

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: P566430

Luminaire Tested: **4SNX-45SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566430
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-L830-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

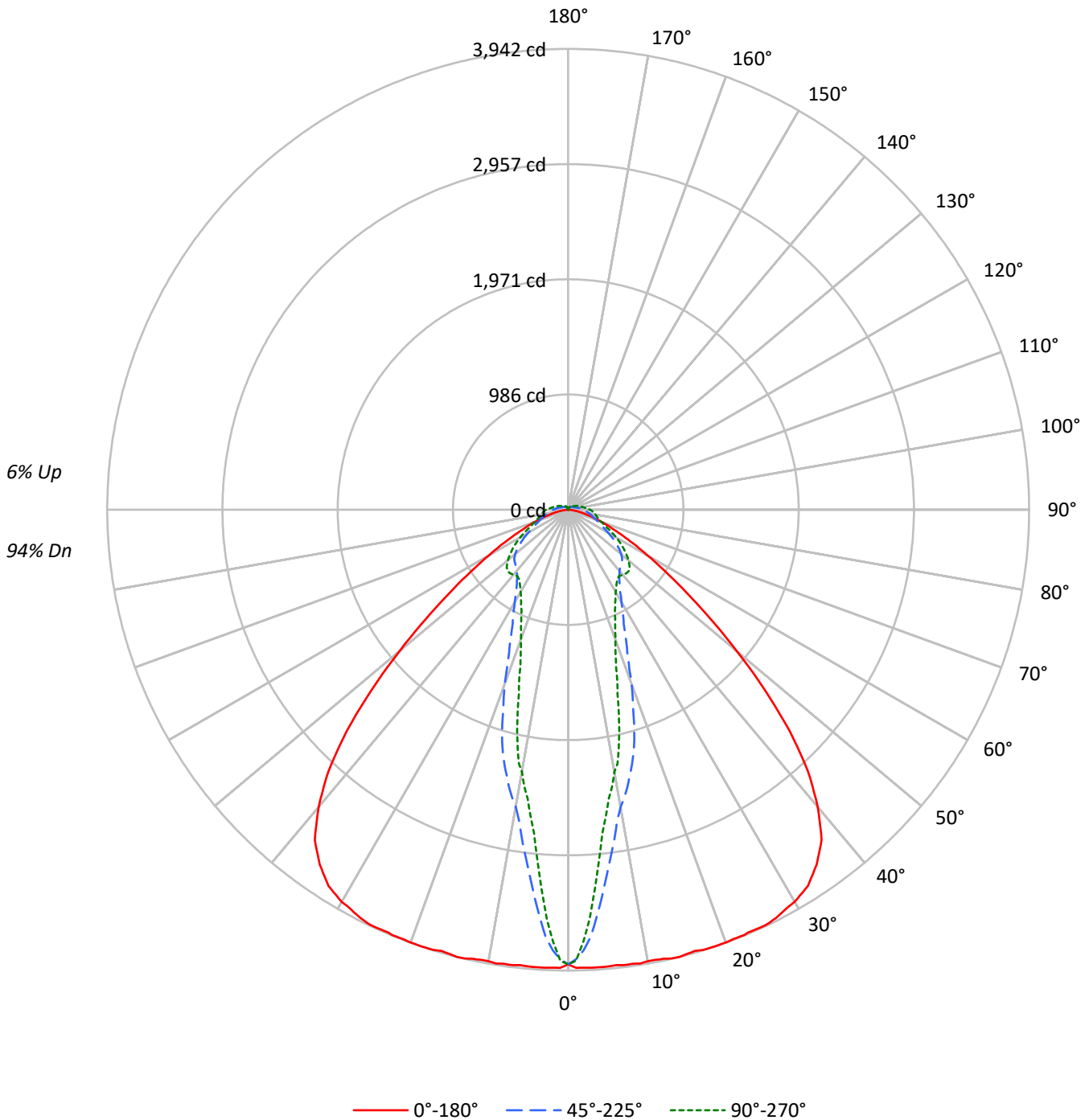
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4793.0 lumens
Efficiency: N/A
Efficacy: 160.8 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°	41853	41853	41853
5°	42231	34376	30771
10°	42562	25951	22270
15°	43338	21213	15421
20°	44456	15349	10891
25°	45844	10997	8568
30°	47014	8786	7296
35°	47293	7432	6535
40°	45087	6755	6552
45°	39126	6527	6730
50°	30016	6208	6280
55°	21752	5429	5573
60°	15782	4530	4712
65°	11487	3830	3862
70°	8463	3384	3331
75°	6011	3134	3105
80°	3941	2934	3057
85°	1849	2797	3062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	6.4
10°-20°	664.0	13.9
20°-30°	760.1	15.9
30°-40°	761.4	15.9
40°-50°	720.8	15.0
50°-60°	552.8	11.5
60°-70°	356.3	7.4
70°-80°	227.2	4.7
80°-90°	150.9	3.1
90°-100°	101.4	2.1
100°-110°	66.8	1.4
110°-120°	46.5	1.0
120°-130°	32.4	0.7
130°-140°	22.5	0.5
140°-150°	13.8	0.3
150°-160°	7.0	0.1
160°-170°	2.7	0.1
170°-180°	0.5	0.0
0°-30°	1729.9	36.1
0°-40°	2491.3	52.0
0°-60°	3764.9	78.5
0°-90°	4499.3	93.9
90°-120°	214.8	4.5
90°-150°	283.5	5.9
90°-180°	294.0	6.1
0°-180°	4793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3888	3888	3888	3888	3888	
5°	3923	3706	3321	3097	3014	375
15°	3932	2832	2159	1773	1631	1115
25°	3935	2004	1142	992	946	1814
35°	3704	1115	764	739	730	2298
45°	2677	705	644	712	737	2036
55°	1228	504	496	558	580	1129
65°	491	317	312	356	368	505
75°	167	172	216	248	260	184
85°	22	79	152	199	214	30
