

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: P567601

Luminaire Tested: **8SNX-180HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

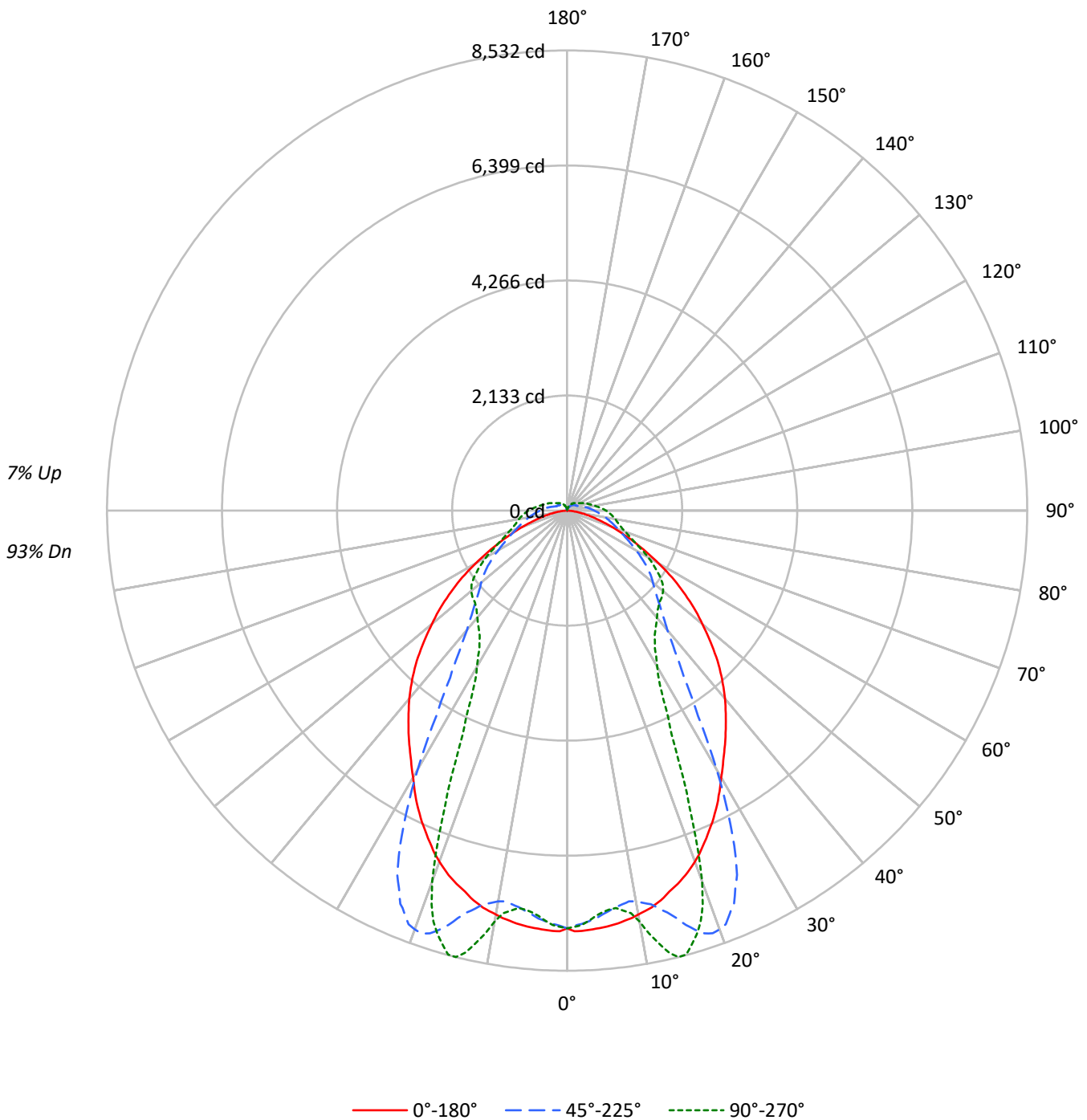
Test Method: LM-79-08  
Report Number: P567601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-180HL-LC-UNV-L950-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17220.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 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): 128.8  
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°	41700	41700	41700
5°	41826	38966	38170
10°	41401	37042	37851
15°	40513	38572	40295
20°	39365	40213	33724
25°	37466	36083	20736
30°	35083	26882	15007
35°	33149	18558	12660
40°	31425	14405	11667
45°	29404	12267	11034
50°	26743	11011	10832
55°	23933	9959	10021
60°	20295	8619	8668
65°	16505	7508	7235
70°	12953	6749	6370
75°	10045	6275	5941
80°	7068	5943	5880
85°	3935	5671	5838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.0	4.2
10°-20°	2203.1	12.8
20°-30°	2966.5	17.2
30°-40°	2807.5	16.3
40°-50°	2478.0	14.4
50°-60°	2012.7	11.7
60°-70°	1368.8	7.9
70°-80°	880.8	5.1
80°-90°	585.7	3.4
90°-100°	402.5	2.3
100°-110°	270.2	1.6
110°-120°	190.6	1.1
120°-130°	136.1	0.8
130°-140°	96.1	0.6
140°-150°	59.6	0.3
150°-160°	29.1	0.2
160°-170°	10.2	0.1
170°-180°	1.8	0.0
0°-30°	5890.5	34.2
0°-40°	8698.0	50.5
0°-60°	13188.6	76.6
0°-90°	16023.9	93.1
90°-120°	863.2	5.0
90°-150°	1155.1	6.7
90°-180°	1196.0	6.9
0°-180°	17220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7748	7748	7748	7748	7748	
5°	7756	7685	7519	7514	7477	736
15°	7312	7264	7824	8516	8524	2061
25°	6370	7554	7454	5414	4577	2923
35°	5119	7183	3786	2916	2826	3203
45°	3944	4832	2395	2366	2416	3028
55°	2626	2858	1798	2009	2085	2346
65°	1354	1541	1204	1338	1380	1359
75°	521	728	849	952	996	566
85°	79	310	602	762	815	103
90°	3	216	502	676	720	5
