

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: P567420

Luminaire Tested: **8SNX-148HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567420
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-LW-UNV-L840-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

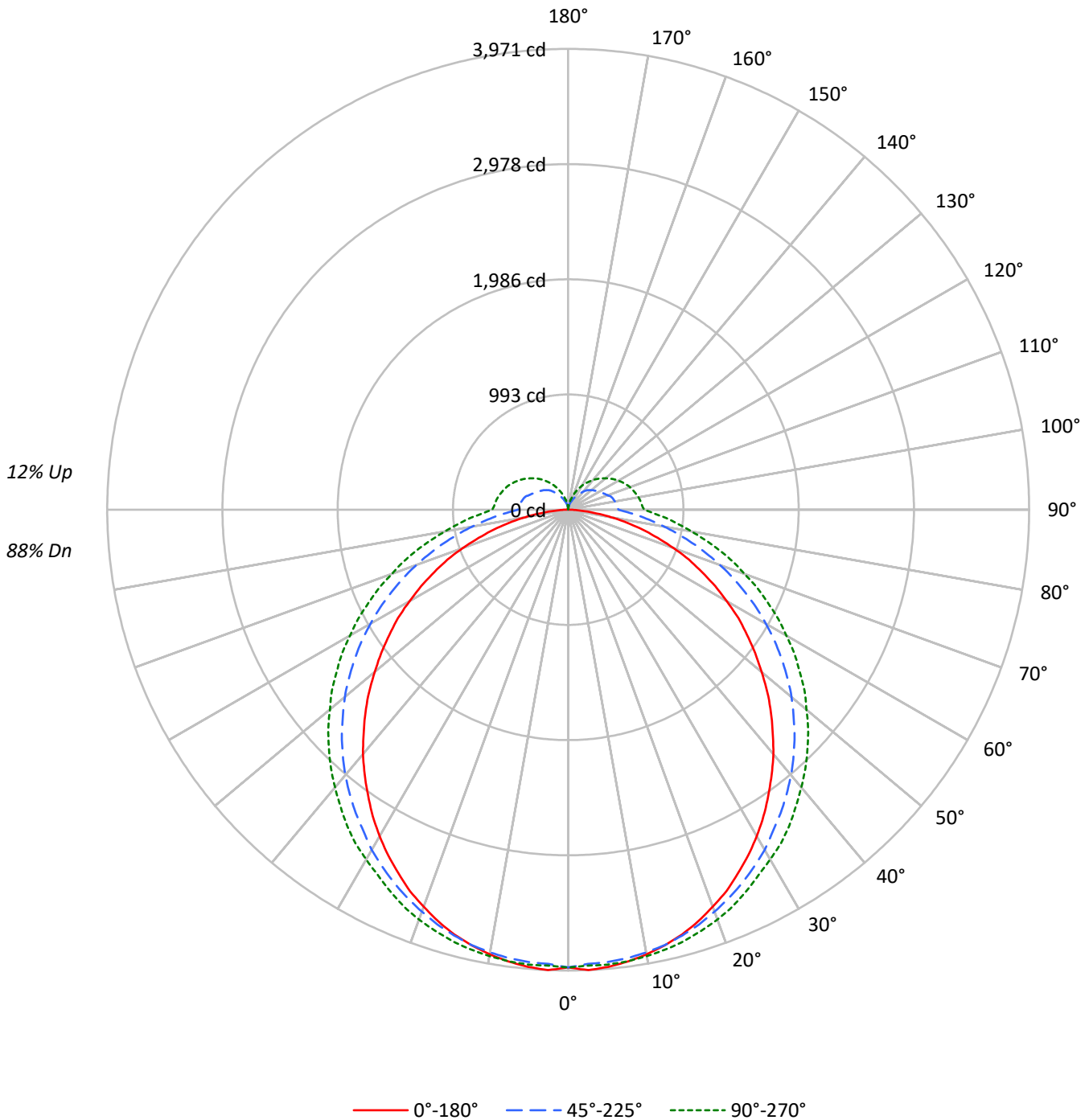
Lumens per Lamp: N/A
Luminaire Lumens: 14200.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 103.6
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: P567420

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567420

CATALOG NUMBER: 8SNX-148HL-LW-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°	21228	21228	21228
5°	21322	20276	20085
10°	21185	19498	19097
15°	20992	18724	18197
20°	20692	17940	17327
25°	20337	17175	16435
30°	19949	16425	15615
35°	19463	15638	14879
40°	18990	14901	14078
45°	18421	14122	13315
50°	17761	13317	12503
55°	17128	12430	11700
60°	16396	11495	10836
65°	15503	10476	9941
70°	14369	9371	8972
75°	12761	8157	8046
80°	10514	6941	6983
85°	7277	5771	6097



