

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: P567517

Luminaire Tested: **8SNX-168HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567517
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-LW-UNV-L850-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

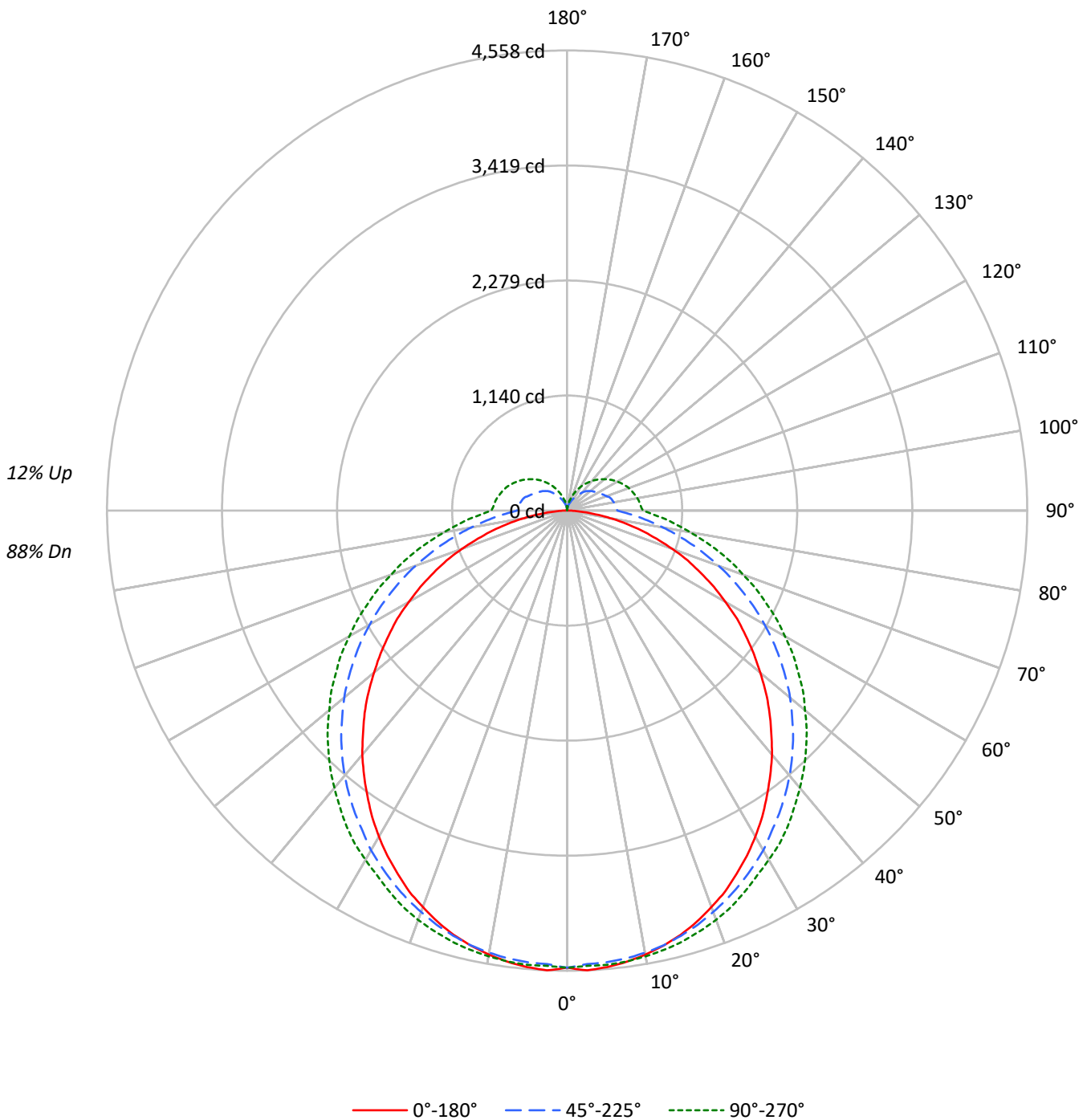
Lumens per Lamp: N/A
Luminaire Lumens: 16300.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567517

CATALOG NUMBER: 8SNX-168HL-LW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567517

CATALOG NUMBER: 8SNX-168HL-LW-UNV-L850-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°	24367	24367	24367
5°	24476	23274	23055
10°	24318	22382	21921
15°	24097	21493	20888
20°	23752	20592	19890
25°	23344	19715	18866
30°	22900	18855	17924
35°	22342	17951	17079
40°	21799	17104	16160
45°	21145	16211	15284
50°	20387	15286	14352
55°	19661	14268	13430
60°	18821	13196	12438
65°	17796	12026	11411
70°	16494	10757	10299
75°	14648	9364	9236
80°	12069	7967	8017
85°	8354	6625	6999



TEST NUMBER: P567517

CATALOG NUMBER: 8SNX-168HL-LW-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	2.6
10°-20°	1236.4	7.6
20°-30°	1880.9	11.5
30°-40°	2287.0	14.0
40°-50°	2419.6	14.8
50°-60°	2268.0	13.9
60°-70°	1865.8	11.4
70°-80°	1291.0	7.9
80°-90°	717.9	4.4
90°-100°	472.9	2.9
100°-110°	424.1	2.6
110°-120°	351.0	2.2
120°-130°	271.4	1.7
130°-140°	192.1	1.2
140°-150°	115.9	0.7
150°-160°	55.7	0.3
160°-170°	18.2	0.1
170°-180°	2.2	0.0
0°-30°	3547.1	21.8
0°-40°	5834.1	35.8
0°-60°	10521.7	64.6
0°-90°	14396.5	88.3
90°-120°	1248.1	7.7
90°-150°	1827.4	11.2
90°-180°	1904.0	11.7
0°-180°	16300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4528	4528	4528	4528	4528	
5°	4539	4530	4491	4528	4516	431
15°	4349	4363	4360	4419	4419	1226
25°	3969	4025	4072	4162	4165	1830
35°	3450	3542	3662	3779	3813	2159
45°	2836	2984	3165	3308	3347	2186
55°	2158	2350	2576	2738	2794	1932
65°	1460	1669	1929	2119	2177	1447
75°	759	980	1267	1468	1549	805
85°	168	416	703	899	977	193
90°	3	234	497	684	751	11
95°	3	223	483	662	726	2
105°	3	193	452	622	678	3
115°	6	168	382	553	614	4
125°	6	142	327	472	530	5
135°	6	112	274	388	435	4
145°	6	81	190	293	329	4
155°	8	56	117	187	218	4
165°	8	36	64	86	112	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



