

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: P567404

Luminaire Tested: **8SNX-148HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567404  
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-L840-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

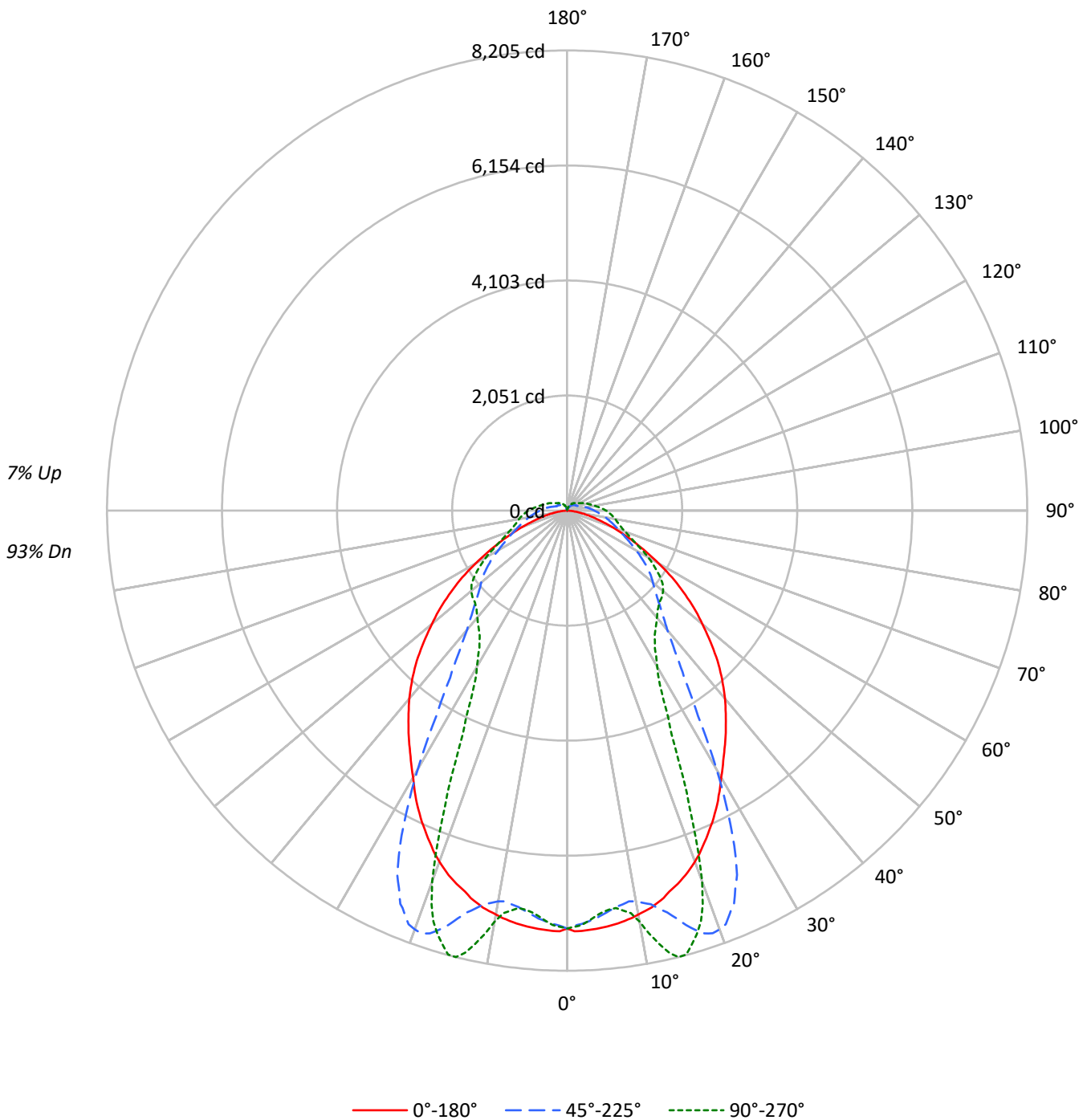
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16561.0 lumens  
Efficiency: N/A  
Efficacy: 159.9 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°	40104	40104	40104
5°	40225	37475	36709
10°	39817	35624	36402
15°	38963	37096	38753
20°	37858	38673	32433
25°	36032	34702	19942
30°	33740	25853	14433
35°	31880	17847	12175
40°	30222	13854	11221
45°	28279	11797	10612
50°	25719	10590	10417
55°	23017	9578	9638
60°	19518	8289	8336
65°	15874	7220	6958
70°	12456	6491	6126
75°	9661	6034	5713
80°	6799	5715	5655
85°	3785	5453	5615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	693.4	4.2
10°-20°	2118.8	12.8
20°-30°	2852.9	17.2
30°-40°	2700.0	16.3
40°-50°	2383.2	14.4
50°-60°	1935.6	11.7
60°-70°	1316.5	7.9
70°-80°	847.1	5.1
80°-90°	563.2	3.4
90°-100°	387.1	2.3
100°-110°	259.8	1.6
110°-120°	183.3	1.1
120°-130°	130.9	0.8
130°-140°	92.4	0.6
140°-150°	57.4	0.3
150°-160°	28.0	0.2
160°-170°	9.8	0.1
170°-180°	1.7	0.0
0°-30°	5665.1	34.2
0°-40°	8365.1	50.5
0°-60°	12683.9	76.6
0°-90°	15410.7	93.1
90°-120°	830.2	5.0
90°-150°	1110.9	6.7
90°-180°	1150.0	6.9
0°-180°	16561.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7452	7452	7452	7452	7452	
5°	7459	7391	7232	7227	7191	708
15°	7032	6986	7525	8190	8198	1982
25°	6127	7264	7168	5206	4402	2811
35°	4923	6908	3641	2804	2718	3081
45°	3793	4648	2304	2276	2324	2912
55°	2526	2748	1730	1932	2005	2256
65°	1302	1482	1158	1287	1328	1307
75°	501	700	817	915	958	545
85°	76	298	579	733	784	99
90°	2	207	483	650	693	4
95°	2	159	407	551	589	2
105°	5	111	268	377	422	5
