

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: P566816

Luminaire Tested: **4SNX-81HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566816
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-L840-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

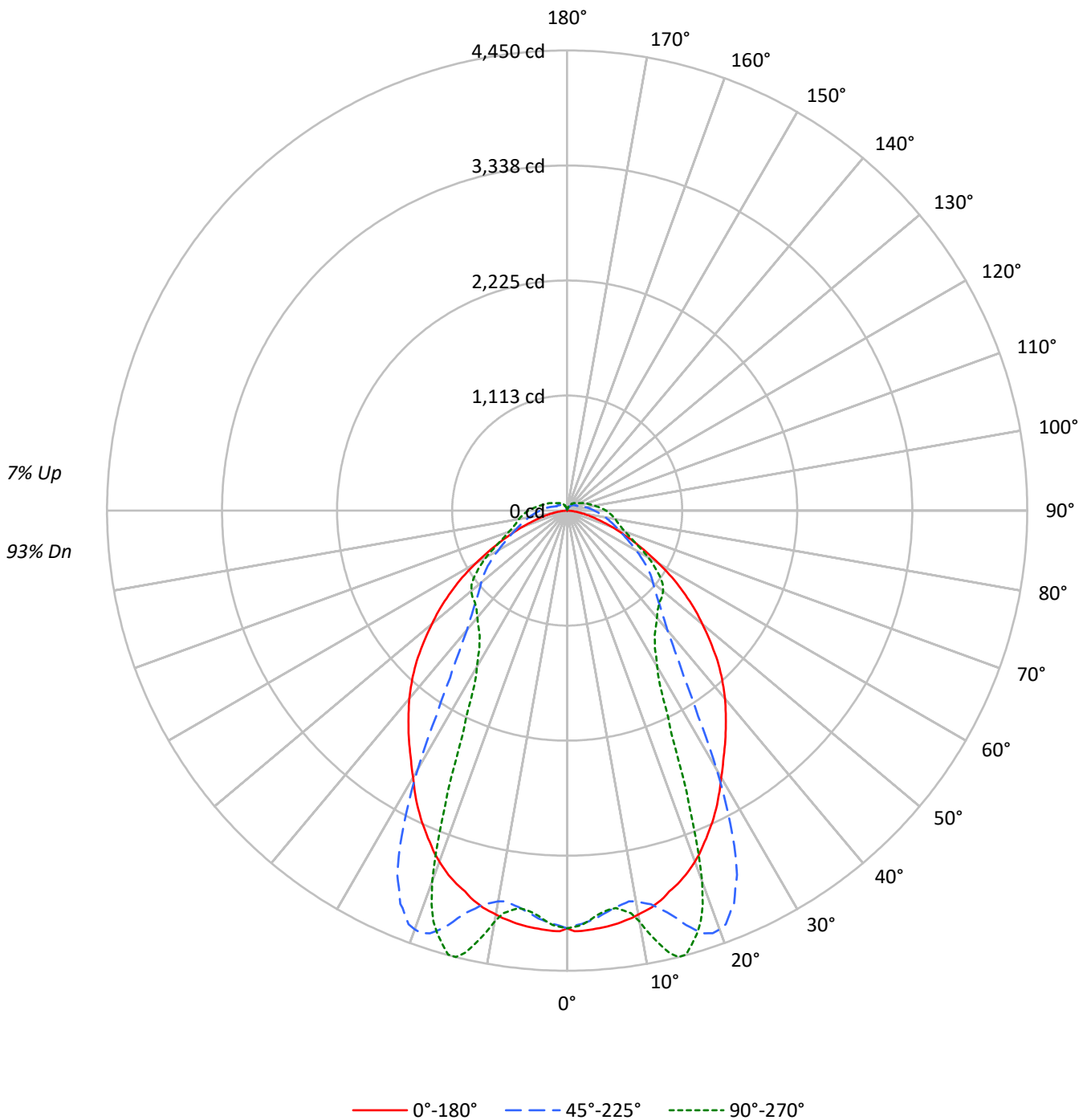
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8981.0 lumens
Efficiency: N/A
Efficacy: 163.0 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	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°	43497	43497	43497
5°	43549	40595	39815
10°	43028	38546	39482
15°	42026	40094	42031
20°	40754	41755	35177
25°	38708	37428	21629
30°	36165	27855	15654
35°	34087	19210	13206
40°	32225	14895	12171
45°	30057	12670	11510
50°	27236	11360	11299
55°	24264	10261	10454
60°	20456	8868	9042
65°	16511	7712	7546
70°	12818	6919	6645
75°	9772	6420	6196
80°	6668	6064	6134
85°	3438	5766	6090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.0	4.2
10°-20°	1149.0	12.8
20°-30°	1547.1	17.2
30°-40°	1464.2	16.3
40°-50°	1292.4	14.4
50°-60°	1049.7	11.7
60°-70°	713.9	7.9
70°-80°	459.4	5.1
80°-90°	305.5	3.4
90°-100°	209.9	2.3
100°-110°	140.9	1.6
110°-120°	99.4	1.1
120°-130°	71.0	0.8
130°-140°	50.1	0.6
140°-150°	31.1	0.3
150°-160°	15.2	0.2
160°-170°	5.3	0.1
170°-180°	0.9	0.0
0°-30°	3072.2	34.2
0°-40°	4536.4	50.5
0°-60°	6878.5	76.6
0°-90°	8357.2	93.1
90°-120°	450.2	5.0
90°-150°	602.4	6.7
90°-180°	624.0	6.9
0°-180°	8981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4041	4041	4041	4041	4041	
5°	4045	4008	3922	3919	3900	384
15°	3813	3789	4081	4441	4446	1075
25°	3322	3940	3887	2823	2387	1525
35°	2670	3746	1975	1521	1474	1671
45°	2057	2520	1249	1234	1260	1579
55°	1370	1490	938	1048	1087	1223
65°	706	804	628	698	720	709
75°	272	380	443	496	520	295
85°	41	162	314	398	425	54
