

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: P567495

Luminaire Tested: **8SNX-168HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567495
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-168HL-FDL-UNV-L935-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

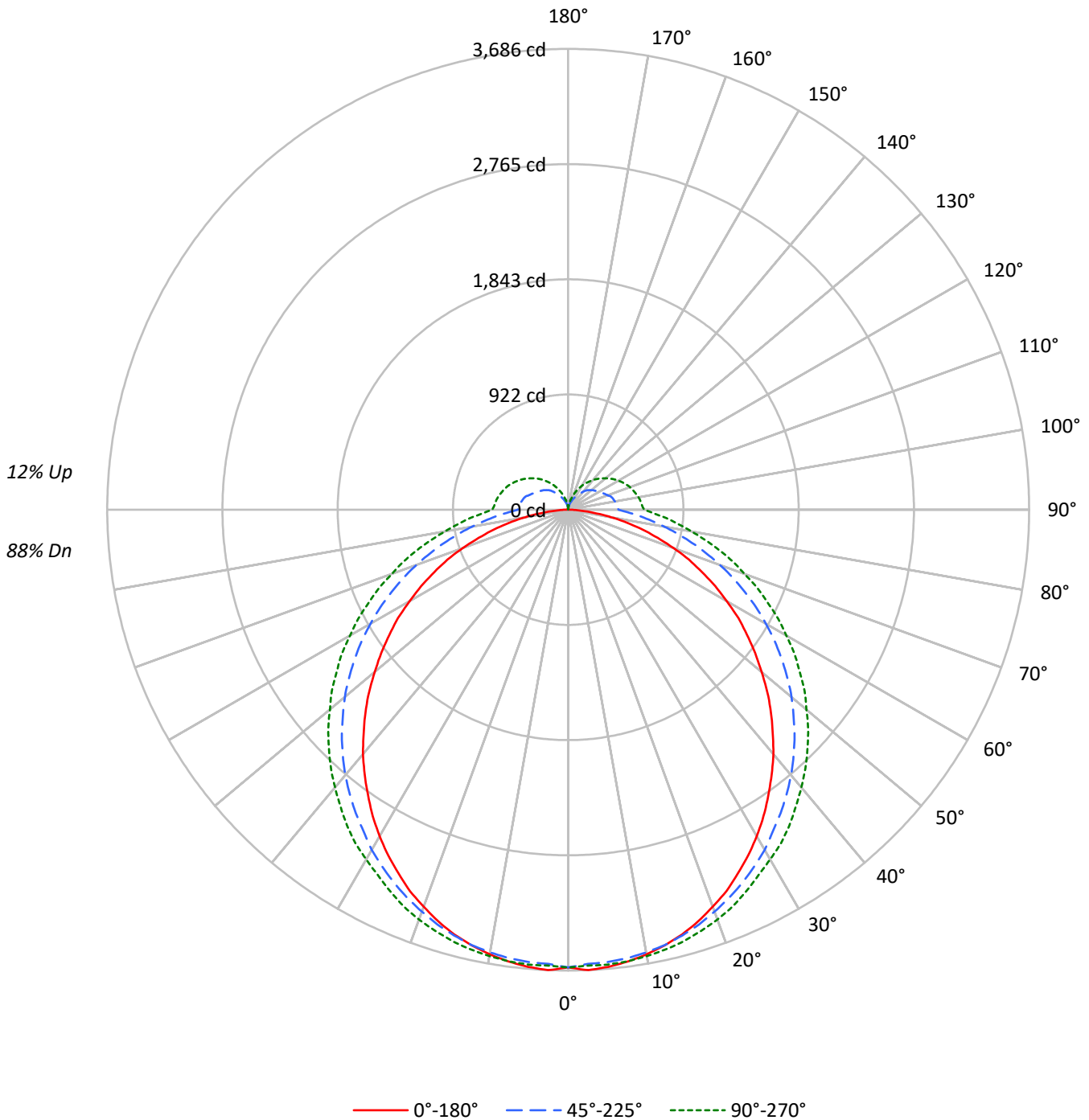
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13181.0 lumens
Efficiency: N/A
Efficacy: 113.8 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): 115.8
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

TEST NUMBER: P567495
CATALOG NUMBER: 8SNX-168HL-FDL-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567495

CATALOG NUMBER: 8SNX-168HL-FDL-UNV-L935-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°	19704	19704	19704
5°	19819	19414	19447
10°	19719	19238	19246
15°	19567	19025	19058
20°	19316	18768	18843
25°	19014	18507	18556
30°	18684	18246	18311
35°	18263	17931	18141
40°	17858	17672	17878
45°	17364	17371	17656
50°	16791	17053	17375
55°	16251	16658	17125
60°	15627	16238	16817
65°	14867	15756	16517
70°	13902	15231	16177
75°	12524	14660	16060
80°	10600	14329	15932
85°	7891	14701	16793



