

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: P567409

Luminaire Tested: **8SNX-148HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567409  
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-L950-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

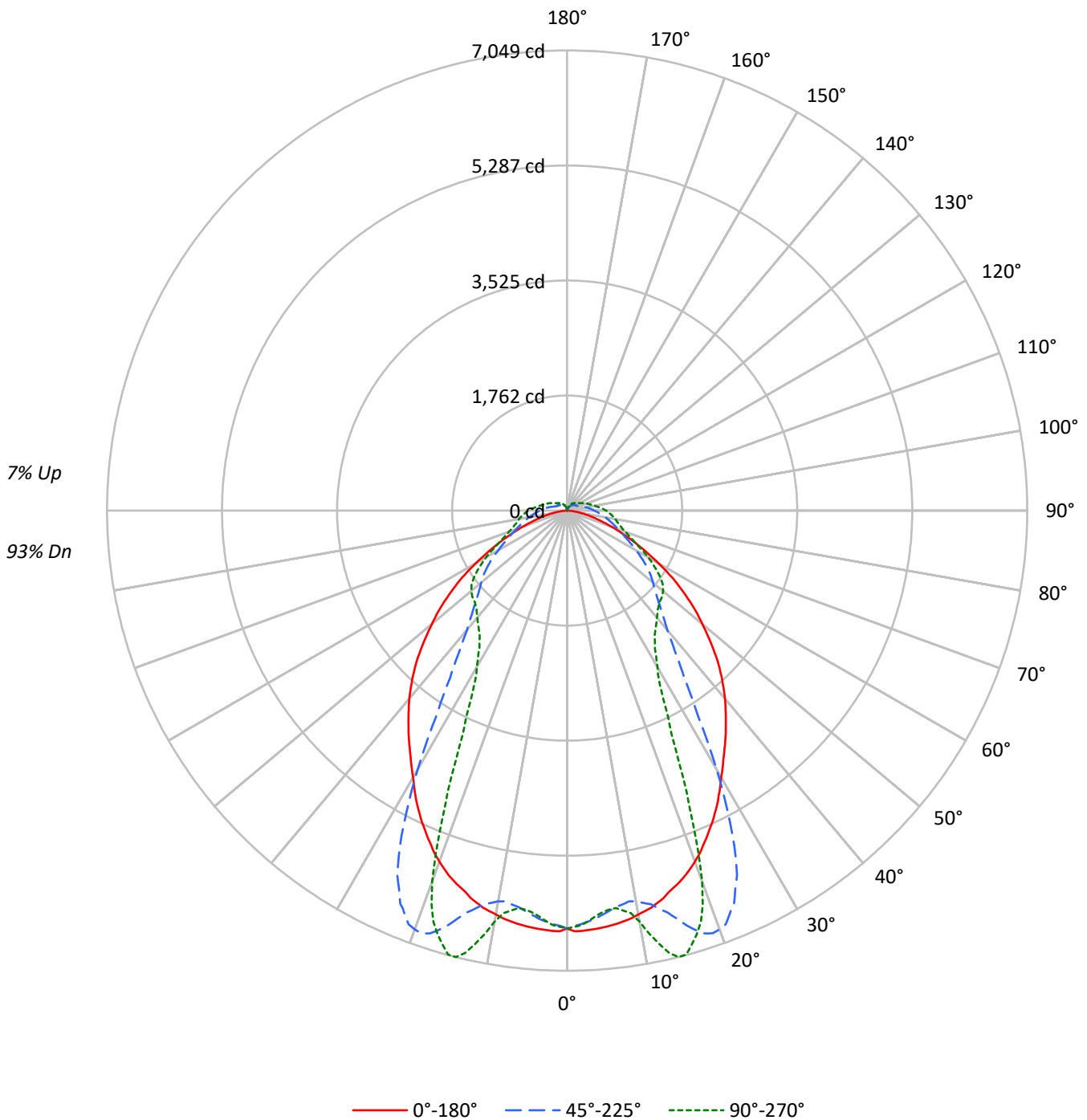
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14228.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 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

TEST NUMBER: P567409

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L950-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567409