90°	0	54	128	177	184	1
95°	0	39	106	145	152	0
105°	0	30	69	98	106	2
115°	2	25	52	71	76	2
125°	2	22	44	52	54	2
135°	2	17	34	42	44	2
145°	2	12	25	32	34	2
155°	2	7	15	22	25	1
165°	5	5	10	12	15	1
175°	5	5	5	5	2	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3888.3	3888.3	3888.3	3888.3	3888.3
1°	3920.2	3898.1	3846.6	3861.3	3858.8
2°	3920.2	3873.6	3772.9	3743.4	3699.2
3°	3922.7	3831.8	3659.9	3564.1	3502.7
4°	3922.7	3770.4	3492.9	3333.2	3254.6
5°	3922.7	3706.5	3320.9	3097.4	3013.9
6°	3917.8	3630.4	3146.5	2910.7	2785.4
7°	3925.2	3546.9	2989.3	2736.3	2638.1
8°	3922.7	3448.6	2844.4	2603.7	2495.6
9°	3930.1	3352.8	2687.2	2478.4	2397.3
10°	3922.7	3264.4	2584.0	2360.5	2277.0
11°	3922.7	3178.4	2510.3	2284.4	2213.1
12°	3927.6	3080.2	2429.3	2176.3	2078.0
13°	3939.9	2979.5	2335.9	2058.4	1942.9
14°	3942.4	2903.3	2250.0	1908.5	1788.2
15°	3932.5	2832.1	2159.1	1773.4	1631.0
16°	3927.6	2758.4	2051.0	1645.7	1518.0
17°	3937.4	2672.4	1928.2	1515.5	1397.6
18°	3939.9	2593.8	1798.0	1417.3	1314.1
19°	3939.9	2532.4	1692.4	1326.4	1238.0
20°	3939.9	2473.5	1584.3	1257.6	1181.5
21°	3935.0	2399.8	1461.5	1186.4	1122.5
22.5°	3937.4	2262.2	1321.5	1102.9	1051.3
23°	3930.1	2227.9	1287.1	1080.8	1026.7
24°	3932.5	2129.6	1213.4	1036.6	985.0
25°	3935.0	2004.3	1142.2	992.3	945.7
26°	3930.1	1903.6	1083.2	950.6	918.7
27°	3917.8	1822.6	1041.5	916.2	886.7
28°	3900.6	1714.5	997.3	886.7	859.7
29°	3883.4	1591.7	953.0	854.8	835.1
30°	3873.6	1493.4	911.3	830.2	813.0
32.5°	3814.6	1299.4	825.3	781.1	766.4
35°	3704.1	1115.2	763.9	739.3	729.5
37.5°	3559.2	972.7	717.2	712.3	714.8
40°	3320.9	859.7	682.8	705.0	727.1
42.5°	3036.0	771.3	658.3	712.3	736.9
45°	2677.4	705.0	643.5	712.3	736.9
47.5°	2279.4	650.9	626.4	687.8	712.3
