

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: P566433

Luminaire Tested: **4SNX-45SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566433
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: 4SNX-45SL-LC-UNV-L850-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

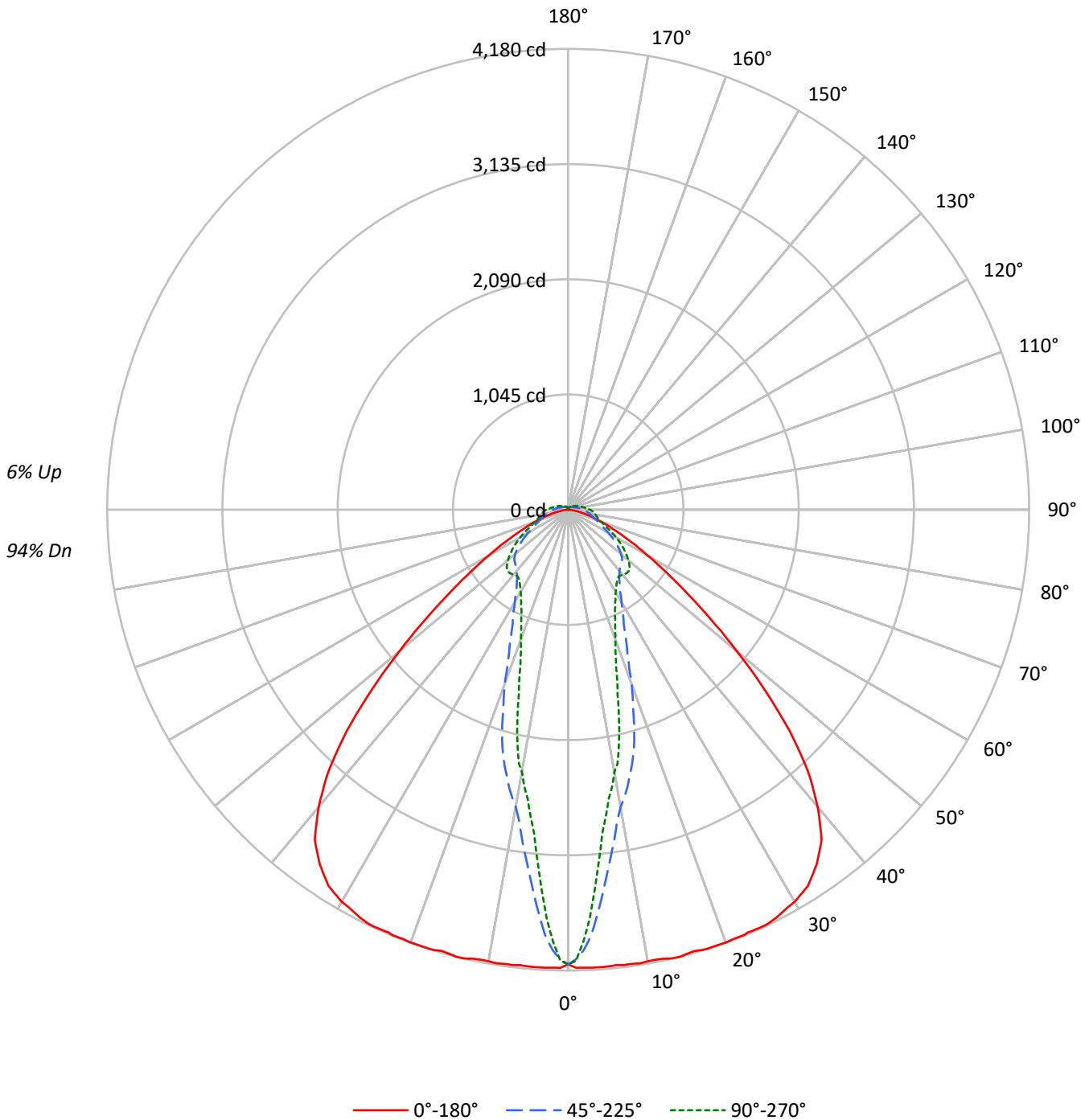
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5082.0 lumens
Efficiency: N/A
Efficacy: 170.5 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 29.8
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	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°	44377	44377	44377
5°	44777	36448	32626
10°	45128	27516	23612
15°	45951	22492	16350
20°	47137	16275	11547
25°	48607	11659	9085
30°	49848	9315	7737
35°	50144	7880	6929
40°	47805	7163	6946
45°	41485	6921	7136
50°	31827	6582	6659
55°	23065	5756	5908
60°	16734	4803	4995
65°	12179	4062	4096
70°	8971	3588	3531
75°	6374	3322	3292
80°	4177	3110	3241
85°	1958	2966	3247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.2	6.4
10°-20°	704.1	13.9
20°-30°	805.9	15.9
30°-40°	807.3	15.9
40°-50°	764.3	15.0
50°-60°	586.1	11.5
60°-70°	377.8	7.4
70°-80°	240.9	4.7
80°-90°	160.0	3.1
90°-100°	107.6	2.1
100°-110°	70.9	1.4
110°-120°	49.3	1.0
120°-130°	34.4	0.7
130°-140°	23.9	0.5
140°-150°	14.6	0.3
150°-160°	7.4	0.1
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	1834.2	36.1
0°-40°	2641.5	52.0
0°-60°	3991.9	78.6
0°-90°	4770.6	93.9
90°-120°	227.7	4.5
90°-150°	300.6	5.9
90°-180°	311.0	6.1
0°-180°	5082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4123	4123	4123	4123	4123	
5°	4159	3930	3521	3284	3196	397
15°	4170	3003	2289	1880	1729	1183
25°	4172	2125	1211	1052	1003	1923
35°	3927	1182	810	784	774	2437
45°	2839	748	682	755	781	2158
55°	1302	534	526	591	615	1197
65°	521	336	331	378	391	536
