

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: P567621

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-180HL-SLW-UNV-L850-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

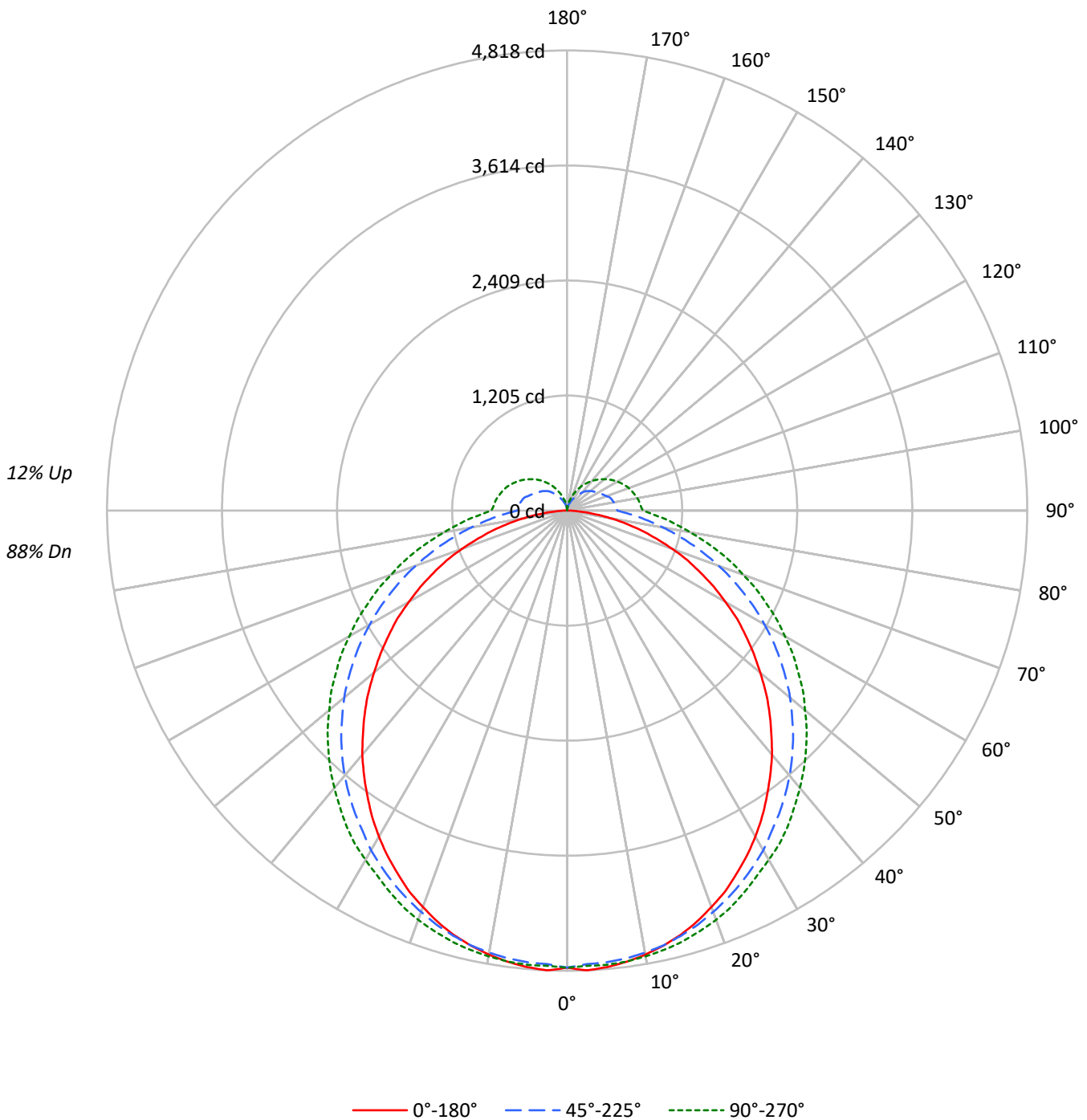
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17229.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
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

