

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: P566529

Luminaire Tested: **4SNX-51SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566529
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-51SL-LC-UNV-L850-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

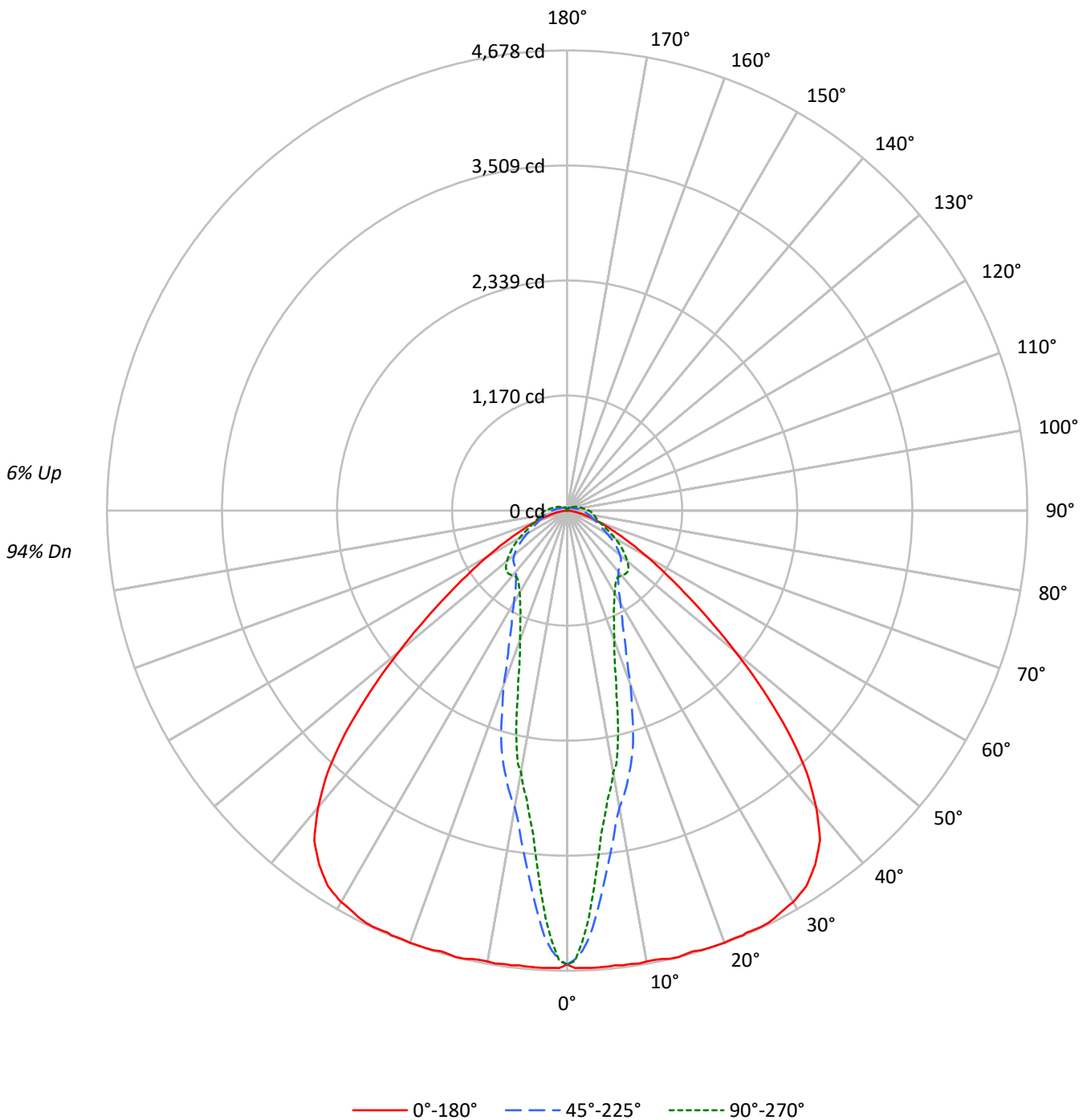
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5687.0 lumens
Efficiency: N/A
Efficacy: 162.5 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): 35
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°	49660	49660	49660
5°	50108	40788	36509
10°	50501	30792	26423
15°	51422	25170	18297
20°	52749	18212	12922
25°	54394	13048	10166
30°	55783	10425	8658
35°	56114	8818	7754
40°	53496	8016	7773
45°	46423	7745	7985
50°	35616	7366	7452
55°	25810	6441	6612
60°	18725	5375	5591
65°	13628	4545	4583
70°	10042	4014	3952
75°	7134	3718	3683
80°	4678	3481	3628
85°	2192	3318	3633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.8	6.4
10°-20°	787.9	13.9
20°-30°	901.8	15.9
30°-40°	903.5	15.9
40°-50°	855.2	15.0
50°-60°	655.9	11.5
60°-70°	422.8	7.4
70°-80°	269.6	4.7
80°-90°	179.0	3.1
90°-100°	120.4	2.1
100°-110°	79.3	1.4
110°-120°	55.1	1.0
120°-130°	38.5	0.7
130°-140°	26.7	0.5
140°-150°	16.4	0.3
150°-160°	8.3	0.1
160°-170°	3.2	0.1
170°-180°	0.6	0.0
0°-30°	2052.5	36.1
0°-40°	2956.0	52.0
0°-60°	4467.1	78.5
0°-90°	5338.6	93.9
90°-120°	254.8	4.5
90°-150°	336.3	5.9
90°-180°	348.0	6.1
0°-180°	5687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4614	4614	4614	4614	4614	
5°	4654	4398	3940	3675	3576	444
15°	4666	3360	2562	2104	1935	1323
25°	4669	2378	1355	1177	1122	2152
35°	4395	1323	906	877	866	2727
45°	3177	836	764	845	874	2415
55°	1457	598	589	662	688	1340
65°	583	376	370	423	437	600
75°	198	204	256	294	309	218