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L950-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	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°	34455	34455	34455
5°	34558	32196	31538
10°	34208	30606	31274
15°	33474	31870	33293
20°	32525	33226	27864
25°	30956	29813	17133
30°	28987	22211	12399
35°	27390	15333	10460
40°	25965	11902	9640
45°	24295	10135	9117
50°	22097	9098	8950
55°	19775	8229	8280
60°	16769	7121	7162
65°	13638	6203	5978
70°	10701	5576	5263
75°	8298	5185	4908
80°	5840	4910	4859
85°	3252	4685	4824



TEST NUMBER: P567409

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L950-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.7	4.2
10°-20°	1820.3	12.8
20°-30°	2451.0	17.2
30°-40°	2319.7	16.3
40°-50°	2047.4	14.4
50°-60°	1663.0	11.7
60°-70°	1131.0	7.9
70°-80°	727.7	5.1
80°-90°	483.9	3.4
90°-100°	332.6	2.3
100°-110°	223.2	1.6
110°-120°	157.4	1.1
120°-130°	112.5	0.8
130°-140°	79.4	0.6
140°-150°	49.3	0.3
150°-160°	24.0	0.2
160°-170°	8.4	0.1
170°-180°	1.5	0.0
0°-30°	4867.0	34.2
0°-40°	7186.7	50.5
0°-60°	10897.1	76.6
0°-90°	13239.7	93.1
90°-120°	713.2	5.0
90°-150°	954.4	6.7
90°-180°	988.0	6.9
0°-180°	14228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6402	6402	6402	6402	6402	
5°	6408	6350	6213	6209	6178	608
15°	6041	6002	6465	7036	7043	1703
25°	5264	6241	6159	4473	3782	2415
35°	4230	5935	3128	2409	2335	2647
45°	3258	3993	1979	1955	1996	2502
55°	2170	2361	1486	1660	1723	1938
65°	1119	1273	995	1106	1140	1123
75°	430	602	702	786	823	468
85°	65	256	498	630	673	85
90°	2	178	415	558	595	4
95°	2	137	350	474	506	2
105°	4	96	230	324	363	4
115°	4	82	169	241	272	5
125°	6	70	146	182	196	6
135°	9	54	120	152	161	7
145°	9	39	85	117	128	6
155°	11	24	52	78	89	5
165°	11	15	28	39	48	3
175°	13	13	13	13	11	1
180°	11	11	11	11	11	



TEST NUMBER: P567409

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6401.9	6401.9	6401.9	6401.9	6401.9
1°	6445.3	6425.8	6360.6	6395.4	6378.0
2°	6443.2	6410.6	6336.7	6375.8	6354.1
3°	6432.3	6397.6	6302.0	6325.9	6293.3
4°	6421.5	6380.2	6265.0	6265.0	6228.1
5°	6408.4	6349.8	6212.9	6208.6	6178.1
6°	6393.2	6325.9	6167.3	6162.9	6145.6
7°	6371.5	6284.6	6117.3	6147.7	6134.7
8°	6345.4	6245.5	6091.3	6167.3	6186.8
9°	6321.5	6197.7	6060.8	6228.1	6243.3
10°	6282.4	6154.3	6080.4	6349.8	6395.4
11°	6249.8	6117.3	6123.8	6469.2	6606.1
12°	6217.2	6078.2	6165.1	6619.1	6786.4
13°	6162.9	6047.8	6256.4	6782.1	6953.7
14°	6115.1	6023.9	6345.4	6947.2	7049.3
15°	6041.3	6002.2	6464.9	7036.2	7042.7
16°	5991.3	5987.0	6603.9	7042.7	6921.1
17°	5934.8	5980.5	6716.9	6929.8	6786.4
18°	5871.8	5993.5	6810.3	6788.6	6623.5
19°	5800.2	6006.5	6849.4	6593.1	6380.2
20°	5722.0	6026.1	6827.7	6388.9	6045.6
21°	5643.8	6052.2	6786.4	6173.8	5606.8
22.5°	5498.2	6115.1	6590.9	5569.9	4881.3
23°	5456.9	6128.2	6545.3	5380.9	4692.3
24°	5354.8	6182.5	6336.7	4939.9	4192.6
25°	5263.6	6241.1	6158.6	4472.9	3782.1
26°	5161.5	6284.6	5889.2	4042.7	3530.1
27°	5061.6	6310.7	5582.9	3708.2	3247.7
28°	4946.4	6338.9	5250.6	3419.3	3034.8
29°	4837.8	6343.2	4922.5	3189.0	2867.5
30°	4720.5	6321.5	4577.1	3004.4	2763.2
32.5°	4464.2	6202.0	3732.1	2652.4	2502.5
35°	4229.6	5934.8	3128.2	2409.1	2335.3
37.5°	3992.8	5513.4	2704.6	2257.1	2233.2
40°	3760.3	5013.8	2385.2	2135.4	2139.8
42.5°	3514.9	4498.9	2165.8	2035.5	2055.0
45°	3258.5	3992.8	1979.0	1955.1	1996.4
47.5°	2973.9	3530.1	1831.3	1903.0	1966.0
50°	2704.6	3071.7	1716.2	1853.0	1918.2
52.5°	2448.2	2695.9	1611.9	1768.3	1844.3
55°	2170.2	2361.3	1485.9	1659.7	1722.7
57.5°	1905.1	2059.4	1353.4	1525.0	1581.5
60°	1614.1	1761.8	1218.7	1379.4	1433.7
62.5°	1351.2	1507.6	1103.6	1233.9	1277.3
65°	1118.8	1273.0	994.9	1105.7	1140.5



