

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: P567469

Luminaire Tested: **8SNX-162HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567469  
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-162HL-LW-UNV-L850-CD  
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

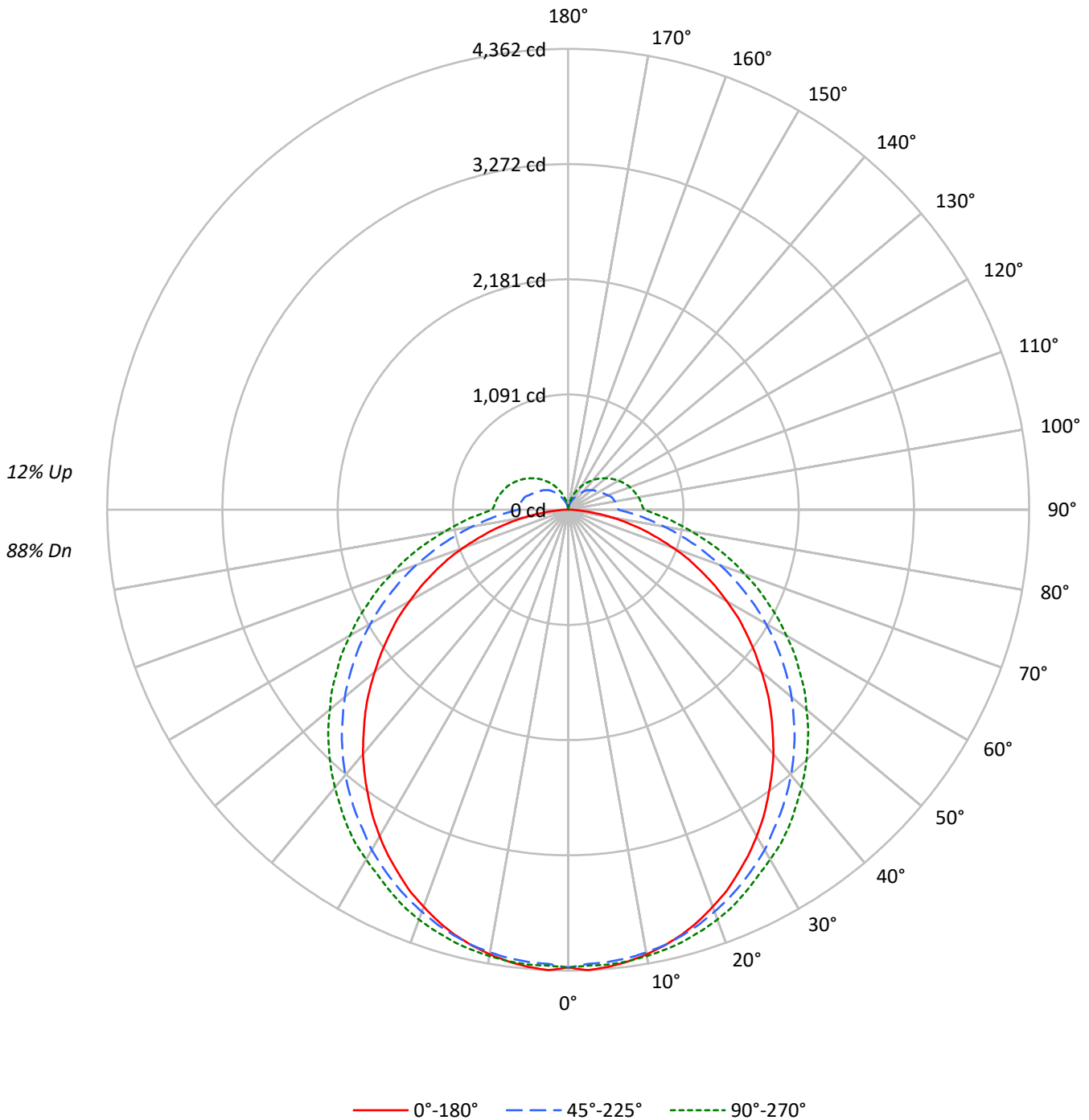
Lumens per Lamp: N/A  
Luminaire Lumens: 15599.0 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 110.2  
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	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°	23319	23319	23319
5°	23423	22273	22063
10°	23272	21419	20979
15°	23060	20569	19990
20°	22731	19707	19034
25°	22340	18867	18054
30°	21915	18044	17153
35°	21381	17179	16345
40°	20861	16369	15465
45°	20235	15514	14627
50°	19511	14629	13735
55°	18815	13655	12853
60°	18011	12628	11903
65°	17031	11508	10921
70°	15784	10294	9857
75°	14019	8961	8839
80°	11550	7625	7672
85°	7995	6340	6697