115°	5	96	197	281	316	6
125°	8	81	169	212	228	7
135°	10	63	139	177	187	8
145°	10	46	99	136	149	7
155°	13	28	61	91	104	6
165°	13	18	33	46	56	4
175°	15	15	15	15	13	1
180°	13	13	13	13	13	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7451.6	7451.6	7451.6	7451.6	7451.6
1°	7502.2	7479.4	7403.6	7444.0	7423.8
2°	7499.7	7461.7	7375.8	7421.3	7396.0
3°	7487.0	7446.6	7335.3	7363.1	7325.2
4°	7474.4	7426.3	7292.3	7292.3	7249.4
5°	7459.2	7390.9	7231.7	7226.6	7191.2
6°	7441.5	7363.1	7178.6	7173.5	7153.3
7°	7416.2	7315.1	7120.4	7155.8	7140.6
8°	7385.9	7269.6	7090.1	7178.6	7201.3
9°	7358.1	7214.0	7054.7	7249.4	7267.1
10°	7312.6	7163.4	7077.4	7390.9	7444.0
11°	7274.6	7120.4	7128.0	7530.0	7689.3
12°	7236.7	7074.9	7176.0	7704.5	7899.2
13°	7173.5	7039.5	7282.2	7894.1	8093.9
14°	7117.9	7011.7	7385.9	8086.3	8205.1
15°	7031.9	6986.4	7525.0	8190.0	8197.6
16°	6973.7	6968.7	7686.8	8197.6	8056.0
17°	6908.0	6961.1	7818.3	8066.1	7899.2
18°	6834.7	6976.3	7927.0	7901.7	7709.5
19°	6751.2	6991.4	7972.5	7674.1	7426.3
20°	6660.2	7014.2	7947.2	7436.5	7037.0
21°	6569.2	7044.5	7899.2	7186.1	6526.2
22.5°	6399.8	7117.9	7671.6	6483.2	5681.6
23°	6351.7	7133.0	7618.5	6263.2	5461.7
24°	6232.9	7196.3	7375.8	5749.9	4880.1
25°	6126.7	7264.5	7168.4	5206.3	4402.2
26°	6007.8	7315.1	6854.9	4705.6	4108.9
27°	5891.5	7345.4	6498.4	4316.2	3780.2
28°	5757.5	7378.3	6111.5	3979.9	3532.4
29°	5631.1	7383.4	5729.7	3711.9	3337.7
30°	5494.5	7358.1	5327.7	3497.0	3216.3
32.5°	5196.2	7219.0	4344.0	3087.4	2912.9
35°	4923.1	6908.0	3641.1	2804.2	2718.2
37.5°	4647.5	6417.5	3148.0	2627.2	2599.3
40°	4376.9	5835.9	2776.3	2485.6	2490.6
42.5°	4091.2	5236.6	2521.0	2369.3	2392.0
45°	3792.8	4647.5	2303.5	2275.7	2323.7
47.5°	3461.6	4108.9	2131.6	2215.0	2288.3
50°	3148.0	3575.4	1997.6	2156.9	2232.7
52.5°	2849.7	3137.9	1876.2	2058.2	2146.7