90°	1	112	262	352	376	2
95°	1	86	221	299	320	1
105°	3	60	145	204	229	3
115°	3	52	107	152	171	3
125°	4	44	92	115	123	4
135°	6	34	75	96	102	4
145°	6	25	54	74	81	4
155°	7	15	33	49	56	3
165°	7	10	18	25	30	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°	4041.0	4041.0	4041.0	4041.0	4041.0
1°	4068.4	4056.1	4015.0	4036.9	4025.9
2°	4067.1	4046.5	3999.9	4024.6	4010.8
3°	4060.2	4038.3	3977.9	3993.0	3972.4
4°	4053.3	4027.3	3954.6	3954.6	3931.3
5°	4045.1	4008.1	3921.7	3919.0	3899.8
6°	4035.5	3993.0	3892.9	3890.2	3879.2
7°	4021.8	3967.0	3861.4	3880.6	3872.3
8°	4005.4	3942.3	3844.9	3892.9	3905.3
9°	3990.3	3912.1	3825.7	3931.3	3940.9
10°	3965.6	3884.7	3838.1	4008.1	4036.9
11°	3945.0	3861.4	3865.5	4083.5	4169.9
12°	3924.5	3836.7	3891.5	4178.1	4283.7
13°	3890.2	3817.5	3949.1	4281.0	4389.3
14°	3860.0	3802.4	4005.4	4385.2	4449.6
15°	3813.4	3788.7	4080.8	4441.4	4445.5
16°	3781.8	3779.1	4168.5	4445.5	4368.7
17°	3746.2	3775.0	4239.8	4374.2	4283.7
18°	3706.4	3783.2	4298.8	4285.1	4180.9
19°	3661.2	3791.4	4323.5	4161.7	4027.3
20°	3611.8	3803.8	4309.8	4032.8	3816.1
21°	3562.4	3820.2	4283.7	3897.0	3539.1
22.5°	3470.6	3860.0	4160.3	3515.8	3081.1
23°	3444.5	3868.2	4131.5	3396.5	2961.9
24°	3380.1	3902.5	3999.9	3118.2	2646.5
25°	3322.5	3939.5	3887.4	2823.4	2387.3
26°	3258.0	3967.0	3717.4	2551.9	2228.2
27°	3195.0	3983.4	3524.1	2340.7	2050.0
28°	3122.3	4001.2	3314.3	2158.3	1915.6
29°	3053.7	4004.0	3107.2	2013.0	1810.0
30°	2979.7	3990.3	2889.2	1896.4	1744.2
32.5°	2817.9	3914.9	2355.8	1674.3	1579.7
35°	2669.8	3746.2	1974.6	1520.7	1474.1
37.5°	2520.3	3480.2	1707.2	1424.7	1409.6
40°	2373.6	3164.8	1505.6	1347.9	1350.7
42.5°	2218.6	2839.8	1367.1	1284.8	1297.2
45°	2056.8	2520.3	1249.2	1234.1	1260.2
47.5°	1877.2	2228.2	1155.9	1201.2	1241.0
50°	1707.2	1938.9	1083.3	1169.7	1210.8
