

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: P567605

Luminaire Tested: **8SNX-180HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567605
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-180HL-LN-UNV-L850-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

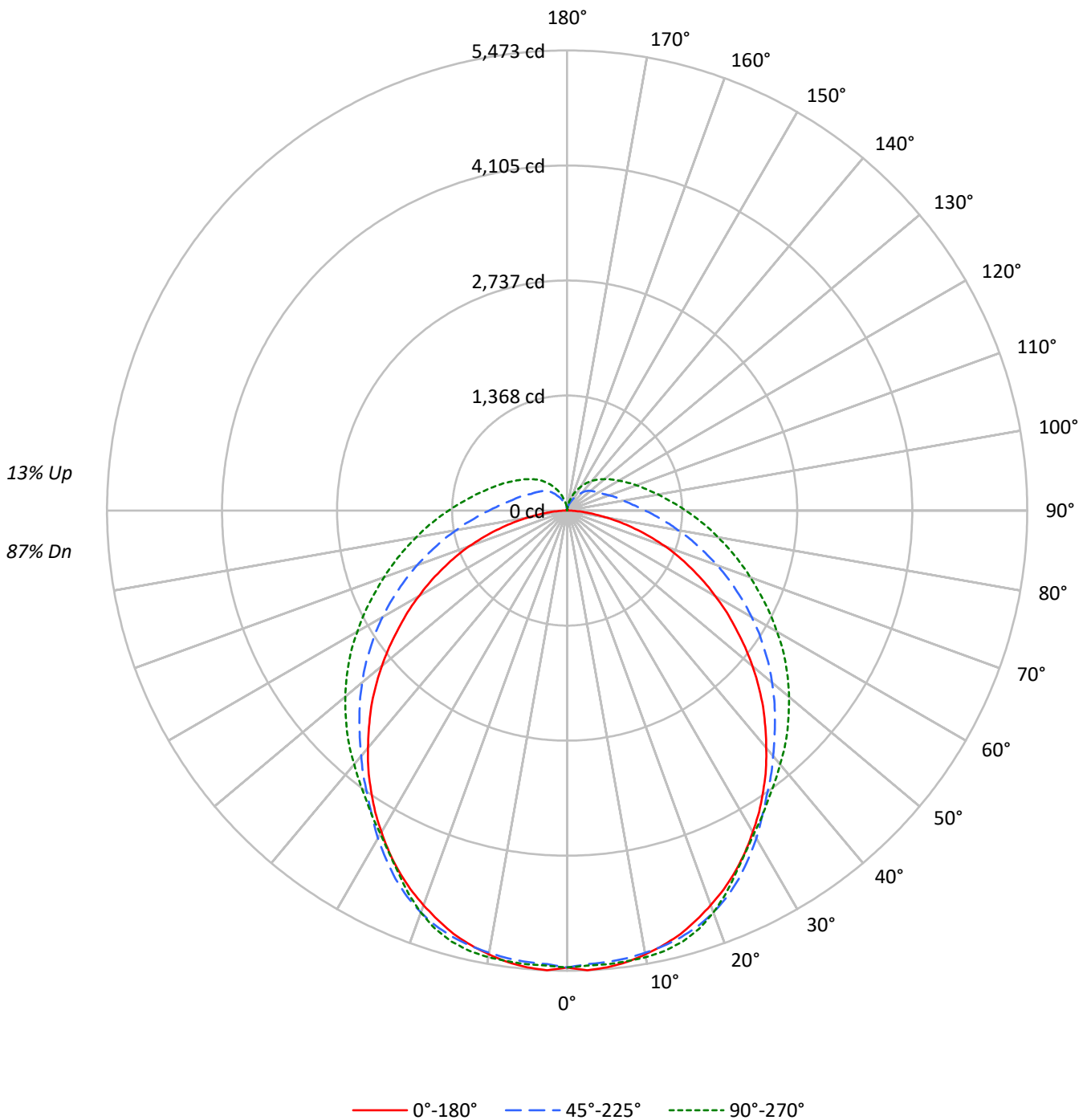
Lumens per Lamp: N/A
Luminaire Lumens: 19614.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P567605

