

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: P567634

Luminaire Tested: **8SNX-186HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567634
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-186HL-FDL-UNV-L830-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

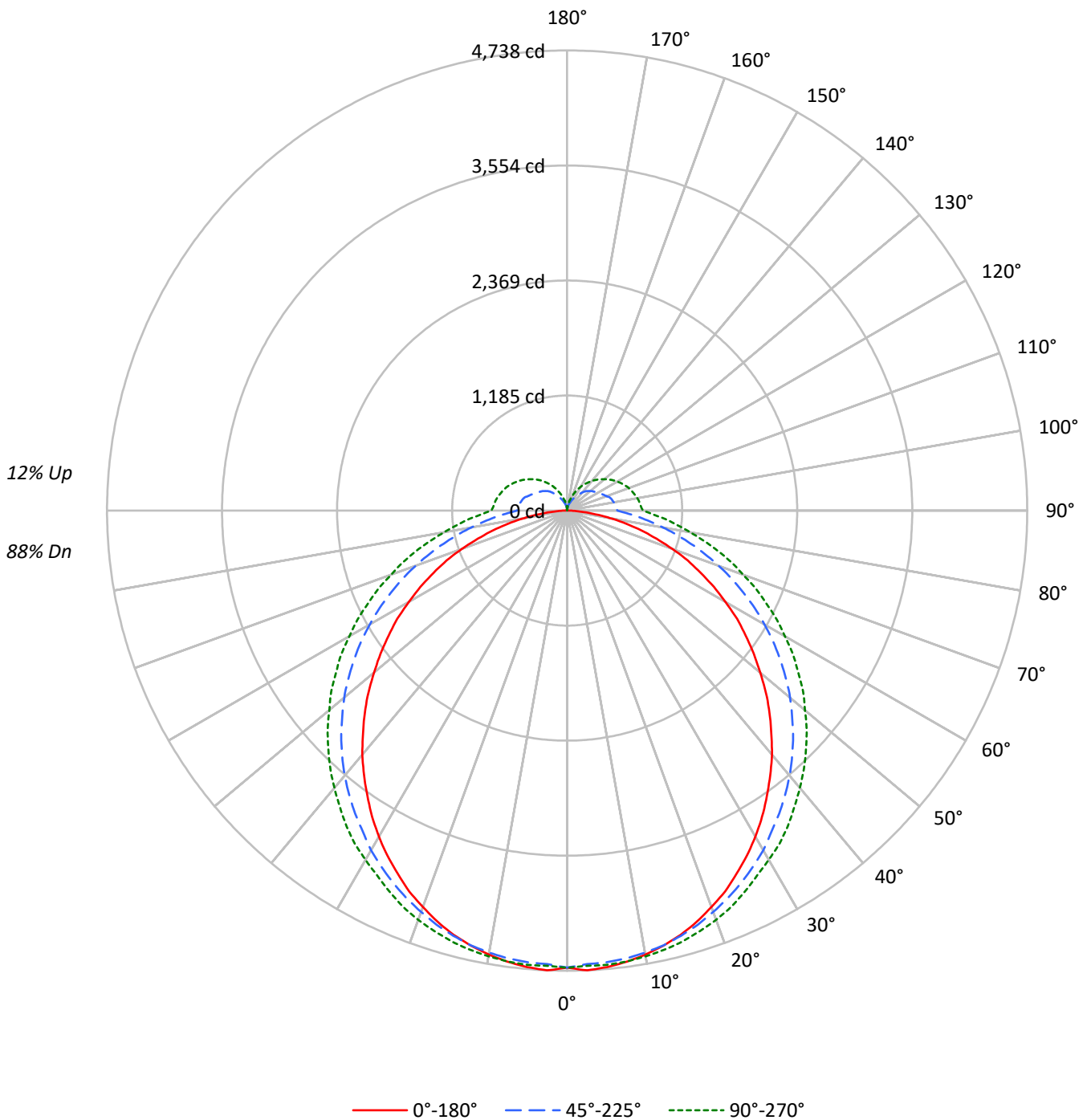
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16943.0 lumens
Efficiency: N/A
Efficacy: 125.7 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): 134.8
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°	25328	25328	25328
5°	25476	24956	24998
10°	25347	24729	24738
15°	25152	24455	24497
20°	24829	24125	24221
25°	24441	23790	23853
30°	24017	23454	23537
35°	23476	23049	23318
40°	22954	22715	22980
45°	22320	22329	22695
50°	21584	21920	22335
55°	20889	21412	22012
60°	20087	20872	21618
65°	19110	20253	21232
70°	17870	19578	20793
75°	16098	18843	20644
80°	13625	18419	20479
85°	10147	18899	21586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	2.6
10°-20°	1285.2	7.6
20°-30°	1955.1	11.5
30°-40°	2377.2	14.0
40°-50°	2515.0	14.8
50°-60°	2357.5	13.9
60°-70°	1939.5	11.4
70°-80°	1341.9	7.9
80°-90°	746.2	4.4
90°-100°	491.6	2.9
100°-110°	440.8	2.6
110°-120°	364.9	2.2
120°-130°	282.1	1.7
130°-140°	199.7	1.2
140°-150°	120.4	0.7
150°-160°	57.9	0.3
160°-170°	18.9	0.1
170°-180°	2.3	0.0
0°-30°	3687.1	21.8
0°-40°	6064.3	35.8
0°-60°	10936.8	64.6
0°-90°	14964.4	88.3
90°-120°	1297.3	7.7
90°-150°	1899.5	11.2
90°-180°	1979.0	11.7
0°-180°	16943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4706	4706	4706	4706	4706	
5°	4718	4709	4668	4706	4694	448
15°	4520	4535	4532	4593	4593	1274
25°	4126	4184	4233	4326	4329	1902
35°	3586	3682	3807	3928	3963	2244
45°	2948	3102	3290	3438	3479	2272
55°	2243	2443	2678	2846	2904	2008
65°	1517	1735	2005	2202	2263	1505
75°	789	1018	1317	1526	1610	837
85°	174	432	731	934	1016	200
90°	3	244	516	711	780	12
95°	3	232	502	688	754	2
105°	3	200	470	647	705	3
115°	6	174	398	574	638	5
125°	6	148	340	490	551	5
135°	6	116	284	403	453	4
145°	6	84	197	305	342	4
155°	9	58	122	194	226	4
165°	9	38	67	90	116	2
175°	9	14	20	20	12	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4706.1	4706.1	4706.1	4706.1	4706.1
2.5°	4738.0	4723.5	4674.2	4706.1	4691.6
5°	4717.7	4709.0	4668.4	4706.1	4694.5
7.5°	4685.8	4682.9	4651.0	4694.5	4682.9
