

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: P567620

Luminaire Tested: **8SNX-180HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-180HL-SLW-UNV-L840-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

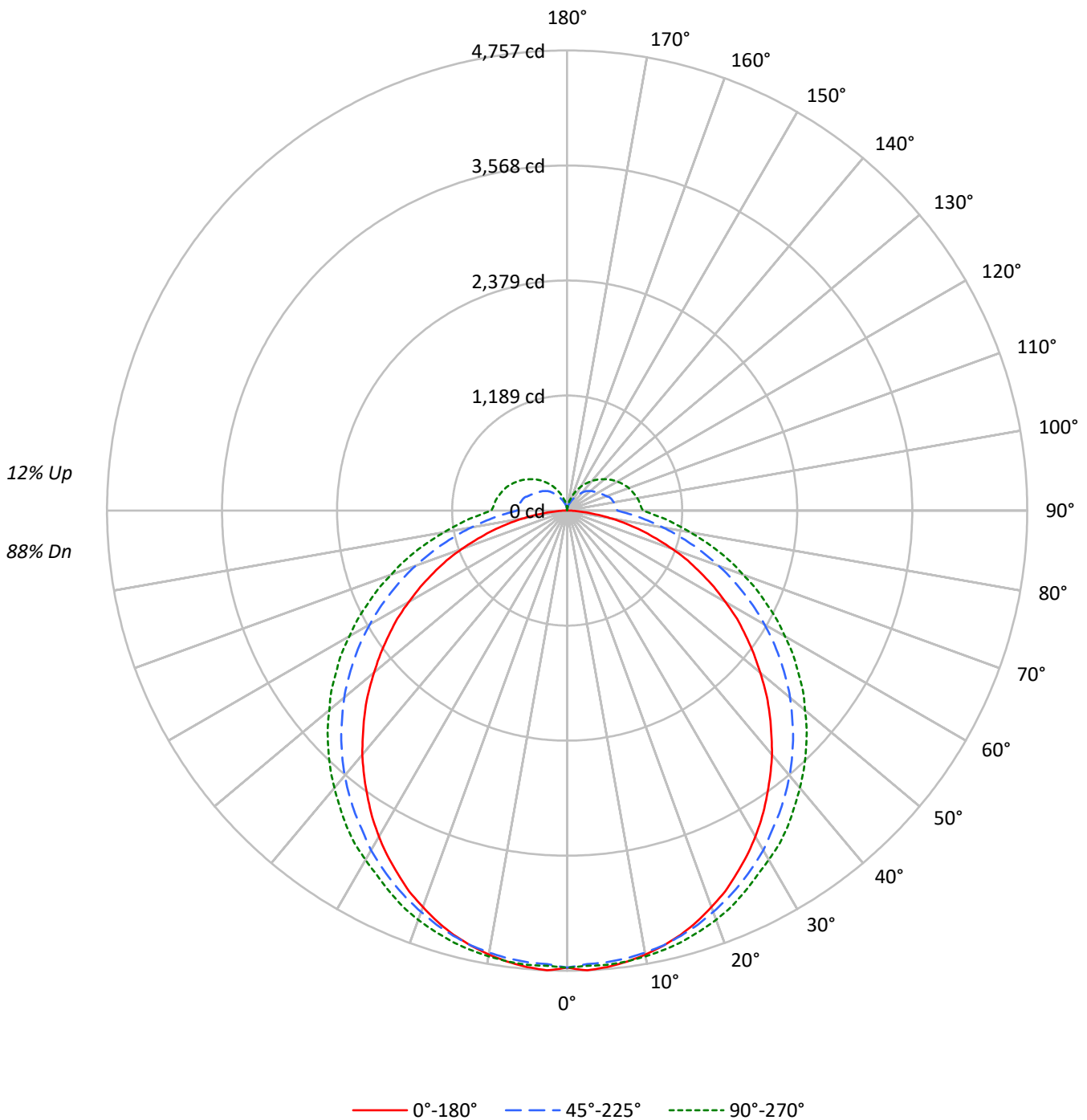
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17011.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 128.8
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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25430	25430	25430
5°	25567	24797	24745
10°	25425	24322	24153
15°	25218	23808	23595
20°	24882	23245	23013
25°	24481	22679	22350
30°	24042	22110	21739
35°	23486	21471	21213
40°	22948	20889	20569
45°	22296	20242	19958
50°	21539	19554	19259
55°	20820	18748	18561
60°	19991	17873	17758
65°	18979	16874	16902
70°	17694	15747	15918
75°	15863	14447	15015
80°	13301	13164	13874
85°	9650	12033	13131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	2.6
10°-20°	1290.3	7.6
20°-30°	1962.9	11.5
30°-40°	2386.8	14.0
40°-50°	2525.1	14.8
50°-60°	2367.0	13.9
60°-70°	1947.2	11.4
70°-80°	1347.3	7.9
80°-90°	749.2	4.4
90°-100°	493.6	2.9
100°-110°	442.6	2.6
110°-120°	366.3	2.2
120°-130°	283.2	1.7
130°-140°	200.5	1.2
140°-150°	120.9	0.7
150°-160°	58.1	0.3
160°-170°	19.0	0.1
170°-180°	2.3	0.0
0°-30°	3701.8	21.8
0°-40°	6088.6	35.8
0°-60°	10980.7	64.6
0°-90°	15024.5	88.3
90°-120°	1302.5	7.7
90°-150°	1907.1	11.2
90°-180°	1987.0	11.7
0°-180°	17011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4725	4725	4725	4725	4725	
5°	4737	4728	4687	4725	4713	450
15°	4539	4553	4550	4611	4611	1279
25°	4142	4201	4250	4343	4346	1909
35°	3601	3697	3822	3944	3979	2253
45°	2960	3114	3303	3452	3493	2281
55°	2252	2453	2689	2858	2916	2016
65°	1524	1742	2013	2211	2272	1511
75°	792	1022	1322	1532	1617	841
85°	175	434	734	938	1020	201
90°	3	245	518	714	784	12
95°	3	233	504	690	757	2
105°	3	201	472	650	708	3
115°	6	175	399	577	641	5
125°	6	149	341	492	554	5
135°	6	116	286	405	454	4
145°	6	84	198	306	344	4
155°	9	58	122	195	227	4
165°	9	38	67	90	116	2
175°	9	15	20	20	12	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4725.0	4725.0	4725.0	4725.0	4725.0
2.5°	4757.0	4742.5	4693.0	4725.0	4710.4
5°	4736.7	4727.9	4687.1	4725.0	4713.3
7.5°	4704.6	4701.7	4669.6	4713.3	4701.7
10°	4660.9	4666.7	4640.5	4687.1	4678.4
12.5°	4605.6	4614.3	4602.6	4655.1	4649.3
15°	4538.6	4553.1	4550.2	4611.4	4611.4
17.5°	4457.0	4477.4	4489.0	4559.0	4559.0
