

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: P567612

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567612
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-LW-UNV-L840-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

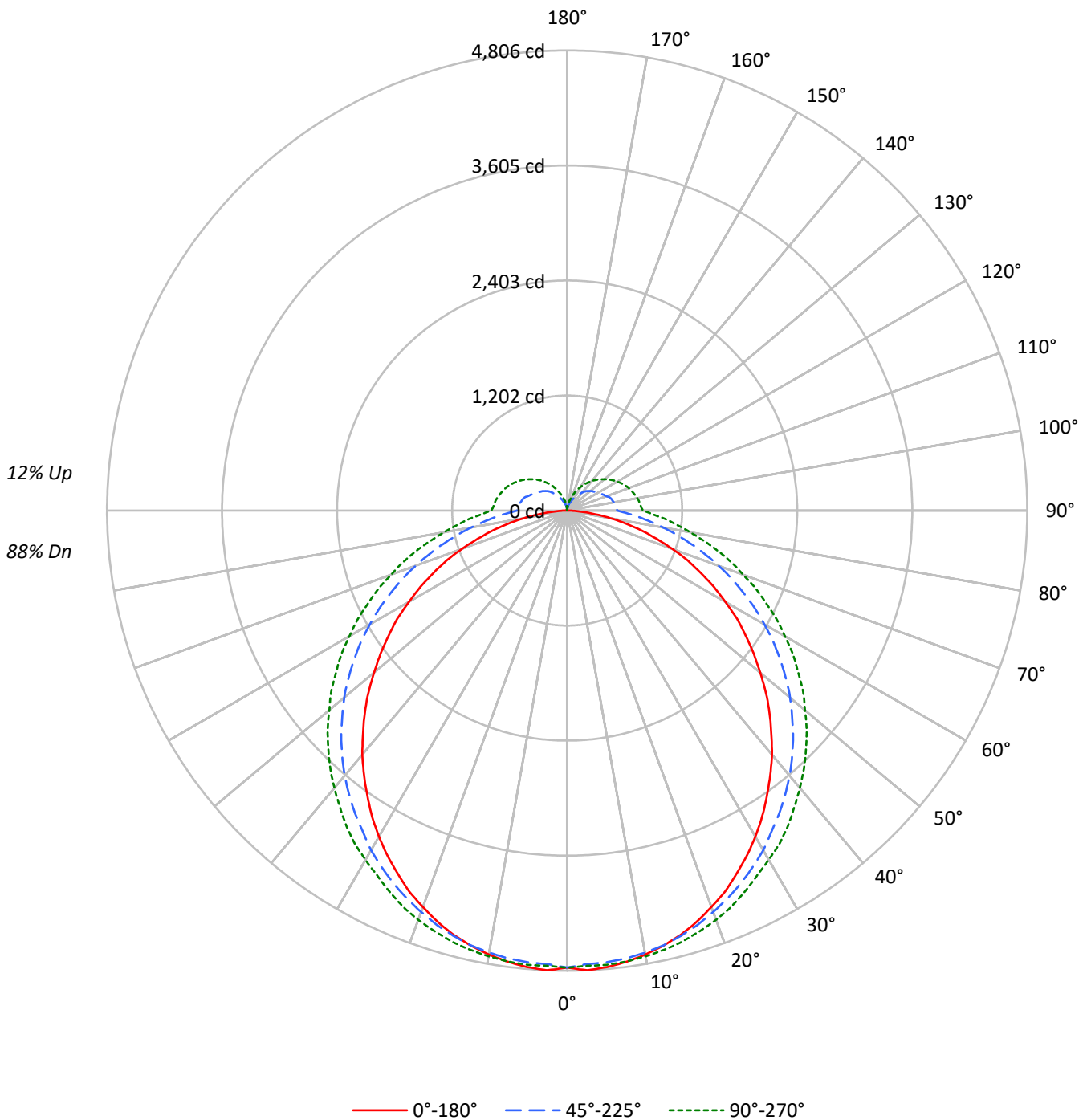
Lumens per Lamp: N/A
Luminaire Lumens: 17186.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567612

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

Luminous Intensity Polar Plot





TEST NUMBER: P567612

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

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°	25691	25691	25691
5°	25806	24539	24308
10°	25640	23599	23113
15°	25407	22662	22024
20°	25043	21711	20970
25°	24613	20786	19891
30°	24145	19879	18898
35°	23556	18927	18007
40°	22984	18034	17038
45°	22294	17092	16115
50°	21496	16117	15132
55°	20730	15044	14160
60°	19843	13913	13114
65°	18763	12679	12032
70°	17390	11341	10860
75°	15445	9872	9738
80°	12726	8400	8452
85°	8808	6984	7379



