

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: P567540

Luminaire Tested: **8SNX-174HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567540
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-L840-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

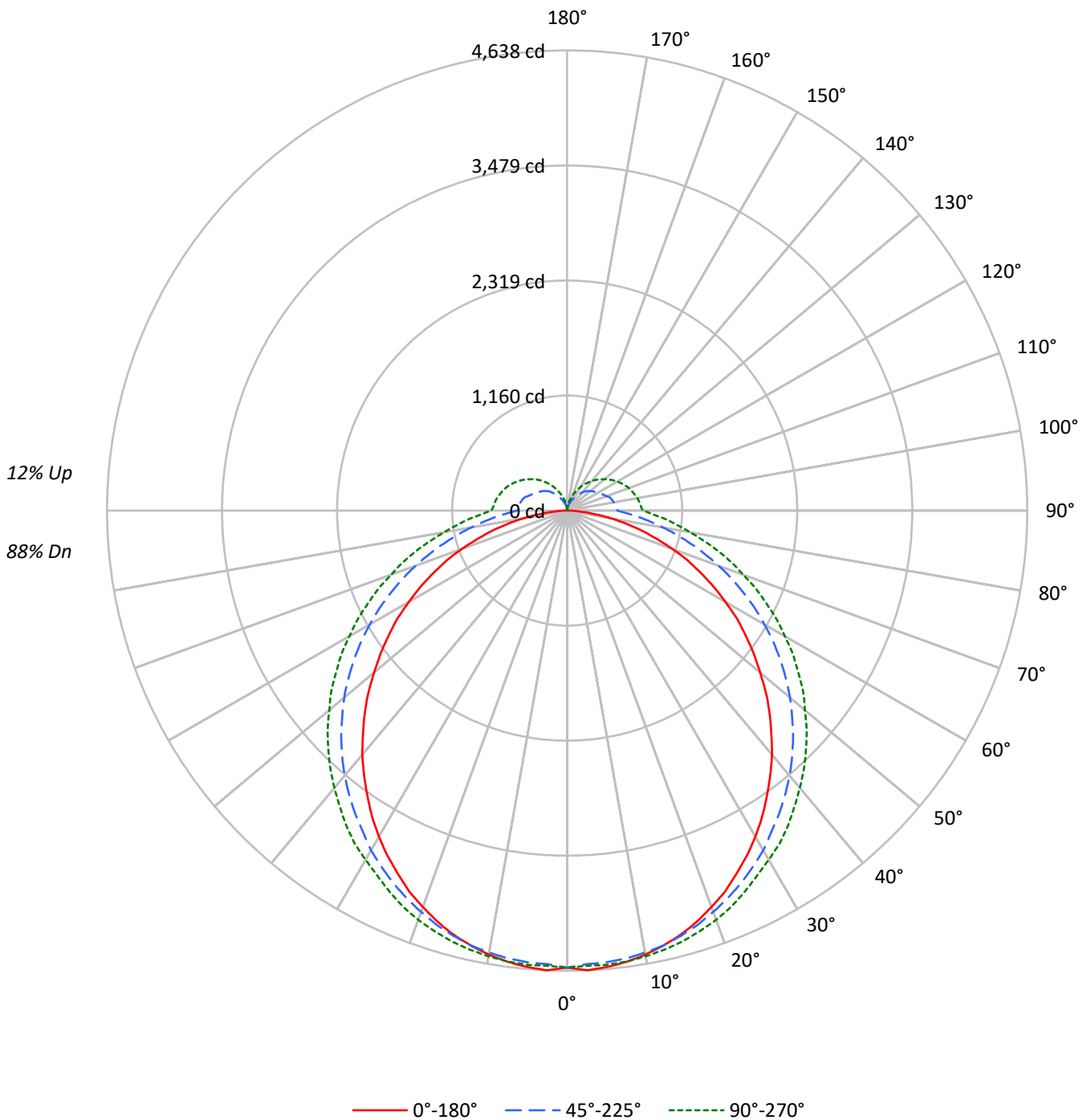
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16584.0 lumens
Efficiency: N/A
Efficacy: 133.3 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 (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

TEST NUMBER: P567540
CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567540

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L840-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°	24791	24791	24791
5°	24936	24427	24468
10°	24810	24205	24214
15°	24619	23937	23978
20°	24303	23614	23708
25°	23923	23286	23347
30°	23509	22957	23039
35°	22979	22561	22825
40°	22468	22234	22493
45°	21848	21856	22215
50°	21127	21456	21861
55°	20447	20958	21546
60°	19662	20430	21159
65°	18706	19824	20782
70°	17492	19163	20353
75°	15757	18444	20207
80°	13336	18028	20045
85°	9931	18498	21129



TEST NUMBER: P567540

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	2.6
10°-20°	1257.9	7.6
20°-30°	1913.7	11.5
30°-40°	2326.9	14.0
40°-50°	2461.7	14.8
50°-60°	2307.6	13.9
60°-70°	1898.3	11.4
70°-80°	1313.5	7.9
80°-90°	730.4	4.4
90°-100°	481.2	2.9
100°-110°	431.5	2.6
110°-120°	357.2	2.2
120°-130°	276.1	1.7
130°-140°	195.5	1.2
140°-150°	117.9	0.7
150°-160°	56.6	0.3
160°-170°	18.5	0.1
170°-180°	2.3	0.0
0°-30°	3608.9	21.8
0°-40°	5935.8	35.8
0°-60°	10705.1	64.6
0°-90°	14647.3	88.3
90°-120°	1269.8	7.7
90°-150°	1859.3	11.2
90°-180°	1937.0	11.7
0°-180°	16584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4606	4606	4606	4606	4606	
5°	4618	4609	4570	4606	4595	438
15°	4425	4439	4436	4496	4496	1247
25°	4038	4095	4144	4234	4237	1861
35°	3510	3604	3726	3845	3879	2197
45°	2885	3036	3220	3365	3405	2224
55°	2195	2391	2621	2786	2843	1965
65°	1485	1698	1962	2156	2215	1473
75°	772	997	1289	1494	1576	819
85°	170	423	716	914	994	196
90°	3	239	506	696	764	11
95°	3	227	491	673	738	2
105°	3	196	460	633	690	3
115°	6	170	389	562	625	5
125°	6	145	332	480	540	5
135°	6	114	278	395	443	4
145°	6	82	193	298	335	4
155°	8	57	119	190	222	4
165°	8	37	65	88	114	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



