

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: P566821

Luminaire Tested: **4SNX-81HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-81HL-LC-UNV-L950-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

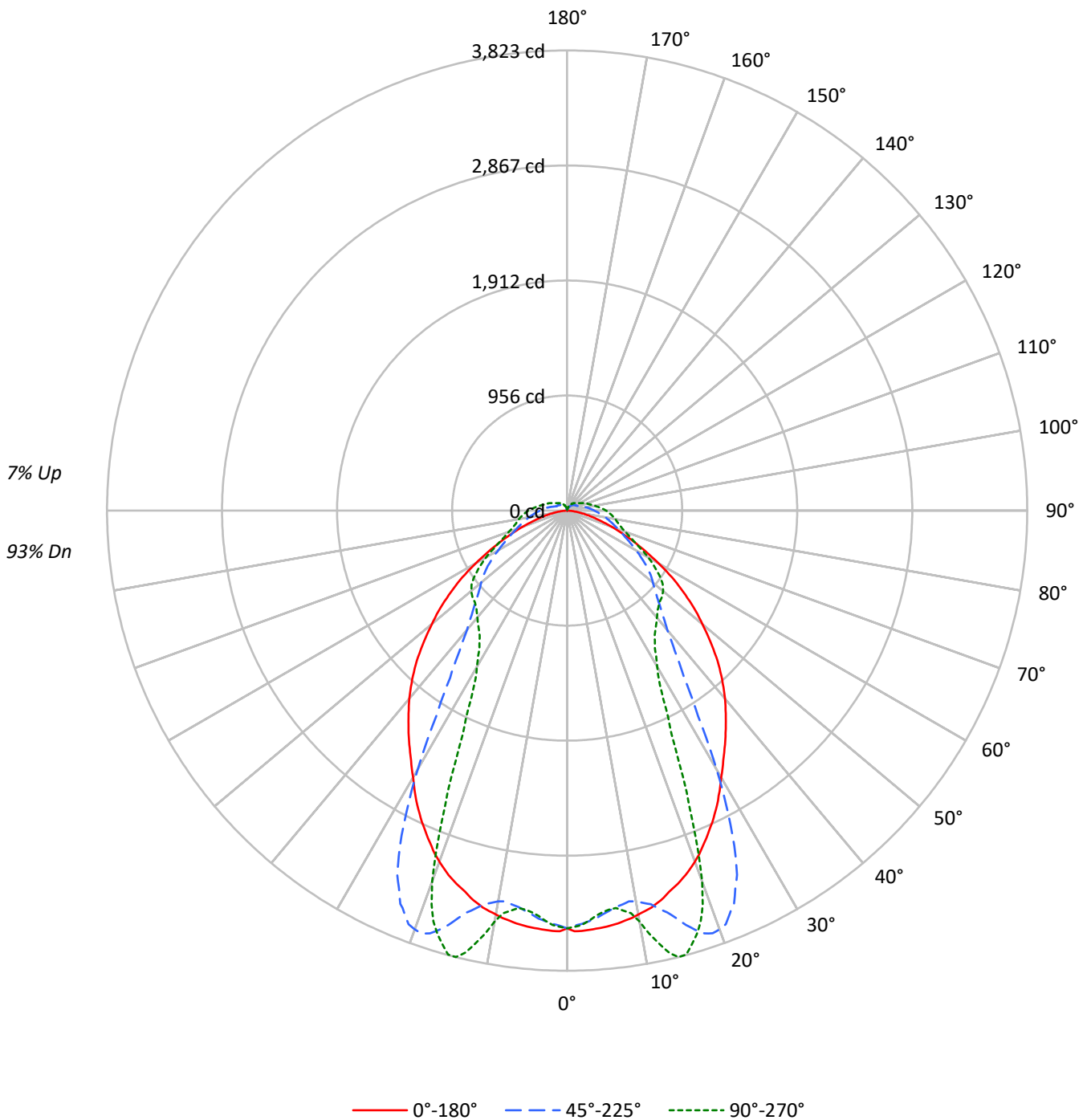
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7716.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: 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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	37370	37370	37370
5°	37415	34877	34207
10°	36967	33117	33921
15°	36107	34446	36111
20°	35014	35873	30222
25°	33256	32156	18582
30°	31071	23931	13449
35°	29286	16503	11345
40°	27687	12797	10456
45°	25824	10885	9889
50°	23399	9760	9708
55°	20846	8816	8981
60°	17575	7618	7768
65°	14185	6626	6483
70°	11010	5946	5708
75°	8397	5515	5324
80°	5731	5210	5269
85°	2953	4955	5232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	4.2
10°-20°	987.2	12.8
20°-30°	1329.2	17.2
30°-40°	1258.0	16.3
40°-50°	1110.3	14.4
50°-60°	901.8	11.7
60°-70°	613.4	7.9
70°-80°	394.7	5.1
80°-90°	262.4	3.4
90°-100°	180.4	2.3
100°-110°	121.1	1.6
110°-120°	85.4	1.1
120°-130°	61.0	0.8
130°-140°	43.0	0.6
140°-150°	26.7	0.3
150°-160°	13.0	0.2
160°-170°	4.6	0.1
170°-180°	0.8	0.0
0°-30°	2639.4	34.2
0°-40°	3897.4	50.5
0°-60°	5909.6	76.6
0°-90°	7180.0	93.1
90°-120°	386.8	5.0
90°-150°	517.6	6.7
90°-180°	536.0	6.9
0°-180°	7716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3472	3472	3472	3472	3472	
5°	3475	3444	3369	3367	3350	330
15°	3276	3255	3506	3816	3819	924
25°	2854	3385	3340	2426	2051	1310
35°	2294	3218	1696	1306	1266	1435
45°	1767	2165	1073	1060	1083	1357
55°	1177	1281	806	900	934	1051
65°	607	690	540	600	618	609
75°	233	326	380	426	446	254
85°	35	139	270	342	365	46
90°	1	97	225	303	323	2
