

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: P566815

Luminaire Tested: **4SNX-81HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566815
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-81HL-LC-UNV-L835-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

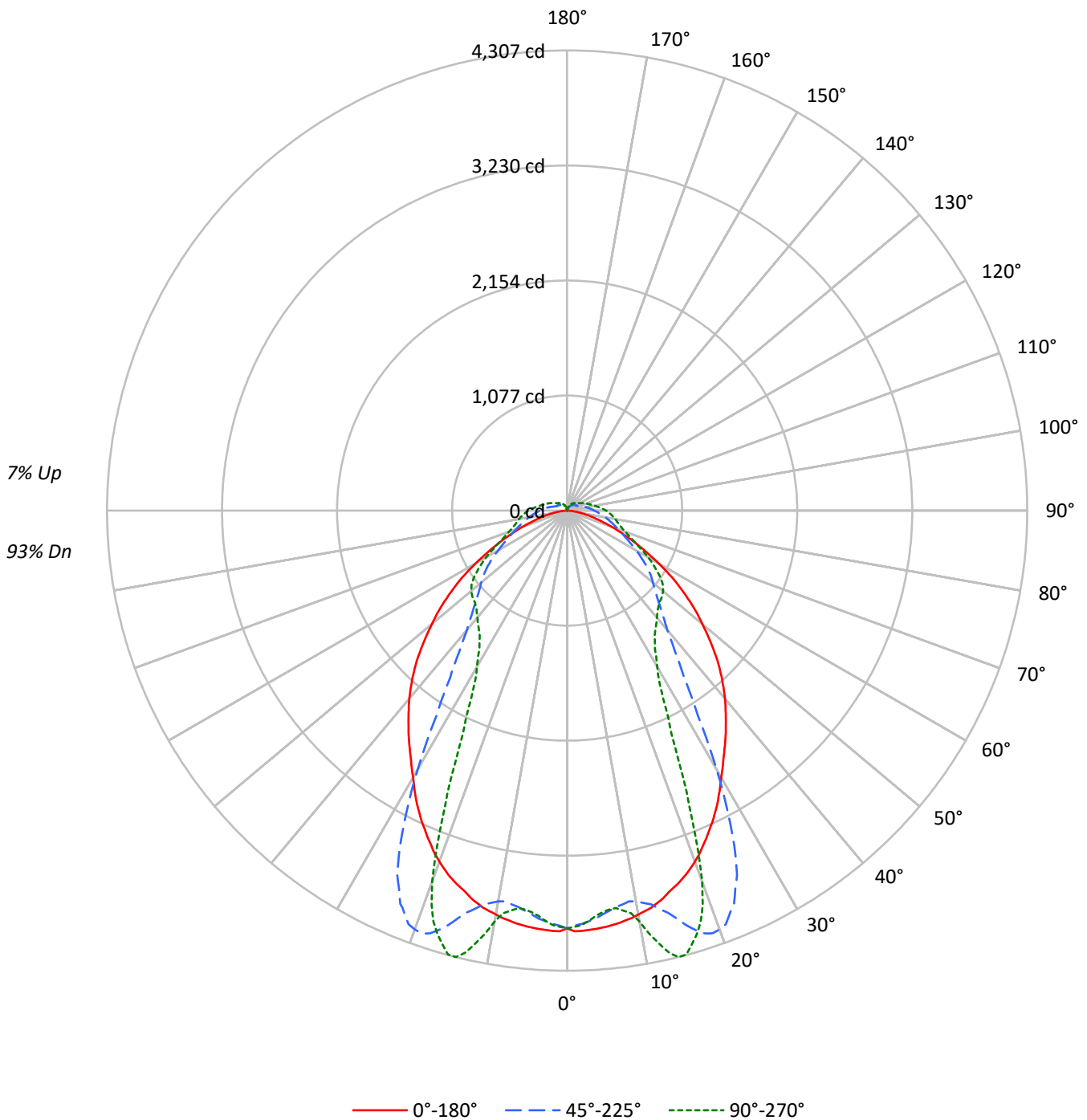
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8693.0 lumens
Efficiency: N/A
Efficacy: 157.8 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): 55.1
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	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°	42102	42102	42102
5°	42152	39294	38538
10°	41648	37310	38215
15°	40678	38808	40683
20°	39447	40416	34049
25°	37466	36228	20936
30°	35005	26961	15152
35°	32995	18593	12782
40°	31192	14417	11780
45°	29094	12263	11140
50°	26362	10995	10937
55°	23485	9932	10118
60°	19802	8583	8752
65°	15981	7465	7304
70°	12405	6698	6432
75°	9459	6214	5997
80°	6453	5870	5937
85°	3330	5581	5894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.0	4.2
10°-20°	1112.2	12.8
20°-30°	1497.5	17.2
30°-40°	1417.3	16.3
40°-50°	1250.9	14.4
50°-60°	1016.0	11.7
60°-70°	691.0	7.9
70°-80°	444.6	5.1
80°-90°	295.6	3.4
90°-100°	203.2	2.3
100°-110°	136.4	1.6
110°-120°	96.2	1.1
120°-130°	68.7	0.8
130°-140°	48.5	0.6
140°-150°	30.1	0.3
150°-160°	14.7	0.2
160°-170°	5.1	0.1
170°-180°	0.9	0.0
0°-30°	2973.6	34.2
0°-40°	4390.9	50.5
0°-60°	6657.9	76.6
0°-90°	8089.1	93.1
90°-120°	435.8	5.0
90°-150°	583.1	6.7
90°-180°	604.0	6.9
0°-180°	8693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3911	3911	3911	3911	3911	
5°	3915	3880	3796	3793	3775	371
15°	3691	3667	3950	4299	4303	1041
25°	3216	3813	3763	2733	2311	1476
35°	2584	3626	1911	1472	1427	1617
45°	1991	2440	1209	1194	1220	1529
55°	1326	1443	908	1014	1052	1184
65°	684	778	608	676	697	686