TEST NUMBER: P567540

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4606.4	4606.4	4606.4	4606.4	4606.4
2.5°	4637.6	4623.4	4575.2	4606.4	4592.2
5°	4617.8	4609.2	4569.5	4606.4	4595.0
7.5°	4586.5	4583.7	4552.4	4595.0	4583.7
10°	4543.9	4549.6	4524.0	4569.5	4561.0
12.5°	4490.0	4498.5	4487.1	4538.2	4532.6
15°	4424.6	4438.8	4436.0	4495.6	4495.6
17.5°	4345.1	4365.0	4376.4	4444.5	4444.5
20°	4251.4	4282.6	4305.4	4379.2	4390.6
22.5°	4157.7	4194.6	4228.7	4305.4	4322.4
25°	4038.4	4095.2	4143.5	4234.4	4237.2
27.5°	3922.0	3984.4	4049.8	4137.8	4146.3
30°	3794.2	3873.7	3953.2	4038.4	4064.0
32.5°	3657.9	3745.9	3833.9	3947.5	3981.6
35°	3510.2	3603.9	3726.0	3845.3	3879.4
37.5°	3362.5	3467.6	3609.6	3731.7	3762.9
40°	3212.0	3328.4	3487.5	3612.4	3649.3
42.5°	3044.4	3186.4	3356.8	3490.3	3532.9
45°	2885.4	3035.9	3220.5	3365.3	3405.1
47.5°	2717.8	2876.9	3075.7	3229.0	3274.5
50°	2538.9	2720.7	2933.7	3087.0	3129.6
52.5°	2371.4	2556.0	2780.3	2939.3	2999.0
55°	2195.3	2391.2	2621.3	2786.0	2842.8
57.5°	2030.6	2218.0	2465.1	2629.8	2700.8
60°	1843.1	2050.4	2297.5	2476.4	2533.2
62.5°	1667.0	1877.2	2132.8	2317.4	2382.7
65°	1485.3	1698.3	1962.4	2155.5	2215.2
67.5°	1314.9	1525.1	1794.8	1985.1	2061.8
70°	1127.5	1349.0	1624.4	1820.4	1885.7
72.5°	942.9	1172.9	1454.1	1664.2	1738.0
75°	772.5	996.8	1289.3	1493.8	1576.2
77.5°	607.7	834.9	1130.3	1340.5	1411.5
80°	443.0	681.6	982.6	1189.9	1258.1
82.5°	292.5	542.4	840.6	1047.9	1121.8
85°	170.4	423.2	715.7	914.5	994.0
87.5°	73.8	320.9	599.2	795.2	860.5
90°	2.8	238.6	505.5	695.8	763.9
92.5°	2.8	232.9	494.2	681.6	746.9
95°	2.8	227.2	491.3	673.1	738.4
97.5°	2.8	224.4	485.6	667.4	729.9
100°	2.8	215.8	477.1	656.0	718.5
102.5°	2.8	204.5	468.6	644.7	704.3
105°	2.8	196.0	460.1	633.3	690.1
107.5°	2.8	187.4	445.9	619.1	675.9
110°	2.8	178.9	423.2	604.9	661.7



TEST NUMBER: P567540

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	176.1	406.1	585.0	644.7
115°	5.7	170.4	389.1	562.3	624.8
117.5°	5.7	167.6	374.9	539.6	604.9
120°	5.7	159.0	360.7	519.7	582.2
122.5°	5.7	150.5	346.5	499.8	562.3
125°	5.7	144.8	332.3	480.0	539.6
127.5°	5.7	136.3	320.9	460.1	514.0
130°	5.7	130.6	306.7	437.4	491.3
132.5°	5.7	122.1	292.5	414.6	465.8
135°	5.7	113.6	278.3	394.8	443.0
137.5°	5.7	102.2	261.3	372.0	417.5
140°	5.7	93.7	238.6	349.3	391.9
142.5°	5.7	88.0	215.8	323.8	363.5
145°	5.7	82.4	193.1	298.2	335.1
147.5°	5.7	76.7	173.2	272.6	306.7
150°	5.7	68.2	153.4	249.9	278.3
152.5°	8.5	62.5	136.3	221.5	249.9
155°	8.5	56.8	119.3	190.3	221.5
157.5°	8.5	51.1	102.2	159.0	193.1
160°	8.5	45.4	88.0	130.6	164.7
162.5°	8.5	42.6	76.7	107.9	139.2
165°	8.5	36.9	65.3	88.0	113.6
167.5°	8.5	28.4	54.0	68.2	93.7
170°	8.5	22.7	42.6	48.3	71.0
172.5°	8.5	17.0	31.2	34.1	36.9
175°	8.5	14.2	19.9	19.9	11.4
177.5°	8.5	11.4	11.4	11.4	5.7
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)