55°	2526.0	2748.5	1729.5	1931.8	2005.1
57.5°	2217.5	2397.1	1575.3	1775.0	1840.8
60°	1878.7	2050.7	1418.5	1605.6	1668.8
62.5°	1572.8	1754.8	1284.5	1436.2	1486.8
65°	1302.2	1481.7	1158.1	1287.0	1327.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1062.0	1254.2	1054.4	1163.1	1201.1
70°	836.9	1039.2	963.4	1062.0	1102.4
72.5°	654.9	859.7	887.5	978.5	1019.0
75°	500.7	700.4	816.7	915.3	958.3
77.5°	371.7	571.5	751.0	864.8	910.3
80°	245.3	455.1	692.8	819.2	872.3
82.5°	154.2	366.6	634.7	773.7	829.4
85°	75.9	298.4	579.0	733.3	783.9
87.5°	25.3	247.8	528.5	692.8	735.8
90°	2.5	207.3	483.0	649.8	692.8
92.5°	2.5	179.5	445.0	599.3	642.3
95°	2.5	159.3	407.1	551.2	589.2
97.5°	2.5	144.1	371.7	500.7	541.1
100°	2.5	129.0	333.8	452.6	495.6
102.5°	5.1	118.8	300.9	412.2	457.7
105°	5.1	111.3	268.0	376.8	422.3
107.5°	5.1	106.2	240.2	348.9	391.9
110°	5.1	101.1	220.0	323.7	369.2
112.5°	5.1	98.6	207.3	300.9	343.9
115°	5.1	96.1	197.2	280.7	316.1
117.5°	7.6	93.6	189.6	260.4	288.3
120°	7.6	88.5	184.6	242.7	265.5
122.5°	7.6	83.4	177.0	227.6	245.3
125°	7.6	80.9	169.4	212.4	227.6
127.5°	7.6	75.9	161.8	199.8	214.9
130°	10.1	70.8	154.2	189.6	202.3
132.5°	10.1	65.7	146.7	184.6	194.7
135°	10.1	63.2	139.1	177.0	187.1
137.5°	10.1	58.2	131.5	169.4	179.5
140°	10.1	53.1	121.4	159.3	169.4
142.5°	10.1	50.6	111.3	149.2	159.3
145°	10.1	45.5	98.6	136.5	149.2
147.5°	12.6	43.0	88.5	126.4	136.5
150°	12.6	37.9	78.4	116.3	126.4
152.5°	12.6	32.9	68.3	103.7	113.8
155°	12.6	27.8	60.7	91.0	103.7
157.5°	12.6	25.3	53.1	75.9	91.0
160°	12.6	22.8	45.5	65.7	78.4
162.5°	12.6	20.2	40.5	55.6	68.3
165°	12.6	17.7	32.9	45.5	55.6
167.5°	15.2	17.7	27.8	35.4	45.5
170°	15.2	17.7	22.8	27.8	35.4
172.5°	15.2	15.2	17.7	20.2	22.8
175°	15.2	15.2	15.2	15.2	12.6
177.5°	15.2	15.2	15.2	12.6	12.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	12.6	12.6	12.6	12.6	12.6

(END OF REPORT)