

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: P566868

Luminaire Tested: **4SNX-84HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566868
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-84HL-LC-UNV-L940-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

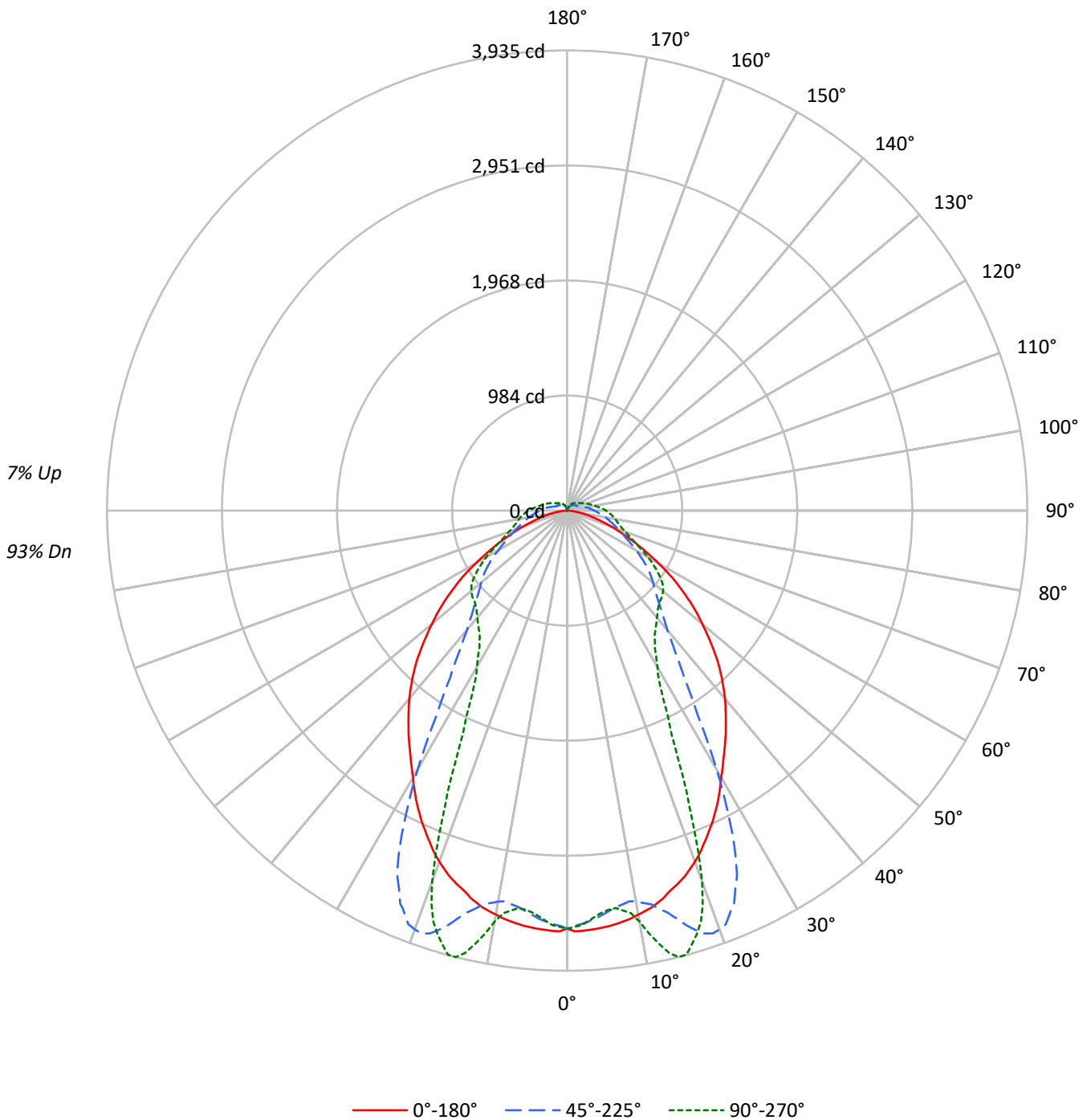
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7943.0 lumens
Efficiency: N/A
Efficacy: 137.2 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): 57.9
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	36	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°	38470	38470	38470
5°	38516	35903	35213
10°	38055	34091	34918
15°	37168	35459	37173
20°	36044	36930	31112
25°	34234	33102	19129
30°	31985	24636	13844
35°	30147	16990	11679
40°	28501	13174	10764
45°	26584	11205	10179
50°	24088	10047	9993
55°	21458	9075	9245
60°	18093	7842	7997
65°	14603	6820	6674
70°	11335	6120	5877
75°	8642	5677	5480
80°	5896	5363	5425
85°	3045	5100	5387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	4.2
10°-20°	1016.2	12.8
20°-30°	1368.3	17.2
30°-40°	1295.0	16.3
40°-50°	1143.0	14.4
50°-60°	928.4	11.7
60°-70°	631.4	7.9
70°-80°	406.3	5.1
80°-90°	270.1	3.4
90°-100°	185.7	2.3
100°-110°	124.6	1.6
110°-120°	87.9	1.1
120°-130°	62.8	0.8
130°-140°	44.3	0.6
140°-150°	27.5	0.3
150°-160°	13.4	0.2
160°-170°	4.7	0.1
170°-180°	0.8	0.0
0°-30°	2717.1	34.2
0°-40°	4012.1	50.5
0°-60°	6083.5	76.6
0°-90°	7391.3	93.1
90°-120°	398.2	5.0
90°-150°	532.8	6.7
90°-180°	552.0	6.9
0°-180°	7943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3574	3574	3574	3574	3574	
5°	3578	3545	3468	3466	3449	339
15°	3373	3351	3609	3928	3932	951
25°	2938	3484	3438	2497	2111	1348
35°	2361	3313	1746	1345	1304	1478
45°	1819	2229	1105	1092	1114	1397
55°	1212	1318	830	926	962	1082
