

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: P566766

Luminaire Tested: **4SNX-74HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-74HL-LC-UNV-L830-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

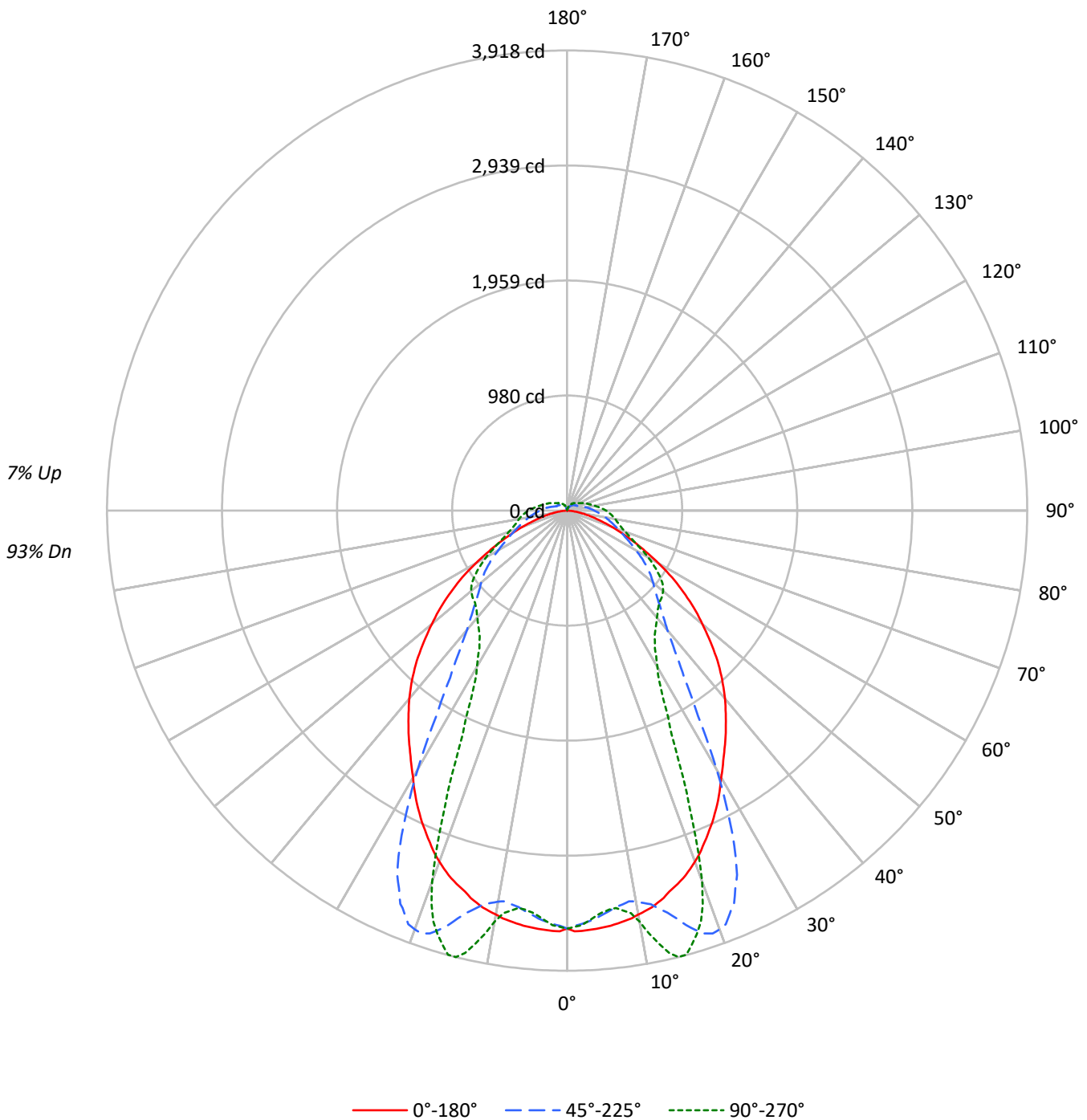
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7909.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 51.8
Input Voltage (V): NR
Input Current (A_{in}): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	37	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38306	38306	38306
5°	38351	35750	35063
10°	37891	33944	34769
15°	37009	35308	37014
20°	35890	36771	30978
25°	34088	32960	19048
30°	31848	24530	13785
35°	30018	16917	11629
40°	28379	13118	10717
45°	26470	11158	10135
50°	23984	10004	9950
55°	21366	9037	9206
60°	18015	7809	7963
65°	14540	6792	6646
70°	11287	6094	5852
75°	8606	5653	5457
80°	5871	5341	5401
85°	3028	5078	5363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	4.2
10°-20°	1011.9	12.8
20°-30°	1362.5	17.2
30°-40°	1289.4	16.3
40°-50°	1138.1	14.4
50°-60°	924.4	11.7
60°-70°	628.7	7.9
70°-80°	404.5	5.1
80°-90°	269.0	3.4
90°-100°	184.9	2.3
100°-110°	124.1	1.6
110°-120°	87.5	1.1
120°-130°	62.5	0.8
130°-140°	44.1	0.6
140°-150°	27.4	0.3
150°-160°	13.4	0.2
160°-170°	4.7	0.1
170°-180°	0.8	0.0
0°-30°	2705.5	34.2
0°-40°	3994.9	50.5
0°-60°	6057.4	76.6
0°-90°	7359.6	93.1
90°-120°	396.5	5.0
90°-150°	530.5	6.7
90°-180°	549.0	6.9
0°-180°	7909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3559	3559	3559	3559	3559	
5°	3562	3530	3454	3451	3434	338
15°	3358	3336	3594	3911	3915	947
25°	2926	3469	3423	2486	2102	1343
35°	2351	3299	1739	1339	1298	1471
45°	1811	2220	1100	1087	1110	1391
55°	1206	1313	826	923	958	1077
65°	622	708	553	615	634	624
75°	239	334	390	437	458	260
85°	36	142	276	350	374	47
