

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: P567413

Luminaire Tested: **8SNX-148HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-148HL-LN-UNV-L850-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

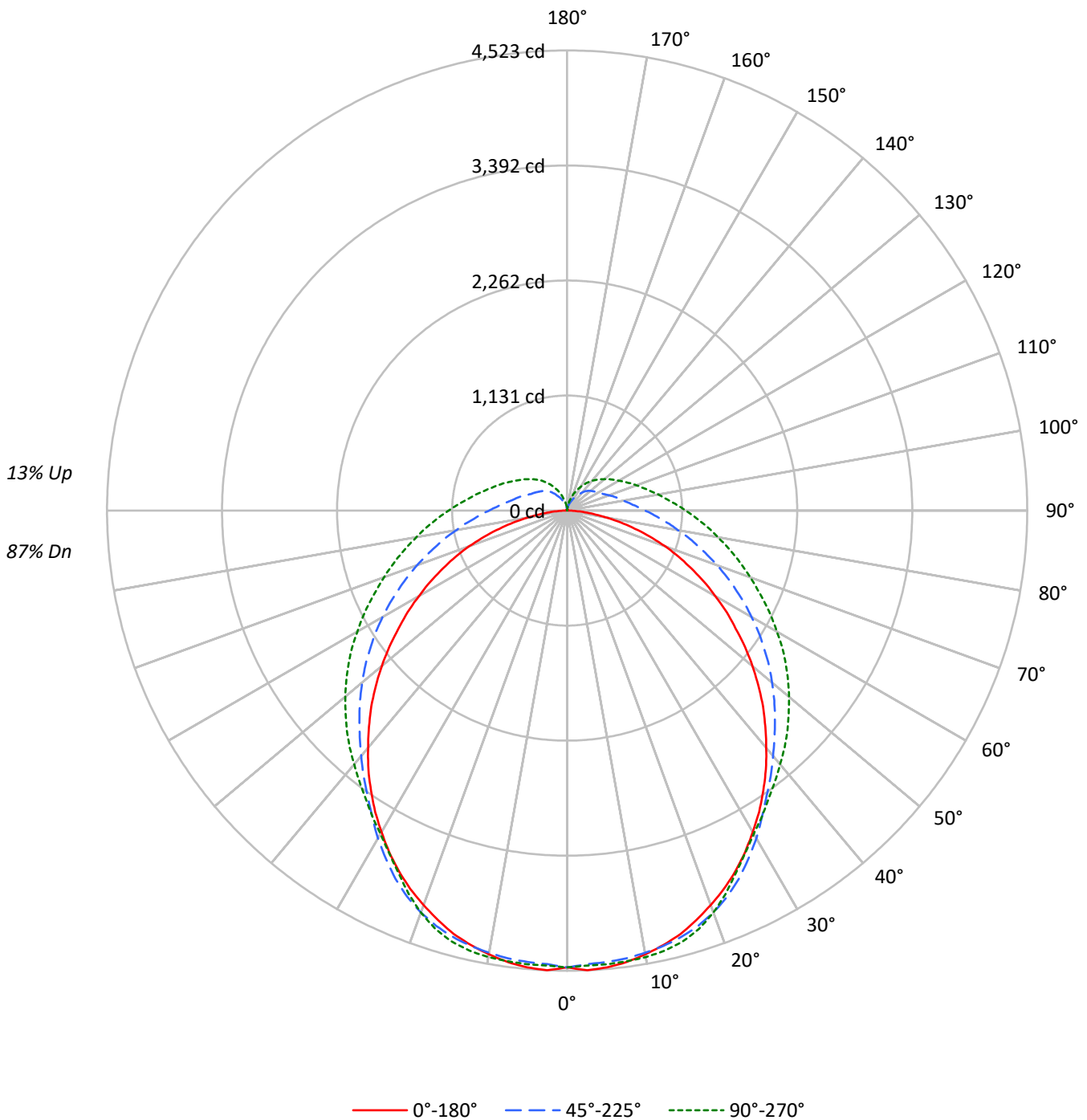
Lumens per Lamp: N/A
Luminaire Lumens: 16207.0 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567413

