

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: P567588

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567588  
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-FDL-UNV-L840-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

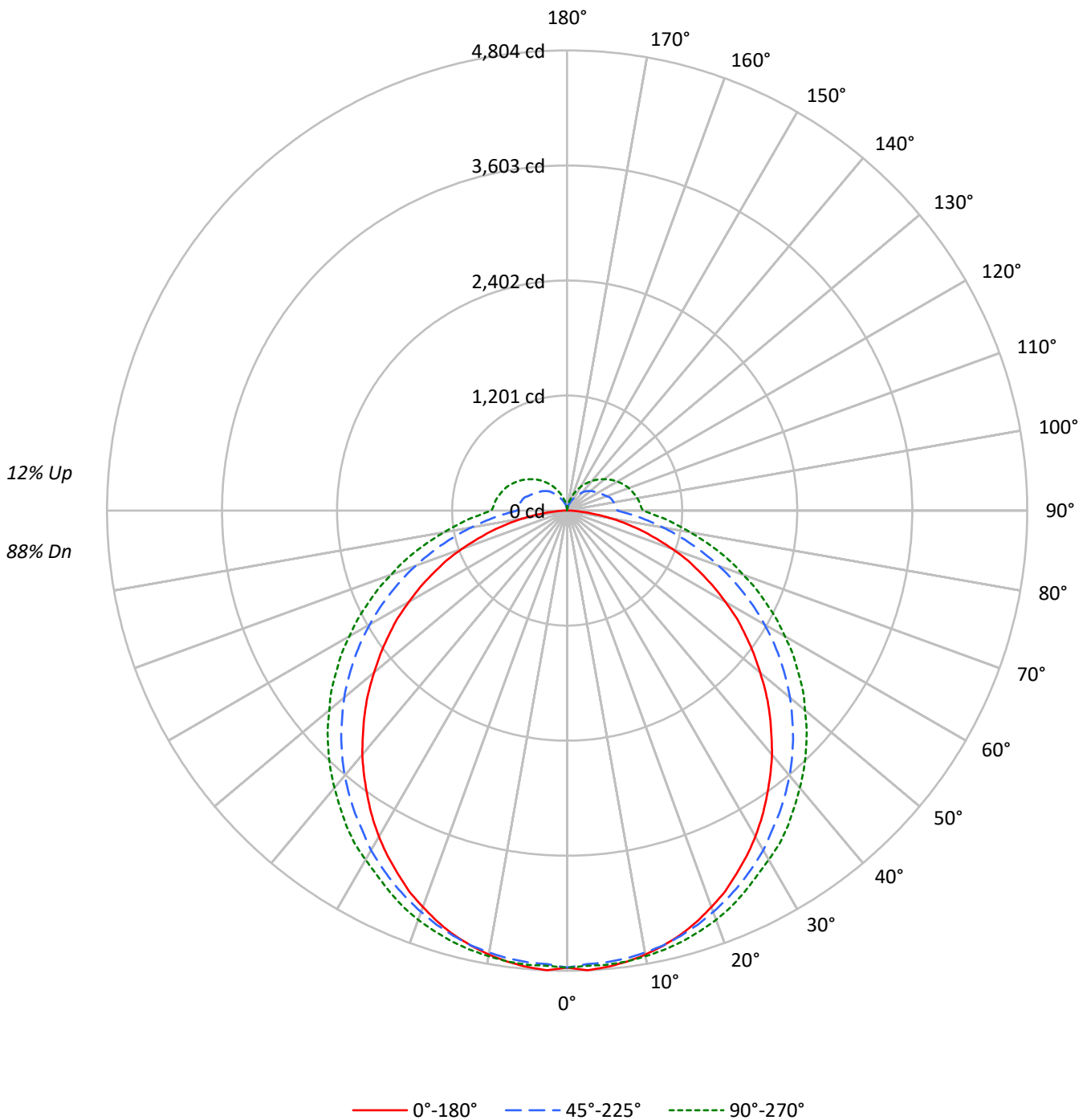
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17177.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 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: 0.04')  
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

TEST NUMBER: P567588

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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°	25678	25678	25678
5°	25828	25301	25343
10°	25697	25071	25080
15°	25499	24793	24835
20°	25172	24458	24556
25°	24779	24118	24182
30°	24349	23778	23863
35°	23800	23367	23641
40°	23271	23029	23297
45°	22629	22638	23009
50°	21882	22223	22643
55°	21178	21708	22316
60°	20365	21161	21916
65°	19375	20533	21525
70°	18117	19848	21082
75°	16320	19104	20929
80°	13815	18674	20762
85°	10287	19160	21884



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.9	2.6
10°-20°	1302.9	7.6
20°-30°	1982.1	11.5
30°-40°	2410.0	14.0
40°-50°	2549.8	14.8
50°-60°	2390.1	13.9
60°-70°	1966.2	11.4
70°-80°	1360.5	7.9
80°-90°	756.5	4.4
90°-100°	498.4	2.9
100°-110°	446.9	2.6
110°-120°	369.9	2.2
120°-130°	286.0	1.7
130°-140°	202.5	1.2
140°-150°	122.1	0.7
150°-160°	58.6	0.3
160°-170°	19.2	0.1
170°-180°	2.3	0.0
0°-30°	3738.0	21.8
0°-40°	6148.0	35.8
0°-60°	11087.9	64.6
0°-90°	15171.1	88.3
90°-120°	1315.2	7.7
90°-150°	1925.7	11.2
90°-180°	2006.0	11.7
0°-180°	17177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4771	4771	4771	4771	4771	
5°	4783	4774	4733	4771	4759	454
15°	4583	4598	4595	4656	4656	1292
25°	4183	4242	4292	4386	4389	1928
35°	3636	3733	3859	3983	4018	2275
45°	2989	3144	3336	3486	3527	2304
55°	2274	2477	2715	2886	2944	2035
65°	1538	1759	2033	2233	2294	1525
75°	800	1032	1335	1547	1632	849
85°	176	438	741	947	1030	203
90°	3	247	524	721	791	12
95°	3	235	509	697	765	2
105°	3	203	476	656	715	3
115°	6	176	403	582	647	5
125°	6	150	344	497	559	5
135°	6	118	288	409	459	5
145°	6	85	200	309	347	4
155°	9	59	124	197	229	4
165°	9	38	68	91	118	2
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



