

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: P567396

Luminaire Tested: **8SNX-148HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567396  
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-FDL-UNV-L840-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

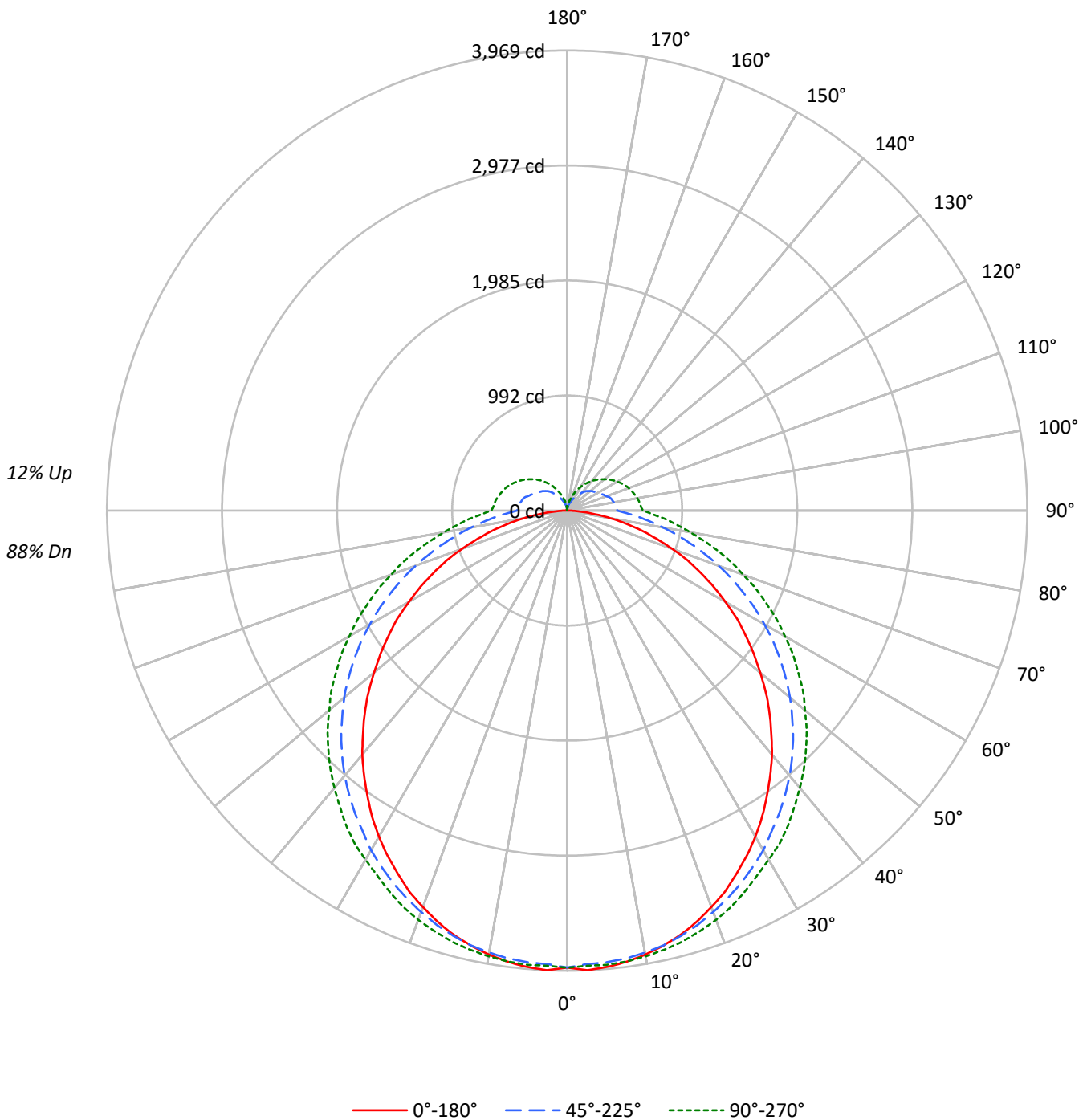
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14192.0 lumens  
Efficiency: N/A  
Efficacy: 137.0 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): 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°	21216	21216	21216
5°	21339	20904	20939
10°	21231	20714	20721
15°	21068	20485	20520
20°	20798	20208	20289
25°	20473	19927	19980
30°	20118	19645	19716
35°	19664	19307	19532
40°	19227	19027	19249
45°	18696	18703	19011
50°	18079	18361	18708
55°	17497	17935	18438
60°	16826	17483	18108
65°	16008	16965	17785
70°	14968	16399	17417
75°	13483	15785	17292
80°	11413	15428	17154
85°	8497	15828	18081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.2	2.6
10°-20°	1076.5	7.6
20°-30°	1637.7	11.5
30°-40°	1991.2	14.0
40°-50°	2106.7	14.8
50°-60°	1974.7	13.9
60°-70°	1624.5	11.4
70°-80°	1124.0	7.9
80°-90°	625.0	4.4
90°-100°	411.8	2.9
100°-110°	369.3	2.6
110°-120°	305.6	2.2
120°-130°	236.3	1.7
130°-140°	167.3	1.2
140°-150°	100.9	0.7
150°-160°	48.5	0.3
160°-170°	15.9	0.1
170°-180°	1.9	0.0
0°-30°	3088.4	21.8
0°-40°	5079.6	35.8
0°-60°	9161.0	64.6
0°-90°	12534.6	88.3
90°-120°	1086.7	7.7
90°-150°	1591.1	11.2
90°-180°	1657.0	11.7
0°-180°	14192.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3942	3942	3942	3942	3942	
5°	3952	3944	3910	3942	3932	375
15°	3786	3799	3796	3847	3847	1067
25°	3456	3504	3546	3624	3626	1593
35°	3004	3084	3189	3291	3320	1880
45°	2469	2598	2756	2880	2914	1903
55°	1879	2046	2243	2384	2433	1682
65°	1271	1453	1679	1845	1896	1260
75°	661	853	1103	1278	1349	701
85°	146	362	612	783	851	168
90°	2	204	433	595	654	10
95°	2	194	420	576	632	2
105°	2	168	394	542	591	3
115°	5	146	333	481	535	4
125°	5	124	284	411	462	4
135°	5	97	238	338	379	4
145°	5	70	165	255	287	3
155°	7	49	102	163	190	3
165°	7	32	56	75	97	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3942.0	3942.0	3942.0	3942.0	3942.0
2.5°	3968.7	3956.6	3915.3	3942.0	3929.8
5°	3951.7	3944.4	3910.4	3942.0	3932.3
7.5°	3925.0	3922.5	3895.8	3932.3	3922.5
10°	3888.5	3893.4	3871.5	3910.4	3903.1
12.5°	3842.3	3849.6	3839.9	3883.7	3878.8
15°	3786.4	3798.6	3796.2	3847.2	3847.2