90°	1	99	231	310	331	2
95°	1	76	194	263	281	1
105°	2	53	128	180	202	2
115°	2	46	94	134	151	3
125°	4	39	81	101	109	3
135°	5	30	66	84	89	4
145°	5	22	47	65	71	3
155°	6	13	29	44	50	3
165°	6	8	16	22	27	2
175°	7	7	7	7	6	1
180°	6	6	6	6	6	



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CATALOG NUMBER: 4SNX-74HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3558.7	3558.7	3558.7	3558.7	3558.7
1°	3582.8	3571.9	3535.7	3555.0	3545.4
2°	3581.6	3563.5	3522.4	3544.2	3532.1
3°	3575.6	3556.2	3503.1	3516.4	3498.3
4°	3569.5	3546.6	3482.6	3482.6	3462.1
5°	3562.3	3529.7	3453.6	3451.2	3434.3
6°	3553.8	3516.4	3428.2	3425.8	3416.2
7°	3541.8	3493.5	3400.5	3417.4	3410.1
8°	3527.3	3471.7	3386.0	3428.2	3439.1
9°	3514.0	3445.2	3369.1	3462.1	3470.5
10°	3492.2	3421.0	3379.9	3529.7	3555.0
11°	3474.1	3400.5	3404.1	3596.1	3672.2
12°	3456.0	3378.7	3427.0	3679.4	3772.4
13°	3425.8	3361.8	3477.8	3770.0	3865.4
14°	3399.3	3348.5	3527.3	3861.8	3918.5
15°	3358.2	3336.5	3593.7	3911.3	3914.9
16°	3330.4	3328.0	3671.0	3914.9	3847.3
17°	3299.0	3324.4	3733.8	3852.1	3772.4
18°	3264.0	3331.6	3785.7	3773.6	3681.8
19°	3224.2	3338.9	3807.4	3664.9	3546.6
20°	3180.7	3349.8	3795.3	3551.4	3360.6
21°	3137.2	3364.2	3772.4	3431.9	3116.7
22.5°	3056.3	3399.3	3663.7	3096.2	2713.4
23°	3033.4	3406.5	3638.4	2991.1	2608.3
24°	2976.6	3436.7	3522.4	2746.0	2330.6
25°	2925.9	3469.3	3423.4	2486.4	2102.4
26°	2869.1	3493.5	3273.7	2247.3	1962.3
27°	2813.6	3507.9	3103.4	2061.3	1805.3
28°	2749.6	3523.6	2918.7	1900.7	1687.0
29°	2689.2	3526.1	2736.3	1772.7	1594.0
30°	2624.0	3514.0	2544.3	1670.0	1536.0
32.5°	2481.5	3447.6	2074.6	1474.4	1391.1
35°	2351.1	3299.0	1738.9	1339.2	1298.1
37.5°	2219.5	3064.8	1503.4	1254.6	1241.4
40°	2090.3	2787.0	1325.9	1187.0	1189.4
42.5°	1953.8	2500.8	1203.9	1131.5	1142.3
45°	1811.3	2219.5	1100.1	1086.8	1109.7
