

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: P566518

Luminaire Tested: **4SNX-51SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-51SL-FDL-UNV-L830-CD  
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

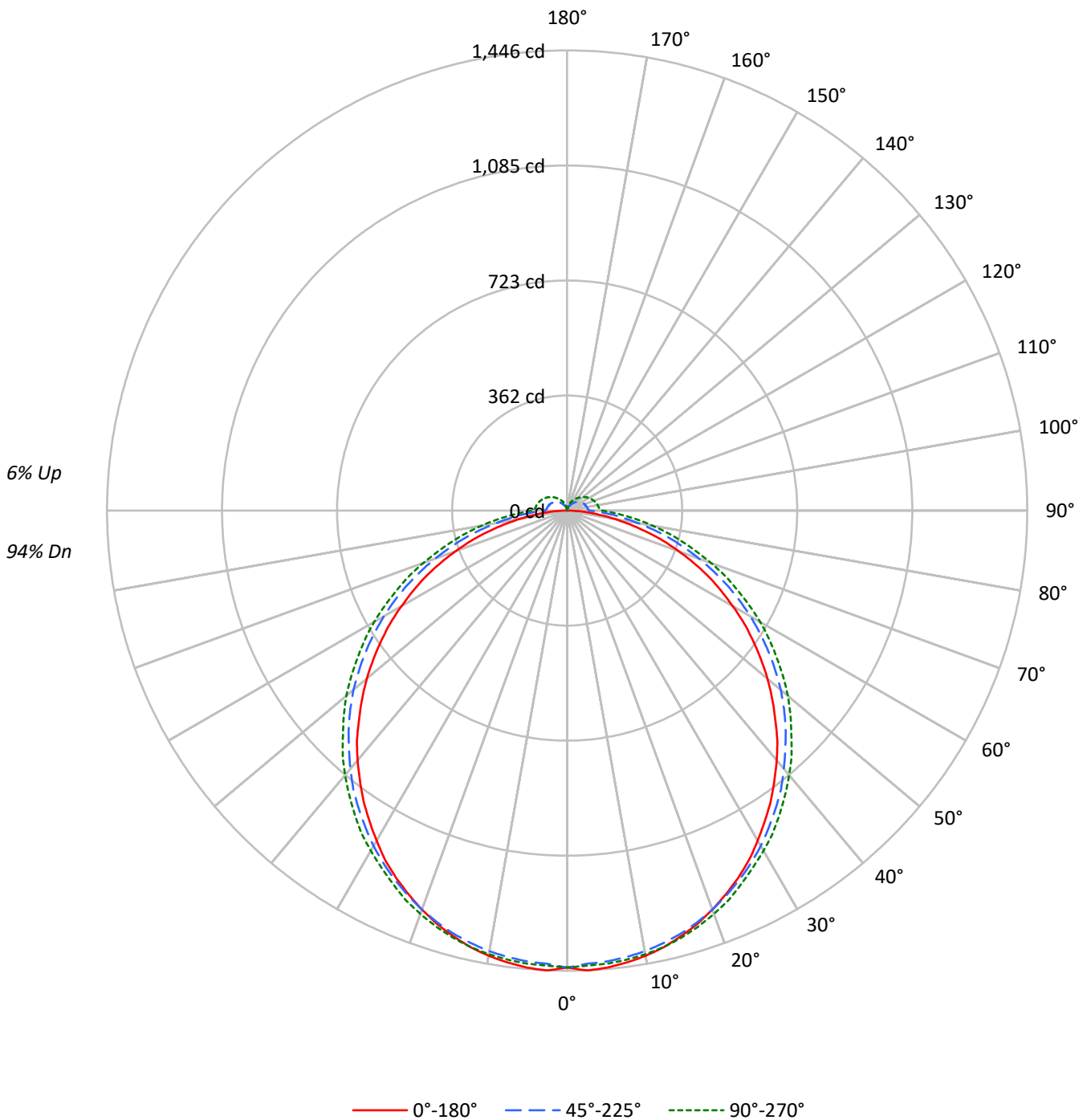
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4563.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 35  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15456	15456	15456
5°	15561	15200	15223
10°	15498	15036	15032
15°	15382	14846	14817
20°	15224	14616	14564
25°	15042	14362	14266
30°	14795	14105	13990
35°	14547	13804	13702
40°	14272	13469	13378
45°	13927	13140	13000
50°	13593	12763	12655
55°	13179	12298	12175
60°	12713	11764	11704
65°	12220	11129	11053
70°	11373	10331	10379
75°	10352	9390	9571
80°	8844	8141	8677
85°	6953	7061	7627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.2	3.0
10°-20°	390.8	8.6
20°-30°	592.2	13.0
30°-40°	714.9	15.7
40°-50°	746.5	16.4
50°-60°	685.8	15.0
60°-70°	542.3	11.9
70°-80°	343.2	7.5
80°-90°	147.5	3.2
90°-100°	64.9	1.4
100°-110°	58.1	1.3
110°-120°	49.1	1.1
120°-130°	38.3	0.8
130°-140°	26.5	0.6
140°-150°	15.9	0.3
150°-160°	7.8	0.2
160°-170°	2.7	0.1
170°-180°	0.4	0.0
0°-30°	1119.1	24.5
0°-40°	1834.0	40.2
0°-60°	3266.3	71.6
0°-90°	4299.4	94.2
90°-120°	172.1	3.8
90°-150°	252.8	5.5
90°-180°	264.0	5.8
0°-180°	4563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1442	1438	1422	1434	1429	137
15°	1384	1384	1377	1391	1389	391
25°	1273	1278	1280	1297	1294	586
35°	1115	1128	1143	1160	1164	697
45°	924	947	971	990	996	714
55°	713	742	772	798	803	638
65°	490	518	554	580	589	483
75°	259	289	331	360	373	274
85°	63	97	139	169	179	70
90°	4	35	71	99	110	5
95°	1	30	65	90	100	1
105°	1	28	61	85	94	1
115°	1	23	55	77	85	1
125°	2	21	46	66	74	1
135°	2	16	37	52	59	1
145°	2	12	26	40	44	1
155°	2	8	17	25	30	1
165°	2	6	9	12	17	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1435.9	1435.9	1435.9	1435.9	1435.9
2.5°	1446.4	1441.5	1425.4	1436.7	1431.0
5°	1441.5	1437.5	1422.2	1434.3	1429.4
7.5°	1432.7	1429.4	1415.7	1428.6	1423.8
10°	1420.5	1418.1	1406.0	1418.9	1415.7
12.5°	1405.2	1404.4	1392.3	1406.8	1404.4
15°	1384.2	1384.2	1376.9	1391.4	1389.0
17.5°	1361.6	1362.4	1356.7	1372.1	1370.4
