

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: P567494

Luminaire Tested: **8SNX-168HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567494  
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-L930-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

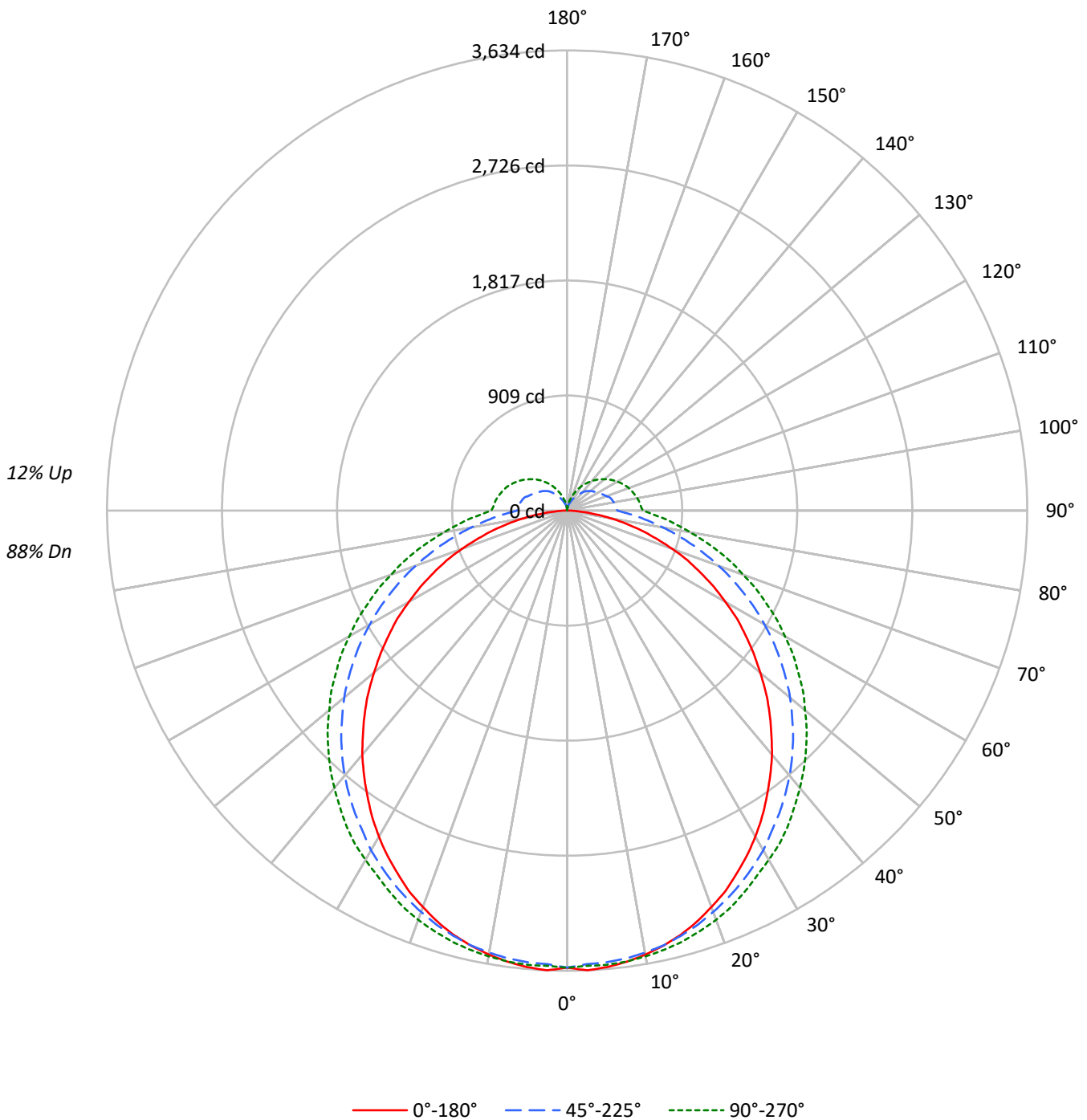
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12995.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 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 (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

