

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: P567412

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567412  
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-L840-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

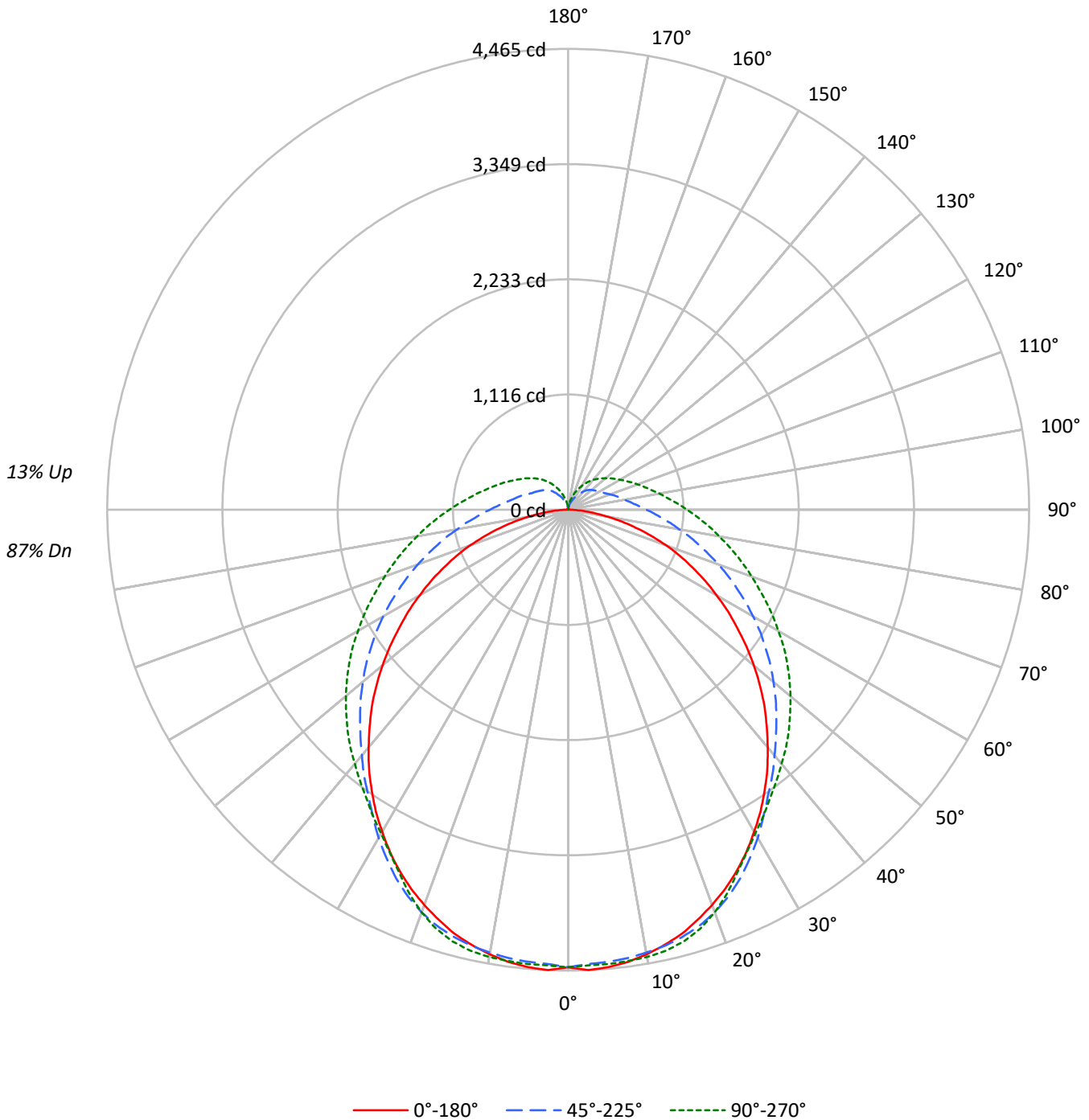
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16002.0 lumens  
Efficiency: N/A  
Efficacy: 154.5 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

