

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: P567693

Luminaire Tested: **8SNX-200HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567693
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-200HL-LC-UNV-L850-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

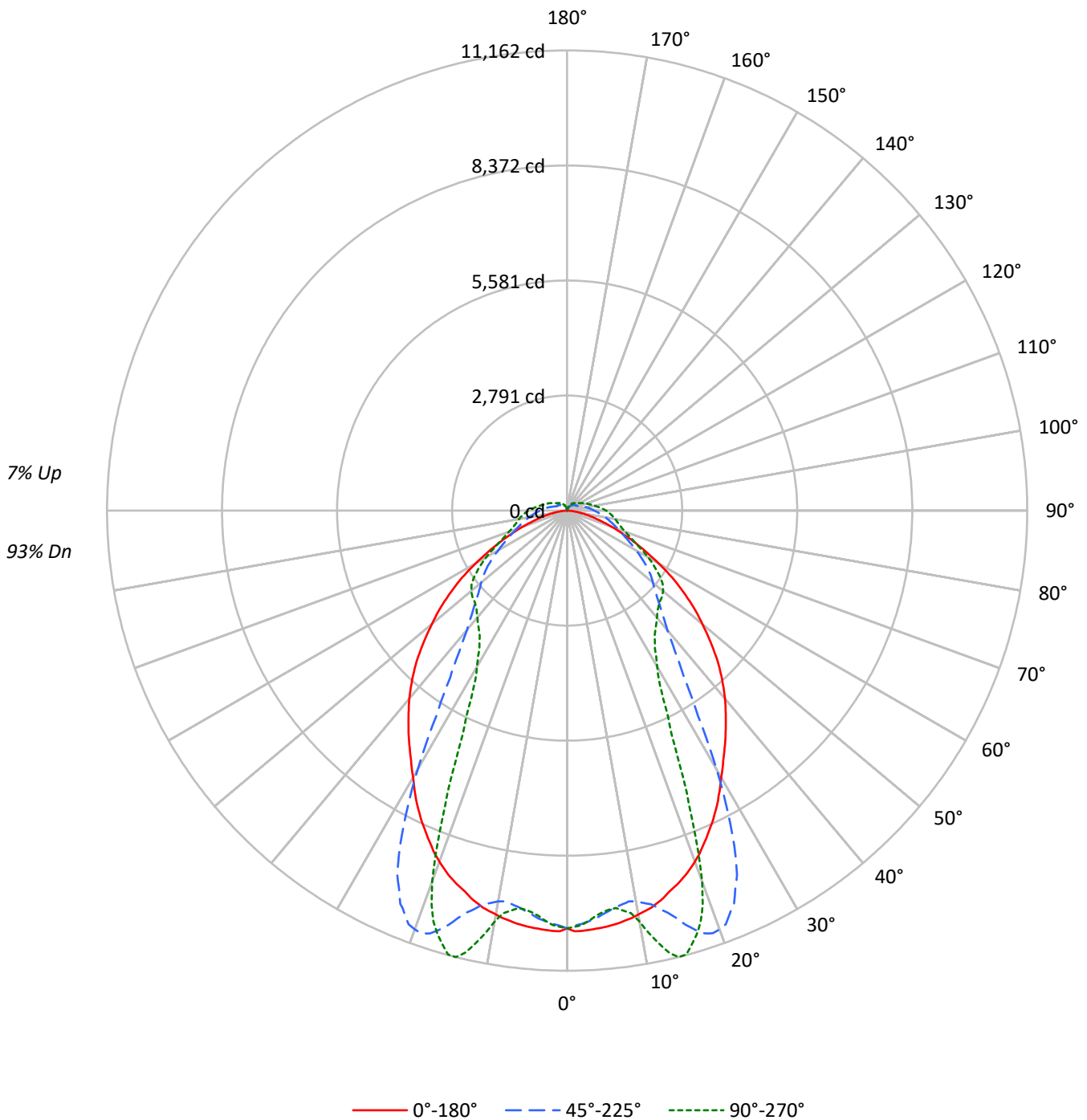
Lumens per Lamp: N/A
Luminaire Lumens: 22528.0 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 145
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°	54554	54554	54554
5°	54719	50977	49936
10°	54163	48460	49518
15°	53001	50461	52715
20°	51499	52608	44119
25°	49014	47205	27127
30°	45897	35167	19633
35°	43367	24278	16562
40°	41111	18846	15264
45°	38468	16048	14435
50°	34986	14405	14171
55°	31311	13030	13111
60°	26550	11276	11340
65°	21594	9822	9465
70°	16945	8829	8334
75°	13139	8209	7771
80°	9247	7774	7693
85°	5147	7419	7638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.2	4.2
10°-20°	2882.2	12.8
20°-30°	3880.9	17.2
30°-40°	3672.8	16.3
40°-50°	3241.8	14.4
50°-60°	2633.1	11.7
60°-70°	1790.8	7.9
70°-80°	1152.3	5.1
80°-90°	766.2	3.4
90°-100°	526.6	2.3
100°-110°	353.5	1.6
110°-120°	249.3	1.1
120°-130°	178.1	0.8
130°-140°	125.7	0.6
140°-150°	78.0	0.3
150°-160°	38.1	0.2
160°-170°	13.3	0.1
170°-180°	2.3	0.0
0°-30°	7706.2	34.2
0°-40°	11379.1	50.5
0°-60°	17253.9	76.6
0°-90°	20963.2	93.1
90°-120°	1129.3	5.0
90°-150°	1511.1	6.7
90°-180°	1565.0	6.9
0°-180°	22528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10136	10136	10136	10136	10136	
5°	10147	10054	9837	9830	9782	963
15°	9566	9504	10236	11141	11151	2697
25°	8334	9882	9751	7082	5988	3824
35°	6697	9397	4953	3814	3698	4191
45°	5159	6322	3134	3096	3161	3961
55°	3436	3739	2353	2628	2728	3069
65°	1771	2016	1575	1751	1806	1778
75°	681	953	1111	1245	1304	741
85°	103	406	788	998	1066	135
90°	3	282	657	884	942	6
95°	3	217	554	750	801	3
105°	7	151	365	512	574	7
