

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: P567545

Luminaire Tested: **8SNX-174HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567545
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-174HL-FDL-UNV-L950-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

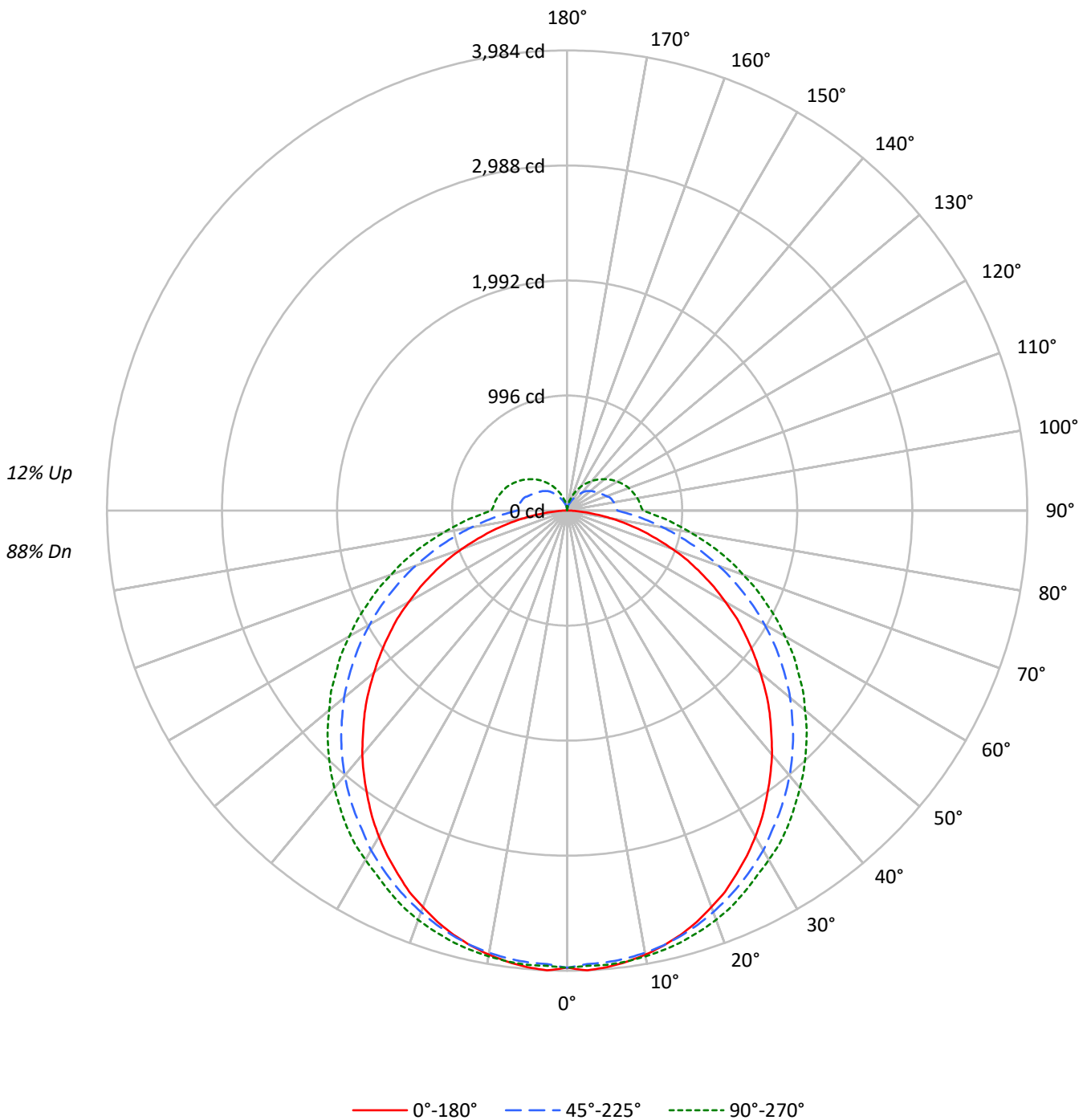
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14248.0 lumens
Efficiency: N/A
Efficacy: 114.5 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): 124.4
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

TEST NUMBER: P567545
CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567545

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L950-CD

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°	21299	21299	21299
5°	21424	20986	21022
10°	21315	20796	20803
15°	21151	20565	20601
20°	20880	20288	20369
25°	20554	20006	20059
30°	20197	19723	19793
35°	19742	19383	19609
40°	19303	19102	19325
45°	18770	18777	19086
50°	18151	18433	18782
55°	17567	18006	18511
60°	16892	17552	18179
65°	16071	17032	17854
70°	15027	16463	17486
75°	13538	15846	17361
80°	11458	15489	17222
85°	8532	15893	18153



