

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: P567397

Luminaire Tested: **8SNX-148HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567397
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-L850-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

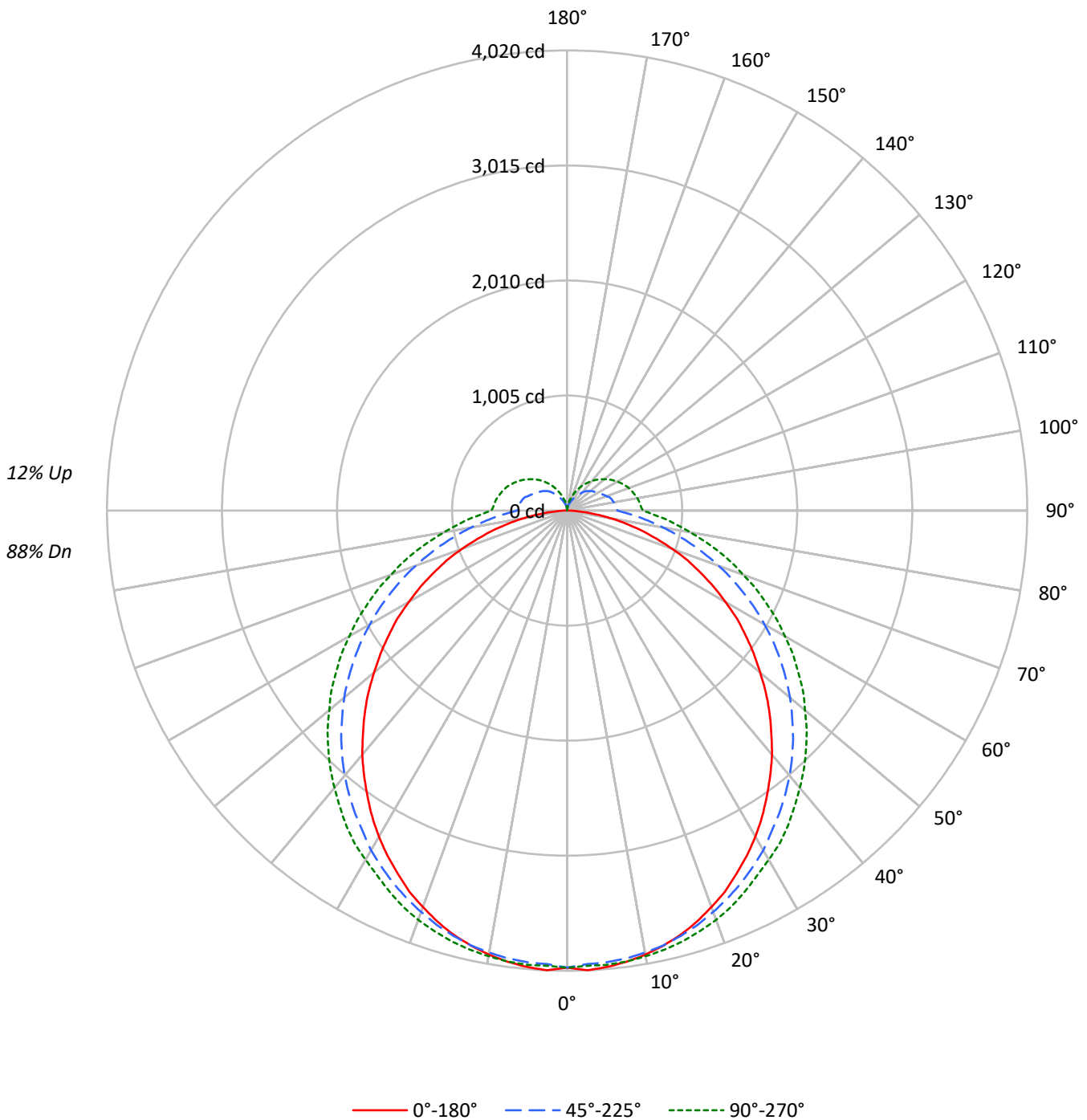
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14374.0 lumens
Efficiency: N/A
Efficacy: 138.7 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 (A_{in}): 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°	21487	21487	21487
5°	21613	21172	21207
10°	21504	20980	20987
15°	21338	20747	20782
20°	21065	20467	20549
25°	20735	20183	20236
30°	20376	19897	19969
35°	19916	19554	19783
40°	19474	19271	19496
45°	18936	18943	19254
50°	18312	18596	18948
55°	17722	18166	18675
60°	17042	17707	18340
65°	16214	17182	18013
70°	15160	16610	17641
75°	13656	15987	17513
80°	11560	15626	17373
85°	8608	16033	18313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.0	2.6
10°-20°	1090.3	7.6
20°-30°	1658.7	11.5
30°-40°	2016.8	14.0
40°-50°	2133.7	14.8
50°-60°	2000.0	13.9
60°-70°	1645.4	11.4
70°-80°	1138.5	7.9
80°-90°	633.1	4.4
90°-100°	417.1	2.9
100°-110°	374.0	2.6
110°-120°	309.6	2.2
120°-130°	239.3	1.7
130°-140°	169.4	1.2
140°-150°	102.2	0.7
150°-160°	49.1	0.3
160°-170°	16.1	0.1
170°-180°	2.0	0.0
0°-30°	3128.0	21.8
0°-40°	5144.8	35.8
0°-60°	9278.5	64.6
0°-90°	12695.4	88.3
90°-120°	1100.6	7.7
90°-150°	1611.5	11.2
90°-180°	1679.0	11.7
0°-180°	14374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3992	3992	3992	3992	3992	
5°	4002	3995	3960	3992	3983	380
15°	3835	3847	3845	3896	3896	1081
25°	3500	3550	3591	3670	3672	1613
35°	3042	3124	3230	3333	3362	1904
45°	2501	2631	2791	2917	2951	1928
55°	1903	2073	2272	2415	2464	1703
65°	1287	1472	1701	1868	1920	1276
75°	670	864	1118	1295	1366	710
85°	148	367	620	793	862	170
90°	2	207	438	603	662	10
95°	2	197	426	583	640	2
105°	2	170	399	549	598	3
115°	5	148	337	487	542	4
125°	5	126	288	416	468	4
135°	5	98	241	342	384	4
145°	5	71	167	258	290	3
155°	7	49	103	165	192	3
165°	7	32	57	76	98	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°	3992.5	3992.5	3992.5	3992.5	3992.5
2.5°	4019.6	4007.3	3965.5	3992.5	3980.2
5°	4002.4	3995.0	3960.5	3992.5	3982.7
7.5°	3975.3	3972.8	3945.8	3982.7	3972.8
10°	3938.4	3943.3	3921.2	3960.5	3953.2
12.5°	3891.6	3899.0	3889.2	3933.5	3928.5
15°	3835.0	3847.3	3844.9	3896.5	3896.5