115°	7	131	268	382	430	8
125°	10	110	230	289	310	10
135°	14	86	189	241	254	11
145°	14	62	134	186	203	9
155°	17	38	83	124	141	8
165°	17	24	45	62	76	5
175°	21	21	21	21	17	2
180°	17	17	17	17	17	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10136.5	10136.5	10136.5	10136.5	10136.5
1°	10205.3	10174.3	10071.1	10126.2	10098.7
2°	10201.8	10150.2	10033.3	10095.2	10060.8
3°	10184.6	10129.6	9978.3	10016.1	9964.5
4°	10167.4	10102.1	9919.8	9919.8	9861.3
5°	10146.8	10053.9	9837.2	9830.4	9782.2
6°	10122.7	10016.1	9765.0	9758.1	9730.6
7°	10088.3	9950.8	9685.9	9734.1	9713.4
8°	10047.1	9888.8	9644.6	9765.0	9796.0
9°	10009.2	9813.2	9596.5	9861.3	9885.4
10°	9947.3	9744.4	9627.4	10053.9	10126.2
11°	9895.7	9685.9	9696.2	10243.1	10459.8
12°	9844.1	9624.0	9761.6	10480.4	10745.3
13°	9758.1	9575.8	9906.0	10738.4	11010.1
14°	9682.5	9538.0	10047.1	10999.8	11161.5
15°	9565.5	9503.6	10236.2	11140.9	11151.2
16°	9486.4	9479.5	10456.4	11151.2	10958.6
17°	9397.0	9469.2	10635.2	10972.3	10745.3
18°	9297.2	9489.8	10783.1	10748.7	10487.3
19°	9183.7	9510.5	10845.0	10439.2	10102.1
20°	9059.9	9541.4	10810.7	10115.9	9572.4
21°	8936.1	9582.7	10745.3	9775.3	8877.6
22.5°	8705.6	9682.5	10435.7	8819.1	7728.8
23°	8640.3	9703.1	10363.5	8519.9	7429.5
24°	8478.6	9789.1	10033.3	7821.6	6638.4
25°	8334.1	9882.0	9751.3	7082.1	5988.3
26°	8172.5	9950.8	9324.7	6401.1	5589.3
27°	8014.3	9992.0	8839.8	5871.4	5142.2
28°	7832.0	10036.7	8313.5	5413.9	4805.1
29°	7660.0	10043.6	7794.1	5049.3	4540.3
30°	7474.2	10009.2	7247.2	4757.0	4375.2
32.5°	7068.4	9820.0	5909.2	4199.7	3962.4
35°	6696.9	9397.0	4953.0	3814.5	3697.6
37.5°	6322.0	8729.7	4282.3	3573.7	3535.9
40°	5953.9	7938.6	3776.7	3381.1	3388.0
42.5°	5565.3	7123.4	3429.3	3222.9	3253.9
45°	5159.4	6322.0	3133.5	3095.6	3161.0
47.5°	4708.8	5589.3	2899.6	3013.1	3112.8
50°	4282.3	4863.6	2717.3	2934.0	3037.2
52.5°	3876.4	4268.5	2552.2	2799.8	2920.2