65°	625	711	555	617	637	627
75°	240	336	392	439	460	261
85°	36	143	278	352	376	48
90°	1	99	232	312	332	2
95°	1	76	195	264	283	1
105°	2	53	129	181	202	2
115°	2	46	95	135	152	3
125°	4	39	81	102	109	3
135°	5	30	67	85	90	4
145°	5	22	47	66	72	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3574.0	3574.0	3574.0	3574.0	3574.0
1°	3598.2	3587.3	3550.9	3570.3	3560.6
2°	3597.0	3578.8	3537.6	3559.4	3547.3
3°	3590.9	3571.5	3518.2	3531.5	3513.3
4°	3584.9	3561.8	3497.6	3497.6	3476.9
5°	3577.6	3544.9	3468.4	3466.0	3449.0
6°	3569.1	3531.5	3443.0	3440.6	3430.9
7°	3557.0	3508.5	3415.1	3432.1	3424.8
8°	3542.4	3486.6	3400.5	3443.0	3453.9
9°	3529.1	3460.0	3383.6	3476.9	3485.4
10°	3507.3	3435.7	3394.5	3544.9	3570.3
11°	3489.1	3415.1	3418.7	3611.6	3688.0
12°	3470.9	3393.3	3441.8	3695.2	3788.6
13°	3440.6	3376.3	3492.7	3786.2	3882.0
14°	3413.9	3362.9	3542.4	3878.4	3935.4
15°	3372.6	3350.8	3609.1	3928.1	3931.7
16°	3344.7	3342.3	3686.7	3931.7	3863.8
17°	3313.2	3338.7	3749.8	3868.7	3788.6
18°	3278.0	3346.0	3802.0	3789.8	3697.7
19°	3238.0	3353.2	3823.8	3680.7	3561.8
20°	3194.4	3364.2	3811.7	3566.7	3375.1
21°	3150.7	3378.7	3788.6	3446.6	3130.1
22.5°	3069.5	3413.9	3679.5	3109.5	2725.0
23°	3046.4	3421.2	3654.0	3004.0	2619.5
24°	2989.4	3451.5	3537.6	2757.8	2340.6
25°	2938.5	3484.2	3438.1	2497.0	2111.4
26°	2881.5	3508.5	3287.8	2256.9	1970.7
27°	2825.7	3523.0	3116.8	2070.2	1813.1
28°	2761.4	3538.8	2931.2	1908.9	1694.2
29°	2700.8	3541.2	2748.1	1780.3	1600.8
30°	2635.3	3529.1	2555.3	1677.2	1542.6
32.5°	2492.2	3462.4	2083.5	1480.8	1397.1
35°	2361.2	3313.2	1746.4	1344.9	1303.7
37.5°	2229.0	3077.9	1509.9	1260.0	1246.7
40°	2099.3	2799.0	1331.6	1192.1	1194.6
42.5°	1962.2	2511.6	1209.1	1136.3	1147.3
45°	1819.1	2229.0	1104.8	1091.5	1114.5
47.5°	1660.2	1970.7	1022.3	1062.4	1097.5
