

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: P567491

Luminaire Tested: **8SNX-168HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567491  
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-L835-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

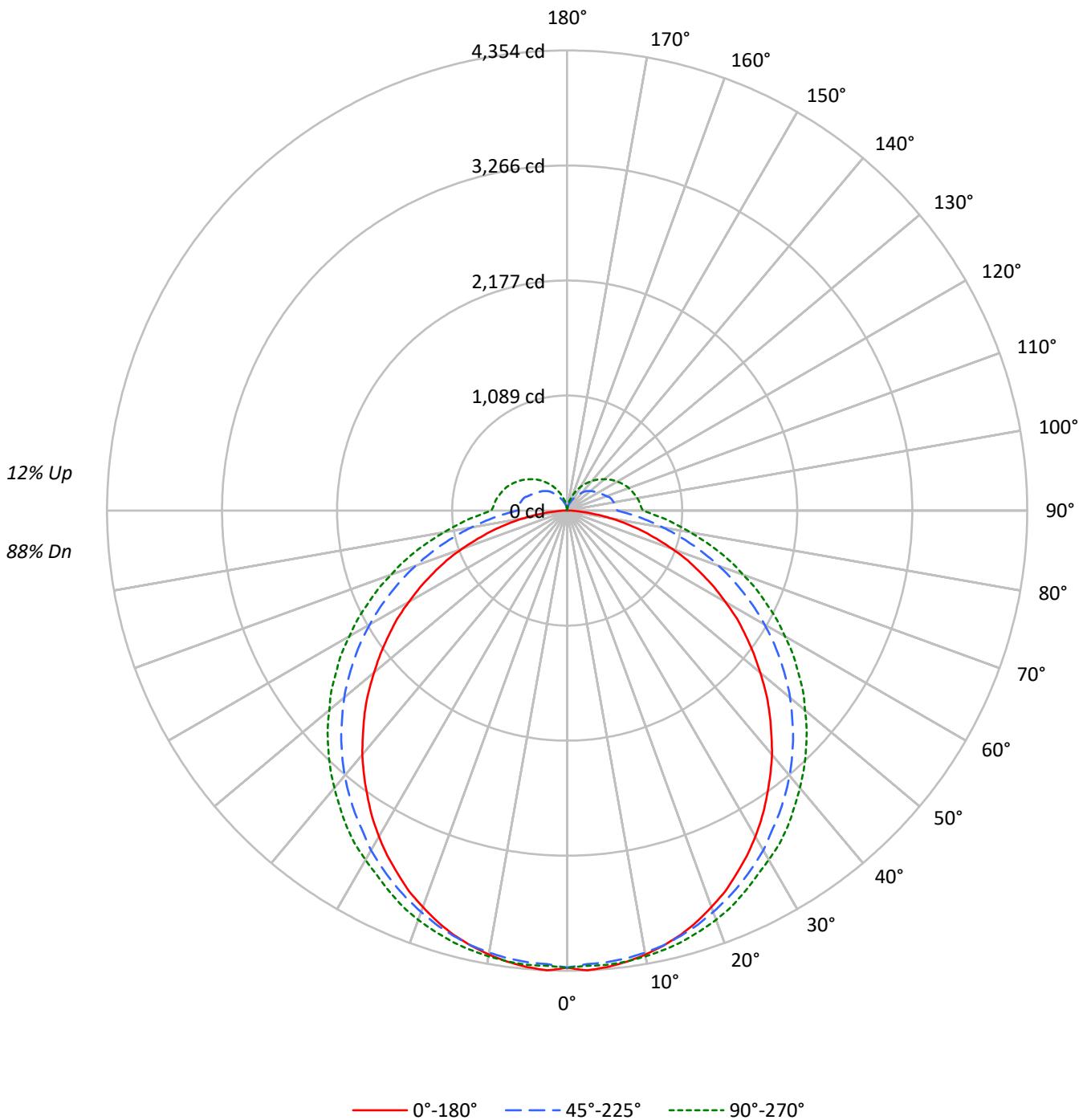
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15570.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 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<sub>in</sub>): 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°	23275	23275	23275
5°	23411	22933	22972
10°	23293	22725	22734
15°	23114	22474	22512
20°	22818	22170	22258
25°	22461	21862	21920
30°	22071	21553	21630
35°	21574	21181	21429
40°	21094	20875	21118
45°	20512	20520	20856
50°	19835	20144	20525
55°	19197	19677	20229
60°	18459	19180	19865
65°	17563	18612	19511
70°	16421	17991	19109
75°	14792	17317	18971
80°	12520	16925	18820
85°	9325	17366	19837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.6	2.6
10°-20°	1181.0	7.6
20°-30°	1796.7	11.5
30°-40°	2184.6	14.0
40°-50°	2311.2	14.8
50°-60°	2166.5	13.9
60°-70°	1782.3	11.4
70°-80°	1233.2	7.9
80°-90°	685.7	4.4
90°-100°	451.7	2.9
100°-110°	405.1	2.6
110°-120°	335.3	2.2
120°-130°	259.2	1.7
130°-140°	183.5	1.2
140°-150°	110.7	0.7
150°-160°	53.2	0.3
160°-170°	17.4	0.1
170°-180°	2.1	0.0
0°-30°	3388.3	21.8
0°-40°	5572.9	35.8
0°-60°	10050.5	64.6
0°-90°	13751.7	88.3
90°-120°	1192.2	7.7
90°-150°	1745.6	11.2
90°-180°	1818.0	11.7
0°-180°	15570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4325	4325	4325	4325	4325	
5°	4335	4327	4290	4325	4314	412
15°	4154	4167	4165	4221	4221	1171
25°	3792	3845	3890	3976	3978	1748
35°	3296	3384	3498	3610	3642	2062
45°	2709	2850	3024	3160	3197	2088
55°	2061	2245	2461	2616	2669	1845
65°	1394	1594	1842	2024	2080	1383
75°	725	936	1210	1402	1480	769
85°	160	397	672	858	933	184
90°	3	224	475	653	717	11
95°	3	213	461	632	693	2
105°	3	184	432	595	648	3
115°	5	160	365	528	587	4
125°	5	136	312	451	507	5
135°	5	107	261	371	416	4
145°	5	77	181	280	315	3
155°	8	53	112	179	208	4
165°	8	35	61	83	107	2
175°	8	13	19	19	11	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4324.7	4324.7	4324.7	4324.7	4324.7
2.5°	4354.1	4340.7	4295.4	4324.7	4311.4
5°	4335.4	4327.4	4290.1	4324.7	4314.1
7.5°	4306.1	4303.4	4274.1	4314.1	4303.4
10°	4266.1	4271.4	4247.4	4290.1	4282.1
12.5°	4215.4	4223.4	4212.8	4260.8	4255.4
15°	4154.1	4167.4	4164.8	4220.8	4220.8
