

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: P567589

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567589
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-FDL-UNV-L850-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

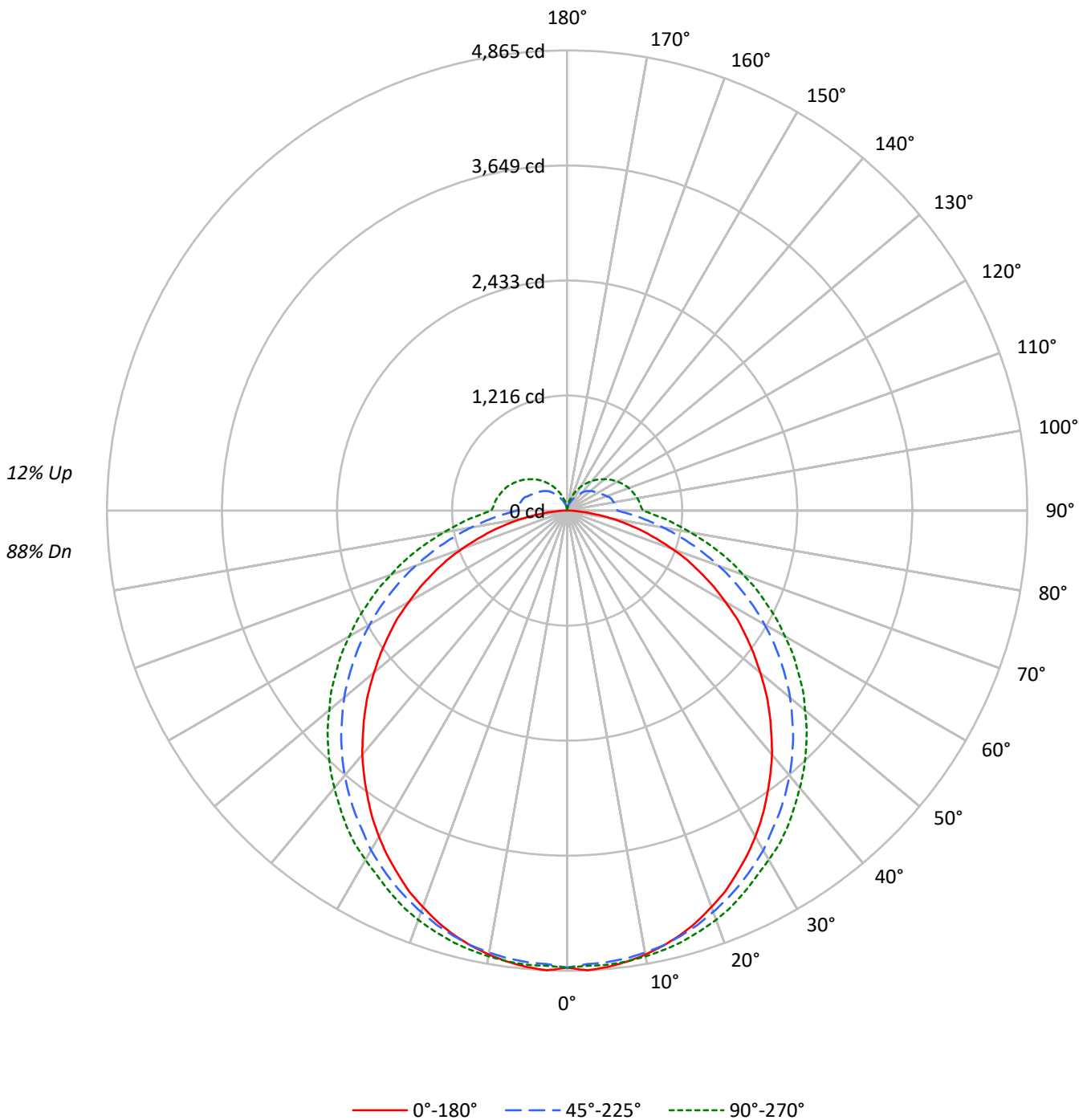
Lumens per Lamp: N/A
Luminaire Lumens: 17397.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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	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°	26007	26007	26007
5°	26158	25624	25667
10°	26026	25392	25401
15°	25826	25111	25153
20°	25495	24771	24870
25°	25096	24427	24492
30°	24661	24082	24168
35°	24105	23667	23943
40°	23569	23324	23596
45°	22918	22927	23303
50°	22163	22507	22933
55°	21449	21986	22602
60°	20626	21431	22196
65°	19623	20796	21801
70°	18348	20103	21351
75°	16528	19348	21197
80°	13992	18912	21029
85°	10421	19406	22164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.7	2.6
10°-20°	1319.6	7.6
20°-30°	2007.5	11.5
30°-40°	2440.9	14.0
40°-50°	2582.4	14.8
50°-60°	2420.7	13.9
60°-70°	1991.4	11.4
70°-80°	1377.9	7.9
80°-90°	766.2	4.4
90°-100°	504.8	2.9
100°-110°	452.6	2.6
110°-120°	374.7	2.2
120°-130°	289.6	1.7
130°-140°	205.1	1.2
140°-150°	123.7	0.7
150°-160°	59.4	0.3
160°-170°	19.4	0.1
170°-180°	2.4	0.0
0°-30°	3785.9	21.8
0°-40°	6226.8	35.8
0°-60°	11229.9	64.6
0°-90°	15365.4	88.3
90°-120°	1332.1	7.7
90°-150°	1950.4	11.2
90°-180°	2032.0	11.7
0°-180°	17397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4832	4832	4832	4832	4832	
5°	4844	4835	4794	4832	4820	460
15°	4642	4656	4654	4716	4716	1308
25°	4236	4296	4347	4442	4445	1953
35°	3682	3781	3909	4034	4070	2305
45°	3027	3185	3378	3530	3572	2333
55°	2303	2508	2750	2923	2982	2062
65°	1558	1782	2059	2261	2324	1545
75°	810	1046	1352	1567	1653	860
85°	179	444	751	959	1043	206
90°	3	250	530	730	801	12
95°	3	238	515	706	775	2
105°	3	206	483	664	724	3
115°	6	179	408	590	655	5
125°	6	152	349	504	566	5
135°	6	119	292	414	465	5
145°	6	86	203	313	352	4
155°	9	60	125	200	232	4
165°	9	39	68	92	119	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°	4832.2	4832.2	4832.2	4832.2	4832.2
2.5°	4865.0	4850.1	4799.4	4832.2	4817.3
5°	4844.1	4835.2	4793.5	4832.2	4820.3
7.5°	4811.4	4808.4	4775.6	4820.3	4808.4
10°	4766.7	4772.6	4745.8	4793.5	4784.5
12.5°	4710.1	4719.0	4707.1	4760.7	4754.8
15°	4641.5	4656.4	4653.5	4716.0	4716.0
17.5°	4558.1	4579.0	4590.9	4662.4	4662.4
