

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: P567408

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

Issue Date: 9/15/2022



**Test Information**

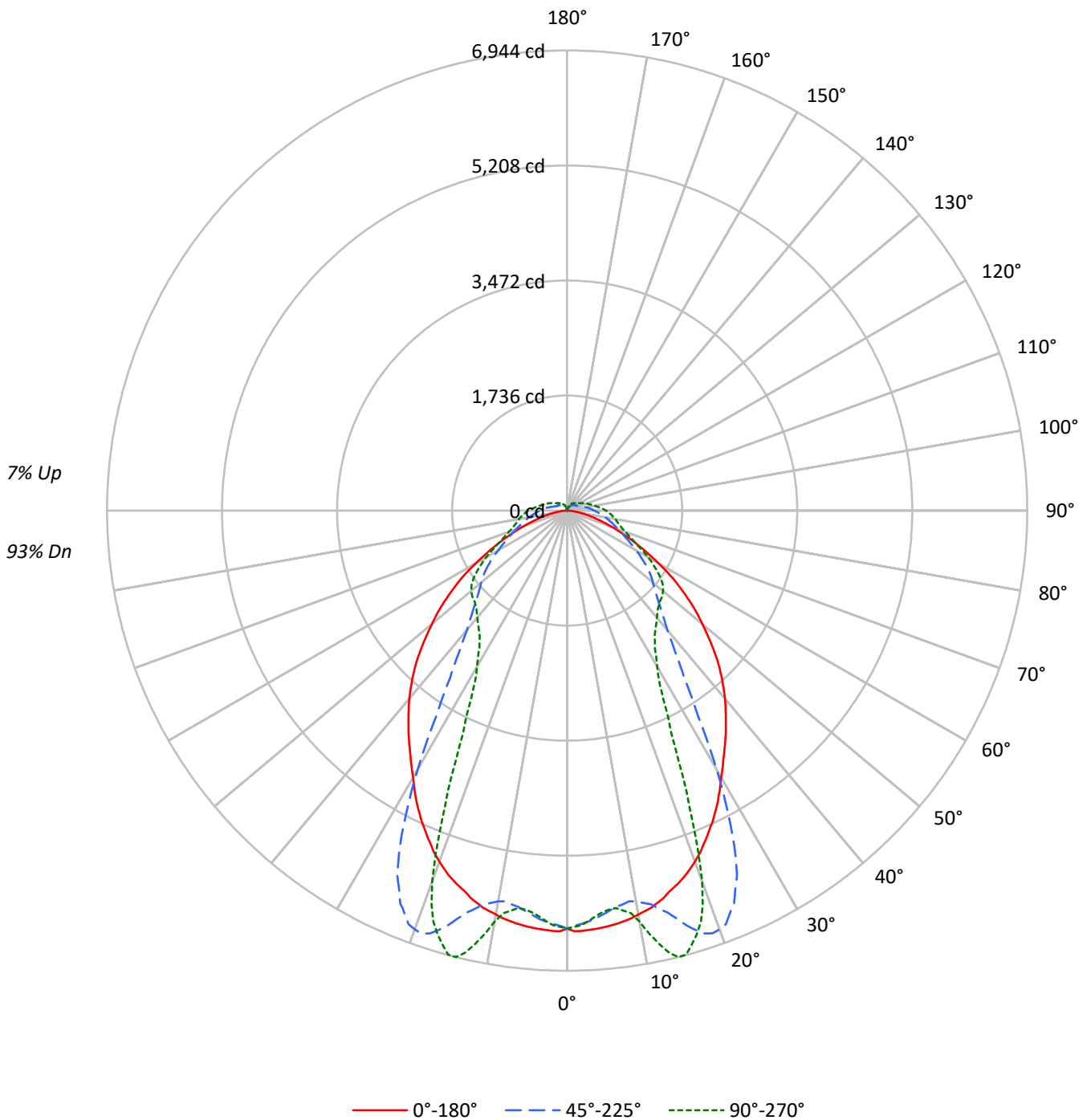
Test Method: LM-79-08  
Report Number: P567408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-148HL-LC-UNV-L940-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14016.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: 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

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### Luminous Intensity Polar Plot





