

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: P566336

Luminaire Tested: **4SNX-37SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566336
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-37SL-LC-UNV-L840-CD
Description: 4FT 3700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

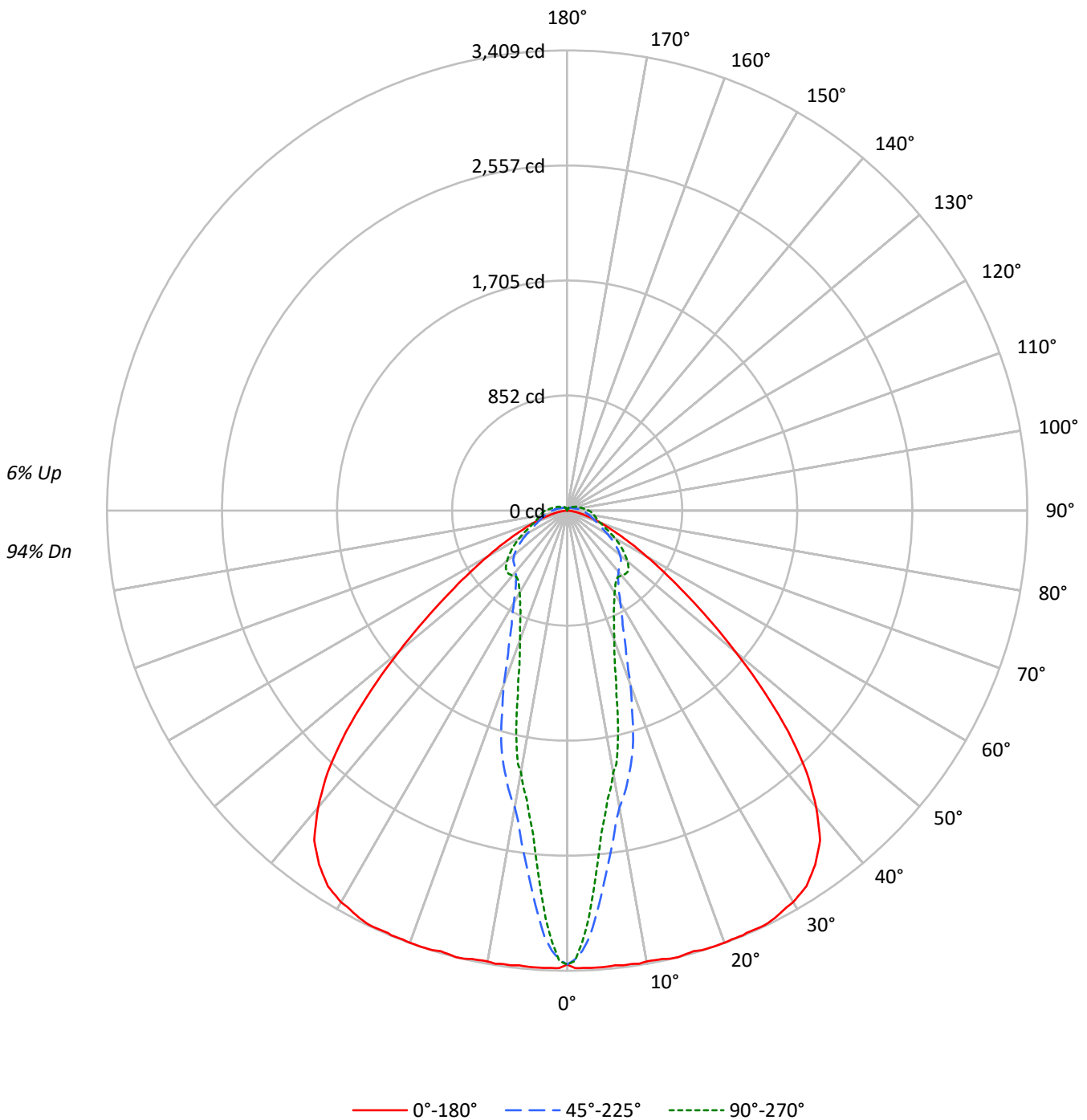
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4145.0 lumens
Efficiency: N/A
Efficacy: 172.7 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): 24
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°	36195	36195	36195
5°	36522	29728	26610
10°	36808	22443	19258
15°	37480	18345	13336
20°	38445	13274	9418
25°	39646	9510	7409
30°	40658	7598	6310
35°	40899	6427	5652
40°	38991	5842	5666
45°	33836	5644	5821
50°	25958	5368	5431
55°	18812	4695	4819
60°	13648	3918	4074
65°	9932	3313	3340
70°	7319	2926	2881
75°	5197	2709	2685
80°	3409	2537	2644
85°	1598	2419	2648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	6.4
10°-20°	574.2	13.9
20°-30°	657.3	15.9
30°-40°	658.5	15.9
40°-50°	623.3	15.0
50°-60°	478.1	11.5
60°-70°	308.1	7.4
70°-80°	196.5	4.7
80°-90°	130.5	3.1
90°-100°	87.7	2.1
100°-110°	57.8	1.4
110°-120°	40.2	1.0
120°-130°	28.0	0.7
130°-140°	19.5	0.5
140°-150°	11.9	0.3
150°-160°	6.0	0.1
160°-170°	2.3	0.1
170°-180°	0.4	0.0
0°-30°	1496.0	36.1
0°-40°	2154.5	52.0
0°-60°	3255.9	78.6
0°-90°	3891.0	93.9
90°-120°	185.7	4.5
90°-150°	245.1	5.9
90°-180°	254.0	6.1
0°-180°	4145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3363	3363	3363	3363	3363	
5°	3392	3205	2872	2679	2606	324
15°	3401	2449	1867	1534	1410	965
25°	3403	1733	988	858	818	1569
35°	3203	964	661	639	631	1987
45°	2315	610	556	616	637	1760
55°	1062	436	429	482	501	977
65°	425	274	270	308	319	437
