

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: P567509

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-168HL-LN-UNV-L850-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

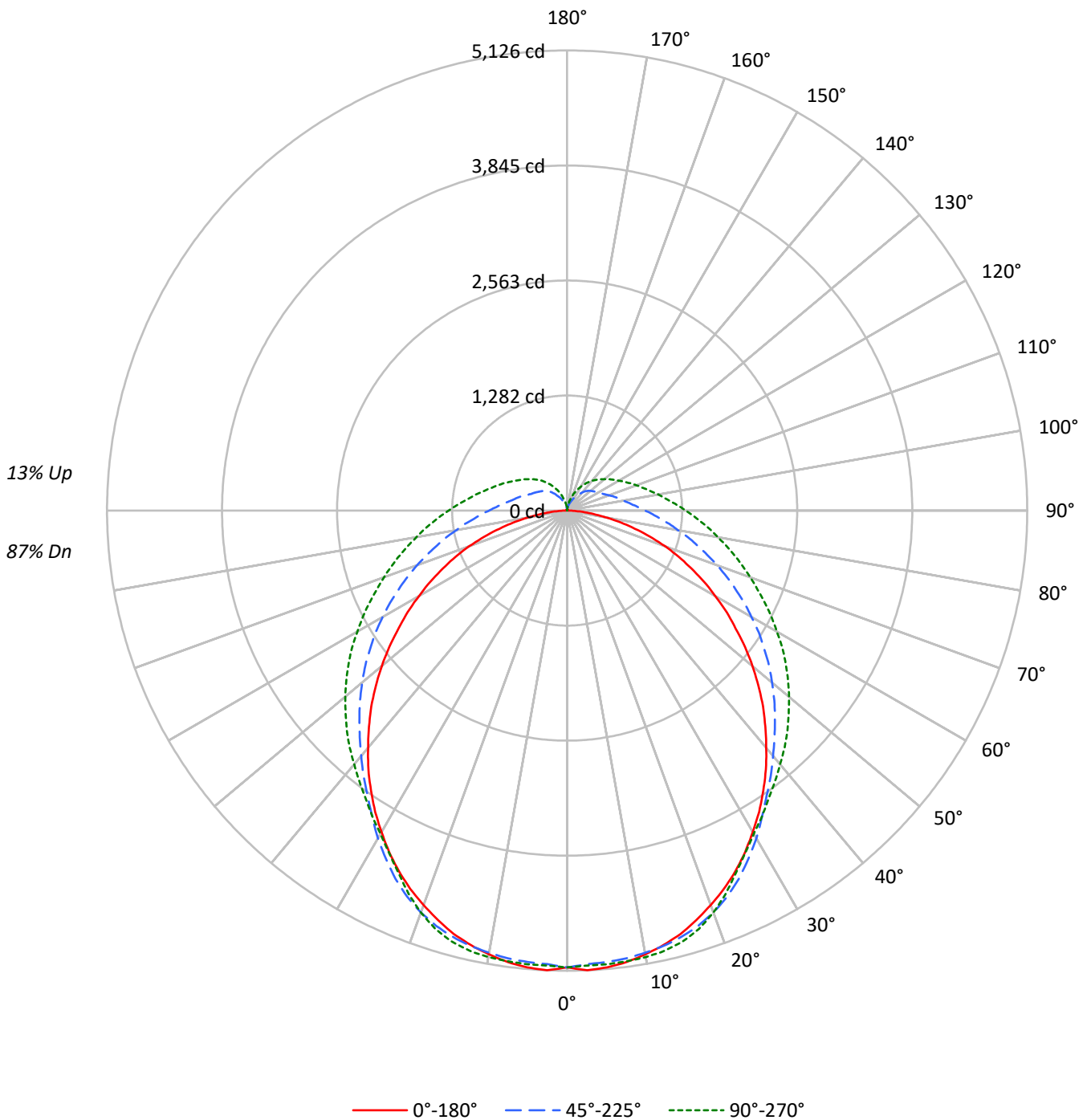
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18368.0 lumens  
Efficiency: N/A  
Efficacy: 158.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
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: P567509

CATALOG NUMBER: 8SNX-168HL-LN-UNV-L850-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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	27385	27385	27385
5°	27540	26158	25895
10°	27333	25173	24700
15°	27055	24239	23494
20°	26586	23185	21959
25°	26079	21903	20158
30°	25394	20460	18655
35°	24662	18988	17533
40°	23824	17808	16625
45°	23009	16762	15842
50°	22032	15799	15052
55°	20884	14831	14280
60°	19799	13866	13471
65°	18601	12892	12731
70°	17241	11979	12062
75°	15080	11090	11510
80°	12257	10327	11043
85°	8853	9796	10775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.4	2.6
10°-20°	1389.8	7.6
20°-30°	2069.5	11.3
30°-40°	2441.9	13.3
40°-50°	2546.6	13.9
50°-60°	2393.2	13.0
60°-70°	2021.0	11.0
70°-80°	1527.0	8.3
80°-90°	1052.6	5.7
90°-100°	736.6	4.0
100°-110°	549.7	3.0
110°-120°	414.4	2.3
120°-130°	309.0	1.7
130°-140°	216.9	1.2
140°-150°	131.2	0.7
150°-160°	62.7	0.3
160°-170°	20.1	0.1
170°-180°	2.4	0.0
0°-30°	3942.6	21.5
0°-40°	6384.5	34.8
0°-60°	11324.3	61.7
0°-90°	15925.0	86.7
90°-120°	1700.7	9.3
90°-150°	2357.8	12.8
90°-180°	2443.0	13.3
0°-180°	18368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5088	5088	5088	5088	5088	
5°	5107	5098	5048	5085	5073	485
15°	4883	4905	4917	4979	4970	1375
25°	4434	4525	4525	4484	4450	2040
35°	3808	3949	3874	3905	3914	2382
45°	3086	3239	3273	3407	3469	2377
55°	2292	2488	2678	2893	2971	2056
65°	1526	1769	2068	2339	2429	1515
75°	782	1084	1501	1816	1931	832
85°	178	557	1040	1383	1504	199
90°	3	396	869	1202	1320	12
95°	3	308	735	1052	1162	3
105°	6	221	567	822	916	6
115°	6	190	439	654	738	7
125°	9	162	371	536	604	8
135°	9	125	308	436	489	7
145°	12	90	215	333	374	7
155°	12	59	131	212	246	6
165°	16	37	68	93	125	4
175°	16	16	19	19	9	1
180°	9	9	9	9	9	