CATALOG NUMBER: 8SNX-148HL-LN-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567413

CATALOG NUMBER: 8SNX-148HL-LN-UNV-L850-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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24163	24163	24163
5°	24300	23081	22848
10°	24117	22211	21794
15°	23872	21387	20730
20°	23459	20457	19376
25°	23011	19326	17787
30°	22407	18053	16460
35°	21761	16754	15470
40°	21021	15713	14669
45°	20302	14790	13978
50°	19440	13940	13282
55°	18427	13087	12599
60°	17470	12235	11887
65°	16412	11375	11233
70°	15213	10570	10642
75°	13307	9786	10155
80°	10816	9112	9744
85°	7810	8643	9507



TEST NUMBER: P567413

CATALOG NUMBER: 8SNX-148HL-LN-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.5	2.6
10°-20°	1226.3	7.6
20°-30°	1826.0	11.3
30°-40°	2154.6	13.3
40°-50°	2247.0	13.9
50°-60°	2111.6	13.0
60°-70°	1783.3	11.0
70°-80°	1347.4	8.3
80°-90°	928.8	5.7
90°-100°	650.0	4.0
100°-110°	485.0	3.0
110°-120°	365.6	2.3
120°-130°	272.7	1.7
130°-140°	191.4	1.2
140°-150°	115.7	0.7
150°-160°	55.3	0.3
160°-170°	17.7	0.1
170°-180°	2.1	0.0
0°-30°	3478.8	21.5
0°-40°	5633.4	34.8
0°-60°	9992.0	61.7
0°-90°	14051.4	86.7
90°-120°	1500.6	9.3
90°-150°	2080.4	12.8
90°-180°	2156.0	13.3
0°-180°	16207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4490	4490	4490	4490	4490	
5°	4506	4498	4454	4487	4476	428
15°	4308	4328	4338	4394	4385	1213
25°	3913	3992	3992	3957	3926	1800
35°	3360	3484	3418	3446	3454	2101
45°	2723	2858	2888	3006	3061	2097
55°	2022	2195	2363	2553	2621	1815
65°	1346	1561	1824	2064	2143	1337
75°	690	956	1324	1602	1704	734
85°	157	492	918	1220	1327	176
90°	3	349	767	1061	1165	11
95°	3	272	648	929	1025	2
105°	6	195	500	725	808	5
115°	6	168	387	577	651	6
125°	8	143	327	473	533	7
135°	8	110	272	385	431	6
145°	11	80	190	294	330	6
155°	11	52	115	187	217	5
165°	14	33	60	82	110	4
175°	14	14	16	16	8	1
180°	8	8	8	8	8	



