

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: P567405

Luminaire Tested: **8SNX-148HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567405
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-L850-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

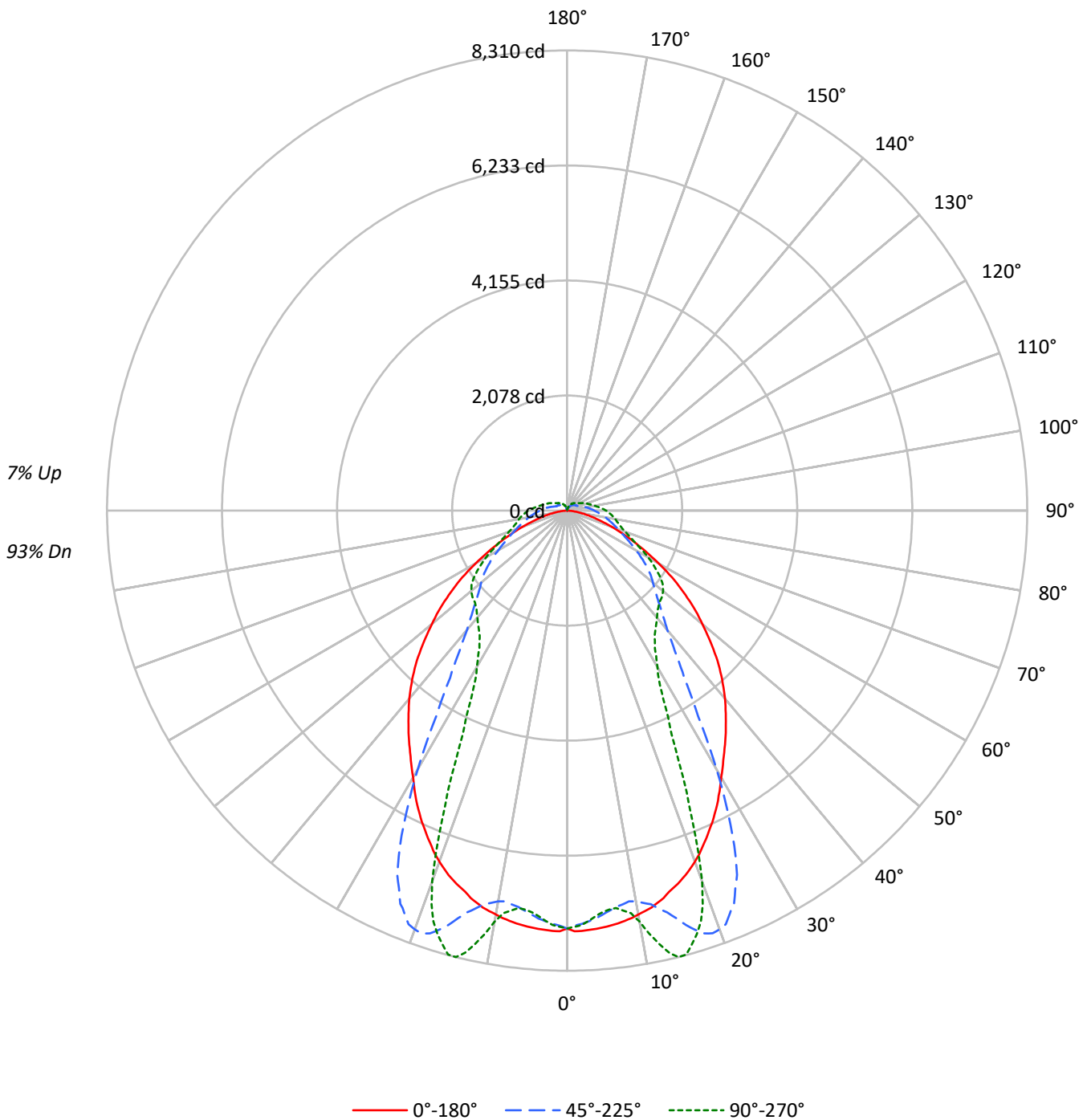
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16773.0 lumens
Efficiency: N/A
Efficacy: 161.9 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

TEST NUMBER: P567405
CATALOG NUMBER: 8SNX-148HL-LC-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567405