TEST NUMBER: P567509

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5088.3	5088.3	5088.3	5088.3	5088.3
2.5°	5125.6	5113.2	5057.1	5088.3	5072.7
5°	5107.0	5097.6	5047.8	5085.2	5072.7
7.5°	5072.7	5069.6	5032.2	5075.8	5063.4
10°	5019.8	5029.1	5001.1	5060.3	5050.9
12.5°	4957.5	4976.2	4966.8	5032.2	5022.9
15°	4882.8	4904.6	4917.0	4979.3	4969.9
17.5°	4783.1	4823.6	4851.6	4901.4	4885.9
20°	4677.2	4733.3	4764.4	4789.3	4764.4
22.5°	4562.0	4636.7	4655.4	4643.0	4618.1
25°	4434.3	4524.6	4524.6	4484.2	4449.9
27.5°	4291.1	4403.2	4372.1	4325.3	4297.3
30°	4135.4	4269.3	4216.4	4163.4	4157.2
32.5°	3979.7	4119.8	4042.0	4029.5	4038.9
35°	3808.4	3948.6	3873.8	3905.0	3914.3
37.5°	3637.2	3777.3	3727.5	3774.2	3802.2
40°	3450.3	3599.8	3568.6	3652.7	3690.1
42.5°	3266.6	3422.3	3419.2	3528.2	3584.2
45°	3086.0	3238.6	3272.8	3406.7	3469.0
47.5°	2889.8	3045.5	3129.6	3285.3	3347.6
50°	2696.7	2864.9	2980.1	3154.5	3226.1
52.5°	2497.4	2674.9	2833.7	3026.8	3101.5
55°	2291.9	2488.1	2678.0	2892.9	2970.8
57.5°	2108.2	2307.5	2531.7	2752.8	2843.1
60°	1905.8	2126.9	2372.9	2606.4	2696.7
62.5°	1722.0	1949.4	2223.4	2469.4	2565.9
65°	1525.9	1768.8	2067.7	2338.6	2428.9
67.5°	1345.2	1594.4	1921.3	2195.4	2295.0
70°	1158.4	1423.1	1778.1	2067.7	2170.5
72.5°	965.3	1245.6	1634.9	1943.1	2049.0
75°	781.6	1083.7	1500.9	1815.5	1930.7
77.5°	610.3	928.0	1379.5	1703.4	1815.5
80°	442.2	787.8	1251.8	1588.1	1703.4
82.5°	292.7	666.4	1149.1	1485.4	1606.8
85°	177.5	557.4	1040.1	1382.6	1504.1
87.5°	81.0	467.1	952.9	1292.3	1410.6
90°	3.1	395.5	868.8	1202.0	1320.3
92.5°	3.1	345.7	800.3	1124.2	1239.4
95°	3.1	308.3	734.9	1052.5	1161.5
97.5°	3.1	283.4	685.1	984.0	1089.9
100°	3.1	258.5	635.3	921.7	1030.7
102.5°	6.2	236.7	597.9	865.7	968.5
105°	6.2	221.1	566.7	822.1	915.5
107.5°	6.2	211.8	532.5	778.5	865.7
110°	6.2	202.4	495.1	734.9	822.1



TEST NUMBER: P567509

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.2	196.2	467.1	697.5	781.6
115°	6.2	190.0	439.1	653.9	738.0
117.5°	6.2	186.8	423.5	619.7	700.7
120°	9.3	177.5	404.8	588.5	666.4
122.5°	9.3	168.2	386.1	563.6	632.1
125°	9.3	161.9	370.6	535.6	604.1
127.5°	9.3	152.6	355.0	510.7	573.0
130°	9.3	143.2	342.5	485.8	545.0
132.5°	9.3	133.9	327.0	460.9	516.9
135°	9.3	124.6	308.3	436.0	488.9
137.5°	9.3	115.2	289.6	411.0	460.9
140°	9.3	105.9	264.7	386.1	432.8
142.5°	9.3	96.5	239.8	361.2	401.7
145°	12.5	90.3	214.9	333.2	373.7
147.5°	12.5	81.0	190.0	305.2	339.4
150°	12.5	74.7	171.3	277.1	308.3
152.5°	12.5	65.4	152.6	246.0	277.1
155°	12.5	59.2	130.8	211.8	246.0
157.5°	12.5	52.9	112.1	177.5	214.9
160°	12.5	49.8	96.5	146.4	183.7
162.5°	15.6	43.6	81.0	118.3	152.6
165°	15.6	37.4	68.5	93.4	124.6
167.5°	15.6	31.1	56.1	71.6	96.5
170°	15.6	24.9	43.6	49.8	74.7
172.5°	15.6	18.7	31.1	34.3	37.4
175°	15.6	15.6	18.7	18.7	9.3
177.5°	15.6	15.6	12.5	9.3	3.1
180°	9.3	9.3	9.3	9.3	9.3

(END OF REPORT)