

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: P567424

Luminaire Tested: **8SNX-148HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567424
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-L940-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

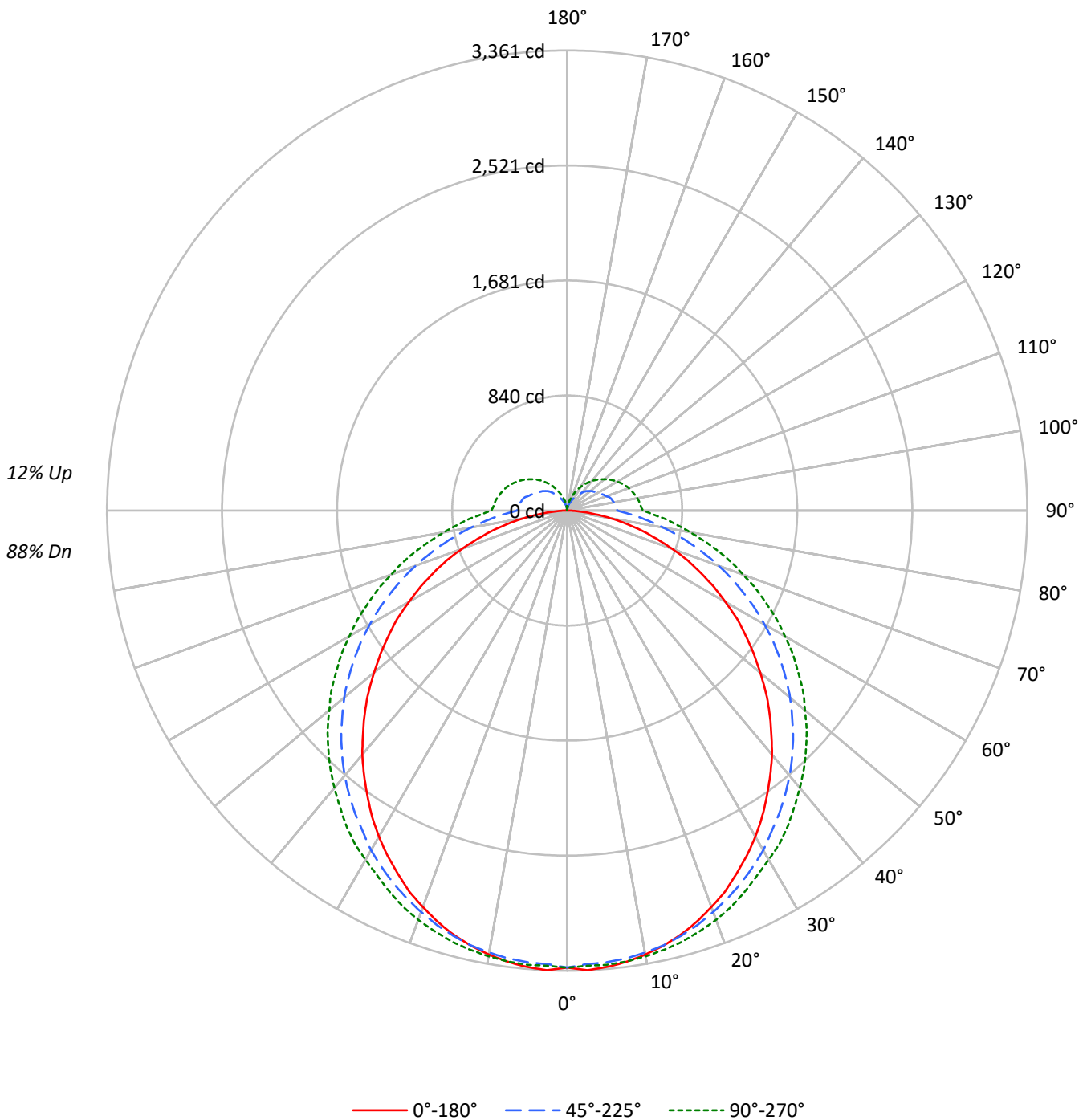
Lumens per Lamp: N/A
Luminaire Lumens: 12018.1 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 103.6
Input Voltage (V): NR
Input Current (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: P567424

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567424

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L940-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°	17966	17966	17966
5°	18046	17160	16998
10°	17930	16502	16163
15°	17766	15847	15401
20°	17513	15183	14664
25°	17211	14536	13910
30°	16884	13902	13216
35°	16472	13235	12592
40°	16072	12611	11915
45°	15590	11952	11269
50°	15032	11271	10582
55°	14496	10520	9902
60°	13877	9729	9171
65°	13121	8866	8414
70°	12160	7931	7594
75°	10801	6903	6809
80°	8900	5874	5910
85°	6159	4884	5160



TEST NUMBER: P567424

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	2.6
10°-20°	911.6	7.6
20°-30°	1386.8	11.5
30°-40°	1686.2	14.0
40°-50°	1784.0	14.8
50°-60°	1672.2	13.9
60°-70°	1375.7	11.4
70°-80°	951.9	7.9
80°-90°	529.3	4.4
90°-100°	348.7	2.9
100°-110°	312.7	2.6
110°-120°	258.8	2.2
120°-130°	200.1	1.7
130°-140°	141.6	1.2
140°-150°	85.4	0.7
150°-160°	41.0	0.3
160°-170°	13.4	0.1
170°-180°	1.6	0.0
0°-30°	2615.3	21.8
0°-40°	4301.5	35.8
0°-60°	7757.7	64.6
0°-90°	10614.6	88.3
90°-120°	920.2	7.7
90°-150°	1347.4	11.2
90°-180°	1403.0	11.7
0°-180°	12018.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3338	3338	3338	3338	3338	
5°	3346	3340	3311	3338	3330	318
15°	3206	3217	3215	3258	3258	904
25°	2926	2968	3003	3068	3071	1349
35°	2544	2612	2700	2787	2811	1592
45°	2091	2200	2334	2439	2468	1612
55°	1591	1733	1900	2019	2060	1424
65°	1076	1231	1422	1562	1605	1067
75°	560	722	934	1082	1142	594
85°	124	307	519	663	720	142
90°	2	173	366	504	554	8
95°	2	165	356	488	535	2
105°	2	142	333	459	500	2
115°	4	124	282	408	453	3
125°	4	105	241	348	391	4
135°	4	82	202	286	321	3
145°	4	60	140	216	243	3
155°	6	41	86	138	160	3
165°	6	27	47	64	82	2
175°	6	10	14	14	8	1
180°	4	4	4	4	4	