20°	4459.8	4492.6	4516.4	4593.9	4605.8
22.5°	4361.5	4400.2	4436.0	4516.4	4534.3
25°	4236.4	4296.0	4346.6	4441.9	4444.9
27.5°	4114.2	4179.8	4248.3	4340.7	4349.6
30°	3980.2	4063.6	4147.0	4236.4	4263.2
32.5°	3837.2	3929.5	4021.9	4141.0	4176.8
35°	3682.3	3780.6	3908.7	4033.8	4069.5
37.5°	3527.3	3637.6	3786.5	3914.6	3947.4
40°	3369.4	3491.6	3658.4	3789.5	3828.2
42.5°	3193.7	3342.6	3521.4	3661.4	3706.1
45°	3026.8	3184.7	3378.4	3530.3	3572.0
47.5°	2851.1	3017.9	3226.4	3387.3	3435.0
50°	2663.4	2854.0	3077.5	3238.4	3283.0
52.5°	2487.6	2681.3	2916.6	3083.4	3146.0
55°	2302.9	2508.5	2749.8	2922.6	2982.1
57.5°	2130.1	2326.7	2585.9	2758.7	2833.2
60°	1933.5	2151.0	2410.1	2597.8	2657.4
62.5°	1748.8	1969.2	2237.4	2431.0	2499.5
65°	1558.1	1781.5	2058.6	2261.2	2323.8
67.5°	1379.4	1599.8	1882.8	2082.4	2162.9
70°	1182.7	1415.1	1704.1	1909.6	1978.2
72.5°	989.1	1230.4	1525.3	1745.8	1823.3
75°	810.3	1045.7	1352.5	1567.0	1653.4
77.5°	637.5	875.9	1185.7	1406.2	1480.6
80°	464.8	715.0	1030.8	1248.3	1319.8
82.5°	306.9	569.0	881.8	1099.3	1176.8
85°	178.8	443.9	750.8	959.3	1042.7
87.5°	77.5	336.6	628.6	834.2	902.7
90°	3.0	250.3	530.3	729.9	801.4
92.5°	3.0	244.3	518.4	715.0	783.5
95°	3.0	238.3	515.4	706.1	774.6
97.5°	3.0	235.4	509.4	700.1	765.6
100°	3.0	226.4	500.5	688.2	753.7
102.5°	3.0	214.5	491.6	676.3	738.8
105°	3.0	205.6	482.6	664.4	723.9
107.5°	3.0	196.6	467.7	649.5	709.0
110°	3.0	187.7	443.9	634.6	694.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	184.7	426.0	613.7	676.3
115°	6.0	178.8	408.1	589.9	655.4
117.5°	6.0	175.8	393.3	566.0	634.6
120°	6.0	166.8	378.4	545.2	610.7
122.5°	6.0	157.9	363.5	524.3	589.9
125°	6.0	151.9	348.6	503.5	566.0
127.5°	6.0	143.0	336.6	482.6	539.2
130°	6.0	137.0	321.8	458.8	515.4
132.5°	6.0	128.1	306.9	435.0	488.6
135°	6.0	119.2	292.0	414.1	464.8
137.5°	6.0	107.3	274.1	390.3	437.9
140°	6.0	98.3	250.3	366.4	411.1
142.5°	6.0	92.4	226.4	339.6	381.3
145°	6.0	86.4	202.6	312.8	351.5
147.5°	6.0	80.4	181.7	286.0	321.8
150°	6.0	71.5	160.9	262.2	292.0
152.5°	8.9	65.5	143.0	232.4	262.2
155°	8.9	59.6	125.1	199.6	232.4
157.5°	8.9	53.6	107.3	166.8	202.6
160°	8.9	47.7	92.4	137.0	172.8
162.5°	8.9	44.7	80.4	113.2	146.0
165°	8.9	38.7	68.5	92.4	119.2
167.5°	8.9	29.8	56.6	71.5	98.3
170°	8.9	23.8	44.7	50.6	74.5
172.5°	8.9	17.9	32.8	35.8	38.7
175°	8.9	14.9	20.9	20.9	11.9
177.5°	8.9	11.9	11.9	11.9	6.0
180°	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)