TEST NUMBER: P567588

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4771.1	4771.1	4771.1	4771.1	4771.1
2.5°	4803.5	4788.8	4738.8	4771.1	4756.4
5°	4782.9	4774.0	4732.9	4771.1	4759.3
7.5°	4750.5	4747.6	4715.2	4759.3	4747.6
10°	4706.4	4712.3	4685.8	4732.9	4724.0
12.5°	4650.5	4659.3	4647.6	4700.5	4694.6
15°	4582.9	4597.6	4594.6	4656.4	4656.4
17.5°	4500.5	4521.1	4532.8	4603.4	4603.4
20°	4403.4	4435.8	4459.3	4535.8	4547.6
22.5°	4306.4	4344.6	4379.9	4459.3	4477.0
25°	4182.8	4241.6	4291.6	4385.8	4388.7
27.5°	4062.2	4126.9	4194.6	4285.8	4294.6
30°	3929.8	4012.2	4094.6	4182.8	4209.3
32.5°	3788.6	3879.8	3971.0	4088.7	4124.0
35°	3635.7	3732.8	3859.2	3982.8	4018.1
37.5°	3482.7	3591.6	3738.6	3865.1	3897.5
40°	3326.8	3447.4	3612.2	3741.6	3779.8
42.5°	3153.3	3300.4	3476.8	3615.1	3659.2
45°	2988.6	3144.5	3335.7	3485.7	3526.9
47.5°	2815.0	2979.7	3185.6	3344.5	3391.5
50°	2629.7	2818.0	3038.6	3197.4	3241.5
52.5°	2456.1	2647.3	2879.7	3044.4	3106.2
55°	2273.8	2476.7	2715.0	2885.6	2944.4
57.5°	2103.2	2297.3	2553.2	2723.8	2797.4
60°	1909.0	2123.8	2379.7	2565.0	2623.8
62.5°	1726.7	1944.3	2209.1	2400.3	2467.9
65°	1538.4	1759.0	2032.6	2232.6	2294.4
67.5°	1361.9	1579.6	1859.0	2056.1	2135.5
70°	1167.8	1397.2	1682.5	1885.5	1953.2
72.5°	976.6	1214.8	1506.0	1723.7	1800.2
75°	800.1	1032.5	1335.4	1547.2	1632.5
77.5°	629.5	864.8	1170.7	1388.4	1461.9
80°	458.9	706.0	1017.8	1232.5	1303.1
82.5°	303.0	561.8	870.7	1085.4	1161.9
85°	176.5	438.3	741.3	947.2	1029.5
87.5°	76.5	332.4	620.7	823.6	891.3
90°	2.9	247.1	523.6	720.7	791.3
92.5°	2.9	241.2	511.8	706.0	773.6
95°	2.9	235.3	508.9	697.1	764.8
97.5°	2.9	232.4	503.0	691.3	756.0
100°	2.9	223.6	494.2	679.5	744.2
102.5°	2.9	211.8	485.3	667.7	729.5
105°	2.9	203.0	476.5	656.0	714.8
107.5°	2.9	194.1	461.8	641.2	700.1
110°	2.9	185.3	438.3	626.5	685.4



TEST NUMBER: P567588

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	182.4	420.6	605.9	667.7
115°	5.9	176.5	403.0	582.4	647.1
117.5°	5.9	173.5	388.3	558.9	626.5
120°	5.9	164.7	373.6	538.3	603.0
122.5°	5.9	155.9	358.9	517.7	582.4
125°	5.9	150.0	344.2	497.1	558.9
127.5°	5.9	141.2	332.4	476.5	532.4
130°	5.9	135.3	317.7	453.0	508.9
132.5°	5.9	126.5	303.0	429.5	482.4
135°	5.9	117.7	288.3	408.9	458.9
137.5°	5.9	105.9	270.6	385.3	432.4
140°	5.9	97.1	247.1	361.8	405.9
142.5°	5.9	91.2	223.6	335.3	376.5
145°	5.9	85.3	200.0	308.9	347.1
147.5°	5.9	79.4	179.4	282.4	317.7
150°	5.9	70.6	158.8	258.9	288.3
152.5°	8.8	64.7	141.2	229.4	258.9
155°	8.8	58.8	123.5	197.1	229.4
157.5°	8.8	52.9	105.9	164.7	200.0
160°	8.8	47.1	91.2	135.3	170.6
162.5°	8.8	44.1	79.4	111.8	144.1
165°	8.8	38.2	67.7	91.2	117.7
167.5°	8.8	29.4	55.9	70.6	97.1
170°	8.8	23.5	44.1	50.0	73.5
172.5°	8.8	17.6	32.4	35.3	38.2
175°	8.8	14.7	20.6	20.6	11.8
177.5°	8.8	11.8	11.8	11.8	5.9
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)