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### 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°	19426	19426	19426
5°	19540	19141	19173
10°	19441	18967	18974
15°	19291	18757	18789
20°	19043	18503	18577
25°	18746	18247	18295
30°	18421	17989	18053
35°	18006	17678	17885
40°	17606	17422	17626
45°	17119	17126	17407
50°	16555	16812	17130
55°	16022	16423	16883
60°	15406	16008	16580
65°	14658	15534	16285
70°	13706	15016	15948
75°	12347	14453	15834
80°	10452	14127	15707
85°	7781	14495	16557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	2.6
10°-20°	985.7	7.6
20°-30°	1499.5	11.5
30°-40°	1823.3	14.0
40°-50°	1929.0	14.8
50°-60°	1808.2	13.9
60°-70°	1487.5	11.4
70°-80°	1029.3	7.9
80°-90°	572.3	4.4
90°-100°	377.0	2.9
100°-110°	338.1	2.6
110°-120°	279.9	2.2
120°-130°	216.4	1.7
130°-140°	153.2	1.2
140°-150°	92.4	0.7
150°-160°	44.4	0.3
160°-170°	14.5	0.1
170°-180°	1.8	0.0
0°-30°	2827.9	21.8
0°-40°	4651.2	35.8
0°-60°	8388.3	64.6
0°-90°	11477.4	88.3
90°-120°	995.0	7.7
90°-150°	1456.9	11.2
90°-180°	1518.0	11.7
0°-180°	12995.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3610	3610	3610	3610	3610	
5°	3618	3612	3581	3610	3601	343
15°	3467	3478	3476	3523	3523	977
25°	3164	3209	3247	3318	3320	1459
35°	2750	2824	2920	3013	3040	1721
45°	2261	2379	2524	2637	2668	1743
55°	1720	1874	2054	2183	2228	1540
65°	1164	1331	1538	1689	1736	1154
75°	605	781	1010	1170	1235	642
85°	134	332	561	717	779	154
90°	2	187	396	545	599	9
95°	2	178	385	527	579	2
105°	2	154	360	496	541	2
115°	4	134	305	441	490	4
125°	4	114	260	376	423	4
135°	4	89	218	309	347	3
145°	4	64	151	234	263	3
155°	7	44	94	149	174	3
165°	7	29	51	69	89	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3609.5	3609.5	3609.5	3609.5	3609.5
2.5°	3634.0	3622.9	3585.0	3609.5	3598.4
5°	3618.4	3611.7	3580.6	3609.5	3600.6
7.5°	3593.9	3591.7	3567.2	3600.6	3591.7
10°	3560.6	3565.0	3545.0	3580.6	3573.9
12.5°	3518.3	3524.9	3516.0	3556.1	3551.6
15°	3467.1	3478.2	3476.0	3522.7	3522.7
17.5°	3404.8	3420.4	3429.3	3482.7	3482.7
20°	3331.3	3355.8	3373.6	3431.5	3440.4
22.5°	3257.9	3286.8	3313.5	3373.6	3387.0
25°	3164.4	3208.9	3246.8	3318.0	3320.2
27.5°	3073.2	3122.2	3173.3	3242.3	3249.0
30°	2973.1	3035.4	3097.7	3164.4	3184.5
32.5°	2866.2	2935.2	3004.2	3093.2	3119.9
35°	2750.5	2824.0	2919.7	3013.1	3039.8
37.5°	2634.8	2717.1	2828.4	2924.1	2948.6
40°	2516.9	2608.1	2732.7	2830.6	2859.6
42.5°	2385.6	2496.8	2630.4	2734.9	2768.3
45°	2260.9	2378.9	2523.5	2637.0	2668.2
47.5°	2129.7	2254.3	2410.0	2530.2	2565.8
50°	1989.5	2131.9	2298.8	2418.9	2452.3
52.5°	1858.2	2002.8	2178.6	2303.2	2350.0
55°	1720.2	1873.7	2054.0	2183.1	2227.6
57.5°	1591.1	1738.0	1931.6	2060.7	2116.3
60°	1444.2	1606.7	1800.3	1940.5	1985.0
62.5°	1306.3	1471.0	1671.2	1815.9	1867.1
65°	1163.9	1330.8	1537.7	1689.0	1735.8
67.5°	1030.3	1195.0	1406.4	1555.5	1615.6
70°	883.5	1057.0	1272.9	1426.4	1477.6
72.5°	738.8	919.1	1139.4	1304.1	1361.9
75°	605.3	781.1	1010.3	1170.5	1235.1
77.5°	476.2	654.3	885.7	1050.4	1106.0
80°	347.2	534.1	770.0	932.4	985.8
82.5°	229.2	425.0	658.7	821.2	879.0
85°	133.5	331.6	560.8	716.6	778.9
87.5°	57.9	251.5	469.5	623.1	674.3
90°	2.2	186.9	396.1	545.2	598.6
92.5°	2.2	182.5	387.2	534.1	585.3
95°	2.2	178.0	385.0	527.4	578.6
97.5°	2.2	175.8	380.5	523.0	571.9
100°	2.2	169.1	373.9	514.1	563.0
102.5°	2.2	160.2	367.2	505.2	551.9
105°	2.2	153.5	360.5	496.3	540.8
107.5°	2.2	146.9	349.4	485.1	529.6
110°	2.2	140.2	331.6	474.0	518.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	138.0	318.2	458.4	505.2
115°	4.5	133.5	304.9	440.6	489.6
117.5°	4.5	131.3	293.7	422.8	474.0
120°	4.5	124.6	282.6	407.2	456.2
122.5°	4.5	117.9	271.5	391.7	440.6
125°	4.5	113.5	260.4	376.1	422.8
127.5°	4.5	106.8	251.5	360.5	402.8
130°	4.5	102.4	240.3	342.7	385.0
132.5°	4.5	95.7	229.2	324.9	365.0
135°	4.5	89.0	218.1	309.3	347.2
137.5°	4.5	80.1	204.7	291.5	327.1
140°	4.5	73.4	186.9	273.7	307.1
142.5°	4.5	69.0	169.1	253.7	284.8
145°	4.5	64.5	151.3	233.7	262.6
147.5°	4.5	60.1	135.7	213.6	240.3
150°	4.5	53.4	120.2	195.8	218.1
152.5°	6.7	49.0	106.8	173.6	195.8
155°	6.7	44.5	93.5	149.1	173.6
157.5°	6.7	40.1	80.1	124.6	151.3
160°	6.7	35.6	69.0	102.4	129.1
162.5°	6.7	33.4	60.1	84.6	109.0
165°	6.7	28.9	51.2	69.0	89.0
167.5°	6.7	22.3	42.3	53.4	73.4
170°	6.7	17.8	33.4	37.8	55.6
172.5°	6.7	13.4	24.5	26.7	28.9
175°	6.7	11.1	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)