TEST NUMBER: P567413

CATALOG NUMBER: 8SNX-148HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4489.6	4489.6	4489.6	4489.6	4489.6
2.5°	4522.6	4511.6	4462.2	4489.6	4475.9
5°	4506.1	4497.9	4453.9	4486.9	4475.9
7.5°	4475.9	4473.2	4440.2	4478.6	4467.7
10°	4429.2	4437.4	4412.7	4464.9	4456.7
12.5°	4374.2	4390.7	4382.5	4440.2	4431.9
15°	4308.3	4327.5	4338.5	4393.5	4385.2
17.5°	4220.4	4256.1	4280.8	4324.8	4311.0
20°	4127.0	4176.4	4203.9	4225.9	4203.9
22.5°	4025.3	4091.2	4107.7	4096.7	4074.7
25°	3912.6	3992.3	3992.3	3956.6	3926.4
27.5°	3786.2	3885.2	3857.7	3816.5	3791.7
30°	3648.9	3767.0	3720.3	3673.6	3668.1
32.5°	3511.5	3635.1	3566.4	3555.4	3563.7
35°	3360.4	3484.0	3418.1	3445.5	3453.8
37.5°	3209.2	3332.9	3288.9	3330.1	3354.9
40°	3044.4	3176.3	3148.8	3223.0	3256.0
42.5°	2882.3	3019.7	3016.9	3113.1	3162.5
45°	2722.9	2857.5	2887.8	3005.9	3060.9
47.5°	2549.8	2687.2	2761.4	2898.8	2953.7
50°	2379.5	2527.8	2629.5	2783.4	2846.6
52.5°	2203.6	2360.2	2500.4	2670.7	2736.6
55°	2022.3	2195.4	2363.0	2552.6	2621.2
57.5°	1860.2	2036.0	2233.8	2428.9	2508.6
60°	1681.6	1876.6	2093.7	2299.8	2379.5
62.5°	1519.4	1720.0	1961.8	2178.9	2264.1
65°	1346.3	1560.7	1824.4	2063.5	2143.2
67.5°	1187.0	1406.8	1695.3	1937.1	2025.0
70°	1022.1	1255.7	1568.9	1824.4	1915.1
72.5°	851.8	1099.1	1442.5	1714.5	1807.9
75°	689.7	956.2	1324.4	1601.9	1703.5
77.5°	538.5	818.8	1217.2	1503.0	1601.9
80°	390.2	695.2	1104.6	1401.3	1503.0
82.5°	258.3	588.0	1013.9	1310.6	1417.8
85°	156.6	491.8	917.7	1220.0	1327.1
87.5°	71.4	412.1	840.8	1140.3	1244.7
90°	2.7	348.9	766.6	1060.6	1165.0
92.5°	2.7	305.0	706.1	991.9	1093.6
95°	2.7	272.0	648.4	928.7	1024.9
97.5°	2.7	250.0	604.5	868.3	961.7
100°	2.7	228.1	560.5	813.3	909.5
102.5°	5.5	208.8	527.5	763.8	854.5
105°	5.5	195.1	500.1	725.4	807.8
107.5°	5.5	186.8	469.8	686.9	763.8
110°	5.5	178.6	436.9	648.4	725.4



TEST NUMBER: P567413

CATALOG NUMBER: 8SNX-148HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.5	173.1	412.1	615.5	689.7
115°	5.5	167.6	387.4	577.0	651.2
117.5°	5.5	164.9	373.7	546.8	618.2
120°	8.2	156.6	357.2	519.3	588.0
122.5°	8.2	148.4	340.7	497.3	557.8
125°	8.2	142.9	327.0	472.6	533.0
127.5°	8.2	134.6	313.2	450.6	505.6
130°	8.2	126.4	302.2	428.6	480.8
132.5°	8.2	118.1	288.5	406.7	456.1
135°	8.2	109.9	272.0	384.7	431.4
137.5°	8.2	101.7	255.5	362.7	406.7
140°	8.2	93.4	233.5	340.7	381.9
142.5°	8.2	85.2	211.6	318.7	354.4
145°	11.0	79.7	189.6	294.0	329.7
147.5°	11.0	71.4	167.6	269.3	299.5
150°	11.0	65.9	151.1	244.5	272.0
152.5°	11.0	57.7	134.6	217.1	244.5
155°	11.0	52.2	115.4	186.8	217.1
157.5°	11.0	46.7	98.9	156.6	189.6
160°	11.0	44.0	85.2	129.1	162.1
162.5°	13.7	38.5	71.4	104.4	134.6
165°	13.7	33.0	60.4	82.4	109.9
167.5°	13.7	27.5	49.5	63.2	85.2
170°	13.7	22.0	38.5	44.0	65.9
172.5°	13.7	16.5	27.5	30.2	33.0
175°	13.7	13.7	16.5	16.5	8.2
177.5°	13.7	13.7	11.0	8.2	2.7
180°	8.2	8.2	8.2	8.2	8.2

(END OF REPORT)