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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	105	105	105	98	98	98	91	91	91	88				
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71				
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58				
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48				
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41				
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35				
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31				
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27				
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24				
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21				
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25756	25756	25756
5°	25895	25115	25062
10°	25751	24634	24463
15°	25541	24113	23897
20°	25201	23543	23308
25°	24794	22969	22636
30°	24350	22393	22018
35°	23787	21746	21485
40°	23242	21157	20833
45°	22581	20502	20214
50°	21815	19805	19505
55°	21088	18987	18799
60°	20247	18102	17986
65°	19223	17090	17119
70°	17921	15948	16122
75°	16065	14633	15208
80°	13474	13333	14051
85°	9771	12187	13299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	2.6
10°-20°	1306.9	7.6
20°-30°	1988.1	11.5
30°-40°	2417.3	14.0
40°-50°	2557.5	14.8
50°-60°	2397.3	13.9
60°-70°	1972.2	11.4
70°-80°	1364.6	7.9
80°-90°	758.8	4.4
90°-100°	499.9	2.9
100°-110°	448.3	2.6
110°-120°	371.0	2.2
120°-130°	286.8	1.7
130°-140°	203.1	1.2
140°-150°	122.5	0.7
150°-160°	58.8	0.3
160°-170°	19.3	0.1
170°-180°	2.4	0.0
0°-30°	3749.3	21.8
0°-40°	6166.6	35.8
0°-60°	11121.4	64.6
0°-90°	15217.0	88.3
90°-120°	1319.2	7.7
90°-150°	1931.6	11.2
90°-180°	2012.0	11.7
0°-180°	17229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4786	4786	4786	4786	4786	
5°	4797	4788	4747	4786	4774	455
15°	4597	4612	4608	4670	4670	1296
25°	4196	4254	4305	4399	4402	1934
35°	3647	3744	3871	3995	4030	2282
45°	2998	3154	3346	3496	3538	2310
55°	2281	2484	2723	2894	2953	2042
65°	1543	1764	2039	2239	2301	1530
75°	802	1036	1340	1552	1638	851
85°	177	440	744	950	1033	204
90°	3	248	525	723	794	12
95°	3	236	510	699	767	2
105°	3	204	478	658	717	3
115°	6	177	404	584	649	5
125°	6	150	345	499	561	5
135°	6	118	289	410	460	5
145°	6	86	201	310	348	4
155°	9	59	124	198	230	4
165°	9	38	68	92	118	3
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4785.6	4785.6	4785.6	4785.6	4785.6
2.5°	4818.0	4803.3	4753.1	4785.6	4770.8
5°	4797.4	4788.5	4747.2	4785.6	4773.7
7.5°	4764.9	4761.9	4729.5	4773.7	4761.9
10°	4720.6	4726.5	4700.0	4747.2	4738.3
12.5°	4664.6	4673.4	4661.6	4714.7	4708.8
15°	4596.7	4611.5	4608.5	4670.5	4670.5
17.5°	4514.1	4534.8	4546.6	4617.4	4617.4
20°	4416.7	4449.2	4472.8	4549.5	4561.3
22.5°	4319.4	4357.7	4393.1	4472.8	4490.5
25°	4195.5	4254.5	4304.6	4399.0	4402.0
27.5°	4074.5	4139.4	4207.3	4298.7	4307.6
30°	3941.7	4024.3	4107.0	4195.5	4222.0
32.5°	3800.1	3891.6	3983.0	4101.1	4136.5
35°	3646.7	3744.1	3870.9	3994.8	4030.2
37.5°	3493.3	3602.4	3750.0	3876.8	3909.3
40°	3336.9	3457.9	3623.1	3752.9	3791.3
42.5°	3162.8	3310.3	3487.4	3626.0	3670.3
45°	2997.6	3154.0	3345.8	3496.2	3537.5
47.5°	2823.5	2988.8	3195.3	3354.6	3401.8
50°	2637.7	2826.5	3047.8	3207.1	3251.3
52.5°	2463.6	2655.4	2888.4	3053.7	3115.6
55°	2280.7	2484.2	2723.2	2894.3	2953.4
57.5°	2109.5	2304.3	2560.9	2732.1	2805.8
60°	1914.8	2130.2	2386.9	2572.7	2631.8
62.5°	1731.9	1950.2	2215.8	2407.5	2475.4
65°	1543.1	1764.3	2038.7	2239.4	2301.3
67.5°	1366.0	1584.4	1864.7	2062.3	2142.0
70°	1171.3	1401.4	1687.6	1891.2	1959.1
72.5°	979.5	1218.5	1510.6	1728.9	1805.6
75°	802.5	1035.6	1339.5	1551.9	1637.5
77.5°	631.4	867.4	1174.3	1392.6	1466.3
80°	460.3	708.1	1020.8	1236.2	1307.0
82.5°	303.9	563.5	873.3	1088.7	1165.4
85°	177.0	439.6	743.5	950.0	1032.6
87.5°	76.7	333.4	622.5	826.1	894.0
90°	3.0	247.8	525.2	722.8	793.7
92.5°	3.0	241.9	513.4	708.1	776.0
95°	3.0	236.0	510.4	699.2	767.1
97.5°	3.0	233.1	504.5	693.3	758.3
100°	3.0	224.2	495.7	681.5	746.5
102.5°	3.0	212.4	486.8	669.7	731.7
105°	3.0	203.6	478.0	657.9	716.9
107.5°	3.0	194.7	463.2	643.2	702.2
110°	3.0	185.9	439.6	628.4	687.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	182.9	421.9	607.8	669.7
115°	5.9	177.0	404.2	584.2	649.1
117.5°	5.9	174.1	389.5	560.6	628.4
120°	5.9	165.2	374.7	539.9	604.8
122.5°	5.9	156.4	359.9	519.3	584.2
125°	5.9	150.5	345.2	498.6	560.6
127.5°	5.9	141.6	333.4	478.0	534.0
130°	5.9	135.7	318.6	454.4	510.4
132.5°	5.9	126.9	303.9	430.8	483.9
135°	5.9	118.0	289.1	410.1	460.3
137.5°	5.9	106.2	271.4	386.5	433.7
140°	5.9	97.4	247.8	362.9	407.2
142.5°	5.9	91.5	224.2	336.3	377.7
145°	5.9	85.6	200.6	309.8	348.1
147.5°	5.9	79.7	180.0	283.2	318.6
150°	5.9	70.8	159.3	259.6	289.1
152.5°	8.9	64.9	141.6	230.1	259.6
155°	8.9	59.0	123.9	197.7	230.1
157.5°	8.9	53.1	106.2	165.2	200.6
160°	8.9	47.2	91.5	135.7	171.1
162.5°	8.9	44.3	79.7	112.1	144.6
165°	8.9	38.4	67.9	91.5	118.0
167.5°	8.9	29.5	56.1	70.8	97.4
170°	8.9	23.6	44.3	50.2	73.8
172.5°	8.9	17.7	32.5	35.4	38.4
175°	8.9	14.8	20.7	20.7	11.8
177.5°	8.9	11.8	11.8	11.8	5.9
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)