20°	1334.1	1338.1	1334.1	1350.2	1348.6
22.5°	1304.2	1309.8	1308.2	1324.4	1325.2
25°	1272.7	1278.3	1279.9	1296.9	1294.5
27.5°	1237.9	1246.8	1250.0	1265.4	1264.6
30°	1197.5	1209.6	1216.9	1229.8	1233.9
32.5°	1156.3	1170.9	1179.7	1197.5	1202.4
35°	1115.1	1128.0	1142.6	1160.3	1164.4
37.5°	1069.8	1084.4	1103.8	1120.8	1125.6
40°	1024.6	1040.8	1059.3	1077.9	1085.2
42.5°	977.7	994.7	1014.9	1036.7	1044.0
45°	924.4	947.0	971.3	989.9	996.3
47.5°	873.5	898.5	924.4	944.6	951.9
50°	821.8	848.4	875.9	894.5	905.8
52.5°	767.6	796.7	824.2	847.6	854.9
55°	712.7	741.8	772.5	797.5	803.2
57.5°	659.4	687.6	718.3	741.8	753.1
60°	601.2	631.9	665.0	688.5	700.6
62.5°	544.6	574.5	610.1	635.1	644.8
65°	490.5	518.0	554.3	580.2	589.1
67.5°	430.7	462.2	496.9	526.8	538.2
70°	371.7	401.6	441.2	469.5	480.8
72.5°	316.8	345.8	385.4	413.7	424.2
75°	258.6	289.3	331.3	359.6	373.3
77.5°	202.8	236.8	277.2	307.9	323.2
80°	151.1	181.0	224.6	258.6	272.3
82.5°	102.6	134.9	180.2	211.7	227.1
85°	63.0	97.0	139.0	168.9	179.4
87.5°	29.9	62.2	101.0	130.1	143.0
90°	4.0	34.7	71.1	99.4	109.9
92.5°	0.8	29.9	65.5	92.1	101.8
95°	0.8	29.9	64.6	90.5	100.2
97.5°	0.8	29.1	63.8	89.7	98.6
100°	0.8	28.3	63.0	88.1	97.8
102.5°	0.8	28.3	61.4	86.5	95.3
105°	0.8	27.5	60.6	84.8	93.7
107.5°	0.8	26.7	59.0	83.2	92.1
110°	0.8	25.0	58.2	80.8	89.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	24.2	56.6	79.2	87.3
115°	0.8	23.4	54.9	76.8	84.8
117.5°	0.8	22.6	52.5	74.3	82.4
120°	1.6	22.6	50.9	71.9	79.2
122.5°	1.6	21.8	48.5	68.7	76.0
125°	1.6	21.0	46.1	66.3	73.5
127.5°	1.6	20.2	43.6	63.0	69.5
130°	1.6	18.6	42.0	59.8	66.3
132.5°	1.6	17.8	39.6	55.8	62.2
135°	1.6	16.2	37.2	52.5	59.0
137.5°	1.6	15.4	34.7	49.3	54.9
140°	1.6	14.5	31.5	46.1	51.7
142.5°	1.6	12.9	29.1	42.8	47.7
145°	1.6	12.1	25.9	39.6	43.6
147.5°	1.6	10.5	23.4	36.4	40.4
150°	1.6	9.7	21.0	33.1	37.2
152.5°	1.6	8.9	18.6	29.1	33.1
155°	1.6	8.1	17.0	25.0	29.9
157.5°	1.6	7.3	14.5	21.8	26.7
160°	2.4	6.5	12.9	18.6	22.6
162.5°	2.4	5.7	10.5	15.4	20.2
165°	2.4	5.7	8.9	12.1	17.0
167.5°	2.4	4.8	7.3	9.7	13.7
170°	2.4	4.0	6.5	7.3	10.5
172.5°	2.4	3.2	4.8	4.8	5.7
175°	2.4	3.2	4.0	4.0	2.4
177.5°	2.4	2.4	2.4	2.4	1.6
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)