

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: P567418

Luminaire Tested: **8SNX-148HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567418  
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-148HL-LW-UNV-L830-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

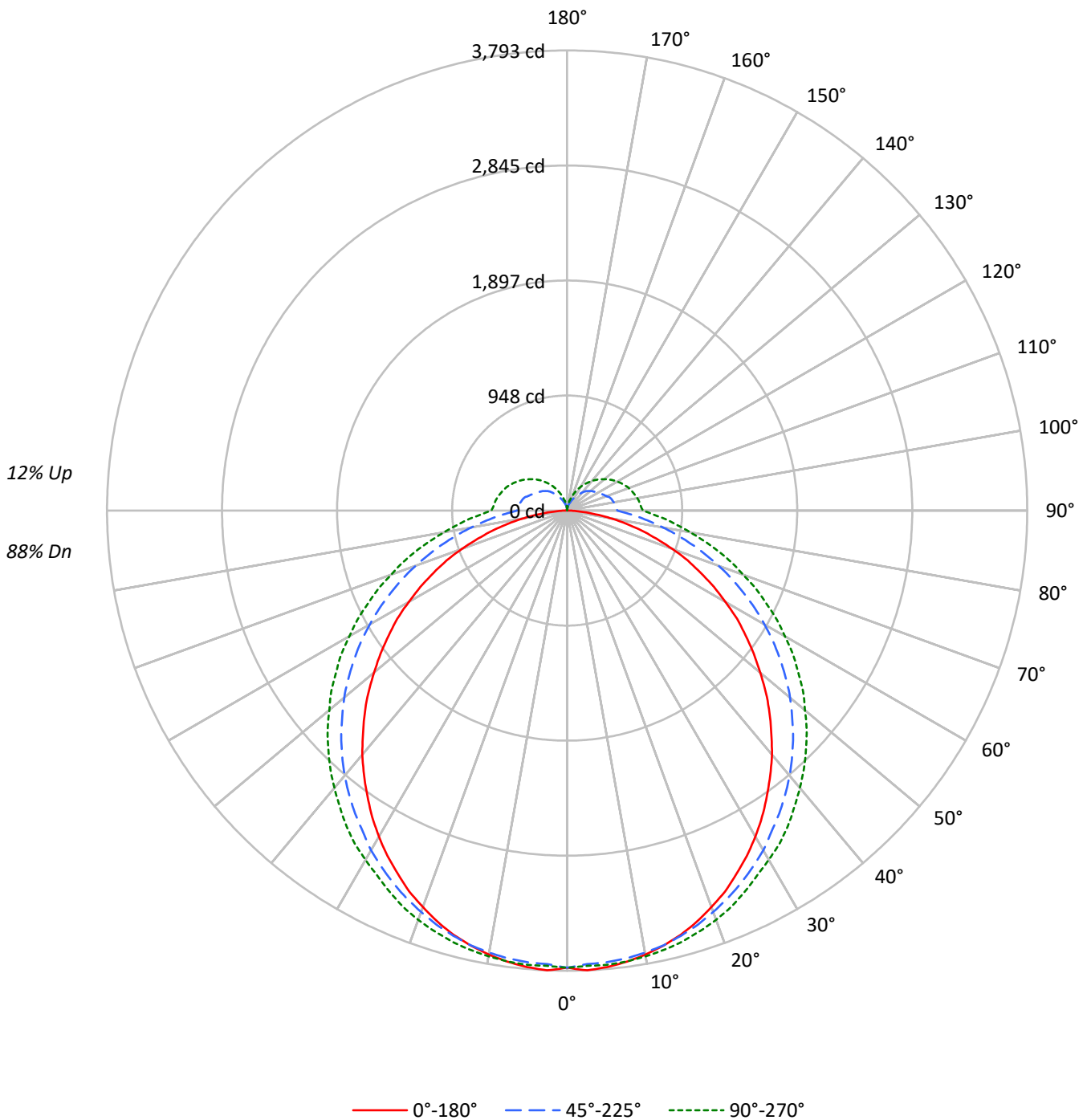
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13564.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 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): 103.6  
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°	20277	20277	20277
5°	20367	19368	19185
10°	20236	18625	18242
15°	20052	17886	17382
20°	19765	17136	16551
25°	19426	16405	15699
30°	19056	15690	14915
35°	18592	14938	14212
40°	18140	14234	13447
45°	17595	13490	12718
50°	16966	12720	11943
55°	16361	11873	11176
60°	15661	10981	10350
65°	14809	10007	9496
70°	13724	8951	8571
75°	12190	7791	7685
80°	10045	6630	6671
85°	6952	5512	5824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.7	2.6
10°-20°	1028.9	7.6
20°-30°	1565.2	11.5
30°-40°	1903.1	14.0
40°-50°	2013.5	14.8
50°-60°	1887.3	13.9
60°-70°	1552.6	11.4
70°-80°	1074.3	7.9
80°-90°	597.4	4.4
90°-100°	393.6	2.9
100°-110°	352.9	2.6
110°-120°	292.1	2.2
120°-130°	225.8	1.7
130°-140°	159.8	1.2
140°-150°	96.4	0.7
150°-160°	46.3	0.3
160°-170°	15.2	0.1
170°-180°	1.9	0.0
0°-30°	2951.7	21.8
0°-40°	4854.9	35.8
0°-60°	8755.7	64.6
0°-90°	11980.0	88.3
90°-120°	1038.6	7.7
90°-150°	1520.7	11.2
90°-180°	1584.0	11.7
0°-180°	13564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3768	3768	3768	3768	3768	
5°	3777	3770	3737	3768	3758	359
15°	3619	3630	3628	3677	3677	1020
25°	3303	3350	3389	3463	3466	1523
35°	2871	2948	3048	3145	3173	1797
45°	2360	2483	2634	2752	2785	1819
55°	1796	1956	2144	2279	2325	1607
65°	1215	1389	1605	1763	1812	1204
75°	632	815	1054	1222	1289	670
85°	139	346	585	748	813	160
90°	2	195	414	569	625	9
95°	2	186	402	550	604	2
105°	2	160	376	518	564	2
115°	5	139	318	460	511	4
125°	5	118	272	393	441	4
135°	5	93	228	323	362	4
145°	5	67	158	244	274	3
155°	7	46	98	156	181	3
165°	7	30	53	72	93	2
175°	7	12	16	16	9	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3767.6	3767.6	3767.6	3767.6	3767.6
2.5°	3793.1	3781.5	3742.0	3767.6	3755.9
5°	3776.8	3769.9	3737.4	3767.6	3758.3
7.5°	3751.3	3749.0	3723.4	3758.3	3749.0
10°	3716.5	3721.1	3700.2	3737.4	3730.4
12.5°	3672.3	3679.3	3670.0	3711.8	3707.2
15°	3618.9	3630.5	3628.2	3677.0	3677.0