55°	3436.2	3738.8	2352.7	2627.9	2727.6
57.5°	3016.5	3260.7	2142.9	2414.6	2504.0
60°	2555.6	2789.5	1929.6	2184.1	2270.1
62.5°	2139.4	2387.1	1747.3	1953.7	2022.5
65°	1771.4	2015.6	1575.3	1750.8	1805.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1444.6	1706.0	1434.3	1582.2	1633.8
70°	1138.5	1413.7	1310.5	1444.6	1499.7
72.5°	890.9	1169.5	1207.3	1331.1	1386.2
75°	681.0	952.8	1111.0	1245.1	1303.6
77.5°	505.6	777.3	1021.6	1176.3	1238.3
80°	333.6	619.1	942.4	1114.4	1186.7
82.5°	209.8	498.7	863.3	1052.5	1128.2
85°	103.2	405.9	787.7	997.5	1066.3
87.5°	34.4	337.1	718.9	942.4	1000.9
90°	3.4	282.0	657.0	884.0	942.4
92.5°	3.4	244.2	605.4	815.2	873.7
95°	3.4	216.7	553.8	749.8	801.4
97.5°	3.4	196.1	505.6	681.0	736.1
100°	3.4	175.4	454.0	615.7	674.2
102.5°	6.9	161.7	409.3	560.7	622.6
105°	6.9	151.3	364.6	512.5	574.4
107.5°	6.9	144.5	326.8	474.7	533.1
110°	6.9	137.6	299.2	440.3	502.2
112.5°	6.9	134.1	282.0	409.3	467.8
115°	6.9	130.7	268.3	381.8	429.9
117.5°	10.3	127.3	258.0	354.3	392.1
120°	10.3	120.4	251.1	330.2	361.2
122.5°	10.3	113.5	240.8	309.6	333.6
125°	10.3	110.1	230.5	288.9	309.6
127.5°	10.3	103.2	220.1	271.7	292.4
130°	13.8	96.3	209.8	258.0	275.2
132.5°	13.8	89.4	199.5	251.1	264.8
135°	13.8	86.0	189.2	240.8	254.5
137.5°	13.8	79.1	178.9	230.5	244.2
140°	13.8	72.2	165.1	216.7	230.5
142.5°	13.8	68.8	151.3	202.9	216.7
145°	13.8	61.9	134.1	185.7	202.9
147.5°	17.2	58.5	120.4	172.0	185.7
150°	17.2	51.6	106.6	158.2	172.0
152.5°	17.2	44.7	92.9	141.0	154.8
155°	17.2	37.8	82.6	123.8	141.0
157.5°	17.2	34.4	72.2	103.2	123.8
160°	17.2	31.0	61.9	89.4	106.6
162.5°	17.2	27.5	55.0	75.7	92.9
165°	17.2	24.1	44.7	61.9	75.7
167.5°	20.6	24.1	37.8	48.2	61.9
170°	20.6	24.1	31.0	37.8	48.2
172.5°	20.6	20.6	24.1	27.5	31.0
175°	20.6	20.6	20.6	20.6	17.2
177.5°	20.6	20.6	20.6	17.2	17.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	17.2	17.2	17.2	17.2	17.2

(END OF REPORT)