17.5°	4079.4	4098.1	4108.8	4172.8	4172.8
20°	3991.5	4020.8	4042.1	4111.4	4122.1
22.5°	3903.5	3938.1	3970.1	4042.1	4058.1
25°	3791.5	3844.8	3890.1	3975.5	3978.1
27.5°	3682.2	3740.8	3802.1	3884.8	3892.8
30°	3562.2	3636.8	3711.5	3791.5	3815.5
32.5°	3434.2	3516.9	3599.5	3706.2	3738.2
35°	3295.6	3383.5	3498.2	3610.2	3642.2
37.5°	3156.9	3255.6	3388.9	3503.5	3532.9
40°	3015.6	3124.9	3274.2	3391.5	3426.2
42.5°	2858.3	2991.6	3151.6	3276.9	3316.9
45°	2709.0	2850.3	3023.6	3159.6	3196.9
47.5°	2551.7	2701.0	2887.6	3031.6	3074.2
50°	2383.7	2554.3	2754.3	2898.3	2938.3
52.5°	2226.4	2399.7	2610.3	2759.6	2815.6
55°	2061.1	2245.0	2461.0	2615.6	2669.0
57.5°	1906.4	2082.4	2314.4	2469.0	2535.7
60°	1730.4	1925.1	2157.0	2325.0	2378.3
62.5°	1565.1	1762.4	2002.4	2175.7	2237.0
65°	1394.5	1594.4	1842.4	2023.7	2079.7
67.5°	1234.5	1431.8	1685.1	1863.7	1935.7
70°	1058.5	1266.5	1525.1	1709.1	1770.4
72.5°	885.2	1101.2	1365.1	1562.5	1631.8
75°	725.2	935.9	1210.5	1402.5	1479.8
77.5°	570.6	783.9	1061.2	1258.5	1325.2
80°	415.9	639.9	922.5	1117.2	1181.2
82.5°	274.6	509.3	789.2	983.9	1053.2
85°	160.0	397.3	671.9	858.5	933.2
87.5°	69.3	301.3	562.6	746.6	807.9
90°	2.7	224.0	474.6	653.2	717.2
92.5°	2.7	218.6	463.9	639.9	701.2
95°	2.7	213.3	461.3	631.9	693.2
97.5°	2.7	210.6	455.9	626.6	685.2
100°	2.7	202.6	447.9	615.9	674.6
102.5°	2.7	192.0	439.9	605.3	661.2
105°	2.7	184.0	431.9	594.6	647.9
107.5°	2.7	176.0	418.6	581.3	634.6
110°	2.7	168.0	397.3	567.9	621.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	165.3	381.3	549.3	605.3
115°	5.3	160.0	365.3	527.9	586.6
117.5°	5.3	157.3	352.0	506.6	567.9
120°	5.3	149.3	338.6	487.9	546.6
122.5°	5.3	141.3	325.3	469.3	527.9
125°	5.3	136.0	312.0	450.6	506.6
127.5°	5.3	128.0	301.3	431.9	482.6
130°	5.3	122.6	288.0	410.6	461.3
132.5°	5.3	114.7	274.6	389.3	437.3
135°	5.3	106.7	261.3	370.6	415.9
137.5°	5.3	96.0	245.3	349.3	391.9
140°	5.3	88.0	224.0	328.0	367.9
142.5°	5.3	82.7	202.6	304.0	341.3
145°	5.3	77.3	181.3	280.0	314.6
147.5°	5.3	72.0	162.6	256.0	288.0
150°	5.3	64.0	144.0	234.6	261.3
152.5°	8.0	58.7	128.0	208.0	234.6
155°	8.0	53.3	112.0	178.6	208.0
157.5°	8.0	48.0	96.0	149.3	181.3
160°	8.0	42.7	82.7	122.6	154.6
162.5°	8.0	40.0	72.0	101.3	130.6
165°	8.0	34.7	61.3	82.7	106.7
167.5°	8.0	26.7	50.7	64.0	88.0
170°	8.0	21.3	40.0	45.3	66.7
172.5°	8.0	16.0	29.3	32.0	34.7
175°	8.0	13.3	18.7	18.7	10.7
177.5°	8.0	10.7	10.7	10.7	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)