TEST NUMBER: P567495

CATALOG NUMBER: 8SNX-168HL-FDL-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	2.6
10°-20°	999.8	7.6
20°-30°	1521.0	11.5
30°-40°	1849.4	14.0
40°-50°	1956.6	14.8
50°-60°	1834.1	13.9
60°-70°	1508.8	11.4
70°-80°	1044.0	7.9
80°-90°	580.5	4.4
90°-100°	382.5	2.9
100°-110°	343.0	2.6
110°-120°	283.9	2.2
120°-130°	219.4	1.7
130°-140°	155.4	1.2
140°-150°	93.7	0.7
150°-160°	45.0	0.3
160°-170°	14.7	0.1
170°-180°	1.8	0.0
0°-30°	2868.4	21.8
0°-40°	4717.8	35.8
0°-60°	8508.4	64.6
0°-90°	11641.7	88.3
90°-120°	1009.3	7.7
90°-150°	1477.8	11.2
90°-180°	1539.0	11.7
0°-180°	13181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3661	3661	3661	3661	3661	
5°	3670	3663	3632	3661	3652	348
15°	3517	3528	3526	3573	3573	991
25°	3210	3255	3293	3366	3368	1480
35°	2790	2864	2961	3056	3083	1746
45°	2293	2413	2560	2675	2706	1768
55°	1745	1901	2083	2214	2260	1562
65°	1180	1350	1560	1713	1761	1170
75°	614	792	1025	1187	1253	651
85°	135	336	569	727	790	156
90°	2	190	402	553	607	9
95°	2	181	390	535	587	2
105°	2	156	366	503	548	2
115°	4	135	309	447	497	4
125°	4	115	264	382	429	4
135°	4	90	221	314	352	3
145°	4	66	154	237	266	3
155°	7	45	95	151	176	3
165°	7	29	52	70	90	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



TEST NUMBER: P567495

CATALOG NUMBER: 8SNX-168HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3661.2	3661.2	3661.2	3661.2	3661.2
2.5°	3686.0	3674.7	3636.3	3661.2	3649.9
5°	3670.2	3663.4	3631.8	3661.2	3652.1
7.5°	3645.4	3643.1	3618.3	3652.1	3643.1
10°	3611.5	3616.0	3595.7	3631.8	3625.1
12.5°	3568.6	3575.4	3566.4	3607.0	3602.5
15°	3516.7	3528.0	3525.7	3573.1	3573.1
17.5°	3453.5	3469.3	3478.3	3532.5	3532.5
20°	3379.0	3403.9	3421.9	3480.6	3489.6
22.5°	3304.5	3333.9	3361.0	3421.9	3435.5
25°	3209.7	3254.9	3293.2	3365.5	3367.7
27.5°	3117.2	3166.8	3218.8	3288.7	3295.5
30°	3015.6	3078.8	3142.0	3209.7	3230.0
32.5°	2907.3	2977.2	3047.2	3137.5	3164.6
35°	2789.9	2864.4	2961.4	3056.2	3083.3
37.5°	2672.5	2756.0	2868.9	2966.0	2990.8
40°	2552.9	2645.4	2771.8	2871.2	2900.5
42.5°	2419.7	2532.6	2668.0	2774.1	2808.0
45°	2293.3	2412.9	2559.7	2674.8	2706.4
47.5°	2160.1	2286.5	2444.5	2566.4	2602.5
50°	2017.9	2162.4	2331.7	2453.6	2487.4
52.5°	1884.8	2031.5	2209.8	2336.2	2383.6
55°	1744.8	1900.6	2083.4	2214.3	2259.5
57.5°	1613.9	1762.9	1959.2	2090.2	2146.6
60°	1464.9	1629.7	1826.1	1968.3	2013.4
62.5°	1325.0	1492.0	1695.2	1841.9	1893.8
65°	1180.5	1349.8	1559.7	1713.2	1760.6
67.5°	1045.1	1212.1	1426.5	1577.8	1638.7
70°	896.1	1072.2	1291.1	1446.9	1498.8
72.5°	749.4	932.2	1155.7	1322.7	1381.4
75°	614.0	792.3	1024.8	1187.3	1252.7
77.5°	483.0	663.6	898.4	1065.4	1121.8
80°	352.1	541.7	781.0	945.8	999.9
82.5°	232.5	431.1	668.1	832.9	891.6
85°	135.4	336.3	568.8	726.8	790.0
87.5°	58.7	255.1	476.3	632.0	683.9
90°	2.3	189.6	401.8	553.0	607.2
92.5°	2.3	185.1	392.8	541.7	593.6
95°	2.3	180.6	390.5	535.0	586.9
97.5°	2.3	178.3	386.0	530.4	580.1
100°	2.3	171.5	379.2	521.4	571.1
102.5°	2.3	162.5	372.4	512.4	559.8
105°	2.3	155.7	365.7	503.4	548.5
107.5°	2.3	149.0	354.4	492.1	537.2
110°	2.3	142.2	336.3	480.8	525.9



TEST NUMBER: P567495

CATALOG NUMBER: 8SNX-168HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	139.9	322.8	465.0	512.4
115°	4.5	135.4	309.2	446.9	496.6
117.5°	4.5	133.2	297.9	428.9	480.8
120°	4.5	126.4	286.7	413.1	462.7
122.5°	4.5	119.6	275.4	397.3	446.9
125°	4.5	115.1	264.1	381.5	428.9
127.5°	4.5	108.3	255.1	365.7	408.6
130°	4.5	103.8	243.8	347.6	390.5
132.5°	4.5	97.1	232.5	329.6	370.2
135°	4.5	90.3	221.2	313.8	352.1
137.5°	4.5	81.3	207.7	295.7	331.8
140°	4.5	74.5	189.6	277.6	311.5
142.5°	4.5	70.0	171.5	257.3	288.9
145°	4.5	65.5	153.5	237.0	266.3
147.5°	4.5	60.9	137.7	216.7	243.8
150°	4.5	54.2	121.9	198.6	221.2
152.5°	6.8	49.7	108.3	176.1	198.6
155°	6.8	45.1	94.8	151.2	176.1
157.5°	6.8	40.6	81.3	126.4	153.5
160°	6.8	36.1	70.0	103.8	130.9
162.5°	6.8	33.9	60.9	85.8	110.6
165°	6.8	29.3	51.9	70.0	90.3
167.5°	6.8	22.6	42.9	54.2	74.5
170°	6.8	18.1	33.9	38.4	56.4
172.5°	6.8	13.5	24.8	27.1	29.3
175°	6.8	11.3	15.8	15.8	9.0
177.5°	6.8	9.0	9.0	9.0	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)