

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: P567592

Luminaire Tested: **8SNX-180HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567592
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-L940-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

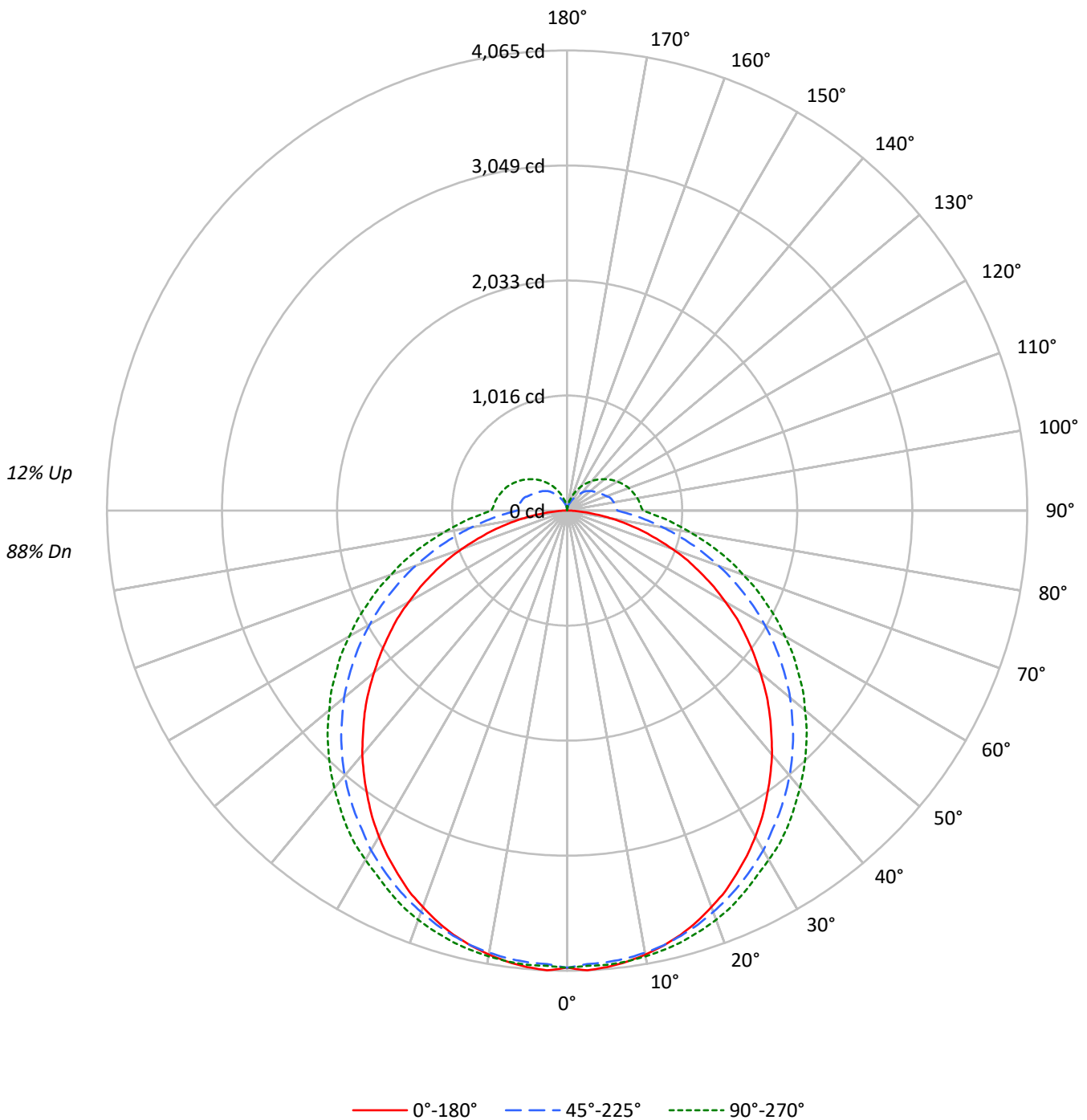
Lumens per Lamp: N/A
Luminaire Lumens: 14537.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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: P567592

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567592

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L940-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°	21731	21731	21731
5°	21858	21412	21448
10°	21747	21217	21225
15°	21580	20983	21018
20°	21303	20699	20782
25°	20970	20411	20466
30°	20606	20123	20195
35°	20142	19776	20007
40°	19695	19490	19717
45°	19151	19158	19473
50°	18519	18808	19163
55°	17923	18371	18886
60°	17235	17908	18548
65°	16398	17377	18216
70°	15332	16797	17841
75°	13811	16168	17712
80°	11689	15803	17571
85°	8707	16213	18521



TEST NUMBER: P567592

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	2.6
10°-20°	1102.7	7.6
20°-30°	1677.5	11.5
30°-40°	2039.6	14.0
40°-50°	2157.9	14.8
50°-60°	2022.7	13.9
60°-70°	1664.0	11.4
70°-80°	1151.4	7.9
80°-90°	640.2	4.4
90°-100°	421.8	2.9
100°-110°	378.2	2.6
110°-120°	313.1	2.2
120°-130°	242.0	1.7
130°-140°	171.3	1.2
140°-150°	103.3	0.7
150°-160°	49.6	0.3
160°-170°	16.3	0.1
170°-180°	2.0	0.0
0°-30°	3163.5	21.8
0°-40°	5203.1	35.8
0°-60°	9383.7	64.6
0°-90°	12839.4	88.3
90°-120°	1113.1	7.7
90°-150°	1629.8	11.2
90°-180°	1698.0	11.7
0°-180°	14537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4038	4038	4038	4038	4038	
5°	4048	4040	4006	4038	4028	384
15°	3878	3891	3888	3941	3941	1093
25°	3540	3590	3632	3712	3714	1632
35°	3077	3159	3266	3371	3400	1926
45°	2529	2661	2823	2950	2985	1949
55°	1924	2096	2298	2442	2492	1723
65°	1302	1489	1720	1890	1942	1291
75°	677	874	1130	1309	1382	718
85°	149	371	627	802	871	172
90°	2	209	443	610	670	10
95°	2	199	431	590	647	2
105°	2	172	403	555	605	3
115°	5	149	341	493	548	4
125°	5	127	291	421	473	4
135°	5	100	244	346	388	4
145°	5	72	169	261	294	3
155°	8	50	105	167	194	3
165°	8	32	57	77	100	2
175°	8	12	17	17	10	1
180°	5	5	5	5	5	