TEST NUMBER: P567409

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	912.4	1077.5	905.9	999.3	1031.9
70°	719.0	892.8	827.7	912.4	947.1
72.5°	562.6	738.6	762.5	840.7	875.5
75°	430.1	601.7	701.7	786.4	823.3
77.5°	319.3	490.9	645.2	742.9	782.0
80°	210.7	391.0	595.2	703.8	749.5
82.5°	132.5	315.0	545.3	664.7	712.5
85°	65.2	256.3	497.5	630.0	673.4
87.5°	21.7	212.9	454.0	595.2	632.2
90°	2.2	178.1	414.9	558.3	595.2
92.5°	2.2	154.2	382.3	514.8	551.8
95°	2.2	136.9	349.7	473.6	506.2
97.5°	2.2	123.8	319.3	430.1	464.9
100°	2.2	110.8	286.7	388.8	425.8
102.5°	4.3	102.1	258.5	354.1	393.2
105°	4.3	95.6	230.3	323.7	362.8
107.5°	4.3	91.2	206.4	299.8	336.7
110°	4.3	86.9	189.0	278.1	317.2
112.5°	4.3	84.7	178.1	258.5	295.4
115°	4.3	82.5	169.4	241.1	271.5
117.5°	6.5	80.4	162.9	223.8	247.6
120°	6.5	76.0	158.6	208.5	228.1
122.5°	6.5	71.7	152.1	195.5	210.7
125°	6.5	69.5	145.5	182.5	195.5
127.5°	6.5	65.2	139.0	171.6	184.6
130°	8.7	60.8	132.5	162.9	173.8
132.5°	8.7	56.5	126.0	158.6	167.3
135°	8.7	54.3	119.5	152.1	160.8
137.5°	8.7	50.0	113.0	145.5	154.2
140°	8.7	45.6	104.3	136.9	145.5
142.5°	8.7	43.4	95.6	128.2	136.9
145°	8.7	39.1	84.7	117.3	128.2
147.5°	10.9	36.9	76.0	108.6	117.3
150°	10.9	32.6	67.3	99.9	108.6
152.5°	10.9	28.2	58.7	89.1	97.8
155°	10.9	23.9	52.1	78.2	89.1
157.5°	10.9	21.7	45.6	65.2	78.2
160°	10.9	19.6	39.1	56.5	67.3
162.5°	10.9	17.4	34.8	47.8	58.7
165°	10.9	15.2	28.2	39.1	47.8
167.5°	13.0	15.2	23.9	30.4	39.1
170°	13.0	15.2	19.6	23.9	30.4
172.5°	13.0	13.0	15.2	17.4	19.6
175°	13.0	13.0	13.0	13.0	10.9
177.5°	13.0	13.0	13.0	10.9	10.9



TEST NUMBER: P567409

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	10.9	10.9	10.9	10.9	10.9

(END OF REPORT)