85°	26	93	181	236	254	36
90°	0	64	152	210	219	1
95°	0	47	125	172	181	0
105°	0	35	82	117	125	2
115°	3	29	61	84	90	3
125°	3	26	52	61	64	3
135°	3	20	41	50	52	2
145°	3	15	29	38	41	2
155°	3	9	18	26	29	1
165°	6	6	12	15	18	1
175°	6	6	6	6	3	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4613.6	4613.6	4613.6	4613.6	4613.6
1°	4651.5	4625.2	4564.0	4581.5	4578.6
2°	4651.5	4596.1	4476.6	4441.6	4389.2
3°	4654.4	4546.5	4342.5	4228.9	4156.0
4°	4654.4	4473.7	4144.3	3954.9	3861.6
5°	4654.4	4397.9	3940.3	3675.1	3576.0
6°	4648.5	4307.6	3733.4	3453.6	3305.0
7°	4657.3	4208.5	3546.9	3246.7	3130.1
8°	4654.4	4091.9	3374.9	3089.3	2961.1
9°	4663.1	3978.2	3188.4	2940.7	2844.5
10°	4654.4	3873.3	3066.0	2800.8	2701.7
11°	4654.4	3771.3	2978.6	2710.4	2625.9
12°	4660.2	3654.7	2882.4	2582.2	2465.6
13°	4674.8	3535.2	2771.6	2442.3	2305.3
14°	4677.7	3444.9	2669.6	2264.5	2121.7
15°	4666.0	3360.4	2561.8	2104.2	1935.2
16°	4660.2	3272.9	2433.6	1952.7	1801.1
17°	4671.9	3170.9	2287.8	1798.2	1658.3
18°	4674.8	3077.7	2133.4	1681.6	1559.2
19°	4674.8	3004.8	2008.1	1573.8	1468.9
20°	4674.8	2934.8	1879.8	1492.2	1401.8
21°	4668.9	2847.4	1734.1	1407.7	1331.9
22.5°	4671.9	2684.2	1568.0	1308.6	1247.4
23°	4663.1	2643.4	1527.2	1282.4	1218.2
24°	4666.0	2526.8	1439.7	1229.9	1168.7
25°	4668.9	2378.2	1355.2	1177.4	1122.1
26°	4663.1	2258.7	1285.3	1127.9	1090.0
27°	4648.5	2162.5	1235.7	1087.1	1052.1
28°	4628.1	2034.3	1183.3	1052.1	1020.1
29°	4607.7	1888.6	1130.8	1014.2	990.9
30°	4596.1	1772.0	1081.3	985.1	964.7
32.5°	4526.1	1541.7	979.3	926.8	909.3
35°	4395.0	1323.2	906.4	877.2	865.6
37.5°	4223.0	1154.1	851.0	845.2	848.1
40°	3940.3	1020.1	810.2	836.4	862.7
42.5°	3602.3	915.1	781.1	845.2	874.3
45°	3176.7	836.4	763.6	845.2	874.3
47.5°	2704.6	772.3	743.2	816.0	845.2
