

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: P567568

Luminaire Tested: **8SNX-174HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567568
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-LW-UNV-L940-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

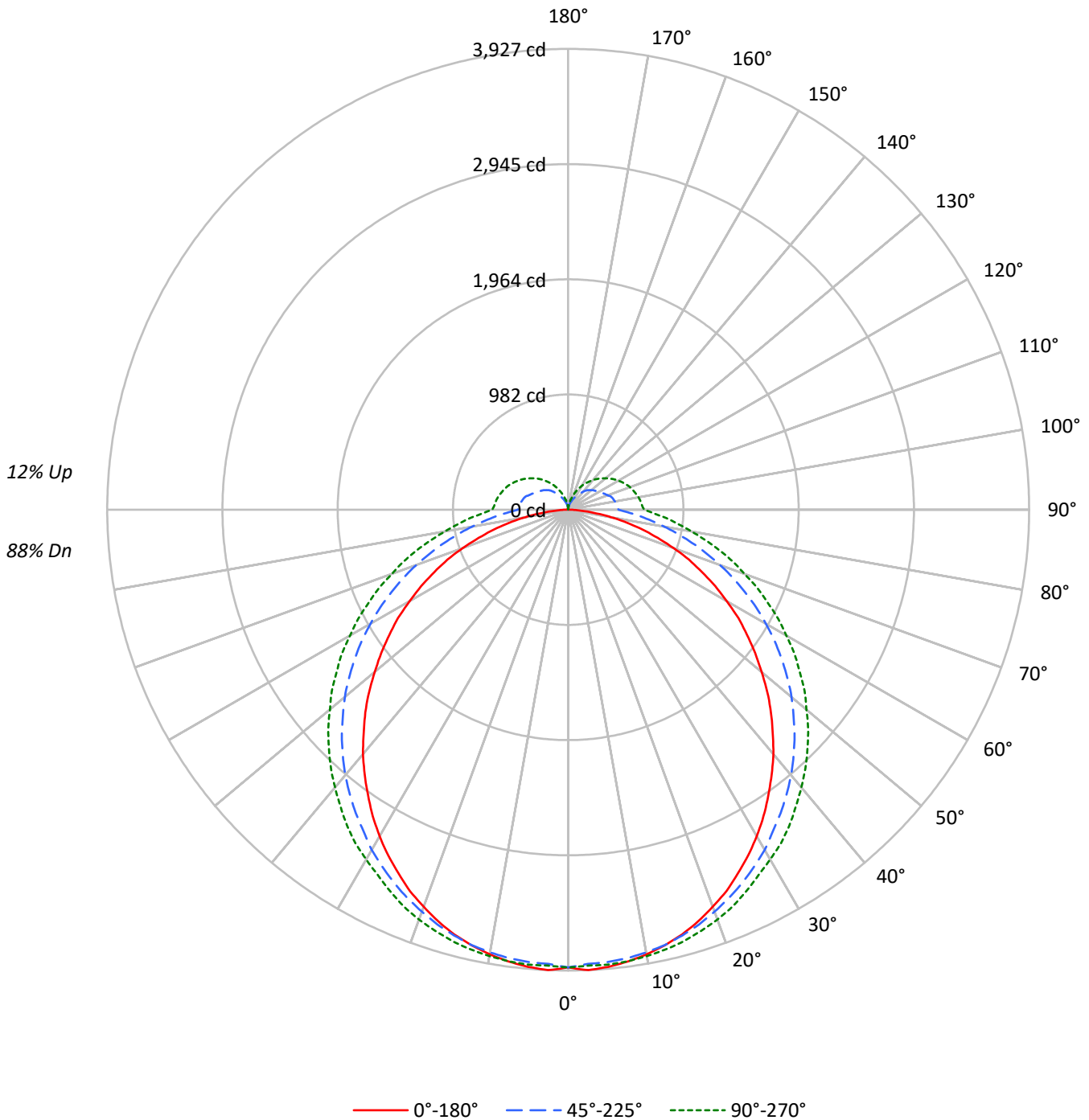
Lumens per Lamp: N/A
Luminaire Lumens: 14043.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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°	20993	20993	20993
5°	21086	20051	19863
10°	20951	19283	18886
15°	20760	18517	17996
20°	20463	17741	17135
25°	20111	16985	16254
30°	19729	16244	15442
35°	19248	15465	14714
40°	18780	14736	13922
45°	18217	13967	13168
50°	17565	13170	12365
55°	16938	12292	11571
60°	16214	11369	10716
65°	15332	10360	9832
70°	14210	9268	8873
75°	12620	8067	7957
80°	10400	6864	6906
85°	7197	5707	6030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.3	2.6
10°-20°	1065.2	7.6
20°-30°	1620.5	11.5
30°-40°	1970.3	14.0
40°-50°	2084.6	14.8
50°-60°	1954.0	13.9
60°-70°	1607.5	11.4
70°-80°	1112.3	7.9
80°-90°	618.5	4.4
90°-100°	407.5	2.9
100°-110°	365.4	2.6
110°-120°	302.4	2.2
120°-130°	233.8	1.7
130°-140°	165.5	1.2
140°-150°	99.8	0.7
150°-160°	47.9	0.3
160°-170°	15.7	0.1
170°-180°	1.9	0.0
0°-30°	3056.0	21.8
0°-40°	5026.3	35.8
0°-60°	9064.8	64.6
0°-90°	12403.1	88.3
90°-120°	1075.2	7.7
90°-150°	1574.4	11.2
90°-180°	1640.0	11.7
0°-180°	14043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3901	3901	3901	3901	3901	
5°	3910	3903	3869	3901	3891	371
15°	3747	3759	3756	3807	3807	1056
25°	3420	3468	3509	3586	3588	1576
35°	2972	3052	3155	3256	3285	1860
45°	2443	2571	2727	2850	2883	1883
55°	1859	2025	2220	2359	2407	1664
65°	1258	1438	1662	1825	1876	1247
75°	654	844	1092	1265	1335	694
85°	144	358	606	774	842	166
90°	2	202	428	589	647	10
95°	2	192	416	570	625	2
105°	2	166	390	536	584	3
115°	5	144	330	476	529	4
125°	5	123	281	406	457	4
135°	5	96	236	334	375	4
145°	5	70	164	252	284	3
155°	7	48	101	161	188	3
165°	7	31	55	74	96	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°	3900.6	3900.6	3900.6	3900.6	3900.6
2.5°	3927.1	3915.0	3874.1	3900.6	3888.6
5°	3910.2	3903.0	3869.3	3900.6	3891.0
7.5°	3883.8	3881.4	3854.9	3891.0	3881.4
10°	3847.7	3852.5	3830.9	3869.3	3862.1
12.5°	3802.0	3809.2	3799.6	3842.9	3838.1
15°	3746.7	3758.7	3756.3	3806.8	3806.8
17.5°	3679.4	3696.2	3705.8	3763.5	3763.5
