

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: P567789

Luminaire Tested: **8SNX-44SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-44SL-LC-UNV-L850-CD  
Description: 8FT 4400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

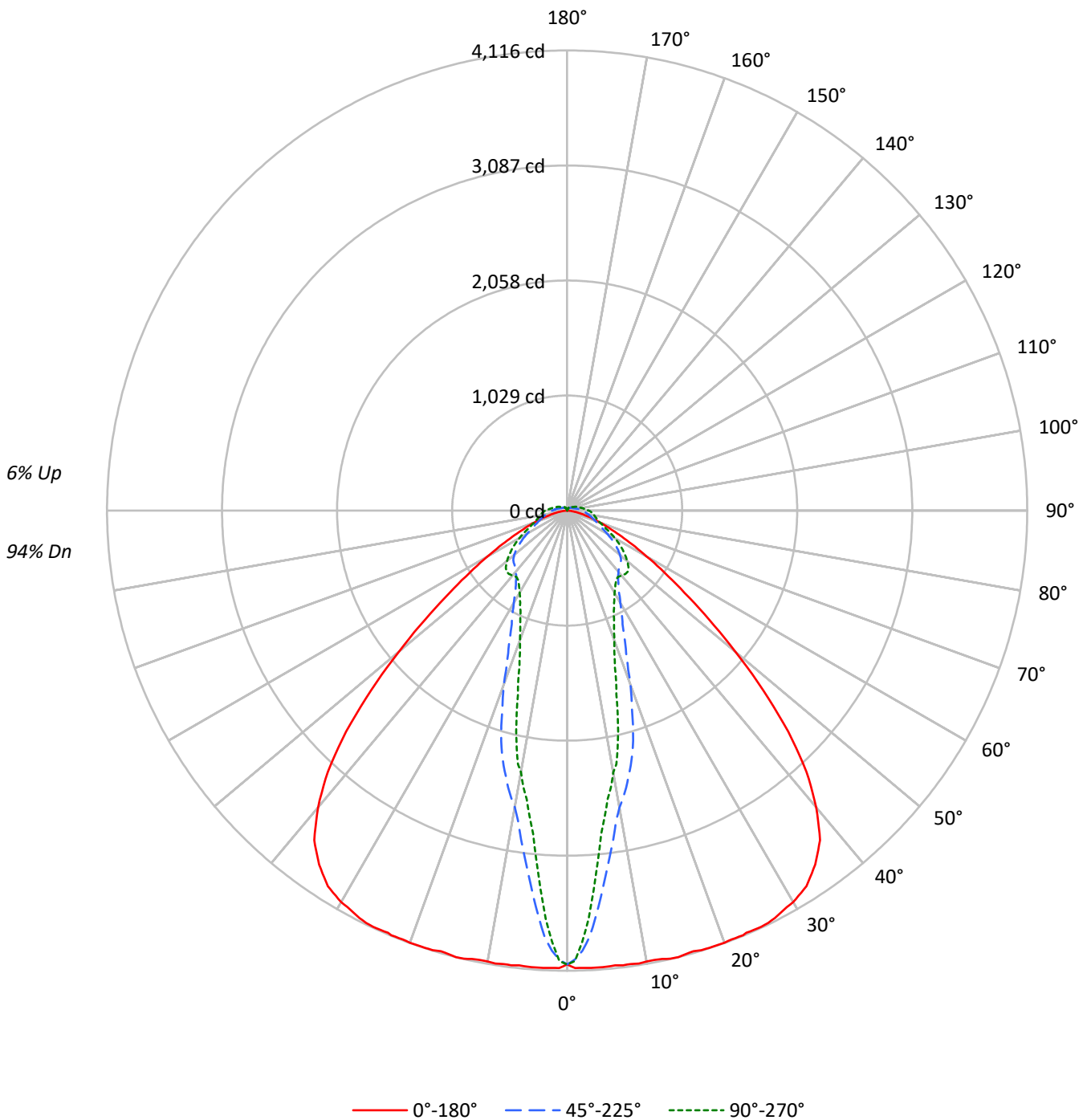
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5004.0 lumens  
Efficiency: N/A  
Efficacy: 181.3 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 27.6  
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

