

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: P567416

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567416
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-L940-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

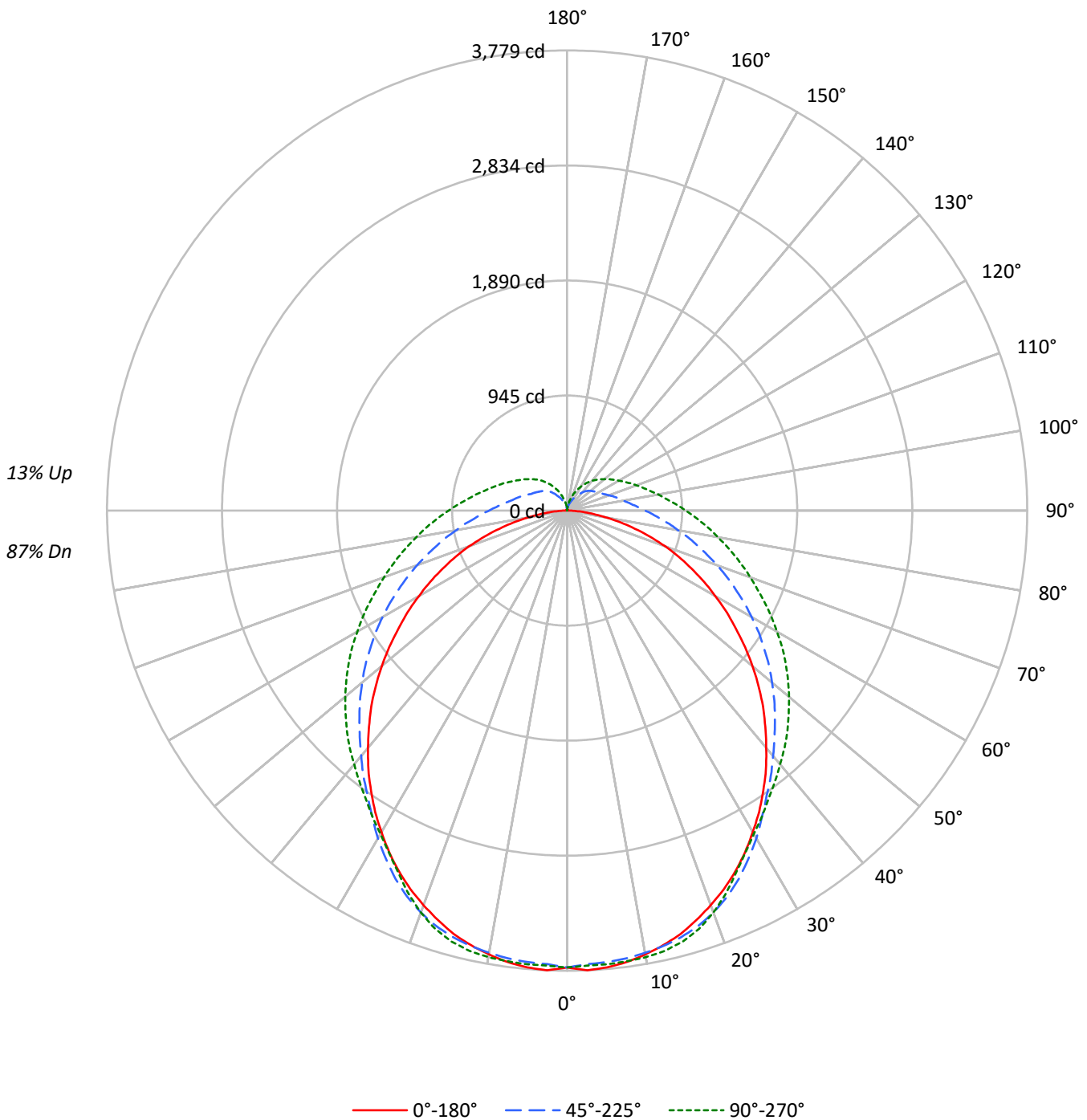
Lumens per Lamp: N/A
Luminaire Lumens: 13543.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567416

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

Luminous Intensity Polar Plot





TEST NUMBER: P567416

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	20191	20191	20191
5°	20306	19287	19093
10°	20153	18561	18211
15°	19948	17872	17323
20°	19603	17095	16191
25°	19229	16150	14863
30°	18724	15086	13755
35°	18184	14000	12927
40°	17566	13130	12258
45°	16964	12359	11680
50°	16244	11649	11099
55°	15398	10936	10528
60°	14599	10224	9933
65°	13714	9505	9387
70°	12712	8832	8893
75°	11119	8177	8486
80°	9036	7614	8142
85°	6529	7223	7944



TEST NUMBER: P567416

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.4	2.6
10°-20°	1024.7	7.6
20°-30°	1525.8	11.3
30°-40°	1800.4	13.3
40°-50°	1877.7	13.9
50°-60°	1764.5	13.0
60°-70°	1490.1	11.0
70°-80°	1125.9	8.3
80°-90°	776.1	5.7
90°-100°	543.1	4.0
100°-110°	405.3	3.0
110°-120°	305.5	2.3
120°-130°	227.9	1.7
130°-140°	159.9	1.2
140°-150°	96.7	0.7
150°-160°	46.2	0.3
160°-170°	14.8	0.1
170°-180°	1.8	0.0
0°-30°	2906.9	21.5
0°-40°	4707.4	34.8
0°-60°	8349.6	61.7
0°-90°	11741.7	86.7
90°-120°	1254.0	9.3
90°-150°	1738.5	12.8
90°-180°	1801.0	13.3
0°-180°	13543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3752	3752	3752	3752	3752	
5°	3765	3759	3722	3749	3740	357
15°	3600	3616	3625	3671	3664	1014
25°	3270	3336	3336	3306	3281	1504
35°	2808	2911	2856	2879	2886	1756
45°	2275	2388	2413	2512	2558	1752
55°	1690	1834	1975	2133	2190	1516
65°	1125	1304	1524	1724	1791	1117
75°	576	799	1107	1339	1424	614
85°	131	411	767	1019	1109	147
90°	2	292	641	886	974	9
95°	2	227	542	776	856	2
105°	5	163	418	606	675	5
115°	5	140	324	482	544	5
125°	7	119	273	395	445	6
135°	7	92	227	321	360	5
145°	9	67	158	246	276	5
155°	9	44	96	156	181	4
165°	12	28	50	69	92	3
175°	12	12	14	14	7	1
180°	7	7	7	7	7	