52.5°	1545.4	1701.7	1017.5	1116.2	1164.2
55°	1369.9	1490.5	937.9	1047.6	1087.4
57.5°	1202.6	1299.9	854.3	962.6	998.3
60°	1018.8	1112.1	769.3	870.7	905.0
62.5°	852.9	951.6	696.6	778.9	806.3
65°	706.2	803.5	628.0	698.0	719.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	575.9	680.1	571.8	630.8	651.3
70°	453.9	563.6	522.4	575.9	597.9
72.5°	355.1	466.2	481.3	530.7	552.6
75°	271.5	379.8	442.9	496.4	519.7
77.5°	201.6	309.9	407.3	469.0	493.6
80°	133.0	246.8	375.7	444.3	473.1
82.5°	83.6	198.8	344.2	419.6	449.8
85°	41.1	161.8	314.0	397.7	425.1
87.5°	13.7	134.4	286.6	375.7	399.0
90°	1.4	112.4	261.9	352.4	375.7
92.5°	1.4	97.4	241.3	325.0	348.3
95°	1.4	86.4	220.8	298.9	319.5
97.5°	1.4	78.2	201.6	271.5	293.4
100°	1.4	69.9	181.0	245.4	268.8
102.5°	2.7	64.4	163.2	223.5	248.2
105°	2.7	60.3	145.4	204.3	229.0
107.5°	2.7	57.6	130.3	189.2	212.5
110°	2.7	54.8	119.3	175.5	200.2
112.5°	2.7	53.5	112.4	163.2	186.5
115°	2.7	52.1	107.0	152.2	171.4
117.5°	4.1	50.7	102.8	141.2	156.3
120°	4.1	48.0	100.1	131.6	144.0
122.5°	4.1	45.3	96.0	123.4	133.0
125°	4.1	43.9	91.9	115.2	123.4
127.5°	4.1	41.1	87.8	108.3	116.6
130°	5.5	38.4	83.6	102.8	109.7
132.5°	5.5	35.7	79.5	100.1	105.6
135°	5.5	34.3	75.4	96.0	101.5
137.5°	5.5	31.5	71.3	91.9	97.4
140°	5.5	28.8	65.8	86.4	91.9
142.5°	5.5	27.4	60.3	80.9	86.4
145°	5.5	24.7	53.5	74.0	80.9
147.5°	6.9	23.3	48.0	68.6	74.0
150°	6.9	20.6	42.5	63.1	68.6
152.5°	6.9	17.8	37.0	56.2	61.7
155°	6.9	15.1	32.9	49.4	56.2
157.5°	6.9	13.7	28.8	41.1	49.4
160°	6.9	12.3	24.7	35.7	42.5
162.5°	6.9	11.0	21.9	30.2	37.0
165°	6.9	9.6	17.8	24.7	30.2
167.5°	8.2	9.6	15.1	19.2	24.7
170°	8.2	9.6	12.3	15.1	19.2
172.5°	8.2	8.2	9.6	11.0	12.3
175°	8.2	8.2	8.2	8.2	6.9
177.5°	8.2	8.2	8.2	6.9	6.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.9	6.9	6.9	6.9	6.9

(END OF REPORT)