50°	1881.5	601.8	592.0	650.9	673.0
52.5°	1530.3	555.1	547.8	604.2	626.4
55°	1228.1	503.5	496.2	557.6	579.7
57.5°	985.0	454.4	447.0	503.5	525.6
60°	786.0	405.3	393.0	449.5	471.6
62.5°	626.4	358.6	351.3	400.4	420.0
65°	491.3	316.9	311.9	356.2	368.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	388.1	277.6	280.0	316.9	331.6
70°	299.7	240.7	255.5	289.8	299.7
72.5°	226.0	203.9	235.8	265.3	277.6
75°	167.0	171.9	216.2	248.1	260.4
77.5°	115.4	142.5	199.0	233.3	245.6
80°	78.6	115.4	181.8	221.1	235.8
82.5°	46.7	95.8	167.0	208.8	226.0
85°	22.1	78.6	152.3	199.0	213.7
87.5°	7.4	63.9	137.6	189.1	201.4
90°	0.0	54.0	127.7	176.9	184.2
92.5°	0.0	46.7	115.4	162.1	167.0
95°	0.0	39.3	105.6	144.9	152.3
97.5°	0.0	36.8	98.3	130.2	140.0
100°	0.0	34.4	88.4	117.9	127.7
102.5°	0.0	29.5	78.6	105.6	115.4
105°	0.0	29.5	68.8	98.3	105.6
107.5°	2.5	27.0	63.9	88.4	98.3
110°	2.5	27.0	56.5	83.5	90.9
112.5°	2.5	27.0	54.0	76.1	86.0
115°	2.5	24.6	51.6	71.2	76.1
117.5°	2.5	24.6	49.1	63.9	68.8
120°	2.5	22.1	46.7	59.0	61.4
122.5°	2.5	22.1	44.2	54.0	56.5
125°	2.5	22.1	44.2	51.6	54.0
127.5°	2.5	19.7	41.8	49.1	49.1
130°	2.5	19.7	39.3	46.7	46.7
132.5°	2.5	17.2	36.8	44.2	46.7
135°	2.5	17.2	34.4	41.8	44.2
137.5°	2.5	14.7	31.9	39.3	41.8
140°	2.5	14.7	29.5	36.8	39.3
142.5°	2.5	12.3	27.0	34.4	36.8
145°	2.5	12.3	24.6	31.9	34.4
147.5°	2.5	12.3	22.1	29.5	31.9
150°	2.5	9.8	19.7	27.0	29.5
152.5°	2.5	9.8	17.2	24.6	27.0
155°	2.5	7.4	14.7	22.1	24.6
157.5°	2.5	7.4	14.7	19.7	22.1
160°	4.9	7.4	12.3	17.2	19.7
162.5°	2.5	4.9	12.3	14.7	17.2
165°	4.9	4.9	9.8	12.3	14.7
167.5°	4.9	4.9	7.4	9.8	12.3
170°	4.9	4.9	7.4	7.4	9.8
172.5°	4.9	4.9	4.9	7.4	4.9
175°	4.9	4.9	4.9	4.9	2.5
177.5°	4.9	4.9	4.9	4.9	2.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)