95°	3	166	423	573	613	2
105°	5	116	279	392	439	5
115°	5	100	205	292	329	6
125°	8	84	176	221	237	7
135°	10	66	145	184	195	8
145°	10	47	102	142	155	7
155°	13	29	63	95	108	6
165°	13	18	34	47	58	4
175°	16	16	16	16	13	2
180°	13	13	13	13	13	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7748.2	7748.2	7748.2	7748.2	7748.2
1°	7800.7	7777.1	7698.2	7740.3	7719.2
2°	7798.1	7758.7	7669.3	7716.6	7690.3
3°	7785.0	7742.9	7627.2	7656.1	7616.7
4°	7771.8	7721.9	7582.5	7582.5	7537.8
5°	7756.0	7685.1	7519.4	7514.2	7477.3
6°	7737.6	7656.1	7464.2	7458.9	7437.9
7°	7711.3	7606.2	7403.7	7440.5	7424.8
8°	7679.8	7558.9	7372.2	7464.2	7487.9
9°	7650.9	7501.0	7335.4	7537.8	7556.2
10°	7603.5	7448.4	7359.0	7685.1	7740.3
11°	7564.1	7403.7	7411.6	7829.7	7995.3
12°	7524.7	7356.4	7461.6	8011.1	8213.5
13°	7458.9	7319.6	7572.0	8208.3	8416.0
14°	7401.1	7290.7	7679.8	8408.1	8531.6
15°	7311.7	7264.4	7824.4	8515.9	8523.8
16°	7251.2	7246.0	7992.7	8523.8	8376.5
17°	7182.9	7238.1	8129.4	8387.0	8213.5
18°	7106.6	7253.9	8242.4	8216.1	8016.3
19°	7019.9	7269.6	8289.8	7979.5	7721.9
20°	6925.2	7293.3	8263.5	7732.4	7317.0
21°	6830.6	7324.9	8213.5	7472.1	6785.9
22.5°	6654.4	7401.1	7976.9	6741.2	5907.7
23°	6604.5	7416.9	7921.7	6512.4	5679.0
24°	6480.9	7482.6	7669.3	5978.7	5074.3
25°	6370.5	7553.6	7453.7	5413.5	4577.4
26°	6246.9	7606.2	7127.7	4892.9	4272.4
27°	6126.0	7637.7	6757.0	4488.0	3930.6
28°	5986.6	7671.9	6354.7	4138.3	3672.9
29°	5855.2	7677.2	5957.7	3859.6	3470.5
30°	5713.2	7650.9	5539.7	3636.1	3344.3
32.5°	5402.9	7506.3	4516.9	3210.2	3028.8
35°	5119.0	7182.9	3786.0	2915.7	2826.4
37.5°	4832.4	6672.8	3273.3	2731.7	2702.8
40°	4551.1	6068.1	2886.8	2584.5	2589.7
42.5°	4254.0	5445.0	2621.3	2463.5	2487.2
45°	3943.7	4832.4	2395.2	2366.2	2416.2
47.5°	3599.3	4272.4	2216.4	2303.1	2379.4
50°	3273.3	3717.6	2077.0	2242.7	2321.6
52.5°	2963.1	3262.8	1950.8	2140.1	2232.2