75°	263	368	429	480	503	286
85°	40	157	304	385	411	52
90°	1	109	254	341	364	2
95°	1	84	214	289	309	1
105°	3	58	141	198	222	3
115°	3	50	104	147	166	3
125°	4	42	89	112	120	4
135°	5	33	73	93	98	4
145°	5	24	52	72	78	4
155°	7	15	32	48	54	3
165°	7	9	17	24	29	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3911.4	3911.4	3911.4	3911.4	3911.4
1°	3938.0	3926.0	3886.2	3907.4	3896.8
2°	3936.6	3916.7	3871.6	3895.5	3882.2
3°	3930.0	3908.8	3850.4	3865.0	3845.1
4°	3923.4	3898.1	3827.8	3827.8	3805.2
5°	3915.4	3879.6	3796.0	3793.3	3774.7
6°	3906.1	3865.0	3768.1	3765.4	3754.8
7°	3892.8	3839.7	3737.6	3756.1	3748.2
8°	3876.9	3815.9	3721.6	3768.1	3780.0
9°	3862.3	3786.7	3703.0	3805.2	3814.5
10°	3838.4	3760.1	3715.0	3879.6	3907.4
11°	3818.5	3737.6	3741.5	3952.6	4036.2
12°	3798.6	3713.7	3766.8	4044.1	4146.3
13°	3765.4	3695.1	3822.5	4143.7	4248.5
14°	3736.2	3680.5	3876.9	4244.6	4306.9
15°	3691.1	3667.2	3949.9	4299.0	4303.0
16°	3660.6	3657.9	4034.9	4303.0	4228.6
17°	3626.1	3653.9	4103.9	4233.9	4146.3
18°	3587.6	3661.9	4160.9	4147.7	4046.8
19°	3543.8	3669.9	4184.8	4028.2	3898.1
20°	3496.0	3681.8	4171.6	3903.5	3693.8
21°	3448.2	3697.7	4146.3	3772.1	3425.6
22.5°	3359.3	3736.2	4026.9	3403.1	2982.3
23°	3334.1	3744.2	3999.0	3287.6	2866.9
24°	3271.7	3777.4	3871.6	3018.2	2561.6
25°	3215.9	3813.2	3762.8	2732.8	2310.8
26°	3153.6	3839.7	3598.2	2470.0	2156.8
27°	3092.5	3855.7	3411.0	2265.6	1984.2
28°	3022.2	3872.9	3208.0	2089.1	1854.2
29°	2955.8	3875.6	3007.6	1948.4	1752.0
30°	2884.1	3862.3	2796.5	1835.6	1688.3
32.5°	2727.5	3789.3	2280.2	1620.6	1529.0
35°	2584.2	3626.1	1911.2	1471.9	1426.8
37.5°	2439.5	3368.6	1652.4	1379.0	1364.4
40°	2297.5	3063.3	1457.3	1304.7	1307.3
42.5°	2147.5	2748.7	1323.3	1243.6	1255.6
45°	1990.9	2439.5	1209.1	1194.5	1219.7
47.5°	1817.0	2156.8	1118.9	1162.7	1201.2