TEST NUMBER: P567612

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.2	2.6
10°-20°	1303.6	7.6
20°-30°	1983.1	11.5
30°-40°	2411.3	14.0
40°-50°	2551.1	14.8
50°-60°	2391.3	13.9
60°-70°	1967.3	11.4
70°-80°	1361.2	7.9
80°-90°	756.9	4.4
90°-100°	498.6	2.9
100°-110°	447.1	2.6
110°-120°	370.1	2.2
120°-130°	286.1	1.7
130°-140°	202.5	1.2
140°-150°	122.2	0.7
150°-160°	58.7	0.3
160°-170°	19.2	0.1
170°-180°	2.3	0.0
0°-30°	3739.9	21.8
0°-40°	6151.2	35.8
0°-60°	11093.7	64.6
0°-90°	15179.0	88.3
90°-120°	1315.9	7.7
90°-150°	1926.7	11.2
90°-180°	2007.0	11.7
0°-180°	17186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4774	4774	4774	4774	4774	
5°	4785	4776	4735	4774	4762	454
15°	4585	4600	4597	4659	4659	1292
25°	4185	4244	4294	4388	4391	1929
35°	3638	3735	3861	3985	4020	2277
45°	2990	3146	3337	3488	3529	2305
55°	2275	2478	2716	2887	2946	2037
65°	1539	1760	2034	2234	2296	1526
75°	800	1033	1336	1548	1633	849
85°	177	438	742	948	1030	203
90°	3	247	524	721	792	12
95°	3	235	509	698	765	2
105°	3	203	477	656	715	3
115°	6	177	403	583	648	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	230	4
165°	9	38	68	91	118	2
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



TEST NUMBER: P567612

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4773.6	4773.6	4773.6	4773.6	4773.6
2.5°	4806.0	4791.3	4741.2	4773.6	4758.9
5°	4785.4	4776.5	4735.3	4773.6	4761.8
7.5°	4753.0	4750.1	4717.7	4761.8	4750.1
10°	4708.9	4714.7	4688.3	4735.3	4726.5
12.5°	4652.9	4661.8	4650.0	4703.0	4697.1
15°	4585.3	4600.0	4597.0	4658.8	4658.8
17.5°	4502.8	4523.4	4535.2	4605.9	4605.9
20°	4405.7	4438.1	4461.6	4538.2	4549.9
22.5°	4308.6	4346.9	4382.2	4461.6	4479.3
25°	4185.0	4243.9	4293.9	4388.1	4391.0
27.5°	4064.3	4129.1	4196.8	4288.0	4296.8
30°	3931.9	4014.3	4096.7	4185.0	4211.5
32.5°	3790.6	3881.9	3973.1	4090.8	4126.1
35°	3637.6	3734.7	3861.3	3984.9	4020.2
37.5°	3484.6	3593.4	3740.6	3867.2	3899.5
40°	3328.6	3449.2	3614.0	3743.5	3781.8
42.5°	3154.9	3302.1	3478.7	3617.0	3661.1
45°	2990.1	3146.1	3337.4	3487.5	3528.7
47.5°	2816.5	2981.3	3187.3	3346.2	3393.3
50°	2631.1	2819.4	3040.2	3199.1	3243.2
52.5°	2457.4	2648.7	2881.2	3046.0	3107.8
55°	2275.0	2478.0	2716.4	2887.1	2946.0
57.5°	2104.3	2298.5	2554.6	2725.3	2798.8
60°	1910.0	2124.9	2380.9	2566.3	2625.2
62.5°	1727.6	1945.3	2210.2	2401.5	2469.2
65°	1539.2	1759.9	2033.6	2233.8	2295.6
67.5°	1362.6	1580.4	1860.0	2057.2	2136.6
70°	1168.4	1397.9	1683.4	1886.5	1954.2
72.5°	977.1	1215.5	1506.8	1724.6	1801.1
75°	800.5	1033.0	1336.1	1548.0	1633.4
77.5°	629.8	865.3	1171.3	1389.1	1462.7
80°	459.1	706.3	1018.3	1233.1	1303.8
82.5°	303.1	562.1	871.1	1086.0	1162.5
85°	176.6	438.5	741.6	947.7	1030.1
87.5°	76.5	332.6	621.0	824.1	891.7
90°	2.9	247.2	523.9	721.0	791.7
92.5°	2.9	241.3	512.1	706.3	774.0
95°	2.9	235.4	509.1	697.5	765.2
97.5°	2.9	232.5	503.3	691.6	756.4
100°	2.9	223.7	494.4	679.8	744.6
102.5°	2.9	211.9	485.6	668.1	729.9
105°	2.9	203.1	476.8	656.3	715.2
107.5°	2.9	194.2	462.1	641.6	700.4
110°	2.9	185.4	438.5	626.9	685.7



TEST NUMBER: P567612

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	182.5	420.9	606.3	668.1
115°	5.9	176.6	403.2	582.7	647.5
117.5°	5.9	173.6	388.5	559.2	626.9
120°	5.9	164.8	373.8	538.6	603.3
122.5°	5.9	156.0	359.1	518.0	582.7
125°	5.9	150.1	344.3	497.4	559.2
127.5°	5.9	141.3	332.6	476.8	532.7
130°	5.9	135.4	317.8	453.2	509.1
132.5°	5.9	126.6	303.1	429.7	482.7
135°	5.9	117.7	288.4	409.1	459.1
137.5°	5.9	105.9	270.8	385.5	432.6
140°	5.9	97.1	247.2	362.0	406.1
142.5°	5.9	91.2	223.7	335.5	376.7
145°	5.9	85.3	200.1	309.0	347.3
147.5°	5.9	79.5	179.5	282.5	317.8
150°	5.9	70.6	158.9	259.0	288.4
152.5°	8.8	64.7	141.3	229.6	259.0
155°	8.8	58.9	123.6	197.2	229.6
157.5°	8.8	53.0	105.9	164.8	200.1
160°	8.8	47.1	91.2	135.4	170.7
162.5°	8.8	44.1	79.5	111.8	144.2
165°	8.8	38.3	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	73.6
172.5°	8.8	17.7	32.4	35.3	38.3
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)