55°	2626.5	2857.9	1798.3	2008.7	2084.9
57.5°	2305.8	2492.4	1638.0	1845.7	1914.0
60°	1953.5	2132.3	1475.0	1669.5	1735.2
62.5°	1635.3	1824.6	1335.6	1493.4	1545.9
65°	1354.0	1540.7	1204.2	1338.2	1380.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1104.2	1304.1	1096.4	1209.4	1248.9
70°	870.3	1080.6	1001.7	1104.2	1146.3
72.5°	681.0	893.9	922.8	1017.5	1059.6
75°	520.6	728.3	849.2	951.8	996.5
77.5°	386.5	594.2	780.9	899.2	946.5
80°	255.0	473.2	720.4	851.8	907.1
82.5°	160.4	381.2	659.9	804.5	862.4
85°	78.9	310.2	602.1	762.5	815.0
87.5°	26.3	257.7	549.5	720.4	765.1
90°	2.6	215.6	502.2	675.7	720.4
92.5°	2.6	186.7	462.7	623.1	667.8
95°	2.6	165.6	423.3	573.2	612.6
97.5°	2.6	149.9	386.5	520.6	562.6
100°	2.6	134.1	347.0	470.6	515.3
102.5°	5.3	123.6	312.9	428.6	475.9
105°	5.3	115.7	278.7	391.7	439.1
107.5°	5.3	110.4	249.8	362.8	407.5
110°	5.3	105.2	228.7	336.5	383.9
112.5°	5.3	102.5	215.6	312.9	357.6
115°	5.3	99.9	205.1	291.8	328.6
117.5°	7.9	97.3	197.2	270.8	299.7
120°	7.9	92.0	191.9	252.4	276.1
122.5°	7.9	86.8	184.0	236.6	255.0
125°	7.9	84.1	176.2	220.8	236.6
127.5°	7.9	78.9	168.3	207.7	223.5
130°	10.5	73.6	160.4	197.2	210.3
132.5°	10.5	68.4	152.5	191.9	202.4
135°	10.5	65.7	144.6	184.0	194.6
137.5°	10.5	60.5	136.7	176.2	186.7
140°	10.5	55.2	126.2	165.6	176.2
142.5°	10.5	52.6	115.7	155.1	165.6
145°	10.5	47.3	102.5	142.0	155.1
147.5°	13.1	44.7	92.0	131.5	142.0
150°	13.1	39.4	81.5	120.9	131.5
152.5°	13.1	34.2	71.0	107.8	118.3
155°	13.1	28.9	63.1	94.6	107.8
157.5°	13.1	26.3	55.2	78.9	94.6
160°	13.1	23.7	47.3	68.4	81.5
162.5°	13.1	21.0	42.1	57.8	71.0
165°	13.1	18.4	34.2	47.3	57.8
167.5°	15.8	18.4	28.9	36.8	47.3
170°	15.8	18.4	23.7	28.9	36.8
172.5°	15.8	15.8	18.4	21.0	23.7
175°	15.8	15.8	15.8	15.8	13.1
177.5°	15.8	15.8	15.8	13.1	13.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	13.1	13.1	13.1	13.1	13.1

(END OF REPORT)