	350.1	435.5	539.9	618.0	645.4
75°	286.8	370.1	478.8	554.7	585.3
77.5°	225.7	310.0	419.7	497.7	524.1
80°	164.5	253.1	364.9	441.8	467.2
82.5°	108.6	201.4	312.1	389.1	416.5
85°	63.3	157.1	265.7	339.6	369.1
87.5°	27.4	119.2	222.5	295.3	319.5
90°	1.1	88.6	187.7	258.4	283.7
92.5°	1.1	86.5	183.5	253.1	277.3
95°	1.1	84.4	182.4	249.9	274.2
97.5°	1.1	83.3	180.3	247.8	271.0
100°	1.1	80.1	177.2	243.6	266.8
102.5°	1.1	75.9	174.0	239.4	261.5
105°	1.1	72.8	170.8	235.2	256.3
107.5°	1.1	69.6	165.6	229.9	251.0
110°	1.1	66.4	157.1	224.6	245.7



TEST NUMBER: P566842

CATALOG NUMBER: 4SNX-81HL-SLW-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	65.4	150.8	217.2	239.4
115°	2.1	63.3	144.5	208.8	232.0
117.5°	2.1	62.2	139.2	200.4	224.6
120°	2.1	59.1	133.9	193.0	216.2
122.5°	2.1	55.9	128.7	185.6	208.8
125°	2.1	53.8	123.4	178.2	200.4
127.5°	2.1	50.6	119.2	170.8	190.9
130°	2.1	48.5	113.9	162.4	182.4
132.5°	2.1	45.3	108.6	154.0	172.9
135°	2.1	42.2	103.3	146.6	164.5
137.5°	2.1	38.0	97.0	138.1	155.0
140°	2.1	34.8	88.6	129.7	145.5
142.5°	2.1	32.7	80.1	120.2	135.0
145°	2.1	30.6	71.7	110.7	124.4
147.5°	2.1	28.5	64.3	101.2	113.9
150°	2.1	25.3	56.9	92.8	103.3
152.5°	3.2	23.2	50.6	82.3	92.8
155°	3.2	21.1	44.3	70.7	82.3
157.5°	3.2	19.0	38.0	59.1	71.7
160°	3.2	16.9	32.7	48.5	61.2
162.5°	3.2	15.8	28.5	40.1	51.7
165°	3.2	13.7	24.3	32.7	42.2
167.5°	3.2	10.5	20.0	25.3	34.8
170°	3.2	8.4	15.8	17.9	26.4
172.5°	3.2	6.3	11.6	12.7	13.7
175°	3.2	5.3	7.4	7.4	4.2
177.5°	3.2	4.2	4.2	4.2	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)