50°	1509.9	1714.8	958.1	1034.5	1070.9
52.5°	1366.8	1505.0	899.9	987.2	1029.6
55°	1211.5	1318.3	829.5	926.5	961.7
57.5°	1063.6	1149.7	755.5	851.3	882.9
60°	901.1	983.5	680.3	770.1	800.4
62.5°	754.3	841.6	616.1	688.8	713.1
65°	624.6	710.7	555.4	617.3	636.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	509.4	601.5	505.7	557.9	576.1
70°	401.4	498.4	462.1	509.4	528.8
72.5°	314.1	412.3	425.7	469.3	488.7
75°	240.1	335.9	391.7	439.0	459.6
77.5°	178.3	274.1	360.2	414.8	436.6
80°	117.6	218.3	332.3	392.9	418.4
82.5°	74.0	175.8	304.4	371.1	397.8
85°	36.4	143.1	277.7	351.7	376.0
87.5°	12.1	118.8	253.5	332.3	352.9
90°	1.2	99.4	231.6	311.7	332.3
92.5°	1.2	86.1	213.4	287.4	308.0
95°	1.2	76.4	195.3	264.4	282.6
97.5°	1.2	69.1	178.3	240.1	259.5
100°	1.2	61.8	160.1	217.1	237.7
102.5°	2.4	57.0	144.3	197.7	219.5
105°	2.4	53.4	128.6	180.7	202.5
107.5°	2.4	50.9	115.2	167.4	188.0
110°	2.4	48.5	105.5	155.2	177.1
112.5°	2.4	47.3	99.4	144.3	164.9
115°	2.4	46.1	94.6	134.6	151.6
117.5°	3.6	44.9	91.0	124.9	138.3
120°	3.6	42.4	88.5	116.4	127.3
122.5°	3.6	40.0	84.9	109.1	117.6
125°	3.6	38.8	81.3	101.9	109.1
127.5°	3.6	36.4	77.6	95.8	103.1
130°	4.9	34.0	74.0	91.0	97.0
132.5°	4.9	31.5	70.3	88.5	93.4
135°	4.9	30.3	66.7	84.9	89.7
137.5°	4.9	27.9	63.1	81.3	86.1
140°	4.9	25.5	58.2	76.4	81.3
142.5°	4.9	24.3	53.4	71.6	76.4
145°	4.9	21.8	47.3	65.5	71.6
147.5°	6.1	20.6	42.4	60.6	65.5
150°	6.1	18.2	37.6	55.8	60.6
152.5°	6.1	15.8	32.7	49.7	54.6
155°	6.1	13.3	29.1	43.7	49.7
157.5°	6.1	12.1	25.5	36.4	43.7
160°	6.1	10.9	21.8	31.5	37.6
162.5°	6.1	9.7	19.4	26.7	32.7
165°	6.1	8.5	15.8	21.8	26.7
167.5°	7.3	8.5	13.3	17.0	21.8
170°	7.3	8.5	10.9	13.3	17.0
172.5°	7.3	7.3	8.5	9.7	10.9
175°	7.3	7.3	7.3	7.3	6.1
177.5°	7.3	7.3	7.3	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)