75°	144	149	187	214	225	159
85°	19	68	132	172	185	26
90°	0	47	110	153	159	1
95°	0	34	91	125	132	0
105°	0	26	60	85	91	1
115°	2	21	45	62	66	2
125°	2	19	38	45	47	2
135°	2	15	30	36	38	2
145°	2	11	21	28	30	1
155°	2	6	13	19	21	1
165°	4	4	8	11	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-37SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3362.6	3362.6	3362.6	3362.6	3362.6
1°	3390.2	3371.1	3326.5	3339.3	3337.1
2°	3390.2	3349.9	3262.8	3237.3	3199.1
3°	3392.4	3313.8	3165.1	3082.2	3029.1
4°	3392.4	3260.7	3020.6	2882.6	2814.6
5°	3392.4	3205.4	2871.9	2678.6	2606.4
6°	3388.1	3139.6	2721.1	2517.2	2408.9
7°	3394.5	3067.4	2585.2	2366.4	2281.4
8°	3392.4	2982.4	2459.8	2251.7	2158.2
9°	3398.7	2899.5	2323.9	2143.3	2073.2
10°	3392.4	2823.1	2234.7	2041.4	1969.1
11°	3392.4	2748.7	2170.9	1975.5	1913.9
12°	3396.6	2663.8	2100.8	1882.1	1797.1
13°	3407.2	2576.7	2020.1	1780.1	1680.3
14°	3409.4	2510.8	1945.8	1650.5	1546.4
15°	3400.9	2449.2	1867.2	1533.7	1410.5
16°	3396.6	2385.5	1773.7	1423.2	1312.8
17°	3405.1	2311.1	1667.5	1310.6	1208.7
18°	3407.2	2243.2	1554.9	1225.7	1136.5
19°	3407.2	2190.1	1463.6	1147.1	1070.6
20°	3407.2	2139.1	1370.1	1087.6	1021.7
21°	3403.0	2075.4	1263.9	1026.0	970.8
22.5°	3405.1	1956.4	1142.8	953.8	909.2
23°	3398.7	1926.7	1113.1	934.7	887.9
24°	3400.9	1841.7	1049.4	896.4	851.8
25°	3403.0	1733.4	987.8	858.2	817.8
26°	3398.7	1646.3	936.8	822.1	794.5
27°	3388.1	1576.2	900.7	792.3	766.8
28°	3373.2	1482.7	862.4	766.8	743.5
29°	3358.4	1376.5	824.2	739.2	722.2
30°	3349.9	1291.5	788.1	718.0	703.1
32.5°	3298.9	1123.7	713.7	675.5	662.8
35°	3203.3	964.4	660.6	639.4	630.9
37.5°	3078.0	841.2	620.3	616.0	618.1
40°	2871.9	743.5	590.5	609.6	628.8
42.5°	2625.5	667.0	569.3	616.0	637.3
45°	2315.4	609.6	556.5	616.0	637.3