75°	177	182	229	263	276	195
85°	23	83	162	211	227	32
90°	0	57	135	188	195	1
95°	0	42	112	154	162	0
105°	0	31	73	104	112	2
115°	3	26	55	76	81	3
125°	3	23	47	55	57	2
135°	3	18	36	44	47	2
145°	3	13	26	34	36	2
155°	3	8	16	23	26	1
165°	5	5	10	13	16	1
175°	5	5	5	5	3	0
180°	5	5	5	5	5	



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CATALOG NUMBER: 4SNX-45SL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4122.8	4122.8	4122.8	4122.8	4122.8
1°	4156.6	4133.2	4078.5	4094.1	4091.5
2°	4156.6	4107.1	4000.4	3969.1	3922.2
3°	4159.2	4062.9	3880.6	3779.0	3713.9
4°	4159.2	3997.8	3703.5	3534.2	3450.8
5°	4159.2	3930.0	3521.1	3284.1	3195.6
6°	4154.0	3849.3	3336.2	3086.2	2953.4
7°	4161.8	3760.8	3169.6	2901.3	2797.1
8°	4159.2	3656.6	3015.9	2760.7	2646.1
9°	4167.0	3555.0	2849.2	2627.8	2541.9
10°	4159.2	3461.2	2739.8	2502.8	2414.3
11°	4159.2	3370.1	2661.7	2422.1	2346.6
12°	4164.4	3265.9	2575.8	2307.5	2203.3
13°	4177.5	3159.1	2476.8	2182.5	2060.1
14°	4180.1	3078.4	2385.6	2023.6	1896.0
15°	4169.6	3002.9	2289.3	1880.4	1729.3
16°	4164.4	2924.7	2174.7	1744.9	1609.5
17°	4174.9	2833.6	2044.5	1606.9	1481.9
18°	4177.5	2750.2	1906.4	1502.7	1393.4
19°	4177.5	2685.1	1794.4	1406.4	1312.6
20°	4177.5	2622.6	1679.8	1333.5	1252.7
21°	4172.2	2544.5	1549.6	1257.9	1190.2
22.5°	4174.9	2398.7	1401.2	1169.4	1114.7
23°	4167.0	2362.2	1364.7	1145.9	1088.6
24°	4169.6	2258.0	1286.6	1099.1	1044.4
25°	4172.2	2125.2	1211.0	1052.2	1002.7
26°	4167.0	2018.4	1148.5	1007.9	974.0
27°	4154.0	1932.5	1104.3	971.4	940.2
28°	4135.8	1817.9	1057.4	940.2	911.5
29°	4117.6	1687.7	1010.5	906.3	885.5
30°	4107.1	1583.5	966.2	880.3	862.1
32.5°	4044.6	1377.7	875.1	828.2	812.6
35°	3927.4	1182.4	810.0	783.9	773.5
37.5°	3773.8	1031.3	760.5	755.3	757.9
40°	3521.1	911.5	724.0	747.5	770.9
42.5°	3219.0	817.8	698.0	755.3	781.3