17.5°	3718.4	3735.4	3745.1	3803.5	3803.5
20°	3638.2	3664.9	3684.4	3747.6	3757.3
22.5°	3558.0	3589.6	3618.8	3684.4	3699.0
25°	3455.9	3504.5	3545.8	3623.6	3626.0
27.5°	3356.3	3409.7	3465.6	3541.0	3548.3
30°	3246.9	3315.0	3383.0	3455.9	3477.8
32.5°	3130.3	3205.6	3280.9	3378.2	3407.3
35°	3003.9	3084.1	3188.6	3290.7	3319.8
37.5°	2877.5	2967.4	3088.9	3193.4	3220.2
40°	2748.7	2848.3	2984.4	3091.4	3123.0
42.5°	2605.3	2726.8	2872.6	2986.9	3023.3
45°	2469.2	2598.0	2756.0	2879.9	2914.0
47.5°	2325.8	2461.9	2632.0	2763.3	2802.2
50°	2172.7	2328.3	2510.5	2641.8	2678.2
52.5°	2029.3	2187.3	2379.3	2515.4	2566.4
55°	1878.6	2046.3	2243.2	2384.1	2432.8
57.5°	1737.7	1898.1	2109.5	2250.5	2311.2
60°	1577.3	1754.7	1966.1	2119.2	2167.9
62.5°	1426.6	1606.4	1825.2	1983.1	2039.0
65°	1271.1	1453.3	1679.4	1844.6	1895.7
67.5°	1125.2	1305.1	1536.0	1698.8	1764.4
70°	964.8	1154.4	1390.1	1557.8	1613.7
72.5°	806.9	1003.7	1244.3	1424.2	1487.4
75°	661.0	853.0	1103.4	1278.4	1348.8
77.5°	520.1	714.5	967.3	1147.1	1207.9
80°	379.1	583.3	840.9	1018.3	1076.6
82.5°	250.3	464.2	719.4	896.8	960.0
85°	145.8	362.1	612.4	782.6	850.6
87.5°	63.2	274.6	512.8	680.5	736.4
90°	2.4	204.1	432.6	595.4	653.8
92.5°	2.4	199.3	422.9	583.3	639.2
95°	2.4	194.4	420.4	576.0	631.9
97.5°	2.4	192.0	415.6	571.1	624.6
100°	2.4	184.7	408.3	561.4	614.9
102.5°	2.4	175.0	401.0	551.7	602.7
105°	2.4	167.7	393.7	542.0	590.6
107.5°	2.4	160.4	381.6	529.8	578.4
110°	2.4	153.1	362.1	517.7	566.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	150.7	347.5	500.6	551.7
115°	4.9	145.8	333.0	481.2	534.7
117.5°	4.9	143.4	320.8	461.8	517.7
120°	4.9	136.1	308.7	444.7	498.2
122.5°	4.9	128.8	296.5	427.7	481.2
125°	4.9	123.9	284.3	410.7	461.8
127.5°	4.9	116.7	274.6	393.7	439.9
130°	4.9	111.8	262.5	374.3	420.4
132.5°	4.9	104.5	250.3	354.8	398.6
135°	4.9	97.2	238.2	337.8	379.1
137.5°	4.9	87.5	223.6	318.4	357.3
140°	4.9	80.2	204.1	298.9	335.4
142.5°	4.9	75.3	184.7	277.1	311.1
145°	4.9	70.5	165.3	255.2	286.8
147.5°	4.9	65.6	148.2	233.3	262.5
150°	4.9	58.3	131.2	213.9	238.2
152.5°	7.3	53.5	116.7	189.6	213.9
155°	7.3	48.6	102.1	162.8	189.6
157.5°	7.3	43.7	87.5	136.1	165.3
160°	7.3	38.9	75.3	111.8	141.0
162.5°	7.3	36.5	65.6	92.4	119.1
165°	7.3	31.6	55.9	75.3	97.2
167.5°	7.3	24.3	46.2	58.3	80.2
170°	7.3	19.4	36.5	41.3	60.8
172.5°	7.3	14.6	26.7	29.2	31.6
175°	7.3	12.2	17.0	17.0	9.7
177.5°	7.3	9.7	9.7	9.7	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)