47.5°	1971.3	562.9	541.7	594.8	616.0
50°	1627.1	520.4	511.9	562.9	582.0
52.5°	1323.4	480.1	473.7	522.6	541.7
55°	1062.1	435.5	429.1	482.2	501.3
57.5°	851.8	393.0	386.6	435.5	454.6
60°	679.7	350.5	339.9	388.7	407.8
62.5°	541.7	310.1	303.8	346.2	363.2
65°	424.8	274.0	269.8	308.0	318.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	335.6	240.0	242.2	274.0	286.8
70°	259.2	208.2	220.9	250.7	259.2
72.5°	195.4	176.3	203.9	229.4	240.0
75°	144.4	148.7	186.9	214.5	225.2
77.5°	99.8	123.2	172.1	201.8	212.4
80°	68.0	99.8	157.2	191.2	203.9
82.5°	40.4	82.8	144.4	180.6	195.4
85°	19.1	68.0	131.7	172.1	184.8
87.5°	6.4	55.2	119.0	163.6	174.2
90°	0.0	46.7	110.5	152.9	159.3
92.5°	0.0	40.4	99.8	140.2	144.4
95°	0.0	34.0	91.3	125.3	131.7
97.5°	0.0	31.9	85.0	112.6	121.1
100°	0.0	29.7	76.5	102.0	110.5
102.5°	0.0	25.5	68.0	91.3	99.8
105°	0.0	25.5	59.5	85.0	91.3
107.5°	2.1	23.4	55.2	76.5	85.0
110°	2.1	23.4	48.9	72.2	78.6
112.5°	2.1	23.4	46.7	65.9	74.3
115°	2.1	21.2	44.6	61.6	65.9
117.5°	2.1	21.2	42.5	55.2	59.5
120°	2.1	19.1	40.4	51.0	53.1
122.5°	2.1	19.1	38.2	46.7	48.9
125°	2.1	19.1	38.2	44.6	46.7
127.5°	2.1	17.0	36.1	42.5	42.5
130°	2.1	17.0	34.0	40.4	40.4
132.5°	2.1	14.9	31.9	38.2	40.4
135°	2.1	14.9	29.7	36.1	38.2
137.5°	2.1	12.7	27.6	34.0	36.1
140°	2.1	12.7	25.5	31.9	34.0
142.5°	2.1	10.6	23.4	29.7	31.9
145°	2.1	10.6	21.2	27.6	29.7
147.5°	2.1	10.6	19.1	25.5	27.6
150°	2.1	8.5	17.0	23.4	25.5
152.5°	2.1	8.5	14.9	21.2	23.4
155°	2.1	6.4	12.7	19.1	21.2
157.5°	2.1	6.4	12.7	17.0	19.1
160°	4.2	6.4	10.6	14.9	17.0
162.5°	2.1	4.2	10.6	12.7	14.9
165°	4.2	4.2	8.5	10.6	12.7
167.5°	4.2	4.2	6.4	8.5	10.6
170°	4.2	4.2	6.4	6.4	8.5
172.5°	4.2	4.2	4.2	6.4	4.2
175°	4.2	4.2	4.2	4.2	2.1
177.5°	4.2	4.2	4.2	4.2	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)