17.5°	3553.9	3570.1	3579.4	3635.2	3635.2
20°	3477.2	3502.8	3521.3	3581.7	3591.0
22.5°	3400.6	3430.8	3458.6	3521.3	3535.3
25°	3303.0	3349.5	3388.9	3463.3	3465.6
27.5°	3207.8	3258.9	3312.3	3384.3	3391.3
30°	3103.2	3168.3	3233.3	3303.0	3323.9
32.5°	2991.7	3063.8	3135.8	3228.7	3256.5
35°	2871.0	2947.6	3047.5	3145.0	3172.9
37.5°	2750.2	2836.1	2952.3	3052.1	3077.7
40°	2627.1	2722.3	2852.4	2954.6	2984.8
42.5°	2490.0	2606.2	2745.5	2854.7	2889.5
45°	2359.9	2483.1	2634.0	2752.5	2785.0
47.5°	2222.9	2353.0	2515.6	2641.0	2678.2
50°	2076.6	2225.2	2399.4	2524.9	2559.7
52.5°	1939.5	2090.5	2274.0	2404.1	2452.9
55°	1795.5	1955.8	2143.9	2278.7	2325.1
57.5°	1660.8	1814.1	2016.2	2150.9	2209.0
60°	1507.5	1677.0	1879.1	2025.5	2071.9
62.5°	1363.5	1535.4	1744.4	1895.4	1948.8
65°	1214.8	1389.0	1605.0	1763.0	1811.8
67.5°	1075.4	1247.3	1468.0	1623.6	1686.3
70°	922.1	1103.3	1328.6	1488.9	1542.3
72.5°	771.2	959.3	1189.3	1361.2	1421.5
75°	631.8	815.3	1054.5	1221.8	1289.1
77.5°	497.1	682.9	924.5	1096.4	1154.4
80°	362.4	557.5	803.7	973.2	1029.0
82.5°	239.2	443.7	687.5	857.1	917.5
85°	139.4	346.1	585.3	747.9	813.0
87.5°	60.4	262.5	490.1	650.4	703.8
90°	2.3	195.1	413.5	569.1	624.8
92.5°	2.3	190.5	404.2	557.5	610.9
95°	2.3	185.8	401.8	550.5	603.9
97.5°	2.3	183.5	397.2	545.9	597.0
100°	2.3	176.5	390.2	536.6	587.7
102.5°	2.3	167.2	383.3	527.3	576.1
105°	2.3	160.3	376.3	518.0	564.4
107.5°	2.3	153.3	364.7	506.4	552.8
110°	2.3	146.3	346.1	494.8	541.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	144.0	332.2	478.5	527.3
115°	4.6	139.4	318.2	459.9	511.0
117.5°	4.6	137.0	306.6	441.3	494.8
120°	4.6	130.1	295.0	425.1	476.2
122.5°	4.6	123.1	283.4	408.8	459.9
125°	4.6	118.5	271.8	392.6	441.3
127.5°	4.6	111.5	262.5	376.3	420.4
130°	4.6	106.8	250.9	357.7	401.8
132.5°	4.6	99.9	239.2	339.1	380.9
135°	4.6	92.9	227.6	322.9	362.4
137.5°	4.6	83.6	213.7	304.3	341.4
140°	4.6	76.7	195.1	285.7	320.5
142.5°	4.6	72.0	176.5	264.8	297.3
145°	4.6	67.4	157.9	243.9	274.1
147.5°	4.6	62.7	141.7	223.0	250.9
150°	4.6	55.7	125.4	204.4	227.6
152.5°	7.0	51.1	111.5	181.2	204.4
155°	7.0	46.5	97.6	155.6	181.2
157.5°	7.0	41.8	83.6	130.1	157.9
160°	7.0	37.2	72.0	106.8	134.7
162.5°	7.0	34.8	62.7	88.3	113.8
165°	7.0	30.2	53.4	72.0	92.9
167.5°	7.0	23.2	44.1	55.7	76.7
170°	7.0	18.6	34.8	39.5	58.1
172.5°	7.0	13.9	25.6	27.9	30.2
175°	7.0	11.6	16.3	16.3	9.3
177.5°	7.0	9.3	9.3	9.3	4.6
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)