20°	3600.0	3626.5	3645.7	3708.2	3717.8
22.5°	3520.6	3551.9	3580.8	3645.7	3660.1
25°	3419.6	3467.7	3508.6	3585.6	3588.0
27.5°	3321.0	3373.9	3429.3	3503.8	3511.0
30°	3212.8	3280.2	3347.5	3419.6	3441.3
32.5°	3097.4	3171.9	3246.5	3342.7	3371.5
35°	2972.3	3051.7	3155.1	3256.1	3285.0
37.5°	2847.3	2936.3	3056.5	3159.9	3186.4
40°	2719.8	2818.4	2953.1	3058.9	3090.2
42.5°	2578.0	2698.2	2842.5	2955.5	2991.6
45°	2443.3	2570.7	2727.1	2849.7	2883.4
47.5°	2301.4	2436.1	2604.4	2734.3	2772.7
50°	2149.9	2303.8	2484.2	2614.0	2650.1
52.5°	2008.0	2164.3	2354.3	2489.0	2539.5
55°	1858.9	2024.9	2219.6	2359.1	2407.2
57.5°	1719.4	1878.2	2087.4	2226.9	2287.0
60°	1560.7	1736.3	1945.5	2097.0	2145.1
62.5°	1411.6	1589.6	1806.0	1962.3	2017.6
65°	1257.7	1438.1	1661.7	1825.3	1875.8
67.5°	1113.4	1291.4	1519.8	1681.0	1745.9
70°	954.7	1142.3	1375.6	1541.5	1596.8
72.5°	798.4	993.2	1231.3	1409.2	1471.7
75°	654.1	844.1	1091.8	1264.9	1334.7
77.5°	514.6	707.0	957.1	1135.1	1195.2
80°	375.2	577.2	832.1	1007.6	1065.3
82.5°	247.7	459.3	711.8	887.4	949.9
85°	144.3	358.3	606.0	774.3	841.7
87.5°	62.5	271.7	507.4	673.3	728.7
90°	2.4	202.0	428.1	589.2	646.9
92.5°	2.4	197.2	418.4	577.2	632.5
95°	2.4	192.4	416.0	569.9	625.3
97.5°	2.4	190.0	411.2	565.1	618.0
100°	2.4	182.8	404.0	555.5	608.4
102.5°	2.4	173.1	396.8	545.9	596.4
105°	2.4	165.9	389.6	536.3	584.4
107.5°	2.4	158.7	377.6	524.2	572.3
110°	2.4	151.5	358.3	512.2	560.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	149.1	343.9	495.4	545.9
115°	4.8	144.3	329.5	476.2	529.1
117.5°	4.8	141.9	317.4	456.9	512.2
120°	4.8	134.7	305.4	440.1	493.0
122.5°	4.8	127.5	293.4	423.2	476.2
125°	4.8	122.6	281.4	406.4	456.9
127.5°	4.8	115.4	271.7	389.6	435.3
130°	4.8	110.6	259.7	370.3	416.0
132.5°	4.8	103.4	247.7	351.1	394.4
135°	4.8	96.2	235.7	334.3	375.2
137.5°	4.8	86.6	221.2	315.0	353.5
140°	4.8	79.4	202.0	295.8	331.9
142.5°	4.8	74.5	182.8	274.1	307.8
145°	4.8	69.7	163.5	252.5	283.8
147.5°	4.8	64.9	146.7	230.9	259.7
150°	4.8	57.7	129.9	211.6	235.7
152.5°	7.2	52.9	115.4	187.6	211.6
155°	7.2	48.1	101.0	161.1	187.6
157.5°	7.2	43.3	86.6	134.7	163.5
160°	7.2	38.5	74.5	110.6	139.5
162.5°	7.2	36.1	64.9	91.4	117.8
165°	7.2	31.3	55.3	74.5	96.2
167.5°	7.2	24.0	45.7	57.7	79.4
170°	7.2	19.2	36.1	40.9	60.1
172.5°	7.2	14.4	26.5	28.9	31.3
175°	7.2	12.0	16.8	16.8	9.6
177.5°	7.2	9.6	9.6	9.6	4.8
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)