50°	1652.4	1876.7	1048.5	1132.1	1172.0
52.5°	1495.8	1647.1	984.8	1080.4	1126.8
55°	1325.9	1442.7	907.8	1014.0	1052.5
57.5°	1164.0	1258.2	826.9	931.7	966.2
60°	986.2	1076.4	744.6	842.8	876.0
62.5°	825.6	921.1	674.2	753.9	780.4
65°	683.5	777.8	607.9	675.6	696.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	557.4	658.3	553.5	610.5	630.4
70°	439.3	545.5	505.7	557.4	578.7
72.5°	343.8	451.3	465.9	513.6	534.9
75°	262.8	367.6	428.7	480.5	503.0
77.5°	195.1	300.0	394.2	453.9	477.8
80°	128.7	238.9	363.7	430.0	457.9
82.5°	81.0	192.5	333.1	406.1	435.3
85°	39.8	156.6	303.9	384.9	411.4
87.5°	13.3	130.1	277.4	363.7	386.2
90°	1.3	108.8	253.5	341.1	363.7
92.5°	1.3	94.2	233.6	314.6	337.1
95°	1.3	83.6	213.7	289.3	309.3
97.5°	1.3	75.7	195.1	262.8	284.0
100°	1.3	67.7	175.2	237.6	260.1
102.5°	2.7	62.4	157.9	216.3	240.2
105°	2.7	58.4	140.7	197.8	221.7
107.5°	2.7	55.7	126.1	183.2	205.7
110°	2.7	53.1	115.5	169.9	193.8
112.5°	2.7	51.8	108.8	157.9	180.5
115°	2.7	50.4	103.5	147.3	165.9
117.5°	4.0	49.1	99.5	136.7	151.3
120°	4.0	46.5	96.9	127.4	139.4
122.5°	4.0	43.8	92.9	119.5	128.7
125°	4.0	42.5	88.9	111.5	119.5
127.5°	4.0	39.8	84.9	104.9	112.8
130°	5.3	37.2	81.0	99.5	106.2
132.5°	5.3	34.5	77.0	96.9	102.2
135°	5.3	33.2	73.0	92.9	98.2
137.5°	5.3	30.5	69.0	88.9	94.2
140°	5.3	27.9	63.7	83.6	88.9
142.5°	5.3	26.5	58.4	78.3	83.6
145°	5.3	23.9	51.8	71.7	78.3
147.5°	6.6	22.6	46.5	66.4	71.7
150°	6.6	19.9	41.1	61.1	66.4
152.5°	6.6	17.3	35.8	54.4	59.7
155°	6.6	14.6	31.9	47.8	54.4
157.5°	6.6	13.3	27.9	39.8	47.8
160°	6.6	11.9	23.9	34.5	41.1
162.5°	6.6	10.6	21.2	29.2	35.8
165°	6.6	9.3	17.3	23.9	29.2
167.5°	8.0	9.3	14.6	18.6	23.9
170°	8.0	9.3	11.9	14.6	18.6
172.5°	8.0	8.0	9.3	10.6	11.9
175°	8.0	8.0	8.0	8.0	6.6
177.5°	8.0	8.0	8.0	6.6	6.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.6	6.6	6.6	6.6	6.6

(END OF REPORT)