

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: P567527

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567527
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-SLW-UNV-L935-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

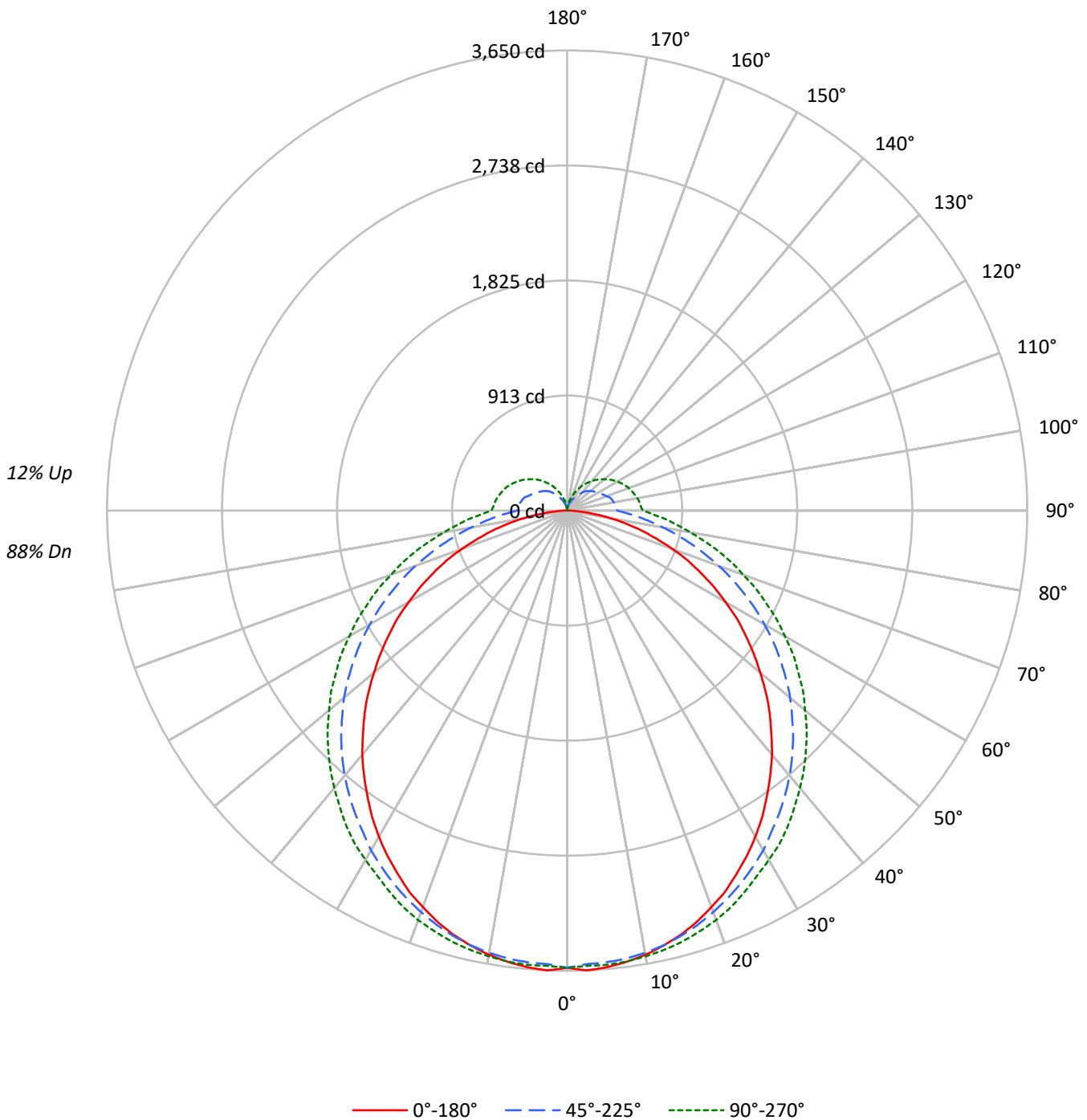
Lumens per Lamp: N/A
Luminaire Lumens: 13054.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 115.8
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: P567527

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

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°	19514	19514	19514
5°	19619	19029	18989
10°	19511	18665	18535
15°	19352	18270	18106
20°	19095	17838	17660
25°	18786	17403	17151
30°	18450	16966	16682
35°	18022	16477	16278
40°	17610	16030	15785
45°	17109	15534	15316
50°	16529	15005	14779
55°	15977	14386	14243
60°	15341	13715	13627
65°	14564	12949	12970
70°	13578	12084	12215
75°	12172	11087	11523
80°	10207	10103	10647
85°	7403	9234	10076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	2.6
10°-20°	990.2	7.6
20°-30°	1506.3	11.5
30°-40°	1831.6	14.0
40°-50°	1937.7	14.8
50°-60°	1816.4	13.9
60°-70°	1494.3	11.4
70°-80°	1033.9	7.9
80°-90°	574.9	4.4
90°-100°	378.8	2.9
100°-110°	339.6	2.6
110°-120°	281.1	2.2
120°-130°	217.3	1.7
130°-140°	153.9	1.2
140°-150°	92.8	0.7
150°-160°	44.6	0.3
160°-170°	14.6	0.1
170°-180°	1.8	0.0
0°-30°	2840.7	21.8
0°-40°	4672.3	35.8
0°-60°	8426.4	64.6
0°-90°	11529.5	88.3
90°-120°	999.5	7.7
90°-150°	1463.5	11.2
90°-180°	1524.0	11.7
0°-180°	13054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3626	3626	3626	3626	3626	
5°	3635	3628	3597	3626	3617	345
15°	3483	3494	3492	3539	3539	982
25°	3179	3224	3262	3333	3335	1465
35°	2763	2837	2933	3027	3054	1729
45°	2271	2390	2535	2649	2680	1751
55°	1728	1882	2063	2193	2238	1547
65°	1169	1337	1545	1697	1744	1159
75°	608	785	1015	1176	1241	645
85°	134	333	563	720	782	154
90°	2	188	398	548	601	9
95°	2	179	387	530	581	2
105°	2	154	362	498	543	2
115°	4	134	306	443	492	4
125°	4	114	262	378	425	4
135°	4	89	219	311	349	3
145°	4	65	152	235	264	3
155°	7	45	94	150	174	3
165°	7	29	51	69	89	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



