

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: P567544

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567544
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-L940-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

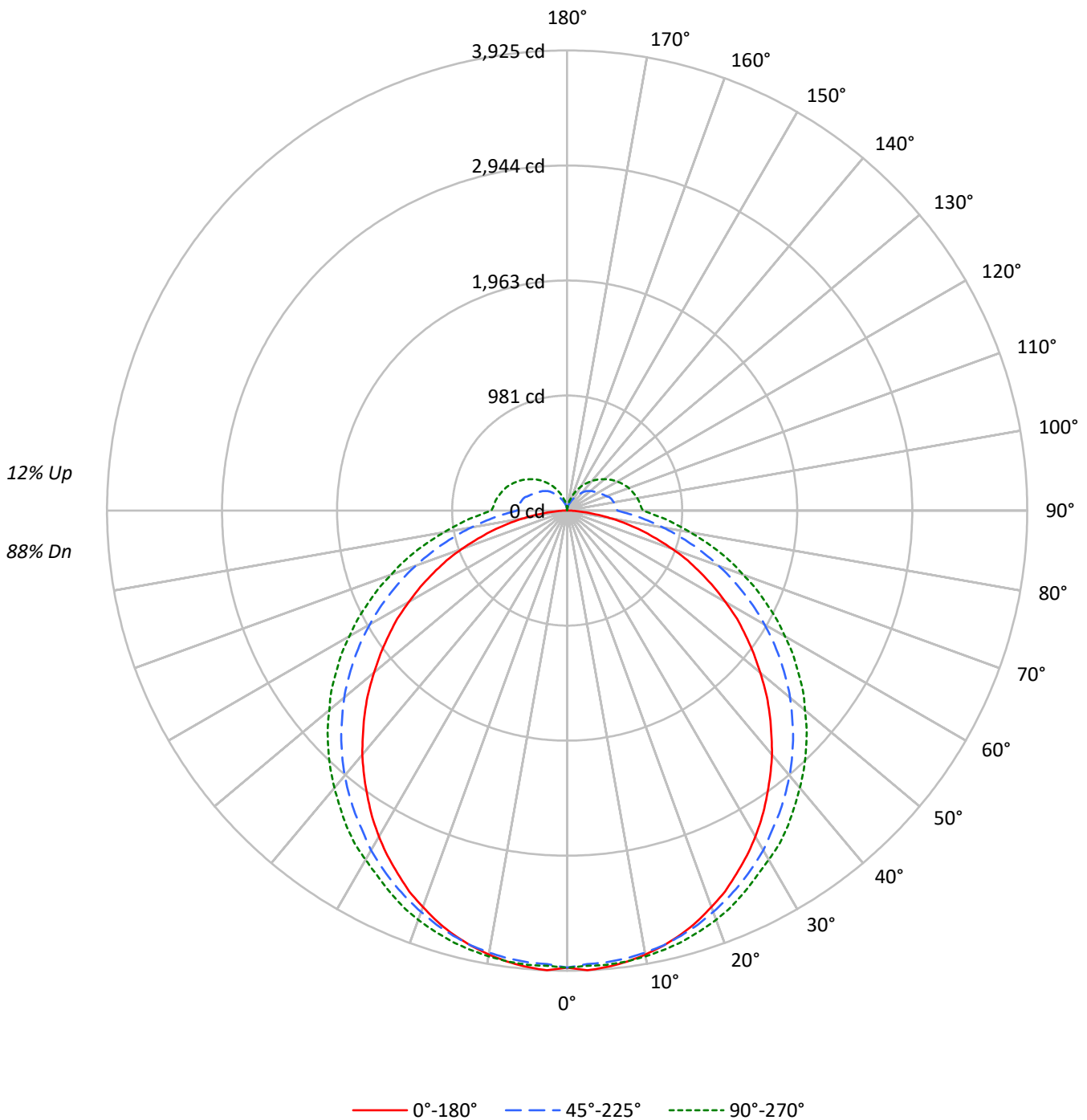
Lumens per Lamp: N/A
Luminaire Lumens: 14035.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 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