50°	2232.5	714.0	702.4	772.3	798.6
52.5°	1815.7	658.7	649.9	717.0	743.2
55°	1457.2	597.5	588.7	661.6	687.8
57.5°	1168.7	539.2	530.4	597.5	623.7
60°	932.6	480.9	466.3	533.3	559.6
62.5°	743.2	425.5	416.8	475.1	498.4
65°	582.9	376.0	370.1	422.6	437.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	460.5	329.3	332.2	376.0	393.5
70°	355.6	285.6	303.1	343.9	355.6
72.5°	268.1	241.9	279.8	314.8	329.3
75°	198.2	204.0	256.5	294.4	308.9
77.5°	137.0	169.0	236.1	276.9	291.4
80°	93.3	137.0	215.7	262.3	279.8
82.5°	55.4	113.7	198.2	247.7	268.1
85°	26.2	93.3	180.7	236.1	253.6
87.5°	8.7	75.8	163.2	224.4	239.0
90°	0.0	64.1	151.6	209.8	218.6
92.5°	0.0	55.4	137.0	192.4	198.2
95°	0.0	46.6	125.3	172.0	180.7
97.5°	0.0	43.7	116.6	154.5	166.1
100°	0.0	40.8	104.9	139.9	151.6
102.5°	0.0	35.0	93.3	125.3	137.0
105°	0.0	35.0	81.6	116.6	125.3
107.5°	2.9	32.1	75.8	104.9	116.6
110°	2.9	32.1	67.0	99.1	107.8
112.5°	2.9	32.1	64.1	90.3	102.0
115°	2.9	29.1	61.2	84.5	90.3
117.5°	2.9	29.1	58.3	75.8	81.6
120°	2.9	26.2	55.4	69.9	72.9
122.5°	2.9	26.2	52.5	64.1	67.0
125°	2.9	26.2	52.5	61.2	64.1
127.5°	2.9	23.3	49.5	58.3	58.3
130°	2.9	23.3	46.6	55.4	55.4
132.5°	2.9	20.4	43.7	52.5	55.4
135°	2.9	20.4	40.8	49.5	52.5
137.5°	2.9	17.5	37.9	46.6	49.5
140°	2.9	17.5	35.0	43.7	46.6
142.5°	2.9	14.6	32.1	40.8	43.7
145°	2.9	14.6	29.1	37.9	40.8
147.5°	2.9	14.6	26.2	35.0	37.9
150°	2.9	11.7	23.3	32.1	35.0
152.5°	2.9	11.7	20.4	29.1	32.1
155°	2.9	8.7	17.5	26.2	29.1
157.5°	2.9	8.7	17.5	23.3	26.2
160°	5.8	8.7	14.6	20.4	23.3
162.5°	2.9	5.8	14.6	17.5	20.4
165°	5.8	5.8	11.7	14.6	17.5
167.5°	5.8	5.8	8.7	11.7	14.6
170°	5.8	5.8	8.7	8.7	11.7
172.5°	5.8	5.8	5.8	8.7	5.8
175°	5.8	5.8	5.8	5.8	2.9
177.5°	5.8	5.8	5.8	5.8	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)