47.5°	1653.1	1962.3	1018.0	1057.8	1092.8
50°	1503.4	1707.5	954.0	1030.0	1066.3
52.5°	1360.9	1498.6	896.0	982.9	1025.2
55°	1206.3	1312.6	826.0	922.6	957.6
57.5°	1059.0	1144.8	752.3	847.7	879.1
60°	897.2	979.3	677.4	766.8	797.0
62.5°	751.1	838.0	613.4	685.9	710.0
65°	621.9	707.6	553.1	614.6	634.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	507.2	598.9	503.5	555.5	573.6
70°	399.7	496.3	460.1	507.2	526.5
72.5°	312.8	410.6	423.9	467.3	486.6
75°	239.1	334.5	390.0	437.1	457.7
77.5°	177.5	272.9	358.6	413.0	434.7
80°	117.1	217.4	330.9	391.2	416.6
82.5°	73.7	175.1	303.1	369.5	396.1
85°	36.2	142.5	276.5	350.2	374.3
87.5°	12.1	118.3	252.4	330.9	351.4
90°	1.2	99.0	230.6	310.3	330.9
92.5°	1.2	85.7	212.5	286.2	306.7
95°	1.2	76.1	194.4	263.2	281.4
97.5°	1.2	68.8	177.5	239.1	258.4
100°	1.2	61.6	159.4	216.2	236.7
102.5°	2.4	56.8	143.7	196.8	218.6
105°	2.4	53.1	128.0	179.9	201.7
107.5°	2.4	50.7	114.7	166.6	187.2
110°	2.4	48.3	105.1	154.6	176.3
112.5°	2.4	47.1	99.0	143.7	164.2
115°	2.4	45.9	94.2	134.0	150.9
117.5°	3.6	44.7	90.6	124.4	137.7
120°	3.6	42.3	88.2	115.9	126.8
122.5°	3.6	39.8	84.5	108.7	117.1
125°	3.6	38.6	80.9	101.4	108.7
127.5°	3.6	36.2	77.3	95.4	102.6
130°	4.8	33.8	73.7	90.6	96.6
132.5°	4.8	31.4	70.0	88.2	93.0
135°	4.8	30.2	66.4	84.5	89.4
137.5°	4.8	27.8	62.8	80.9	85.7
140°	4.8	25.4	58.0	76.1	80.9
142.5°	4.8	24.2	53.1	71.2	76.1
145°	4.8	21.7	47.1	65.2	71.2
147.5°	6.0	20.5	42.3	60.4	65.2
150°	6.0	18.1	37.4	55.5	60.4
152.5°	6.0	15.7	32.6	49.5	54.3
155°	6.0	13.3	29.0	43.5	49.5
157.5°	6.0	12.1	25.4	36.2	43.5
160°	6.0	10.9	21.7	31.4	37.4
162.5°	6.0	9.7	19.3	26.6	32.6
165°	6.0	8.5	15.7	21.7	26.6
167.5°	7.2	8.5	13.3	16.9	21.7
170°	7.2	8.5	10.9	13.3	16.9
172.5°	7.2	7.2	8.5	9.7	10.9
175°	7.2	7.2	7.2	7.2	6.0
177.5°	7.2	7.2	7.2	6.0	6.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)