TEST NUMBER: P567517

CATALOG NUMBER: 8SNX-168HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4527.5	4527.5	4527.5	4527.5	4527.5
2.5°	4558.2	4544.3	4496.8	4527.5	4513.6
5°	4538.7	4530.3	4491.2	4527.5	4516.3
7.5°	4508.0	4505.2	4474.5	4516.3	4505.2
10°	4466.1	4471.7	4446.6	4491.2	4482.8
12.5°	4413.1	4421.4	4410.3	4460.5	4454.9
15°	4348.9	4362.8	4360.0	4418.6	4418.6
17.5°	4270.7	4290.2	4301.4	4368.4	4368.4
20°	4178.6	4209.3	4231.6	4304.2	4315.4
22.5°	4086.5	4122.8	4156.3	4231.6	4248.4
25°	3969.2	4025.1	4072.5	4161.8	4164.6
27.5°	3854.8	3916.2	3980.4	4066.9	4075.3
30°	3729.2	3807.4	3885.5	3969.2	3994.4
32.5°	3595.2	3681.7	3768.3	3879.9	3913.4
35°	3450.1	3542.2	3662.2	3779.4	3812.9
37.5°	3304.9	3408.2	3547.8	3667.8	3698.5
40°	3157.0	3271.4	3427.7	3550.6	3586.8
42.5°	2992.3	3131.9	3299.3	3430.5	3472.4
45°	2836.0	2983.9	3165.3	3307.7	3346.8
47.5°	2671.3	2827.6	3023.0	3173.7	3218.4
50°	2495.4	2674.1	2883.4	3034.2	3076.0
52.5°	2330.7	2512.2	2732.7	2889.0	2947.6
55°	2157.7	2350.3	2576.4	2738.3	2794.1
57.5°	1995.8	2180.0	2422.9	2584.8	2654.5
60°	1811.6	2015.3	2258.2	2434.0	2489.9
62.5°	1638.5	1845.1	2096.3	2277.7	2341.9
65°	1459.9	1669.2	1928.8	2118.6	2177.2
67.5°	1292.4	1498.9	1764.1	1951.1	2026.5
70°	1108.2	1325.9	1596.6	1789.2	1853.4
72.5°	926.7	1152.8	1429.2	1635.7	1708.3
75°	759.2	979.8	1267.3	1468.2	1549.2
77.5°	597.3	820.6	1110.9	1317.5	1387.3
80°	435.4	669.9	965.8	1169.6	1236.6
82.5°	287.5	533.1	826.2	1030.0	1102.6
85°	167.5	415.9	703.4	898.8	977.0
87.5°	72.6	315.4	589.0	781.6	845.8
90°	2.8	234.5	496.9	683.9	750.9
92.5°	2.8	228.9	485.7	669.9	734.1
95°	2.8	223.3	482.9	661.5	725.7
97.5°	2.8	220.5	477.3	656.0	717.4
100°	2.8	212.1	468.9	644.8	706.2
102.5°	2.8	201.0	460.6	633.6	692.2
105°	2.8	192.6	452.2	622.5	678.3
107.5°	2.8	184.2	438.2	608.5	664.3
110°	2.8	175.9	415.9	594.5	650.4



TEST NUMBER: P567517

CATALOG NUMBER: 8SNX-168HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	173.1	399.2	575.0	633.6
115°	5.6	167.5	382.4	552.7	614.1
117.5°	5.6	164.7	368.5	530.3	594.5
120°	5.6	156.3	354.5	510.8	572.2
122.5°	5.6	147.9	340.5	491.3	552.7
125°	5.6	142.4	326.6	471.7	530.3
127.5°	5.6	134.0	315.4	452.2	505.2
130°	5.6	128.4	301.5	429.9	482.9
132.5°	5.6	120.0	287.5	407.5	457.8
135°	5.6	111.7	273.5	388.0	435.4
137.5°	5.6	100.5	256.8	365.7	410.3
140°	5.6	92.1	234.5	343.3	385.2
142.5°	5.6	86.5	212.1	318.2	357.3
145°	5.6	80.9	189.8	293.1	329.4
147.5°	5.6	75.4	170.3	268.0	301.5
150°	5.6	67.0	150.7	245.6	273.5
152.5°	8.4	61.4	134.0	217.7	245.6
155°	8.4	55.8	117.2	187.0	217.7
157.5°	8.4	50.2	100.5	156.3	189.8
160°	8.4	44.7	86.5	128.4	161.9
162.5°	8.4	41.9	75.4	106.1	136.8
165°	8.4	36.3	64.2	86.5	111.7
167.5°	8.4	27.9	53.0	67.0	92.1
170°	8.4	22.3	41.9	47.5	69.8
172.5°	8.4	16.7	30.7	33.5	36.3
175°	8.4	14.0	19.5	19.5	11.2
177.5°	8.4	11.2	11.2	11.2	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)