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.3	2.6
10°-20°	1183.2	7.6
20°-30°	1800.0	11.5
30°-40°	2188.6	14.0
40°-50°	2315.5	14.8
50°-60°	2170.5	13.9
60°-70°	1785.6	11.4
70°-80°	1235.5	7.9
80°-90°	687.0	4.4
90°-100°	452.6	2.9
100°-110°	405.9	2.6
110°-120°	335.9	2.2
120°-130°	259.7	1.7
130°-140°	183.8	1.2
140°-150°	110.9	0.7
150°-160°	53.3	0.3
160°-170°	17.4	0.1
170°-180°	2.1	0.0
0°-30°	3394.6	21.8
0°-40°	5583.2	35.8
0°-60°	10069.3	64.6
0°-90°	13777.4	88.3
90°-120°	1194.4	7.7
90°-150°	1748.8	11.2
90°-180°	1822.0	11.7
0°-180°	15599.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4333	4333	4333	4333	4333	
5°	4344	4336	4298	4333	4322	412
15°	4162	4175	4172	4229	4229	1173
25°	3798	3852	3897	3983	3986	1751
35°	3302	3390	3505	3617	3649	2066
45°	2714	2856	3029	3166	3203	2092
55°	2065	2249	2466	2620	2674	1848
65°	1397	1597	1846	2028	2084	1385
75°	727	938	1213	1405	1483	771
85°	160	398	673	860	935	184
90°	3	224	476	654	719	11
95°	3	214	462	633	694	2
105°	3	184	433	596	649	3
115°	5	160	366	529	588	4
125°	5	136	312	451	508	5
135°	5	107	262	371	417	4
145°	5	78	182	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°	4332.8	4332.8	4332.8	4332.8	4332.8
2.5°	4362.2	4348.8	4303.4	4332.8	4319.4
5°	4343.5	4335.5	4298.1	4332.8	4322.1
7.5°	4314.1	4311.4	4282.0	4322.1	4311.4
10°	4274.0	4279.4	4255.3	4298.1	4290.1
12.5°	4223.3	4231.3	4220.6	4268.7	4263.3
15°	4161.8	4175.2	4172.5	4228.6	4228.6
17.5°	4087.0	4105.7	4116.4	4180.5	4180.5
20°	3998.9	4028.3	4049.6	4119.1	4129.8
22.5°	3910.7	3945.5	3977.5	4049.6	4065.7
25°	3798.5	3852.0	3897.4	3982.9	3985.5
27.5°	3689.0	3747.8	3809.2	3892.0	3900.1
30°	3568.8	3643.6	3718.4	3798.5	3822.6
32.5°	3440.6	3523.4	3606.2	3713.1	3745.1
35°	3301.7	3389.8	3504.7	3616.9	3649.0
37.5°	3162.8	3261.6	3395.2	3510.0	3539.4
40°	3021.2	3130.7	3280.3	3397.9	3432.6
42.5°	2863.6	2997.2	3157.4	3283.0	3323.1
45°	2714.0	2855.6	3029.2	3165.5	3202.9
47.5°	2556.4	2706.0	2893.0	3037.2	3080.0
50°	2388.1	2559.1	2759.4	2903.7	2943.7
52.5°	2230.5	2404.1	2615.2	2764.8	2820.9
55°	2064.9	2249.2	2465.6	2620.5	2673.9
57.5°	1910.0	2086.3	2318.7	2473.6	2540.4
60°	1733.7	1928.7	2161.1	2329.3	2382.8
62.5°	1568.0	1765.7	2006.1	2179.8	2241.2
65°	1397.1	1597.4	1845.8	2027.5	2083.6
67.5°	1236.8	1434.5	1688.2	1867.2	1939.3
70°	1060.5	1268.9	1528.0	1712.3	1773.7
72.5°	886.9	1103.2	1367.7	1565.4	1634.8
75°	726.6	937.6	1212.8	1405.1	1482.6
77.5°	571.7	785.4	1063.2	1260.8	1327.6
80°	416.7	641.1	924.3	1119.3	1183.4
82.5°	275.1	510.2	790.7	985.7	1055.2
85°	160.3	398.0	673.2	860.1	934.9
87.5°	69.5	301.9	563.6	748.0	809.4
90°	2.7	224.4	475.5	654.5	718.6
92.5°	2.7	219.0	464.8	641.1	702.5
95°	2.7	213.7	462.1	633.1	694.5
97.5°	2.7	211.0	456.8	627.7	686.5
100°	2.7	203.0	448.8	617.1	675.8
102.5°	2.7	192.3	440.8	606.4	662.5
105°	2.7	184.3	432.7	595.7	649.1
107.5°	2.7	176.3	419.4	582.3	635.8
110°	2.7	168.3	398.0	569.0	622.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	165.6	382.0	550.3	606.4
115°	5.3	160.3	366.0	528.9	587.7
117.5°	5.3	157.6	352.6	507.5	569.0
120°	5.3	149.6	339.3	488.8	547.6
122.5°	5.3	141.6	325.9	470.1	528.9
125°	5.3	136.2	312.5	451.4	507.5
127.5°	5.3	128.2	301.9	432.7	483.5
130°	5.3	122.9	288.5	411.4	462.1
132.5°	5.3	114.9	275.1	390.0	438.1
135°	5.3	106.9	261.8	371.3	416.7
137.5°	5.3	96.2	245.8	349.9	392.7
140°	5.3	88.2	224.4	328.6	368.6
142.5°	5.3	82.8	203.0	304.5	341.9
145°	5.3	77.5	181.6	280.5	315.2
147.5°	5.3	72.1	162.9	256.4	288.5
150°	5.3	64.1	144.2	235.1	261.8
152.5°	8.0	58.8	128.2	208.4	235.1
155°	8.0	53.4	112.2	179.0	208.4
157.5°	8.0	48.1	96.2	149.6	181.6
160°	8.0	42.7	82.8	122.9	154.9
162.5°	8.0	40.1	72.1	101.5	130.9
165°	8.0	34.7	61.4	82.8	106.9
167.5°	8.0	26.7	50.8	64.1	88.2
170°	8.0	21.4	40.1	45.4	66.8
172.5°	8.0	16.0	29.4	32.1	34.7
175°	8.0	13.4	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)