20°	4360.9	4392.9	4416.2	4492.0	4503.6
22.5°	4264.7	4302.6	4337.6	4416.2	4433.7
25°	4142.4	4200.6	4250.2	4343.4	4346.3
27.5°	4022.9	4087.0	4154.0	4244.3	4253.1
30°	3891.9	3973.4	4055.0	4142.4	4168.6
32.5°	3752.0	3842.3	3932.6	4049.2	4084.1
35°	3600.6	3696.7	3821.9	3944.3	3979.3
37.5°	3449.1	3556.9	3702.5	3827.8	3859.8
40°	3294.7	3414.1	3577.2	3705.4	3743.3
42.5°	3122.8	3268.5	3443.2	3580.2	3623.9
45°	2959.7	3114.1	3303.4	3452.0	3492.8
47.5°	2787.8	2950.9	3154.9	3312.2	3358.8
50°	2604.3	2790.7	3009.2	3166.5	3210.2
52.5°	2432.4	2621.8	2851.9	3015.0	3076.2
55°	2251.8	2452.8	2688.8	2857.7	2916.0
57.5°	2082.8	2275.1	2528.5	2697.5	2770.3
60°	1890.6	2103.2	2356.7	2540.2	2598.5
62.5°	1710.0	1925.5	2187.7	2377.1	2444.1
65°	1523.5	1742.0	2012.9	2211.0	2272.2
67.5°	1348.8	1564.3	1841.1	2036.2	2114.9
70°	1156.5	1383.7	1666.3	1867.3	1934.3
72.5°	967.1	1203.1	1491.5	1707.1	1782.8
75°	792.4	1022.5	1322.5	1532.3	1616.8
77.5°	623.4	856.4	1159.4	1375.0	1447.8
80°	454.4	699.1	1007.9	1220.6	1290.5
82.5°	300.0	556.4	862.3	1074.9	1150.7
85°	174.8	434.0	734.1	938.0	1019.6
87.5°	75.7	329.2	614.7	815.7	882.7
90°	2.9	244.7	518.5	713.7	783.6
92.5°	2.9	238.9	506.9	699.1	766.1
95°	2.9	233.0	504.0	690.4	757.4
97.5°	2.9	230.1	498.1	684.6	748.7
100°	2.9	221.4	489.4	672.9	737.0
102.5°	2.9	209.7	480.7	661.3	722.4
105°	2.9	201.0	471.9	649.6	707.9
107.5°	2.9	192.3	457.4	635.0	693.3
110°	2.9	183.5	434.0	620.5	678.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	180.6	416.6	600.1	661.3
115°	5.8	174.8	399.1	576.8	640.9
117.5°	5.8	171.9	384.5	553.5	620.5
120°	5.8	163.1	370.0	533.1	597.2
122.5°	5.8	154.4	355.4	512.7	576.8
125°	5.8	148.6	340.8	492.3	553.5
127.5°	5.8	139.8	329.2	471.9	527.3
130°	5.8	134.0	314.6	448.6	504.0
132.5°	5.8	125.3	300.0	425.3	477.7
135°	5.8	116.5	285.5	404.9	454.4
137.5°	5.8	104.9	268.0	381.6	428.2
140°	5.8	96.1	244.7	358.3	402.0
142.5°	5.8	90.3	221.4	332.1	372.9
145°	5.8	84.5	198.1	305.9	343.7
147.5°	5.8	78.7	177.7	279.7	314.6
150°	5.8	69.9	157.3	256.4	285.5
152.5°	8.7	64.1	139.8	227.2	256.4
155°	8.7	58.3	122.3	195.2	227.2
157.5°	8.7	52.4	104.9	163.1	198.1
160°	8.7	46.6	90.3	134.0	169.0
162.5°	8.7	43.7	78.7	110.7	142.7
165°	8.7	37.9	67.0	90.3	116.5
167.5°	8.7	29.1	55.3	69.9	96.1
170°	8.7	23.3	43.7	49.5	72.8
172.5°	8.7	17.5	32.0	35.0	37.9
175°	8.7	14.6	20.4	20.4	11.7
177.5°	8.7	11.7	11.7	11.7	5.8
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)