TEST NUMBER: P567592

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4037.8	4037.8	4037.8	4037.8	4037.8
2.5°	4065.2	4052.8	4010.4	4037.8	4025.4
5°	4047.8	4040.3	4005.5	4037.8	4027.9
7.5°	4020.4	4017.9	3990.5	4027.9	4017.9
10°	3983.0	3988.0	3965.6	4005.5	3998.0
12.5°	3935.8	3943.2	3933.3	3978.1	3973.1
15°	3878.5	3890.9	3888.5	3940.7	3940.7
17.5°	3808.8	3826.2	3836.2	3895.9	3895.9
20°	3726.6	3754.0	3773.9	3838.7	3848.6
22.5°	3644.5	3676.9	3706.7	3773.9	3788.9
25°	3539.9	3589.7	3632.0	3711.7	3714.2
27.5°	3437.9	3492.6	3549.9	3627.1	3634.5
30°	3325.8	3395.5	3465.3	3539.9	3562.3
32.5°	3206.4	3283.5	3360.7	3460.3	3490.1
35°	3076.9	3159.1	3266.1	3370.7	3400.5
37.5°	2947.5	3039.6	3164.0	3271.1	3298.5
40°	2815.5	2917.6	3057.0	3166.5	3198.9
42.5°	2668.6	2793.1	2942.5	3059.5	3096.8
45°	2529.2	2661.2	2823.0	2949.9	2984.8
47.5°	2382.4	2521.8	2696.0	2830.5	2870.3
50°	2225.5	2384.9	2571.6	2706.0	2743.3
52.5°	2078.7	2240.5	2437.1	2576.5	2628.8
55°	1924.3	2096.1	2297.7	2442.1	2491.9
57.5°	1779.9	1944.2	2160.8	2305.2	2367.4
60°	1615.6	1797.4	2013.9	2170.8	2220.6
62.5°	1461.3	1645.5	1869.5	2031.4	2088.6
65°	1302.0	1488.7	1720.2	1889.5	1941.7
67.5°	1152.6	1336.8	1573.3	1740.1	1807.3
70°	988.3	1182.5	1423.9	1595.7	1653.0
72.5°	826.5	1028.1	1274.6	1458.8	1523.5
75°	677.1	873.8	1130.2	1309.4	1381.6
77.5°	532.7	731.9	990.8	1175.0	1237.2
80°	388.3	597.5	861.3	1043.1	1102.8
82.5°	256.4	475.5	736.9	918.6	983.3
85°	149.4	370.9	627.3	801.6	871.3
87.5°	64.7	281.3	525.3	697.0	754.3
90°	2.5	209.1	443.1	609.9	669.7
92.5°	2.5	204.1	433.2	597.5	654.7
95°	2.5	199.2	430.7	590.0	647.2
97.5°	2.5	196.7	425.7	585.0	639.8
100°	2.5	189.2	418.2	575.1	629.8
102.5°	2.5	179.2	410.8	565.1	617.4
105°	2.5	171.8	403.3	555.1	604.9
107.5°	2.5	164.3	390.8	542.7	592.5
110°	2.5	156.8	370.9	530.2	580.0



TEST NUMBER: P567592

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	154.3	356.0	512.8	565.1
115°	5.0	149.4	341.0	492.9	547.7
117.5°	5.0	146.9	328.6	473.0	530.2
120°	5.0	139.4	316.2	455.6	510.3
122.5°	5.0	131.9	303.7	438.1	492.9
125°	5.0	127.0	291.3	420.7	473.0
127.5°	5.0	119.5	281.3	403.3	450.6
130°	5.0	114.5	268.9	383.4	430.7
132.5°	5.0	107.0	256.4	363.5	408.3
135°	5.0	99.6	244.0	346.0	388.3
137.5°	5.0	89.6	229.0	326.1	365.9
140°	5.0	82.2	209.1	306.2	343.5
142.5°	5.0	77.2	189.2	283.8	318.6
145°	5.0	72.2	169.3	261.4	293.7
147.5°	5.0	67.2	151.9	239.0	268.9
150°	5.0	59.7	134.4	219.1	244.0
152.5°	7.5	54.8	119.5	194.2	219.1
155°	7.5	49.8	104.6	166.8	194.2
157.5°	7.5	44.8	89.6	139.4	169.3
160°	7.5	39.8	77.2	114.5	144.4
162.5°	7.5	37.3	67.2	94.6	122.0
165°	7.5	32.4	57.3	77.2	99.6
167.5°	7.5	24.9	47.3	59.7	82.2
170°	7.5	19.9	37.3	42.3	62.2
172.5°	7.5	14.9	27.4	29.9	32.4
175°	7.5	12.4	17.4	17.4	10.0
177.5°	7.5	10.0	10.0	10.0	5.0
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)