TEST NUMBER: P567420

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	2.6
10°-20°	1077.1	7.6
20°-30°	1638.6	11.5
30°-40°	1992.4	14.0
40°-50°	2107.9	14.8
50°-60°	1975.8	13.9
60°-70°	1625.5	11.4
70°-80°	1124.7	7.9
80°-90°	625.4	4.4
90°-100°	412.0	2.9
100°-110°	369.5	2.6
110°-120°	305.8	2.2
120°-130°	236.4	1.7
130°-140°	167.4	1.2
140°-150°	100.9	0.7
150°-160°	48.5	0.3
160°-170°	15.9	0.1
170°-180°	1.9	0.0
0°-30°	3090.1	21.8
0°-40°	5082.5	35.8
0°-60°	9166.2	64.6
0°-90°	12541.7	88.3
90°-120°	1087.3	7.7
90°-150°	1592.0	11.2
90°-180°	1658.0	11.7
0°-180°	14200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3944	3944	3944	3944	3944	
5°	3954	3947	3913	3944	3934	375
15°	3789	3801	3798	3849	3849	1068
25°	3458	3506	3548	3626	3628	1594
35°	3006	3086	3190	3292	3322	1881
45°	2471	2600	2758	2882	2916	1904
55°	1880	2048	2244	2386	2434	1683
65°	1272	1454	1680	1846	1897	1261
75°	661	854	1104	1279	1350	702
85°	146	362	613	783	851	168
90°	2	204	433	596	654	10
95°	2	194	421	576	632	2
105°	2	168	394	542	591	3
115°	5	146	333	482	535	4
125°	5	124	284	411	462	4
135°	5	97	238	338	379	4
145°	5	70	165	255	287	3
155°	7	49	102	163	190	3
165°	7	32	56	75	97	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



TEST NUMBER: P567420

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3944.2	3944.2	3944.2	3944.2	3944.2
2.5°	3971.0	3958.8	3917.5	3944.2	3932.1
5°	3953.9	3946.6	3912.6	3944.2	3934.5
7.5°	3927.2	3924.8	3898.0	3934.5	3924.8
10°	3890.7	3895.6	3873.7	3912.6	3905.3
12.5°	3844.5	3851.8	3842.1	3885.9	3881.0
15°	3788.6	3800.7	3798.3	3849.4	3849.4
17.5°	3720.5	3737.5	3747.2	3805.6	3805.6
20°	3640.2	3667.0	3686.5	3749.7	3759.4
22.5°	3560.0	3591.6	3620.8	3686.5	3701.0
25°	3457.9	3506.5	3547.8	3625.7	3628.1
27.5°	3358.2	3411.7	3467.6	3543.0	3550.3
30°	3248.7	3316.8	3384.9	3457.9	3479.8
32.5°	3132.0	3207.4	3282.8	3380.1	3409.2
35°	3005.6	3085.8	3190.4	3292.5	3321.7
37.5°	2879.1	2969.1	3090.7	3195.2	3222.0
40°	2750.2	2849.9	2986.1	3093.1	3124.7
42.5°	2606.8	2728.4	2874.3	2988.6	3025.0
45°	2470.6	2599.5	2757.5	2881.6	2915.6
47.5°	2327.1	2463.3	2633.5	2764.8	2803.7
50°	2173.9	2329.6	2511.9	2643.3	2679.7
52.5°	2030.5	2188.5	2380.6	2516.8	2567.9
55°	1879.7	2047.5	2244.5	2385.5	2434.1
57.5°	1738.7	1899.2	2110.7	2251.8	2312.5
60°	1578.2	1755.7	1967.2	2120.4	2169.1
62.5°	1427.4	1607.4	1826.2	1984.3	2040.2
65°	1271.8	1454.2	1680.3	1845.7	1896.7
67.5°	1125.9	1305.8	1536.8	1699.8	1765.4
70°	965.4	1155.1	1390.9	1558.7	1614.6
72.5°	807.3	1004.3	1245.0	1425.0	1488.2
75°	661.4	853.5	1104.0	1279.1	1349.6
77.5°	520.4	714.9	967.8	1147.8	1208.6
80°	379.3	583.6	841.4	1018.9	1077.2
82.5°	250.5	464.5	719.8	897.3	960.5
85°	145.9	362.3	612.8	783.0	851.1
87.5°	63.2	274.8	513.1	680.9	736.8
90°	2.4	204.3	432.8	595.8	654.1
92.5°	2.4	199.4	423.1	583.6	639.5
95°	2.4	194.5	420.7	576.3	632.2
97.5°	2.4	192.1	415.8	571.4	624.9
100°	2.4	184.8	408.5	561.7	615.2
102.5°	2.4	175.1	401.2	552.0	603.1
105°	2.4	167.8	393.9	542.3	590.9
107.5°	2.4	160.5	381.8	530.1	578.7
110°	2.4	153.2	362.3	518.0	566.6



TEST NUMBER: P567420

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	150.8	347.7	500.9	552.0
115°	4.9	145.9	333.1	481.5	535.0
117.5°	4.9	143.5	321.0	462.0	518.0
120°	4.9	136.2	308.8	445.0	498.5
122.5°	4.9	128.9	296.7	428.0	481.5
125°	4.9	124.0	284.5	411.0	462.0
127.5°	4.9	116.7	274.8	393.9	440.1
130°	4.9	111.9	262.6	374.5	420.7
132.5°	4.9	104.6	250.5	355.0	398.8
135°	4.9	97.3	238.3	338.0	379.3
137.5°	4.9	87.5	223.7	318.6	357.5
140°	4.9	80.2	204.3	299.1	335.6
142.5°	4.9	75.4	184.8	277.2	311.3
145°	4.9	70.5	165.4	255.3	286.9
147.5°	4.9	65.7	148.3	233.4	262.6
150°	4.9	58.4	131.3	214.0	238.3
152.5°	7.3	53.5	116.7	189.7	214.0
155°	7.3	48.6	102.1	162.9	189.7
157.5°	7.3	43.8	87.5	136.2	165.4
160°	7.3	38.9	75.4	111.9	141.0
162.5°	7.3	36.5	65.7	92.4	119.2
165°	7.3	31.6	55.9	75.4	97.3
167.5°	7.3	24.3	46.2	58.4	80.2
170°	7.3	19.5	36.5	41.3	60.8
172.5°	7.3	14.6	26.7	29.2	31.6
175°	7.3	12.2	17.0	17.0	9.7
177.5°	7.3	9.7	9.7	9.7	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)