45°	2838.8	747.5	682.4	755.3	781.3
47.5°	2416.9	690.2	664.1	729.2	755.3
50°	1995.0	638.1	627.7	690.2	713.6
52.5°	1622.5	588.6	580.8	640.7	664.1
55°	1302.2	533.9	526.1	591.2	614.6
57.5°	1044.4	481.8	474.0	533.9	557.3
60°	833.4	429.7	416.7	476.6	500.0
62.5°	664.1	380.2	372.4	424.5	445.4
65°	520.9	336.0	330.8	377.6	390.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	411.5	294.3	296.9	336.0	351.6
70°	317.7	255.2	270.9	307.3	317.7
72.5°	239.6	216.2	250.0	281.3	294.3
75°	177.1	182.3	229.2	263.0	276.1
77.5°	122.4	151.1	211.0	247.4	260.4
80°	83.3	122.4	192.7	234.4	250.0
82.5°	49.5	101.6	177.1	221.4	239.6
85°	23.4	83.3	161.5	211.0	226.6
87.5°	7.8	67.7	145.8	200.5	213.6
90°	0.0	57.3	135.4	187.5	195.3
92.5°	0.0	49.5	122.4	171.9	177.1
95°	0.0	41.7	112.0	153.7	161.5
97.5°	0.0	39.1	104.2	138.0	148.5
100°	0.0	36.5	93.8	125.0	135.4
102.5°	0.0	31.3	83.3	112.0	122.4
105°	0.0	31.3	72.9	104.2	112.0
107.5°	2.6	28.6	67.7	93.8	104.2
110°	2.6	28.6	59.9	88.5	96.4
112.5°	2.6	28.6	57.3	80.7	91.2
115°	2.6	26.0	54.7	75.5	80.7
117.5°	2.6	26.0	52.1	67.7	72.9
120°	2.6	23.4	49.5	62.5	65.1
122.5°	2.6	23.4	46.9	57.3	59.9
125°	2.6	23.4	46.9	54.7	57.3
127.5°	2.6	20.8	44.3	52.1	52.1
130°	2.6	20.8	41.7	49.5	49.5
132.5°	2.6	18.2	39.1	46.9	49.5
135°	2.6	18.2	36.5	44.3	46.9
137.5°	2.6	15.6	33.9	41.7	44.3
140°	2.6	15.6	31.3	39.1	41.7
142.5°	2.6	13.0	28.6	36.5	39.1
145°	2.6	13.0	26.0	33.9	36.5
147.5°	2.6	13.0	23.4	31.3	33.9
150°	2.6	10.4	20.8	28.6	31.3
152.5°	2.6	10.4	18.2	26.0	28.6
155°	2.6	7.8	15.6	23.4	26.0
157.5°	2.6	7.8	15.6	20.8	23.4
160°	5.2	7.8	13.0	18.2	20.8
162.5°	2.6	5.2	13.0	15.6	18.2
165°	5.2	5.2	10.4	13.0	15.6
167.5°	5.2	5.2	7.8	10.4	13.0
170°	5.2	5.2	7.8	7.8	10.4
172.5°	5.2	5.2	5.2	7.8	5.2
175°	5.2	5.2	5.2	5.2	2.6
177.5°	5.2	5.2	5.2	5.2	2.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)