

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: P567395

Luminaire Tested: **8SNX-148HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567395  
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-L835-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

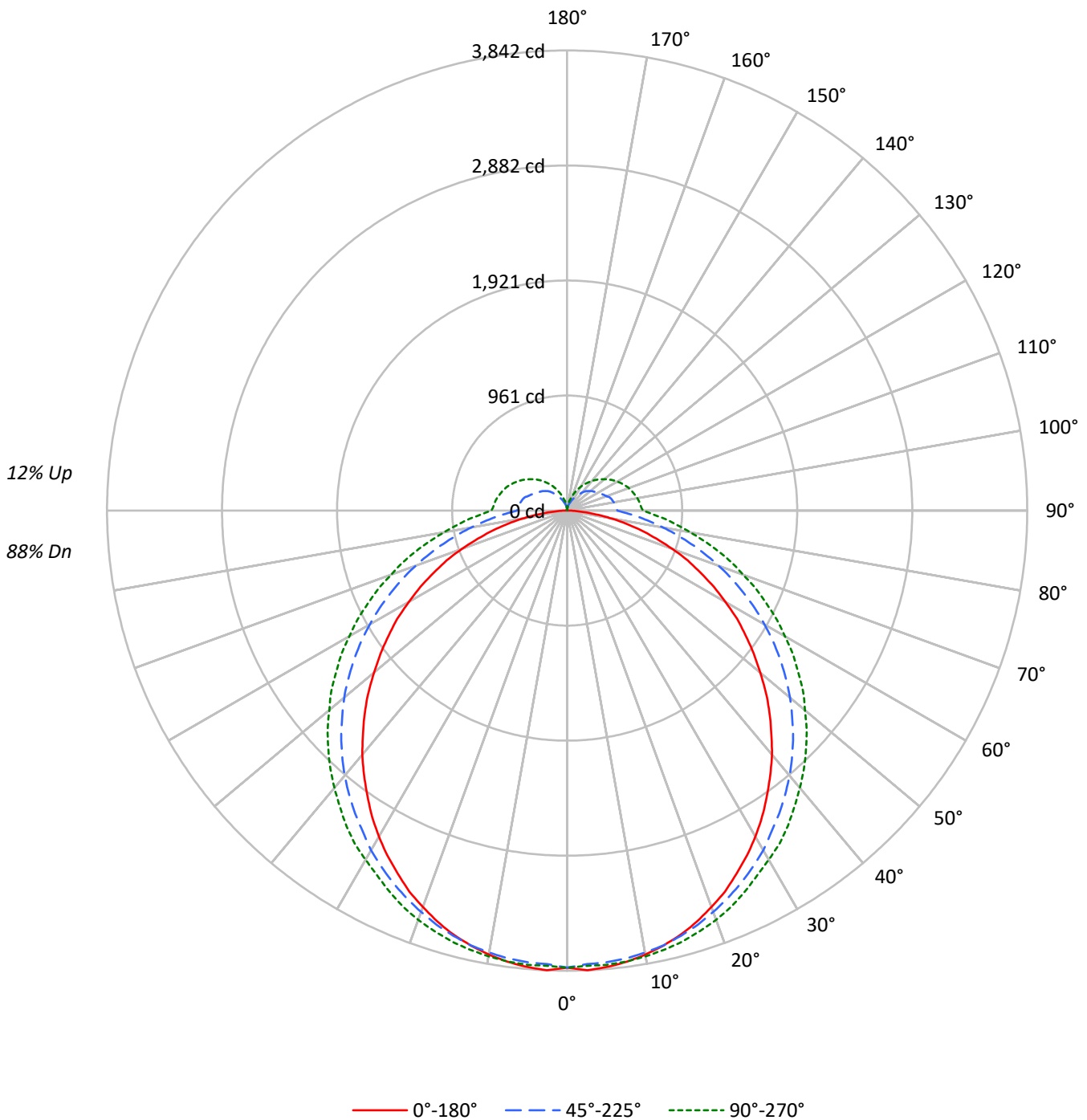
Lumens per Lamp: N/A  
Luminaire Lumens: 13738.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Semi-Direct