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L850-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	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°	40618	40618	40618
5°	40740	37955	37179
10°	40327	36080	36868
15°	39462	37570	39249
20°	38343	39169	32848
25°	36493	35146	20198
30°	34172	26184	14618
35°	32288	18076	12331
40°	30609	14032	11365
45°	28641	11948	10748
50°	26048	10725	10551
55°	23312	9701	9761
60°	19768	8395	8443
65°	16078	7313	7047
70°	12617	6573	6205
75°	9784	6112	5786
80°	6885	5789	5727
85°	3830	5524	5687



TEST NUMBER: P567405

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.3	4.2
10°-20°	2145.9	12.8
20°-30°	2889.5	17.2
30°-40°	2734.6	16.3
40°-50°	2413.7	14.4
50°-60°	1960.4	11.7
60°-70°	1333.3	7.9
70°-80°	857.9	5.1
80°-90°	570.5	3.4
90°-100°	392.1	2.3
100°-110°	263.2	1.6
110°-120°	185.6	1.1
120°-130°	132.6	0.8
130°-140°	93.6	0.6
140°-150°	58.1	0.3
150°-160°	28.3	0.2
160°-170°	9.9	0.1
170°-180°	1.7	0.0
0°-30°	5737.6	34.2
0°-40°	8472.2	50.5
0°-60°	12846.3	76.6
0°-90°	15608.0	93.1
90°-120°	840.8	5.0
90°-150°	1125.1	6.7
90°-180°	1165.0	6.9
0°-180°	16773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7547	7547	7547	7547	7547	
5°	7555	7486	7324	7319	7283	717
15°	7122	7076	7621	8295	8302	2008
25°	6205	7358	7260	5273	4459	2847
35°	4986	6996	3688	2840	2753	3120
45°	3841	4707	2333	2305	2354	2949
55°	2558	2784	1752	1956	2031	2285
65°	1319	1501	1173	1304	1344	1324
75°	507	709	827	927	971	552
85°	77	302	586	743	794	101
90°	3	210	489	658	702	5
95°	3	161	412	558	597	2
105°	5	113	272	382	428	5
115°	5	97	200	284	320	6
125°	8	82	172	215	230	7
135°	10	64	141	179	190	8
145°	10	46	100	138	151	7
155°	13	28	62	92	105	6
165°	13	18	33	46	56	4
175°	15	15	15	15	13	1
180°	13	13	13	13	13	



TEST NUMBER: P567405

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7547.0	7547.0	7547.0	7547.0	7547.0
1°	7598.2	7575.2	7498.4	7539.3	7518.9
2°	7595.7	7557.3	7470.2	7516.3	7490.7
3°	7582.9	7541.9	7429.2	7457.4	7419.0
4°	7570.1	7521.4	7385.7	7385.7	7342.2
5°	7554.7	7485.6	7324.2	7319.1	7283.2
6°	7536.8	7457.4	7270.4	7265.3	7244.8
7°	7511.2	7408.7	7211.5	7247.4	7232.0
8°	7480.4	7362.6	7180.8	7270.4	7293.5
9°	7452.3	7306.3	7145.0	7342.2	7360.1
10°	7406.2	7255.1	7168.0	7485.6	7539.3
11°	7367.8	7211.5	7219.2	7626.4	7787.7
12°	7329.3	7165.4	7267.9	7803.1	8000.3
13°	7265.3	7129.6	7375.4	7995.2	8197.5
14°	7209.0	7101.4	7480.4	8189.8	8310.2
15°	7121.9	7075.8	7621.3	8294.8	8302.5
16°	7063.0	7057.9	7785.2	8302.5	8159.1
17°	6996.4	7050.2	7918.4	8169.3	8000.3
18°	6922.2	7065.6	8028.5	8002.9	7808.2
19°	6837.6	7080.9	8074.6	7772.4	7521.4
20°	6745.5	7104.0	8049.0	7531.7	7127.0
21°	6653.3	7134.7	8000.3	7278.1	6609.7
22.5°	6481.7	7209.0	7769.8	6566.2	5754.4
23°	6433.0	7224.3	7716.0	6343.4	5531.6
24°	6312.7	7288.4	7470.2	5823.5	4942.6
25°	6205.1	7357.5	7260.2	5272.9	4458.6
26°	6084.7	7408.7	6942.6	4765.9	4161.5
27°	5966.9	7439.5	6581.6	4371.5	3828.6
28°	5831.2	7472.8	6189.7	4030.9	3577.6
29°	5703.2	7477.9	5803.0	3759.4	3380.4
30°	5564.9	7452.3	5395.9	3541.7	3257.5
32.5°	5262.7	7311.4	4399.7	3126.9	2950.2
35°	4986.1	6996.4	3687.7	2840.1	2753.0
37.5°	4707.0	6499.6	3188.3	2660.8	2632.6
40°	4432.9	5910.6	2811.9	2517.4	2522.5
42.5°	4143.6	5303.7	2553.2	2399.6	2422.6
45°	3841.4	4707.0	2333.0	2304.8	2353.5
47.5°	3505.9	4161.5	2158.9	2243.4	2317.6
50°	3188.3	3621.1	2023.1	2184.5	2261.3
52.5°	2886.2	3178.1	1900.2	2084.6	2174.2
55°	2558.4	2783.7	1751.7	1956.5	2030.8
57.5°	2245.9	2427.7	1595.5	1797.8	1864.3
60°	1902.8	2076.9	1436.7	1626.2	1690.2
62.5°	1592.9	1777.3	1300.9	1454.6	1505.8
65°	1318.9	1500.7	1172.9	1303.5	1344.5