TEST NUMBER: P567545

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L950-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	2.6
10°-20°	1080.8	7.6
20°-30°	1644.1	11.5
30°-40°	1999.1	14.0
40°-50°	2115.0	14.8
50°-60°	1982.5	13.9
60°-70°	1631.0	11.4
70°-80°	1128.5	7.9
80°-90°	627.5	4.4
90°-100°	413.4	2.9
100°-110°	370.7	2.6
110°-120°	306.8	2.2
120°-130°	237.2	1.7
130°-140°	167.9	1.2
140°-150°	101.3	0.7
150°-160°	48.6	0.3
160°-170°	15.9	0.1
170°-180°	1.9	0.0
0°-30°	3100.6	21.8
0°-40°	5099.7	35.8
0°-60°	9197.2	64.6
0°-90°	12584.1	88.3
90°-120°	1091.0	7.7
90°-150°	1597.4	11.2
90°-180°	1664.0	11.7
0°-180°	14248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3958	3958	3958	3958	3958	
5°	3967	3960	3926	3958	3948	377
15°	3801	3814	3811	3862	3862	1071
25°	3470	3518	3560	3638	3640	1599
35°	3016	3096	3201	3304	3333	1887
45°	2479	2608	2767	2891	2926	1911
55°	1886	2054	2252	2394	2442	1688
65°	1276	1459	1686	1852	1903	1265
75°	664	856	1108	1283	1354	704
85°	146	364	615	786	854	168
90°	2	205	434	598	656	10
95°	2	195	422	578	634	2
105°	2	168	395	544	593	3
115°	5	146	334	483	537	4
125°	5	124	286	412	464	4
135°	5	98	239	339	381	4
145°	5	71	166	256	288	3
155°	7	49	102	164	190	3
165°	7	32	56	76	98	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



TEST NUMBER: P567545

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3957.5	3957.5	3957.5	3957.5	3957.5
2.5°	3984.4	3972.2	3930.7	3957.5	3945.3
5°	3967.3	3960.0	3925.8	3957.5	3947.8
7.5°	3940.5	3938.0	3911.2	3947.8	3938.0
10°	3903.9	3908.7	3886.8	3925.8	3918.5
12.5°	3857.5	3864.8	3855.1	3899.0	3894.1
15°	3801.4	3813.6	3811.1	3862.4	3862.4
17.5°	3733.1	3750.2	3759.9	3818.5	3818.5
20°	3652.6	3679.4	3698.9	3762.4	3772.1
22.5°	3572.0	3603.8	3633.0	3698.9	3713.6
25°	3469.6	3518.4	3559.8	3637.9	3640.4
27.5°	3369.5	3423.2	3479.3	3555.0	3562.3
30°	3259.7	3328.0	3396.4	3469.6	3491.5
32.5°	3142.6	3218.2	3293.9	3391.5	3420.8
35°	3015.7	3096.3	3201.2	3303.6	3332.9
37.5°	2888.9	2979.1	3101.1	3206.0	3232.9
40°	2759.5	2859.6	2996.2	3103.6	3135.3
42.5°	2615.6	2737.6	2884.0	2998.7	3035.3
45°	2479.0	2608.3	2766.9	2891.3	2925.5
47.5°	2335.0	2471.6	2642.4	2774.2	2813.2
50°	2181.3	2337.4	2520.4	2652.2	2688.8
52.5°	2037.3	2195.9	2388.7	2525.3	2576.6
55°	1886.1	2054.4	2252.0	2393.6	2442.4
57.5°	1744.5	1905.6	2117.8	2259.4	2320.4
60°	1583.5	1761.6	1973.9	2127.6	2176.4
62.5°	1432.2	1612.8	1832.4	1991.0	2047.1
65°	1276.1	1459.1	1686.0	1851.9	1903.1
67.5°	1129.7	1310.2	1542.0	1705.5	1771.4
70°	968.6	1159.0	1395.6	1564.0	1620.1
72.5°	810.1	1007.7	1249.2	1429.8	1493.2
75°	663.7	856.4	1107.7	1283.4	1354.2
77.5°	522.1	717.3	971.1	1151.6	1212.6
80°	380.6	585.6	844.2	1022.3	1080.9
82.5°	251.3	466.0	722.2	900.3	963.8
85°	146.4	363.5	614.9	785.7	854.0
87.5°	63.4	275.7	514.8	683.2	739.3
90°	2.4	205.0	434.3	597.8	656.3
92.5°	2.4	200.1	424.5	585.6	641.7
95°	2.4	195.2	422.1	578.3	634.4
97.5°	2.4	192.8	417.2	573.4	627.1
100°	2.4	185.4	409.9	563.6	617.3
102.5°	2.4	175.7	402.6	553.9	605.1
105°	2.4	168.4	395.3	544.1	592.9
107.5°	2.4	161.0	383.1	531.9	580.7
110°	2.4	153.7	363.5	519.7	568.5



TEST NUMBER: P567545

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	151.3	348.9	502.6	553.9
115°	4.9	146.4	334.3	483.1	536.8
117.5°	4.9	144.0	322.1	463.6	519.7
120°	4.9	136.6	309.9	446.5	500.2
122.5°	4.9	129.3	297.7	429.4	483.1
125°	4.9	124.4	285.5	412.3	463.6
127.5°	4.9	117.1	275.7	395.3	441.6
130°	4.9	112.2	263.5	375.7	422.1
132.5°	4.9	104.9	251.3	356.2	400.1
135°	4.9	97.6	239.1	339.1	380.6
137.5°	4.9	87.8	224.5	319.6	358.7
140°	4.9	80.5	205.0	300.1	336.7
142.5°	4.9	75.6	185.4	278.2	312.3
145°	4.9	70.8	165.9	256.2	287.9
147.5°	4.9	65.9	148.8	234.2	263.5
150°	4.9	58.6	131.8	214.7	239.1
152.5°	7.3	53.7	117.1	190.3	214.7
155°	7.3	48.8	102.5	163.5	190.3
157.5°	7.3	43.9	87.8	136.6	165.9
160°	7.3	39.0	75.6	112.2	141.5
162.5°	7.3	36.6	65.9	92.7	119.6
165°	7.3	31.7	56.1	75.6	97.6
167.5°	7.3	24.4	46.4	58.6	80.5
170°	7.3	19.5	36.6	41.5	61.0
172.5°	7.3	14.6	26.8	29.3	31.7
175°	7.3	12.2	17.1	17.1	9.8
177.5°	7.3	9.8	9.8	9.8	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)