CATALOG NUMBER: 8SNX-180HL-LN-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567605

CATALOG NUMBER: 8SNX-180HL-LN-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	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°	29242	29242	29242
5°	29408	27933	27652
10°	29187	26880	26375
15°	28890	25884	25088
20°	28390	24758	23449
25°	27848	23389	21526
30°	27117	21848	19920
35°	26335	20276	18722
40°	25441	19016	17753
45°	24569	17898	16916
50°	23527	16871	16073
55°	22301	15837	15248
60°	21142	14806	14386
65°	19863	13766	13594
70°	18411	12792	12880
75°	16103	11843	12290
80°	13089	11027	11791
85°	9451	10460	11505



TEST NUMBER: P567605

CATALOG NUMBER: 8SNX-180HL-LN-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.2	2.6
10°-20°	1484.0	7.6
20°-30°	2209.9	11.3
30°-40°	2607.5	13.3
40°-50°	2719.4	13.9
50°-60°	2555.5	13.0
60°-70°	2158.1	11.0
70°-80°	1630.6	8.3
80°-90°	1124.0	5.7
90°-100°	786.6	4.0
100°-110°	587.0	3.0
110°-120°	442.5	2.3
120°-130°	330.0	1.7
130°-140°	231.6	1.2
140°-150°	140.0	0.7
150°-160°	67.0	0.3
160°-170°	21.5	0.1
170°-180°	2.6	0.0
0°-30°	4210.1	21.5
0°-40°	6817.6	34.8
0°-60°	12092.5	61.7
0°-90°	17005.2	86.7
90°-120°	1816.1	9.3
90°-150°	2517.8	12.8
90°-180°	2609.0	13.3
0°-180°	19614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5433	5433	5433	5433	5433	
5°	5453	5443	5390	5430	5417	517
15°	5214	5237	5251	5317	5307	1468
25°	4735	4832	4832	4788	4752	2179
35°	4067	4216	4137	4170	4180	2543
45°	3295	3458	3495	3638	3704	2538
55°	2447	2657	2860	3089	3172	2196
65°	1629	1889	2208	2497	2594	1618
75°	835	1157	1603	1939	2062	889
85°	190	595	1111	1476	1606	212
90°	3	422	928	1284	1410	13
95°	3	329	785	1124	1240	3
105°	7	236	605	878	978	7
115°	7	203	469	698	788	7
125°	10	173	396	572	645	9
135°	10	133	329	466	522	8
145°	13	96	229	356	399	8
155°	13	63	140	226	263	6
165°	17	40	73	100	133	5
175°	17	17	20	20	10	2
180°	10	10	10	10	10	