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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°	20981	20981	20981
5°	21103	20672	20707
10°	20996	20485	20492
15°	20835	20258	20292
20°	20568	19984	20064
25°	20246	19707	19759
30°	19895	19428	19498
35°	19447	19093	19316
40°	19015	18817	19036
45°	18490	18496	18800
50°	17880	18158	18501
55°	17304	17737	18234
60°	16639	17290	17907
65°	15831	16777	17588
70°	14803	16218	17225
75°	13334	15610	17101
80°	11286	15258	16964
85°	8404	15655	17881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	2.6
10°-20°	1064.6	7.6
20°-30°	1619.5	11.5
30°-40°	1969.2	14.0
40°-50°	2083.4	14.8
50°-60°	1952.9	13.9
60°-70°	1606.6	11.4
70°-80°	1111.6	7.9
80°-90°	618.1	4.4
90°-100°	407.2	2.9
100°-110°	365.2	2.6
110°-120°	302.3	2.2
120°-130°	233.7	1.7
130°-140°	165.4	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°	3054.2	21.8
0°-40°	5023.4	35.8
0°-60°	9059.7	64.6
0°-90°	12396.0	88.3
90°-120°	1074.6	7.7
90°-150°	1573.5	11.2
90°-180°	1639.0	11.7
0°-180°	14035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3898	3898	3898	3898	3898	
5°	3908	3901	3867	3898	3889	371
15°	3745	3757	3754	3805	3805	1055
25°	3418	3466	3507	3584	3586	1575
35°	2971	3050	3153	3254	3283	1859
45°	2442	2569	2726	2848	2882	1882
55°	1858	2024	2218	2358	2406	1663
65°	1257	1437	1661	1824	1875	1246
75°	654	844	1091	1264	1334	693
85°	144	358	606	774	841	166
90°	2	202	428	589	646	10
95°	2	192	416	570	625	2
105°	2	166	389	536	584	3
115°	5	144	329	476	529	4
125°	5	123	281	406	457	4
135°	5	96	236	334	375	4
145°	5	70	163	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°	3898.4	3898.4	3898.4	3898.4	3898.4
2.5°	3924.8	3912.8	3871.9	3898.4	3886.4
5°	3908.0	3900.8	3867.1	3898.4	3888.8
7.5°	3881.6	3879.2	3852.7	3888.8	3879.2
10°	3845.5	3850.3	3828.7	3867.1	3859.9
12.5°	3799.8	3807.0	3797.4	3840.7	3835.9
15°	3744.6	3756.6	3754.2	3804.6	3804.6
17.5°	3677.3	3694.1	3703.7	3761.4	3761.4
20°	3598.0	3624.4	3643.6	3706.1	3715.7
22.5°	3518.6	3549.9	3578.7	3643.6	3658.0
25°	3417.7	3465.8	3506.6	3583.5	3585.9
27.5°	3319.2	3372.0	3427.3	3501.8	3509.0
30°	3211.0	3278.3	3345.6	3417.7	3439.3
32.5°	3095.6	3170.1	3244.6	3340.8	3369.6
35°	2970.7	3050.0	3153.3	3254.3	3283.1
37.5°	2845.7	2934.6	3054.8	3158.1	3184.6
40°	2718.3	2816.8	2951.4	3057.2	3088.4
42.5°	2576.5	2696.7	2840.9	2953.8	2989.9
45°	2441.9	2569.3	2725.5	2848.1	2881.7
47.5°	2300.1	2434.7	2602.9	2732.7	2771.2
50°	2148.7	2302.5	2482.8	2612.5	2648.6
52.5°	2006.9	2163.1	2353.0	2487.6	2538.0
55°	1857.9	2023.7	2218.4	2357.8	2405.8
57.5°	1718.5	1877.1	2086.2	2225.6	2285.7
60°	1559.8	1735.3	1944.4	2095.8	2143.9
62.5°	1410.8	1588.7	1805.0	1961.2	2016.5
65°	1257.0	1437.3	1660.8	1824.2	1874.7
67.5°	1112.8	1290.6	1519.0	1680.0	1744.9
70°	954.2	1141.6	1374.8	1540.6	1595.9
72.5°	797.9	992.6	1230.6	1408.4	1470.9
75°	653.7	843.6	1091.2	1264.2	1333.9
77.5°	514.3	706.6	956.6	1134.4	1194.5
80°	374.9	576.8	831.6	1007.0	1064.7
82.5°	247.6	459.1	711.4	886.9	949.4
85°	144.2	358.1	605.7	773.9	841.2
87.5°	62.5	271.6	507.1	673.0	728.2
90°	2.4	201.9	427.8	588.8	646.5
92.5°	2.4	197.1	418.2	576.8	632.1
95°	2.4	192.3	415.8	569.6	624.9
97.5°	2.4	189.9	411.0	564.8	617.7
100°	2.4	182.7	403.8	555.2	608.1
102.5°	2.4	173.0	396.6	545.6	596.1
105°	2.4	165.8	389.4	536.0	584.0
107.5°	2.4	158.6	377.3	524.0	572.0
110°	2.4	151.4	358.1	511.9	560.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	149.0	343.7	495.1	545.6
115°	4.8	144.2	329.3	475.9	528.8
117.5°	4.8	141.8	317.3	456.7	511.9
120°	4.8	134.6	305.2	439.8	492.7
122.5°	4.8	127.4	293.2	423.0	475.9
125°	4.8	122.6	281.2	406.2	456.7
127.5°	4.8	115.4	271.6	389.4	435.0
130°	4.8	110.6	259.6	370.1	415.8
132.5°	4.8	103.3	247.6	350.9	394.2
135°	4.8	96.1	235.5	334.1	374.9
137.5°	4.8	86.5	221.1	314.9	353.3
140°	4.8	79.3	201.9	295.6	331.7
142.5°	4.8	74.5	182.7	274.0	307.6
145°	4.8	69.7	163.4	252.4	283.6
147.5°	4.8	64.9	146.6	230.7	259.6
150°	4.8	57.7	129.8	211.5	235.5
152.5°	7.2	52.9	115.4	187.5	211.5
155°	7.2	48.1	100.9	161.0	187.5
157.5°	7.2	43.3	86.5	134.6	163.4
160°	7.2	38.5	74.5	110.6	139.4
162.5°	7.2	36.1	64.9	91.3	117.8
165°	7.2	31.2	55.3	74.5	96.1
167.5°	7.2	24.0	45.7	57.7	79.3
170°	7.2	19.2	36.1	40.9	60.1
172.5°	7.2	14.4	26.4	28.8	31.2
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)