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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	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°	23858	23858	23858
5°	23993	22789	22560
10°	23812	21930	21518
15°	23570	21117	20468
20°	23162	20199	19131
25°	22720	19082	17562
30°	22123	17824	16252
35°	21486	16542	15275
40°	20756	15514	14484
45°	20045	14602	13801
50°	19195	13763	13113
55°	18194	12921	12440
60°	17249	12080	11736
65°	16204	11231	11091
70°	15021	10437	10508
75°	13137	9662	10027
80°	10677	8997	9620
85°	7711	8534	9386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.1	2.6
10°-20°	1210.7	7.6
20°-30°	1802.9	11.3
30°-40°	2127.3	13.3
40°-50°	2218.6	13.9
50°-60°	2084.9	13.0
60°-70°	1760.7	11.0
70°-80°	1330.3	8.3
80°-90°	917.0	5.7
90°-100°	641.7	4.0
100°-110°	478.9	3.0
110°-120°	361.0	2.3
120°-130°	269.2	1.7
130°-140°	189.0	1.2
140°-150°	114.3	0.7
150°-160°	54.6	0.3
160°-170°	17.5	0.1
170°-180°	2.1	0.0
0°-30°	3434.8	21.5
0°-40°	5562.1	34.8
0°-60°	9865.6	61.7
0°-90°	13873.6	86.7
90°-120°	1481.6	9.3
90°-150°	2054.1	12.8
90°-180°	2128.0	13.3
0°-180°	16002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4433	4433	4433	4433	4433	
5°	4449	4441	4398	4430	4419	422
15°	4254	4273	4284	4338	4330	1198
25°	3863	3942	3942	3907	3877	1777
35°	3318	3440	3375	3402	3410	2075
45°	2688	2821	2851	2968	3022	2070
55°	1997	2168	2333	2520	2588	1792
65°	1329	1541	1801	2037	2116	1320
75°	681	944	1308	1582	1682	725
85°	155	486	906	1204	1310	173
90°	3	344	757	1047	1150	11
95°	3	269	640	917	1012	2
105°	5	193	494	716	798	5
115°	5	166	382	570	643	6
125°	8	141	323	467	526	7
135°	8	108	269	380	426	6
145°	11	79	187	290	326	6
155°	11	52	114	184	214	5
165°	14	33	60	81	108	4
175°	14	14	16	16	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4432.9	4432.9	4432.9	4432.9	4432.9
2.5°	4465.4	4454.6	4405.7	4432.9	4419.3
5°	4449.1	4441.0	4397.6	4430.1	4419.3
7.5°	4419.3	4416.6	4384.0	4422.0	4411.1
10°	4373.2	4381.3	4356.9	4408.4	4400.3
12.5°	4318.9	4335.2	4327.0	4384.0	4375.9
15°	4253.8	4272.8	4283.6	4337.9	4329.8
17.5°	4167.0	4202.3	4226.7	4270.1	4256.5
20°	4074.8	4123.6	4150.7	4172.4	4150.7
22.5°	3974.4	4039.5	4055.8	4044.9	4023.2
25°	3863.1	3941.8	3941.8	3906.6	3876.7
27.5°	3738.4	3836.0	3808.9	3768.2	3743.8
30°	3602.7	3719.4	3673.2	3627.1	3621.7
32.5°	3467.1	3589.1	3521.3	3510.5	3518.6
35°	3317.9	3439.9	3374.8	3402.0	3410.1
37.5°	3168.6	3290.7	3247.3	3288.0	3312.4
40°	3005.9	3136.1	3109.0	3182.2	3214.8
42.5°	2845.8	2981.5	2978.7	3073.7	3122.5
45°	2688.5	2821.4	2851.2	2967.9	3022.2
47.5°	2517.6	2653.2	2726.4	2862.1	2916.3
50°	2349.4	2495.9	2596.2	2748.2	2810.5
52.5°	2175.7	2330.4	2468.7	2636.9	2702.0
55°	1996.7	2167.6	2333.1	2520.3	2588.1
57.5°	1836.6	2010.2	2205.6	2398.2	2476.9
60°	1660.3	1852.9	2067.2	2270.7	2349.4
62.5°	1500.2	1698.3	1937.0	2151.3	2235.4
65°	1329.3	1540.9	1801.4	2037.4	2116.0
67.5°	1172.0	1389.0	1673.8	1912.6	1999.4
70°	1009.2	1239.8	1549.1	1801.4	1890.9
72.5°	841.0	1085.2	1424.3	1692.8	1785.1
75°	680.9	944.1	1307.6	1581.6	1682.0
77.5°	531.7	808.4	1201.8	1483.9	1581.6
80°	385.2	686.4	1090.6	1383.6	1483.9
82.5°	255.0	580.6	1001.1	1294.0	1399.8
85°	154.6	485.6	906.1	1204.5	1310.3
87.5°	70.5	406.9	830.1	1125.8	1228.9
90°	2.7	344.5	756.9	1047.2	1150.3
92.5°	2.7	301.1	697.2	979.4	1079.7
95°	2.7	268.6	640.2	917.0	1011.9
97.5°	2.7	246.9	596.8	857.3	949.5
100°	2.7	225.2	553.4	803.0	898.0
102.5°	5.4	206.2	520.9	754.2	843.7
105°	5.4	192.6	493.7	716.2	797.6
107.5°	5.4	184.5	463.9	678.2	754.2
110°	5.4	176.3	431.3	640.2	716.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	170.9	406.9	607.7	680.9
115°	5.4	165.5	382.5	569.7	643.0
117.5°	5.4	162.8	369.0	539.9	610.4
120°	8.1	154.6	352.7	512.7	580.6
122.5°	8.1	146.5	336.4	491.0	550.7
125°	8.1	141.1	322.8	466.6	526.3
127.5°	8.1	132.9	309.3	444.9	499.2
130°	8.1	124.8	298.4	423.2	474.8
132.5°	8.1	116.7	284.9	401.5	450.3
135°	8.1	108.5	268.6	379.8	425.9
137.5°	8.1	100.4	252.3	358.1	401.5
140°	8.1	92.2	230.6	336.4	377.1
142.5°	8.1	84.1	208.9	314.7	350.0
145°	10.9	78.7	187.2	290.3	325.5
147.5°	10.9	70.5	165.5	265.9	295.7
150°	10.9	65.1	149.2	241.4	268.6
152.5°	10.9	57.0	132.9	214.3	241.4
155°	10.9	51.5	113.9	184.5	214.3
157.5°	10.9	46.1	97.7	154.6	187.2
160°	10.9	43.4	84.1	127.5	160.1
162.5°	13.6	38.0	70.5	103.1	132.9
165°	13.6	32.6	59.7	81.4	108.5
167.5°	13.6	27.1	48.8	62.4	84.1
170°	13.6	21.7	38.0	43.4	65.1
172.5°	13.6	16.3	27.1	29.8	32.6
175°	13.6	13.6	16.3	16.3	8.1
177.5°	13.6	13.6	10.9	8.1	2.7
180°	8.1	8.1	8.1	8.1	8.1

(END OF REPORT)