TEST NUMBER: P567405

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1075.6	1270.2	1067.9	1178.0	1216.4
70°	847.7	1052.5	975.7	1075.6	1116.6
72.5°	663.3	870.7	898.9	991.1	1032.0
75°	507.1	709.4	827.2	927.1	970.6
77.5°	376.5	578.8	760.6	875.8	921.9
80°	248.4	461.0	701.7	829.7	883.5
82.5°	156.2	371.3	642.8	783.6	840.0
85°	76.8	302.2	586.5	742.7	793.9
87.5°	25.6	251.0	535.2	701.7	745.2
90°	2.6	210.0	489.1	658.2	701.7
92.5°	2.6	181.8	450.7	606.9	650.5
95°	2.6	161.3	412.3	558.3	596.7
97.5°	2.6	146.0	376.5	507.1	548.0
100°	2.6	130.6	338.0	458.4	501.9
102.5°	5.1	120.4	304.7	417.4	463.5
105°	5.1	112.7	271.5	381.6	427.7
107.5°	5.1	107.6	243.3	353.4	396.9
110°	5.1	102.4	222.8	327.8	373.9
112.5°	5.1	99.9	210.0	304.7	348.3
115°	5.1	97.3	199.8	284.3	320.1
117.5°	7.7	94.8	192.1	263.8	291.9
120°	7.7	89.6	186.9	245.8	268.9
122.5°	7.7	84.5	179.3	230.5	248.4
125°	7.7	81.9	171.6	215.1	230.5
127.5°	7.7	76.8	163.9	202.3	217.7
130°	10.2	71.7	156.2	192.1	204.9
132.5°	10.2	66.6	148.5	186.9	197.2
135°	10.2	64.0	140.9	179.3	189.5
137.5°	10.2	58.9	133.2	171.6	181.8
140°	10.2	53.8	122.9	161.3	171.6
142.5°	10.2	51.2	112.7	151.1	161.3
145°	10.2	46.1	99.9	138.3	151.1
147.5°	12.8	43.5	89.6	128.0	138.3
150°	12.8	38.4	79.4	117.8	128.0
152.5°	12.8	33.3	69.1	105.0	115.2
155°	12.8	28.2	61.5	92.2	105.0
157.5°	12.8	25.6	53.8	76.8	92.2
160°	12.8	23.0	46.1	66.6	79.4
162.5°	12.8	20.5	41.0	56.3	69.1
165°	12.8	17.9	33.3	46.1	56.3
167.5°	15.4	17.9	28.2	35.9	46.1
170°	15.4	17.9	23.0	28.2	35.9
172.5°	15.4	15.4	17.9	20.5	23.0
175°	15.4	15.4	15.4	15.4	12.8
177.5°	15.4	15.4	15.4	12.8	12.8



TEST NUMBER: P567405

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.8	12.8	12.8	12.8	12.8

(END OF REPORT)