TEST NUMBER: P567789  
CATALOG NUMBER: 8SNX-44SL-LC-UNV-L850-CD

### 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	21848	21848	21848
5°	22085	17967	16063
10°	22299	13579	11625
15°	22749	11112	8050
20°	23381	8049	5685
25°	24161	5773	4473
30°	24834	4617	3809
35°	25043	3909	3411
40°	23940	3557	3420
45°	20841	3441	3513
50°	16049	3276	3279
55°	11683	2869	2909
60°	8525	2398	2460
65°	6252	2031	2016
70°	4657	1797	1739
75°	3365	1668	1620
80°	2276	1566	1596
85°	1152	1497	1598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.3	6.4
10°-20°	693.3	13.9
20°-30°	793.5	15.9
30°-40°	795.0	15.9
40°-50°	752.5	15.0
50°-60°	577.1	11.5
60°-70°	372.0	7.4
70°-80°	237.2	4.7
80°-90°	157.5	3.1
90°-100°	105.9	2.1
100°-110°	69.8	1.4
110°-120°	48.5	1.0
120°-130°	33.9	0.7
130°-140°	23.5	0.5
140°-150°	14.4	0.3
150°-160°	7.3	0.1
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	1806.0	36.1
0°-40°	2601.0	52.0
0°-60°	3930.6	78.5
0°-90°	4697.4	93.9
90°-120°	224.2	4.5
90°-150°	296.0	5.9
90°-180°	307.0	6.1
0°-180°	5004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4060	4060	4060	4060	4060	
5°	4095	3870	3467	3234	3147	391
15°	4106	2957	2254	1852	1703	1165
25°	4108	2093	1192	1036	987	1894
35°	3867	1164	798	772	762	2399
45°	2795	736	672	744	769	2125
55°	1282	526	518	582	605	1179
65°	513	331	326	372	385	528
75°	174	180	226	259	272	192
85°	23	82	159	208	223	32
90°	0	56	133	185	192	1
95°	0	41	110	151	159	0
105°	0	31	72	103	110	2
115°	3	26	54	74	80	3
125°	3	23	46	54	56	2
135°	3	18	36	44	46	2
145°	3	13	26	33	36	2
155°	3	8	15	23	26	1
165°	5	5	10	13	15	1
175°	5	5	5	5	3	0
180°	5	5	5	5	5	



TEST NUMBER: P567789

CATALOG NUMBER: 8SNX-44SL-LC-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4059.5	4059.5	4059.5	4059.5	4059.5
1°	4092.8	4069.7	4015.9	4031.3	4028.7
2°	4092.8	4044.1	3939.0	3908.2	3862.0
3°	4095.4	4000.5	3821.0	3721.0	3656.9
4°	4095.4	3936.4	3646.6	3479.9	3397.9
5°	4095.4	3869.7	3467.1	3233.7	3146.6
6°	4090.3	3790.2	3285.0	3038.8	2908.1
7°	4098.0	3703.0	3120.9	2856.8	2754.2
8°	4095.4	3600.5	2969.6	2718.3	2605.5
9°	4103.1	3500.4	2805.5	2587.5	2502.9
10°	4095.4	3408.1	2697.8	2464.4	2377.2
11°	4095.4	3318.4	2620.8	2384.9	2310.5
12°	4100.5	3215.8	2536.2	2272.1	2169.5
13°	4113.3	3110.6	2438.8	2149.0	2028.5
14°	4115.9	3031.2	2349.0	1992.6	1866.9
15°	4105.6	2956.8	2254.1	1851.5	1702.8
16°	4100.5	2879.9	2141.3	1718.2	1584.8
17°	4110.8	2790.1	2013.1	1582.3	1459.2
18°	4113.3	2708.0	1877.2	1479.7	1372.0
19°	4113.3	2643.9	1766.9	1384.8	1292.5
20°	4113.3	2582.4	1654.1	1313.0	1233.5
21°	4108.2	2505.4	1525.8	1238.6	1171.9
22.5°	4110.8	2361.8	1379.7	1151.4	1097.6
23°	4103.1	2325.9	1343.8	1128.3	1071.9
24°	4105.6	2223.4	1266.8	1082.2	1028.3
25°	4108.2	2092.6	1192.5	1036.0	987.3
26°	4103.1	1987.4	1130.9	992.4	959.1
27°	4090.3	1902.8	1087.3	956.5	925.8
28°	4072.3	1790.0	1041.2	925.8	897.5
29°	4054.4	1661.7	995.0	892.4	871.9
30°	4044.1	1559.2	951.4	866.8	848.8
32.5°	3982.6	1356.6	861.6	815.5	800.1
35°	3867.2	1164.2	797.5	771.9	761.6
37.5°	3715.9	1015.5	748.8	743.7	746.2
40°	3467.1	897.5	712.9	736.0	759.1
42.5°	3169.6	805.2	687.3	743.7	769.3
45°	2795.2	736.0	671.9	743.7	769.3
47.5°	2379.8	679.6	653.9	718.0	743.7
50°	1964.4	628.3	618.0	679.6	702.7
52.5°	1597.6	579.6	571.9	630.8	653.9
55°	1282.2	525.7	518.0	582.1	605.2
57.5°	1028.3	474.4	466.7	525.7	548.8
60°	820.6	423.1	410.3	469.3	492.4
62.5°	653.9	374.4	366.7	418.0	438.5
65°	512.9	330.8	325.7	371.8	384.7