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**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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	33941	33941	33941
5°	34043	31716	31068
10°	33698	30150	30808
15°	32975	31395	32797
20°	32040	32730	27449
25°	30495	29369	16878
30°	28555	21880	12215
35°	26981	15105	10304
40°	25578	11725	9497
45°	23933	9984	8981
50°	21767	8963	8816
55°	19480	8106	8157
60°	16519	7015	7056
65°	13435	6111	5889
70°	10542	5493	5185
75°	8175	5107	4835
80°	5754	4837	4786
85°	3202	4616	4752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.8	4.2
10°-20°	1793.2	12.8
20°-30°	2414.5	17.2
30°-40°	2285.1	16.3
40°-50°	2016.9	14.4
50°-60°	1638.2	11.7
60°-70°	1114.1	7.9
70°-80°	716.9	5.1
80°-90°	476.7	3.4
90°-100°	327.6	2.3
100°-110°	219.9	1.6
110°-120°	155.1	1.1
120°-130°	110.8	0.8
130°-140°	78.2	0.6
140°-150°	48.6	0.3
150°-160°	23.7	0.2
160°-170°	8.3	0.1
170°-180°	1.4	0.0
0°-30°	4794.5	34.2
0°-40°	7079.6	50.5
0°-60°	10734.7	76.6
0°-90°	13042.5	93.1
90°-120°	702.6	5.0
90°-150°	940.2	6.7
90°-180°	974.0	6.9
0°-180°	14016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6306	6306	6306	6306	6306	
5°	6313	6255	6120	6116	6086	599
15°	5951	5913	6369	6931	6938	1678
25°	5185	6148	6067	4406	3726	2379
35°	4166	5846	3082	2373	2300	2607
45°	3210	3933	1950	1926	1967	2465
55°	2138	2326	1464	1635	1697	1909
65°	1102	1254	980	1089	1124	1106
75°	424	593	691	775	811	461
85°	64	252	490	621	663	84
90°	2	176	409	550	586	4
95°	2	135	344	466	499	2
105°	4	94	227	319	357	4
115°	4	81	167	238	268	5
125°	6	68	143	180	193	6
135°	9	54	118	150	158	7
145°	9	38	84	116	126	6
155°	11	24	51	77	88	5
165°	11	15	28	38	47	3
175°	13	13	13	13	11	1
180°	11	11	11	11	11	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6306.5	6306.5	6306.5	6306.5	6306.5
1°	6349.3	6330.0	6265.8	6300.1	6283.0
2°	6347.2	6315.1	6242.3	6280.8	6259.4
3°	6336.5	6302.2	6208.1	6231.6	6199.5
4°	6325.8	6285.1	6171.7	6171.7	6135.3
5°	6312.9	6255.2	6120.3	6116.1	6086.1
6°	6297.9	6231.6	6075.4	6071.1	6054.0
7°	6276.5	6191.0	6026.2	6056.1	6043.3
8°	6250.9	6152.4	6000.5	6075.4	6094.7
9°	6227.3	6105.4	5970.5	6135.3	6150.3
10°	6188.8	6062.6	5989.8	6255.2	6300.1
11°	6156.7	6026.2	6032.6	6372.8	6507.7
12°	6124.6	5987.7	6073.3	6520.5	6685.3
13°	6071.1	5957.7	6163.1	6681.0	6850.1
14°	6024.0	5934.2	6250.9	6843.6	6944.2
15°	5951.3	5912.8	6368.6	6931.4	6937.8
16°	5902.1	5897.8	6505.5	6937.8	6818.0
17°	5846.4	5891.4	6616.8	6826.5	6685.3
18°	5784.4	5904.2	6708.8	6687.4	6524.8
19°	5713.7	5917.0	6747.3	6494.8	6285.1
20°	5636.7	5936.3	6725.9	6293.7	5955.6
