

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: P567394

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567394
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-L830-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

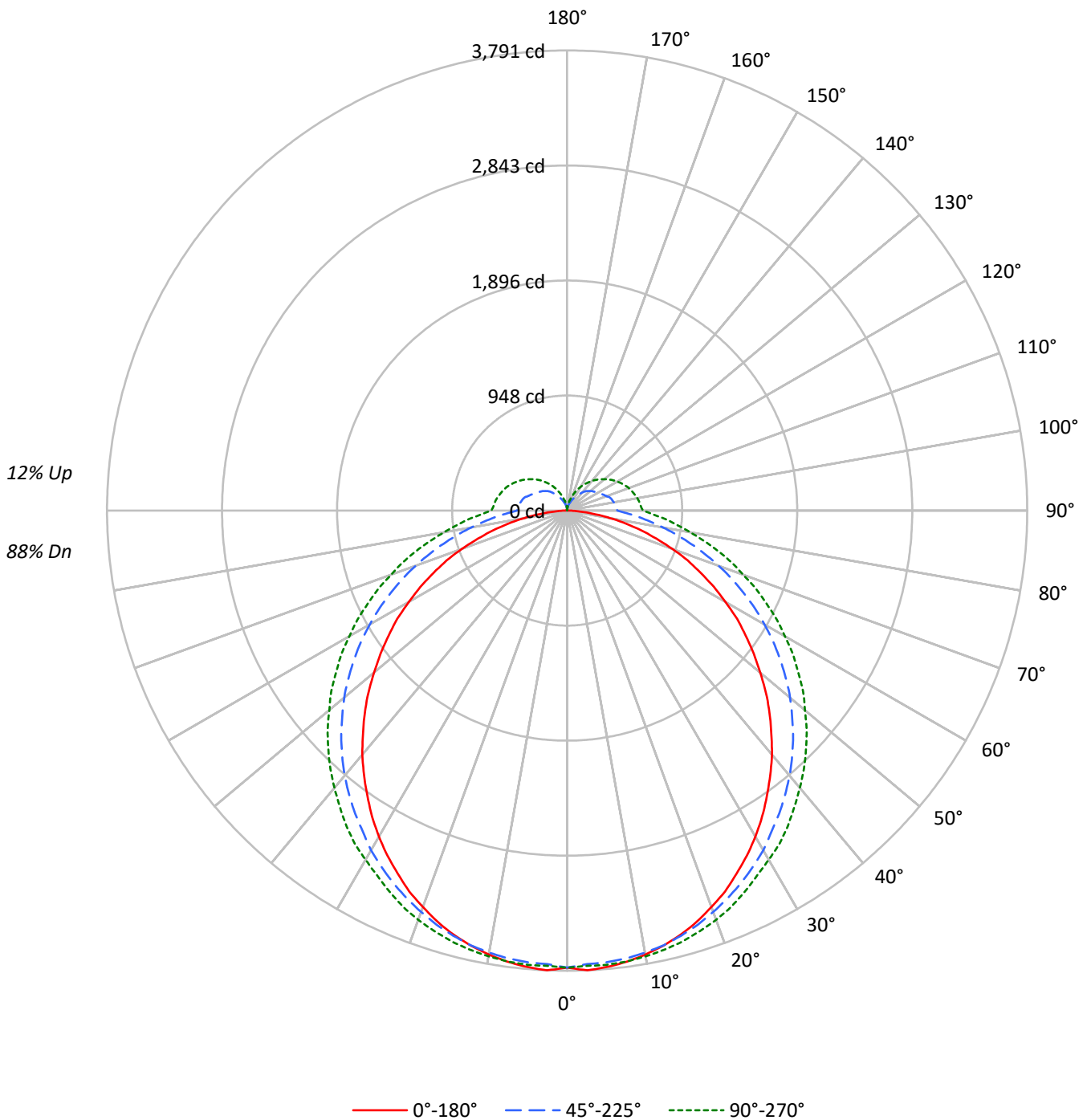
Lumens per Lamp: N/A
Luminaire Lumens: 13556.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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°	20265	20265	20265
5°	20383	19967	20000
10°	20280	19786	19793
15°	20124	19566	19600
20°	19866	19302	19379
25°	19555	19034	19084
30°	19216	18765	18832
35°	18783	18441	18657
40°	18366	18175	18386
45°	17859	17865	18159
50°	17269	17538	17870
55°	16714	17132	17612
60°	16072	16699	17296
65°	15291	16204	16987
70°	14298	15664	16637
75°	12879	15077	16517
80°	10901	14737	16386
85°	8119	15120	17271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.5	2.6
10°-20°	1028.3	7.6
20°-30°	1564.3	11.5
30°-40°	1902.0	14.0
40°-50°	2012.3	14.8
50°-60°	1886.2	13.9
60°-70°	1551.7	11.4
70°-80°	1073.7	7.9
80°-90°	597.0	4.4
90°-100°	393.3	2.9
100°-110°	352.7	2.6
110°-120°	291.9	2.2
120°-130°	225.7	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°	1.8	0.0
0°-30°	2950.0	21.8
0°-40°	4852.0	35.8
0°-60°	8750.5	64.6
0°-90°	11972.9	88.3
90°-120°	1038.0	7.7
90°-150°	1519.8	11.2
90°-180°	1583.0	11.7
0°-180°	13556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3765	3765	3765	3765	3765	
5°	3775	3768	3735	3765	3756	358
15°	3617	3628	3626	3675	3675	1019
25°	3301	3348	3387	3461	3464	1522
35°	2869	2946	3046	3143	3171	1796
45°	2359	2482	2632	2751	2783	1818
55°	1794	1955	2143	2277	2324	1606
65°	1214	1388	1604	1762	1811	1204
75°	631	815	1054	1221	1288	670
85°	139	346	585	748	812	160
90°	2	195	413	569	624	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	392	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°	3765.3	3765.3	3765.3	3765.3	3765.3
2.5°	3790.9	3779.3	3739.8	3765.3	3753.7
5°	3774.6	3767.7	3735.2	3765.3	3756.0
7.5°	3749.1	3746.8	3721.2	3756.0	3746.8
10°	3714.3	3718.9	3698.0	3735.2	3728.2
12.5°	3670.2	3677.1	3667.8	3709.6	3705.0
15°	3616.8	3628.4	3626.0	3674.8	3674.8
17.5°	3551.8	3568.0	3577.3	3633.0	3633.0
20°	3475.2	3500.7	3519.3	3579.6	3588.9
22.5°	3398.5	3428.7	3456.6	3519.3	3533.2