TEST NUMBER: P567789

CATALOG NUMBER: 8SNX-44SL-LC-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	405.2	289.8	292.3	330.8	346.2
70°	312.9	251.3	266.7	302.6	312.9
72.5°	235.9	212.8	246.2	277.0	289.8
75°	174.4	179.5	225.7	259.0	271.8
77.5°	120.5	148.7	207.7	243.6	256.4
80°	82.1	120.5	189.8	230.8	246.2
82.5°	48.7	100.0	174.4	218.0	235.9
85°	23.1	82.1	159.0	207.7	223.1
87.5°	7.7	66.7	143.6	197.5	210.3
90°	0.0	56.4	133.4	184.6	192.3
92.5°	0.0	48.7	120.5	169.3	174.4
95°	0.0	41.0	110.3	151.3	159.0
97.5°	0.0	38.5	102.6	135.9	146.2
100°	0.0	35.9	92.3	123.1	133.4
102.5°	0.0	30.8	82.1	110.3	120.5
105°	0.0	30.8	71.8	102.6	110.3
107.5°	2.6	28.2	66.7	92.3	102.6
110°	2.6	28.2	59.0	87.2	94.9
112.5°	2.6	28.2	56.4	79.5	89.8
115°	2.6	25.6	53.9	74.4	79.5
117.5°	2.6	25.6	51.3	66.7	71.8
120°	2.6	23.1	48.7	61.5	64.1
122.5°	2.6	23.1	46.2	56.4	59.0
125°	2.6	23.1	46.2	53.9	56.4
127.5°	2.6	20.5	43.6	51.3	51.3
130°	2.6	20.5	41.0	48.7	48.7
132.5°	2.6	18.0	38.5	46.2	48.7
135°	2.6	18.0	35.9	43.6	46.2
137.5°	2.6	15.4	33.3	41.0	43.6
140°	2.6	15.4	30.8	38.5	41.0
142.5°	2.6	12.8	28.2	35.9	38.5
145°	2.6	12.8	25.6	33.3	35.9
147.5°	2.6	12.8	23.1	30.8	33.3
150°	2.6	10.3	20.5	28.2	30.8
152.5°	2.6	10.3	18.0	25.6	28.2
155°	2.6	7.7	15.4	23.1	25.6
157.5°	2.6	7.7	15.4	20.5	23.1
160°	5.1	7.7	12.8	18.0	20.5
162.5°	2.6	5.1	12.8	15.4	18.0
165°	5.1	5.1	10.3	12.8	15.4
167.5°	5.1	5.1	7.7	10.3	12.8
170°	5.1	5.1	7.7	7.7	10.3
172.5°	5.1	5.1	5.1	7.7	5.1
175°	5.1	5.1	5.1	5.1	2.6
177.5°	5.1	5.1	5.1	5.1	2.6



TEST NUMBER: P567789

CATALOG NUMBER: 8SNX-44SL-LC-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)