TEST NUMBER: P567416

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3779.2	3770.0	3728.7	3751.7	3740.2
5°	3765.4	3758.6	3721.8	3749.4	3740.2
7.5°	3740.2	3737.9	3710.3	3742.5	3733.3
10°	3701.2	3708.0	3687.4	3731.0	3724.1
12.5°	3655.2	3669.0	3662.1	3710.3	3703.4
15°	3600.1	3616.2	3625.4	3671.3	3664.4
17.5°	3526.7	3556.5	3577.2	3613.9	3602.4
20°	3448.6	3489.9	3512.9	3531.2	3512.9
22.5°	3363.6	3418.7	3432.5	3423.3	3405.0
25°	3269.5	3336.1	3336.1	3306.2	3281.0
27.5°	3163.9	3246.5	3223.6	3189.1	3168.5
30°	3049.1	3147.8	3108.8	3069.8	3065.2
32.5°	2934.3	3037.6	2980.2	2971.0	2977.9
35°	2808.0	2911.3	2856.2	2879.2	2886.1
37.5°	2681.7	2785.0	2748.3	2782.8	2803.4
40°	2544.0	2654.2	2631.2	2693.2	2720.8
42.5°	2408.5	2523.3	2521.0	2601.4	2642.7
45°	2275.3	2387.8	2413.1	2511.8	2557.7
47.5°	2130.7	2245.5	2307.5	2422.3	2468.2
50°	1988.3	2112.3	2197.3	2325.8	2378.7
52.5°	1841.4	1972.3	2089.4	2231.7	2286.8
55°	1689.9	1834.5	1974.6	2133.0	2190.4
57.5°	1554.4	1701.3	1866.6	2029.7	2096.2
60°	1405.2	1568.2	1749.6	1921.8	1988.3
62.5°	1269.7	1437.3	1639.3	1820.7	1891.9
65°	1125.0	1304.1	1524.5	1724.3	1790.9
67.5°	991.9	1175.6	1416.6	1618.7	1692.2
70°	854.1	1049.3	1311.0	1524.5	1600.3
72.5°	711.8	918.4	1205.4	1432.7	1510.8
75°	576.3	799.0	1106.7	1338.6	1423.5
77.5°	450.0	684.2	1017.1	1255.9	1338.6
80°	326.0	580.9	923.0	1171.0	1255.9
82.5°	215.8	491.3	847.2	1095.2	1184.7
85°	130.9	411.0	766.9	1019.4	1109.0
87.5°	59.7	344.4	702.6	952.8	1040.1
90°	2.3	291.6	640.6	886.3	973.5
92.5°	2.3	254.9	590.1	828.9	913.8
95°	2.3	227.3	541.9	776.0	856.4
97.5°	2.3	208.9	505.1	725.5	803.6
100°	2.3	190.6	468.4	679.6	760.0
102.5°	4.6	174.5	440.8	638.3	714.1
105°	4.6	163.0	417.9	606.1	675.0
107.5°	4.6	156.1	392.6	574.0	638.3
110°	4.6	149.2	365.1	541.9	606.1



TEST NUMBER: P567416

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	144.6	344.4	514.3	576.3
115°	4.6	140.1	323.7	482.2	544.2
117.5°	4.6	137.8	312.3	456.9	516.6
120°	6.9	130.9	298.5	433.9	491.3
122.5°	6.9	124.0	284.7	415.6	466.1
125°	6.9	119.4	273.2	394.9	445.4
127.5°	6.9	112.5	261.7	376.5	422.5
130°	6.9	105.6	252.6	358.2	401.8
132.5°	6.9	98.7	241.1	339.8	381.1
135°	6.9	91.8	227.3	321.4	360.5
137.5°	6.9	85.0	213.5	303.1	339.8
140°	6.9	78.1	195.2	284.7	319.1
142.5°	6.9	71.2	176.8	266.3	296.2
145°	9.2	66.6	158.4	245.7	275.5
147.5°	9.2	59.7	140.1	225.0	250.3
150°	9.2	55.1	126.3	204.3	227.3
152.5°	9.2	48.2	112.5	181.4	204.3
155°	9.2	43.6	96.4	156.1	181.4
157.5°	9.2	39.0	82.7	130.9	158.4
160°	9.2	36.7	71.2	107.9	135.5
162.5°	11.5	32.1	59.7	87.2	112.5
165°	11.5	27.6	50.5	68.9	91.8
167.5°	11.5	23.0	41.3	52.8	71.2
170°	11.5	18.4	32.1	36.7	55.1
172.5°	11.5	13.8	23.0	25.3	27.6
175°	11.5	11.5	13.8	13.8	6.9
177.5°	11.5	11.5	9.2	6.9	2.3
180°	6.9	6.9	6.9	6.9	6.9

(END OF REPORT)