25°	3301.0	3347.5	3386.9	3461.2	3463.5
27.5°	3205.9	3256.9	3310.3	3382.3	3389.3
30°	3101.4	3166.4	3231.4	3301.0	3321.9
32.5°	2990.0	3061.9	3133.9	3226.8	3254.6
35°	2869.3	2945.9	3045.7	3143.2	3171.1
37.5°	2748.6	2834.4	2950.5	3050.3	3075.9
40°	2625.5	2720.7	2850.7	2952.8	2983.0
42.5°	2488.6	2604.6	2743.9	2853.0	2887.8
45°	2358.6	2481.6	2632.5	2750.9	2783.4
47.5°	2221.6	2351.6	2514.1	2639.4	2676.6
50°	2075.3	2223.9	2398.0	2523.4	2558.2
52.5°	1938.4	2089.3	2272.7	2402.7	2451.4
55°	1794.5	1954.6	2142.7	2277.3	2323.7
57.5°	1659.8	1813.0	2015.0	2149.6	2207.7
60°	1506.6	1676.1	1878.0	2024.3	2070.7
62.5°	1362.7	1534.5	1743.4	1894.3	1947.7
65°	1214.1	1388.2	1604.1	1762.0	1810.7
67.5°	1074.8	1246.6	1467.1	1622.7	1685.3
70°	921.6	1102.7	1327.8	1488.0	1541.4
72.5°	770.7	958.7	1188.6	1360.3	1420.7
75°	631.4	814.8	1053.9	1221.1	1288.4
77.5°	496.8	682.5	923.9	1095.7	1153.7
80°	362.1	557.1	803.2	972.7	1028.4
82.5°	239.1	443.4	687.1	856.6	917.0
85°	139.3	345.9	585.0	747.5	812.5
87.5°	60.4	262.3	489.8	650.0	703.4
90°	2.3	195.0	413.2	568.7	624.5
92.5°	2.3	190.4	403.9	557.1	610.5
95°	2.3	185.7	401.6	550.2	603.6
97.5°	2.3	183.4	397.0	545.5	596.6
100°	2.3	176.4	390.0	536.2	587.3
102.5°	2.3	167.1	383.0	527.0	575.7
105°	2.3	160.2	376.1	517.7	564.1
107.5°	2.3	153.2	364.5	506.1	552.5
110°	2.3	146.2	345.9	494.5	540.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	143.9	332.0	478.2	527.0
115°	4.6	139.3	318.0	459.6	510.7
117.5°	4.6	137.0	306.4	441.1	494.5
120°	4.6	130.0	294.8	424.8	475.9
122.5°	4.6	123.0	283.2	408.6	459.6
125°	4.6	118.4	271.6	392.3	441.1
127.5°	4.6	111.4	262.3	376.1	420.2
130°	4.6	106.8	250.7	357.5	401.6
132.5°	4.6	99.8	239.1	338.9	380.7
135°	4.6	92.9	227.5	322.7	362.1
137.5°	4.6	83.6	213.6	304.1	341.2
140°	4.6	76.6	195.0	285.5	320.4
142.5°	4.6	72.0	176.4	264.6	297.1
145°	4.6	67.3	157.9	243.7	273.9
147.5°	4.6	62.7	141.6	222.9	250.7
150°	4.6	55.7	125.4	204.3	227.5
152.5°	7.0	51.1	111.4	181.1	204.3
155°	7.0	46.4	97.5	155.5	181.1
157.5°	7.0	41.8	83.6	130.0	157.9
160°	7.0	37.1	72.0	106.8	134.6
162.5°	7.0	34.8	62.7	88.2	113.7
165°	7.0	30.2	53.4	72.0	92.9
167.5°	7.0	23.2	44.1	55.7	76.6
170°	7.0	18.6	34.8	39.5	58.0
172.5°	7.0	13.9	25.5	27.9	30.2
175°	7.0	11.6	16.2	16.2	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)