TEST NUMBER: P567605

CATALOG NUMBER: 8SNX-180HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5433.4	5433.4	5433.4	5433.4	5433.4
2.5°	5473.3	5460.0	5400.2	5433.4	5416.8
5°	5453.4	5443.4	5390.2	5430.1	5416.8
7.5°	5416.8	5413.5	5373.6	5420.1	5406.8
10°	5360.3	5370.3	5340.3	5403.5	5393.5
12.5°	5293.8	5313.7	5303.8	5373.6	5363.6
15°	5214.0	5237.3	5250.6	5317.1	5307.1
17.5°	5107.6	5150.8	5180.7	5233.9	5217.3
20°	4994.5	5054.4	5087.6	5114.2	5087.6
22.5°	4871.5	4951.3	4971.2	4957.9	4931.3
25°	4735.1	4831.6	4831.6	4788.3	4751.8
27.5°	4582.2	4701.9	4668.6	4618.8	4588.8
30°	4415.9	4558.9	4502.4	4445.8	4439.2
32.5°	4249.7	4399.3	4316.2	4302.9	4312.8
35°	4066.8	4216.4	4136.6	4169.9	4179.8
37.5°	3883.9	4033.5	3980.3	4030.2	4060.1
40°	3684.4	3844.0	3810.7	3900.5	3940.4
42.5°	3488.2	3654.4	3651.1	3767.5	3827.4
45°	3295.3	3458.2	3494.8	3637.8	3704.3
47.5°	3085.8	3252.1	3341.9	3508.1	3574.6
50°	2879.7	3059.2	3182.3	3368.5	3444.9
52.5°	2666.8	2856.4	3026.0	3232.1	3311.9
55°	2447.4	2656.9	2859.7	3089.1	3172.3
57.5°	2251.2	2464.0	2703.4	2939.5	3035.9
60°	2035.0	2271.1	2533.8	2783.2	2879.7
62.5°	1838.9	2081.6	2374.2	2636.9	2740.0
65°	1629.4	1888.7	2208.0	2497.3	2593.7
67.5°	1436.5	1702.5	2051.7	2344.3	2450.7
70°	1237.0	1519.6	1898.7	2208.0	2317.7
72.5°	1030.8	1330.1	1745.8	2074.9	2188.0
75°	834.6	1157.2	1602.8	1938.6	2061.6
77.5°	651.7	990.9	1473.1	1818.9	1938.6
80°	472.2	841.3	1336.7	1695.9	1818.9
82.5°	312.6	711.6	1227.0	1586.1	1715.8
85°	189.5	595.2	1110.6	1476.4	1606.1
87.5°	86.5	498.8	1017.5	1380.0	1506.3
90°	3.3	422.3	927.7	1283.5	1409.9
92.5°	3.3	369.1	854.6	1200.4	1323.4
95°	3.3	329.2	784.8	1123.9	1240.3
97.5°	3.3	302.6	731.6	1050.8	1163.8
100°	3.3	276.0	678.3	984.3	1100.7
102.5°	6.7	252.7	638.4	924.4	1034.1
105°	6.7	236.1	605.2	877.9	977.6
107.5°	6.7	226.1	568.6	831.3	924.4
110°	6.7	216.1	528.7	784.8	877.9



TEST NUMBER: P567605

CATALOG NUMBER: 8SNX-180HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.7	209.5	498.8	744.9	834.6
115°	6.7	202.8	468.9	698.3	788.1
117.5°	6.7	199.5	452.2	661.7	748.2
120°	10.0	189.5	432.3	628.5	711.6
122.5°	10.0	179.6	412.3	601.9	675.0
125°	10.0	172.9	395.7	571.9	645.1
127.5°	10.0	162.9	379.1	545.3	611.8
130°	10.0	153.0	365.8	518.7	581.9
132.5°	10.0	143.0	349.2	492.1	552.0
135°	10.0	133.0	329.2	465.5	522.1
137.5°	10.0	123.0	309.2	438.9	492.1
140°	10.0	113.1	282.6	412.3	462.2
142.5°	10.0	103.1	256.0	385.7	429.0
145°	13.3	96.4	229.4	355.8	399.0
147.5°	13.3	86.5	202.8	325.9	362.5
150°	13.3	79.8	182.9	295.9	329.2
152.5°	13.3	69.8	162.9	262.7	295.9
155°	13.3	63.2	139.7	226.1	262.7
157.5°	13.3	56.5	119.7	189.5	229.4
160°	13.3	53.2	103.1	156.3	196.2
162.5°	16.6	46.6	86.5	126.4	162.9
165°	16.6	39.9	73.2	99.8	133.0
167.5°	16.6	33.3	59.9	76.5	103.1
170°	16.6	26.6	46.6	53.2	79.8
172.5°	16.6	20.0	33.3	36.6	39.9
175°	16.6	16.6	20.0	20.0	10.0
177.5°	16.6	16.6	13.3	10.0	3.3
180°	10.0	10.0	10.0	10.0	10.0

(END OF REPORT)