TEST NUMBER: P567527

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3625.9	3625.9	3625.9	3625.9	3625.9
2.5°	3650.5	3639.3	3601.3	3625.9	3614.7
5°	3634.8	3628.1	3596.8	3625.9	3617.0
7.5°	3610.2	3608.0	3583.4	3617.0	3608.0
10°	3576.7	3581.2	3561.1	3596.8	3590.1
12.5°	3534.2	3540.9	3532.0	3572.2	3567.8
15°	3482.8	3494.0	3491.8	3538.7	3538.7
17.5°	3420.2	3435.9	3444.8	3498.5	3498.5
20°	3346.5	3371.1	3388.9	3447.1	3456.0
22.5°	3272.7	3301.8	3328.6	3388.9	3402.4
25°	3178.8	3223.5	3261.5	3333.1	3335.3
27.5°	3087.2	3136.3	3187.7	3257.0	3263.8
30°	2986.6	3049.2	3111.7	3178.8	3198.9
32.5°	2879.3	2948.6	3017.9	3107.3	3134.1
35°	2763.0	2836.8	2932.9	3026.8	3053.6
37.5°	2646.8	2729.5	2841.3	2937.4	2962.0
40°	2528.3	2619.9	2745.1	2843.5	2872.6
42.5°	2396.4	2508.2	2642.3	2747.4	2780.9
45°	2271.2	2389.7	2535.0	2649.0	2680.3
47.5°	2139.3	2264.5	2421.0	2541.7	2577.5
50°	1998.5	2141.6	2309.2	2429.9	2463.5
52.5°	1866.6	2011.9	2188.5	2313.7	2360.6
55°	1728.0	1882.2	2063.3	2193.0	2237.7
57.5°	1598.3	1745.9	1940.4	2070.0	2125.9
60°	1450.8	1614.0	1808.5	1949.3	1994.0
62.5°	1312.2	1477.6	1678.8	1824.1	1875.5
65°	1169.1	1336.8	1544.7	1696.7	1743.6
67.5°	1035.0	1200.4	1412.8	1562.6	1622.9
70°	887.5	1061.8	1278.7	1432.9	1484.3
72.5°	742.2	923.2	1144.5	1310.0	1368.1
75°	608.0	784.6	1014.9	1175.8	1240.7
77.5°	478.4	657.2	889.7	1055.1	1111.0
80°	348.7	536.5	773.5	936.7	990.3
82.5°	230.3	427.0	661.7	824.9	883.0
85°	134.1	333.1	563.3	719.8	782.4
87.5°	58.1	252.6	471.7	625.9	677.3
90°	2.2	187.8	397.9	547.7	601.3
92.5°	2.2	183.3	389.0	536.5	587.9
95°	2.2	178.8	386.7	529.8	581.2
97.5°	2.2	176.6	382.3	525.3	574.5
100°	2.2	169.9	375.6	516.4	565.6
102.5°	2.2	161.0	368.8	507.4	554.4
105°	2.2	154.2	362.1	498.5	543.2
107.5°	2.2	147.5	351.0	487.3	532.0
110°	2.2	140.8	333.1	476.2	520.9



TEST NUMBER: P567527

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	138.6	319.7	460.5	507.4
115°	4.5	134.1	306.3	442.6	491.8
117.5°	4.5	131.9	295.1	424.7	476.2
120°	4.5	125.2	283.9	409.1	458.3
122.5°	4.5	118.5	272.7	393.4	442.6
125°	4.5	114.0	261.5	377.8	424.7
127.5°	4.5	107.3	252.6	362.1	404.6
130°	4.5	102.8	241.4	344.3	386.7
132.5°	4.5	96.1	230.3	326.4	366.6
135°	4.5	89.4	219.1	310.7	348.7
137.5°	4.5	80.5	205.7	292.8	328.6
140°	4.5	73.8	187.8	275.0	308.5
142.5°	4.5	69.3	169.9	254.8	286.1
145°	4.5	64.8	152.0	234.7	263.8
147.5°	4.5	60.4	136.4	214.6	241.4
150°	4.5	53.7	120.7	196.7	219.1
152.5°	6.7	49.2	107.3	174.4	196.7
155°	6.7	44.7	93.9	149.8	174.4
157.5°	6.7	40.2	80.5	125.2	152.0
160°	6.7	35.8	69.3	102.8	129.7
162.5°	6.7	33.5	60.4	84.9	109.5
165°	6.7	29.1	51.4	69.3	89.4
167.5°	6.7	22.4	42.5	53.7	73.8
170°	6.7	17.9	33.5	38.0	55.9
172.5°	6.7	13.4	24.6	26.8	29.1
175°	6.7	11.2	15.6	15.6	8.9
177.5°	6.7	8.9	8.9	8.9	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)