17.5°	3766.1	3783.3	3793.2	3852.2	3852.2
20°	3684.9	3711.9	3731.6	3795.6	3805.5
22.5°	3603.6	3635.6	3665.2	3731.6	3746.4
25°	3500.2	3549.5	3591.3	3670.1	3672.5
27.5°	3399.3	3453.5	3510.1	3586.4	3593.8
30°	3288.6	3357.5	3426.4	3500.2	3522.4
32.5°	3170.4	3246.7	3323.0	3421.5	3451.0
35°	3042.4	3123.6	3229.5	3332.9	3362.4
37.5°	2914.4	3005.5	3128.6	3234.4	3261.5
40°	2783.9	2884.9	3022.7	3131.0	3163.0
42.5°	2638.7	2761.8	2909.5	3025.2	3062.1
45°	2500.9	2631.3	2791.3	2916.9	2951.3
47.5°	2355.6	2493.5	2665.8	2798.7	2838.1
50°	2200.6	2358.1	2542.7	2675.6	2712.6
52.5°	2055.3	2215.3	2409.8	2547.6	2599.3
55°	1902.7	2072.6	2272.0	2414.7	2464.0
57.5°	1760.0	1922.4	2136.6	2279.3	2340.9
60°	1597.5	1777.2	1991.3	2146.4	2195.7
62.5°	1444.9	1627.0	1848.6	2008.6	2065.2
65°	1287.4	1472.0	1700.9	1868.3	1920.0
67.5°	1139.7	1321.8	1555.7	1720.6	1787.0
70°	977.2	1169.2	1408.0	1577.8	1634.4
72.5°	817.2	1016.6	1260.3	1442.4	1506.4
75°	669.5	864.0	1117.5	1294.7	1366.1
77.5°	526.8	723.7	979.7	1161.8	1223.4
80°	384.0	590.8	851.7	1031.4	1090.4
82.5°	253.5	470.1	728.6	908.3	972.3
85°	147.7	366.8	620.3	792.6	861.5
87.5°	64.0	278.1	519.4	689.2	745.8
90°	2.5	206.8	438.1	603.1	662.1
92.5°	2.5	201.8	428.3	590.8	647.4
95°	2.5	196.9	425.8	583.4	640.0
97.5°	2.5	194.5	420.9	578.5	632.6
100°	2.5	187.1	413.5	568.6	622.8
102.5°	2.5	177.2	406.1	558.8	610.5
105°	2.5	169.8	398.8	548.9	598.1
107.5°	2.5	162.5	386.5	536.6	585.8
110°	2.5	155.1	366.8	524.3	573.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	152.6	352.0	507.1	558.8
115°	4.9	147.7	337.2	487.4	541.5
117.5°	4.9	145.2	324.9	467.7	524.3
120°	4.9	137.8	312.6	450.5	504.6
122.5°	4.9	130.5	300.3	433.2	487.4
125°	4.9	125.5	288.0	416.0	467.7
127.5°	4.9	118.2	278.1	398.8	445.5
130°	4.9	113.2	265.8	379.1	425.8
132.5°	4.9	105.8	253.5	359.4	403.7
135°	4.9	98.5	241.2	342.1	384.0
137.5°	4.9	88.6	226.5	322.5	361.8
140°	4.9	81.2	206.8	302.8	339.7
142.5°	4.9	76.3	187.1	280.6	315.1
145°	4.9	71.4	167.4	258.5	290.5
147.5°	4.9	66.5	150.2	236.3	265.8
150°	4.9	59.1	132.9	216.6	241.2
152.5°	7.4	54.2	118.2	192.0	216.6
155°	7.4	49.2	103.4	164.9	192.0
157.5°	7.4	44.3	88.6	137.8	167.4
160°	7.4	39.4	76.3	113.2	142.8
162.5°	7.4	36.9	66.5	93.5	120.6
165°	7.4	32.0	56.6	76.3	98.5
167.5°	7.4	24.6	46.8	59.1	81.2
170°	7.4	19.7	36.9	41.8	61.5
172.5°	7.4	14.8	27.1	29.5	32.0
175°	7.4	12.3	17.2	17.2	9.8
177.5°	7.4	9.8	9.8	9.8	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)