TEST NUMBER: P567424

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3338.1	3338.1	3338.1	3338.1	3338.1
2.5°	3360.8	3350.5	3315.5	3338.1	3327.8
5°	3346.4	3340.2	3311.4	3338.1	3329.9
7.5°	3323.7	3321.7	3299.0	3329.9	3321.7
10°	3292.9	3297.0	3278.5	3311.4	3305.2
12.5°	3253.8	3259.9	3251.7	3288.7	3284.6
15°	3206.4	3216.7	3214.7	3257.9	3257.9
17.5°	3148.8	3163.2	3171.4	3220.8	3220.8
20°	3080.9	3103.5	3120.0	3173.5	3181.7
22.5°	3013.0	3039.7	3064.4	3120.0	3132.3
25°	2926.5	2967.7	3002.7	3068.5	3070.6
27.5°	2842.1	2887.4	2934.8	2998.6	3004.7
30°	2749.5	2807.2	2864.8	2926.5	2945.1
32.5°	2650.8	2714.6	2778.3	2860.7	2885.4
35°	2543.7	2611.6	2700.1	2786.6	2811.3
37.5°	2436.7	2512.9	2615.8	2704.3	2726.9
40°	2327.6	2412.0	2527.3	2617.8	2644.6
42.5°	2206.2	2309.1	2432.6	2529.3	2560.2
45°	2091.0	2200.0	2333.8	2438.8	2467.6
47.5°	1969.5	2084.8	2228.9	2340.0	2372.9
50°	1839.9	1971.6	2126.0	2237.1	2268.0
52.5°	1718.5	1852.2	2014.8	2130.1	2173.3
55°	1590.9	1732.9	1899.6	2018.9	2060.1
57.5°	1471.5	1607.3	1786.4	1905.7	1957.2
60°	1335.7	1485.9	1665.0	1794.6	1835.8
62.5°	1208.1	1360.4	1545.6	1679.4	1726.7
65°	1076.4	1230.7	1422.1	1562.0	1605.3
67.5°	952.9	1105.2	1300.7	1438.6	1494.1
70°	817.0	977.6	1177.2	1319.2	1366.5
72.5°	683.3	850.0	1053.7	1206.0	1259.5
75°	559.8	722.4	934.3	1082.5	1142.2
77.5°	440.4	605.1	819.1	971.4	1022.8
80°	321.1	493.9	712.1	862.3	911.7
82.5°	212.0	393.1	609.2	759.4	812.9
85°	123.5	306.6	518.6	662.7	720.3
87.5°	53.5	232.6	434.2	576.3	623.6
90°	2.1	172.9	366.3	504.2	553.6
92.5°	2.1	168.8	358.1	493.9	541.3
95°	2.1	164.6	356.0	487.8	535.1
97.5°	2.1	162.6	351.9	483.6	528.9
100°	2.1	156.4	345.8	475.4	520.7
102.5°	2.1	148.2	339.6	467.2	510.4
105°	2.1	142.0	333.4	458.9	500.1
107.5°	2.1	135.8	323.1	448.7	489.8
110°	2.1	129.7	306.6	438.4	479.5



TEST NUMBER: P567424

CATALOG NUMBER: 8SNX-148HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	127.6	294.3	424.0	467.2
115°	4.1	123.5	282.0	407.5	452.8
117.5°	4.1	121.4	271.7	391.0	438.4
120°	4.1	115.3	261.4	376.6	421.9
122.5°	4.1	109.1	251.1	362.2	407.5
125°	4.1	105.0	240.8	347.8	391.0
127.5°	4.1	98.8	232.6	333.4	372.5
130°	4.1	94.7	222.3	316.9	356.0
132.5°	4.1	88.5	212.0	300.5	337.5
135°	4.1	82.3	201.7	286.1	321.1
137.5°	4.1	74.1	189.3	269.6	302.5
140°	4.1	67.9	172.9	253.1	284.0
142.5°	4.1	63.8	156.4	234.6	263.4
145°	4.1	59.7	139.9	216.1	242.8
147.5°	4.1	55.6	125.5	197.6	222.3
150°	4.1	49.4	111.1	181.1	201.7
152.5°	6.2	45.3	98.8	160.5	181.1
155°	6.2	41.2	86.4	137.9	160.5
157.5°	6.2	37.0	74.1	115.3	139.9
160°	6.2	32.9	63.8	94.7	119.4
162.5°	6.2	30.9	55.6	78.2	100.8
165°	6.2	26.8	47.3	63.8	82.3
167.5°	6.2	20.6	39.1	49.4	67.9
170°	6.2	16.5	30.9	35.0	51.5
172.5°	6.2	12.3	22.6	24.7	26.8
175°	6.2	10.3	14.4	14.4	8.2
177.5°	6.2	8.2	8.2	8.2	4.1
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)