95°	1	74	190	257	274	1
105°	2	52	125	176	197	2
115°	2	45	92	131	147	3
125°	4	38	79	99	106	3
135°	5	30	65	82	87	4
145°	5	21	46	64	70	3
155°	6	13	28	42	48	3
165°	6	8	15	21	26	2
175°	7	7	7	7	6	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3471.8	3471.8	3471.8	3471.8	3471.8
1°	3495.4	3484.8	3449.4	3468.3	3458.9
2°	3494.2	3476.5	3436.5	3457.7	3445.9
3°	3488.3	3469.5	3417.6	3430.6	3412.9
4°	3482.4	3460.0	3397.6	3397.6	3377.6
5°	3475.4	3443.5	3369.3	3367.0	3350.5
6°	3467.1	3430.6	3344.6	3342.2	3332.8
7°	3455.3	3408.2	3317.5	3334.0	3326.9
8°	3441.2	3387.0	3303.4	3344.6	3355.2
9°	3428.2	3361.1	3286.9	3377.6	3385.8
10°	3407.0	3337.5	3297.5	3443.5	3468.3
11°	3389.4	3317.5	3321.0	3508.3	3582.6
12°	3371.7	3296.3	3343.4	3589.6	3680.3
13°	3342.2	3279.8	3392.9	3678.0	3771.1
14°	3316.3	3266.8	3441.2	3767.5	3822.9
15°	3276.3	3255.1	3506.0	3815.8	3819.4
16°	3249.2	3246.8	3581.4	3819.4	3753.4
17°	3218.5	3243.3	3642.6	3758.1	3680.3
18°	3184.4	3250.3	3693.3	3681.5	3592.0
19°	3145.5	3257.4	3714.5	3575.5	3460.0
20°	3103.1	3268.0	3702.7	3464.8	3278.6
21°	3060.7	3282.1	3680.3	3348.1	3040.6
22.5°	2981.7	3316.3	3574.3	3020.6	2647.2
23°	2959.4	3323.4	3549.6	2918.1	2544.7
24°	2904.0	3352.8	3436.5	2679.0	2273.7
25°	2854.5	3384.6	3339.9	2425.7	2051.0
26°	2799.1	3408.2	3193.8	2192.4	1914.4
27°	2744.9	3422.3	3027.7	2011.0	1761.2
28°	2682.5	3437.7	2847.4	1854.3	1645.8
29°	2623.6	3440.0	2669.5	1729.4	1555.1
30°	2560.0	3428.2	2482.2	1629.3	1498.5
32.5°	2421.0	3363.4	2024.0	1438.4	1357.2
35°	2293.7	3218.5	1696.4	1306.5	1266.4
37.5°	2165.3	2990.0	1466.7	1224.0	1211.1
40°	2039.3	2719.0	1293.5	1158.1	1160.4
42.5°	1906.1	2439.8	1174.6	1103.9	1114.5
45°	1767.1	2165.3	1073.2	1060.3	1082.7
47.5°	1612.8	1914.4	993.1	1032.0	1066.2