21°	5559.7	5962.0	6685.3	6081.8	5523.3
22.5°	5416.3	6024.0	6492.7	5486.9	4808.5
23°	5375.6	6036.9	6447.7	5300.7	4622.3
24°	5275.0	6090.4	6242.3	4866.3	4130.2
25°	5185.2	6148.2	6066.8	4406.2	3725.7
26°	5084.6	6191.0	5801.5	3982.5	3477.5
27°	4986.1	6216.6	5499.7	3652.9	3199.3
28°	4872.7	6244.5	5172.3	3368.3	2989.5
29°	4765.7	6248.7	4849.2	3141.5	2824.8
30°	4650.2	6227.3	4508.9	2959.6	2722.0
32.5°	4397.7	6109.6	3676.5	2612.9	2465.3
35°	4166.5	5846.4	3081.6	2373.2	2300.5
37.5°	3933.3	5431.3	2664.3	2223.4	2199.9
40°	3704.3	4939.1	2349.7	2103.6	2107.9
42.5°	3462.5	4431.9	2133.6	2005.2	2024.4
45°	3210.0	3933.3	1949.5	1926.0	1966.6
47.5°	2929.6	3477.5	1804.0	1874.6	1936.7
50°	2664.3	3025.9	1690.6	1825.4	1889.6
52.5°	2411.8	2655.7	1587.9	1741.9	1816.8
55°	2137.8	2326.2	1463.7	1634.9	1697.0
57.5°	1876.8	2028.7	1333.2	1502.3	1557.9
60°	1590.0	1735.5	1200.5	1358.9	1412.4
62.5°	1331.1	1485.1	1087.1	1215.5	1258.3
65°	1102.1	1254.0	980.1	1089.2	1123.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	898.8	1061.4	892.4	984.4	1016.5
70°	708.3	879.5	815.3	898.8	933.0
72.5°	554.3	727.6	751.1	828.2	862.4
75°	423.7	592.8	691.2	774.7	811.1
77.5°	314.6	483.6	635.6	731.9	770.4
80°	207.6	385.2	586.4	693.4	738.3
82.5°	130.5	310.3	537.1	654.8	701.9
85°	64.2	252.5	490.1	620.6	663.4
87.5°	21.4	209.7	447.3	586.4	622.7
90°	2.1	175.5	408.7	550.0	586.4
92.5°	2.1	151.9	376.6	507.2	543.6
95°	2.1	134.8	344.5	466.5	498.6
97.5°	2.1	122.0	314.6	423.7	458.0
100°	2.1	109.1	282.5	383.1	419.4
102.5°	4.3	100.6	254.7	348.8	387.3
105°	4.3	94.2	226.8	318.9	357.4
107.5°	4.3	89.9	203.3	295.3	331.7
110°	4.3	85.6	186.2	273.9	312.4
112.5°	4.3	83.5	175.5	254.7	291.0
115°	4.3	81.3	166.9	237.5	267.5
117.5°	6.4	79.2	160.5	220.4	244.0
120°	6.4	74.9	156.2	205.4	224.7
122.5°	6.4	70.6	149.8	192.6	207.6
125°	6.4	68.5	143.4	179.8	192.6
127.5°	6.4	64.2	137.0	169.1	181.9
130°	8.6	59.9	130.5	160.5	171.2
132.5°	8.6	55.6	124.1	156.2	164.8
135°	8.6	53.5	117.7	149.8	158.4
137.5°	8.6	49.2	111.3	143.4	151.9
140°	8.6	44.9	102.7	134.8	143.4
142.5°	8.6	42.8	94.2	126.3	134.8
145°	8.6	38.5	83.5	115.6	126.3
147.5°	10.7	36.4	74.9	107.0	115.6
150°	10.7	32.1	66.3	98.4	107.0
152.5°	10.7	27.8	57.8	87.7	96.3
155°	10.7	23.5	51.4	77.0	87.7
157.5°	10.7	21.4	44.9	64.2	77.0
160°	10.7	19.3	38.5	55.6	66.3
162.5°	10.7	17.1	34.2	47.1	57.8
165°	10.7	15.0	27.8	38.5	47.1
167.5°	12.8	15.0	23.5	30.0	38.5
170°	12.8	15.0	19.3	23.5	30.0
172.5°	12.8	12.8	15.0	17.1	19.3
175°	12.8	12.8	12.8	12.8	10.7
177.5°	12.8	12.8	12.8	10.7	10.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	10.7	10.7	10.7	10.7	10.7

(END OF REPORT)