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°	20537	20537	20537
5°	20657	20235	20269
10°	20552	20051	20058
15°	20394	19829	19863
20°	20132	19561	19640
25°	19818	19290	19340
30°	19474	19017	19085
35°	19035	18689	18907
40°	18612	18419	18633
45°	18098	18105	18402
50°	17501	17773	18110
55°	16937	17361	17848
60°	16287	16923	17528
65°	15496	16422	17215
70°	14490	15875	16860
75°	13053	15280	16739
80°	11048	14935	16606
85°	8229	15324	17503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.3	2.6
10°-20°	1042.1	7.6
20°-30°	1585.3	11.5
30°-40°	1927.5	14.0
40°-50°	2039.3	14.8
50°-60°	1911.6	13.9
60°-70°	1572.6	11.4
70°-80°	1088.1	7.9
80°-90°	605.0	4.4
90°-100°	398.6	2.9
100°-110°	357.4	2.6
110°-120°	295.9	2.2
120°-130°	228.7	1.7
130°-140°	161.9	1.2
140°-150°	97.7	0.7
150°-160°	46.9	0.3
160°-170°	15.4	0.1
170°-180°	1.9	0.0
0°-30°	2989.6	21.8
0°-40°	4917.1	35.8
0°-60°	8868.0	64.6
0°-90°	12133.7	88.3
90°-120°	1051.9	7.7
90°-150°	1540.2	11.2
90°-180°	1604.0	11.7
0°-180°	13738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3816	3816	3816	3816	3816	
5°	3825	3818	3785	3816	3806	363
15°	3665	3677	3675	3724	3724	1033
25°	3345	3392	3432	3508	3510	1542
35°	2908	2985	3087	3185	3214	1820
45°	2390	2515	2668	2788	2821	1842
55°	1818	1981	2171	2308	2355	1628
65°	1230	1407	1626	1786	1835	1220
75°	640	826	1068	1238	1306	679
85°	141	350	593	758	823	162
90°	2	198	419	576	633	9
95°	2	188	407	558	612	2
105°	2	162	381	525	572	3
115°	5	141	322	466	518	4
125°	5	120	275	398	447	4
135°	5	94	231	327	367	4
145°	5	68	160	247	278	3
155°	7	47	99	158	184	3
165°	7	31	54	73	94	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°	3815.9	3815.9	3815.9	3815.9	3815.9
2.5°	3841.8	3830.0	3790.0	3815.9	3804.1
5°	3825.3	3818.2	3785.3	3815.9	3806.5
7.5°	3799.4	3797.1	3771.2	3806.5	3797.1
10°	3764.1	3768.8	3747.7	3785.3	3778.2
12.5°	3719.4	3726.5	3717.1	3759.4	3754.7
15°	3665.3	3677.1	3674.7	3724.1	3724.1
17.5°	3599.4	3615.9	3625.3	3681.8	3681.8
20°	3521.8	3547.7	3566.5	3627.7	3637.1
22.5°	3444.2	3474.8	3503.0	3566.5	3580.6
25°	3345.4	3392.4	3432.4	3507.7	3510.0
27.5°	3248.9	3300.7	3354.8	3427.7	3434.8
30°	3143.0	3208.9	3274.8	3345.4	3366.5
32.5°	3030.1	3103.1	3176.0	3270.1	3298.3
35°	2907.8	2985.4	3086.6	3185.4	3213.6
37.5°	2785.5	2872.5	2990.1	3091.3	3117.2
40°	2660.8	2757.2	2889.0	2992.5	3023.1
42.5°	2522.0	2639.6	2780.7	2891.3	2926.6
45°	2390.2	2514.9	2667.8	2787.8	2820.7
47.5°	2251.4	2383.2	2547.8	2674.9	2712.5
50°	2103.2	2253.8	2430.2	2557.3	2592.5
52.5°	1964.4	2117.3	2303.2	2434.9	2484.3
55°	1818.5	1980.9	2171.4	2307.9	2354.9
57.5°	1682.1	1837.4	2042.0	2178.5	2237.3
60°	1526.8	1698.6	1903.2	2051.5	2098.5
62.5°	1381.0	1555.1	1766.8	1919.7	1973.8
65°	1230.4	1406.8	1625.6	1785.6	1835.0
67.5°	1089.2	1263.3	1486.8	1644.5	1708.0
70°	934.0	1117.5	1345.7	1508.0	1562.1
72.5°	781.1	971.6	1204.5	1378.6	1439.8
75°	639.9	825.8	1068.1	1237.5	1305.7
77.5°	503.5	691.7	936.3	1110.4	1169.2
80°	367.0	564.6	814.0	985.7	1042.2
82.5°	242.3	449.3	696.4	868.1	929.3
85°	141.2	350.5	592.9	757.5	823.4
87.5°	61.2	265.8	496.4	658.7	712.8
90°	2.4	197.6	418.8	576.4	632.8
92.5°	2.4	192.9	409.3	564.6	618.7
95°	2.4	188.2	407.0	557.6	611.7
97.5°	2.4	185.9	402.3	552.9	604.6
100°	2.4	178.8	395.2	543.4	595.2
102.5°	2.4	169.4	388.2	534.0	583.4
105°	2.4	162.3	381.1	524.6	571.7
107.5°	2.4	155.3	369.4	512.9	559.9
110°	2.4	148.2	350.5	501.1	548.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	145.9	336.4	484.6	534.0
115°	4.7	141.2	322.3	465.8	517.6
117.5°	4.7	138.8	310.5	447.0	501.1
120°	4.7	131.7	298.8	430.5	482.3
122.5°	4.7	124.7	287.0	414.1	465.8
125°	4.7	120.0	275.3	397.6	447.0
127.5°	4.7	112.9	265.8	381.1	425.8
130°	4.7	108.2	254.1	362.3	407.0
132.5°	4.7	101.2	242.3	343.5	385.8
135°	4.7	94.1	230.6	327.0	367.0
137.5°	4.7	84.7	216.4	308.2	345.8
140°	4.7	77.6	197.6	289.4	324.7
142.5°	4.7	72.9	178.8	268.2	301.1
145°	4.7	68.2	160.0	247.0	277.6
147.5°	4.7	63.5	143.5	225.8	254.1
150°	4.7	56.5	127.0	207.0	230.6
152.5°	7.1	51.8	112.9	183.5	207.0
155°	7.1	47.1	98.8	157.6	183.5
157.5°	7.1	42.3	84.7	131.7	160.0
160°	7.1	37.6	72.9	108.2	136.4
162.5°	7.1	35.3	63.5	89.4	115.3
165°	7.1	30.6	54.1	72.9	94.1
167.5°	7.1	23.5	44.7	56.5	77.6
170°	7.1	18.8	35.3	40.0	58.8
172.5°	7.1	14.1	25.9	28.2	30.6
175°	7.1	11.8	16.5	16.5	9.4
177.5°	7.1	9.4	9.4	9.4	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)