50°	1466.7	1665.8	930.7	1004.9	1040.3
52.5°	1327.7	1462.0	874.1	959.0	1000.2
55°	1176.9	1280.6	805.8	900.1	934.2
57.5°	1033.2	1116.8	733.9	827.0	857.6
60°	875.3	955.4	660.9	748.1	777.5
62.5°	732.8	817.6	598.5	669.2	692.7
65°	606.7	690.4	539.6	599.6	618.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	494.8	584.3	491.3	541.9	559.6
70°	389.9	484.2	448.9	494.8	513.6
72.5°	305.1	400.5	413.5	455.9	474.8
75°	233.3	326.3	380.5	426.5	446.5
77.5°	173.2	266.2	349.9	402.9	424.1
80°	114.3	212.1	322.8	381.7	406.4
82.5°	71.9	170.8	295.7	360.5	386.4
85°	35.3	139.0	269.8	341.6	365.2
87.5°	11.8	115.5	246.2	322.8	342.8
90°	1.2	96.6	225.0	302.8	322.8
92.5°	1.2	83.6	207.3	279.2	299.2
95°	1.2	74.2	189.7	256.8	274.5
97.5°	1.2	67.2	173.2	233.3	252.1
100°	1.2	60.1	155.5	210.9	230.9
102.5°	2.4	55.4	140.2	192.0	213.2
105°	2.4	51.8	124.9	175.5	196.7
107.5°	2.4	49.5	111.9	162.6	182.6
110°	2.4	47.1	102.5	150.8	172.0
112.5°	2.4	45.9	96.6	140.2	160.2
115°	2.4	44.8	91.9	130.8	147.3
117.5°	3.5	43.6	88.4	121.3	134.3
120°	3.5	41.2	86.0	113.1	123.7
122.5°	3.5	38.9	82.5	106.0	114.3
125°	3.5	37.7	78.9	99.0	106.0
127.5°	3.5	35.3	75.4	93.1	100.1
130°	4.7	33.0	71.9	88.4	94.2
132.5°	4.7	30.6	68.3	86.0	90.7
135°	4.7	29.5	64.8	82.5	87.2
137.5°	4.7	27.1	61.3	78.9	83.6
140°	4.7	24.7	56.5	74.2	78.9
142.5°	4.7	23.6	51.8	69.5	74.2
145°	4.7	21.2	45.9	63.6	69.5
147.5°	5.9	20.0	41.2	58.9	63.6
150°	5.9	17.7	36.5	54.2	58.9
152.5°	5.9	15.3	31.8	48.3	53.0
155°	5.9	13.0	28.3	42.4	48.3
157.5°	5.9	11.8	24.7	35.3	42.4
160°	5.9	10.6	21.2	30.6	36.5
162.5°	5.9	9.4	18.8	25.9	31.8
165°	5.9	8.2	15.3	21.2	25.9
167.5°	7.1	8.2	13.0	16.5	21.2
170°	7.1	8.2	10.6	13.0	16.5
172.5°	7.1	7.1	8.2	9.4	10.6
175°	7.1	7.1	7.1	7.1	5.9
177.5°	7.1	7.1	7.1	5.9	5.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)