10°	4642.3	4648.1	4622.0	4668.4	4659.7
12.5°	4587.2	4595.9	4584.3	4636.5	4630.7
15°	4520.4	4534.9	4532.0	4593.0	4593.0
17.5°	4439.2	4459.5	4471.1	4540.7	4540.7
20°	4343.4	4375.3	4398.6	4474.0	4485.6
22.5°	4247.7	4285.4	4320.2	4398.6	4416.0
25°	4125.8	4183.9	4233.2	4326.0	4328.9
27.5°	4006.9	4070.7	4137.4	4227.4	4236.1
30°	3876.3	3957.5	4038.8	4125.8	4151.9
32.5°	3737.0	3827.0	3916.9	4033.0	4067.8
35°	3586.2	3681.9	3806.7	3928.5	3963.3
37.5°	3435.3	3542.6	3687.7	3812.5	3844.4
40°	3281.5	3400.5	3562.9	3690.6	3728.3
42.5°	3110.3	3255.4	3429.5	3565.9	3609.4
45°	2947.8	3101.6	3290.2	3438.2	3478.8
47.5°	2776.7	2939.1	3142.2	3298.9	3345.3
50°	2593.9	2779.6	2997.2	3153.8	3197.4
52.5°	2422.7	2611.3	2840.5	3003.0	3063.9
55°	2242.8	2443.0	2678.0	2846.3	2904.3
57.5°	2074.5	2266.0	2518.4	2686.7	2759.3
60°	1883.0	2094.8	2347.3	2530.0	2588.1
62.5°	1703.1	1917.8	2179.0	2367.6	2434.3
65°	1517.4	1735.1	2004.9	2202.2	2263.1
67.5°	1343.4	1558.1	1833.7	2028.1	2106.4
70°	1151.9	1378.2	1659.6	1859.8	1926.5
72.5°	963.3	1198.3	1485.5	1700.2	1775.7
75°	789.2	1018.4	1317.2	1526.1	1610.3
77.5°	620.9	853.0	1154.8	1369.5	1442.0
80°	452.6	696.3	1003.9	1215.7	1285.3
82.5°	298.8	554.2	858.8	1070.6	1146.1
85°	174.1	432.3	731.2	934.3	1015.5
87.5°	75.4	327.9	612.2	812.4	879.1
90°	2.9	243.7	516.5	710.8	780.5
92.5°	2.9	237.9	504.8	696.3	763.1
95°	2.9	232.1	501.9	687.6	754.4
97.5°	2.9	229.2	496.1	681.8	745.7
100°	2.9	220.5	487.4	670.2	734.1
102.5°	2.9	208.9	478.7	658.6	719.6
105°	2.9	200.2	470.0	647.0	705.0
107.5°	2.9	191.5	455.5	632.5	690.5
110°	2.9	182.8	432.3	618.0	676.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	179.9	414.9	597.7	658.6
115°	5.8	174.1	397.5	574.5	638.3
117.5°	5.8	171.2	383.0	551.3	618.0
120°	5.8	162.5	368.5	531.0	594.8
122.5°	5.8	153.8	354.0	510.7	574.5
125°	5.8	148.0	339.5	490.3	551.3
127.5°	5.8	139.3	327.9	470.0	525.2
130°	5.8	133.5	313.4	446.8	501.9
132.5°	5.8	124.8	298.8	423.6	475.8
135°	5.8	116.1	284.3	403.3	452.6
137.5°	5.8	104.5	266.9	380.1	426.5
140°	5.8	95.7	243.7	356.9	400.4
142.5°	5.8	89.9	220.5	330.8	371.4
145°	5.8	84.1	197.3	304.6	342.4
147.5°	5.8	78.3	177.0	278.5	313.4
150°	5.8	69.6	156.7	255.3	284.3
152.5°	8.7	63.8	139.3	226.3	255.3
155°	8.7	58.0	121.9	194.4	226.3
157.5°	8.7	52.2	104.5	162.5	197.3
160°	8.7	46.4	89.9	133.5	168.3
162.5°	8.7	43.5	78.3	110.3	142.2
165°	8.7	37.7	66.7	89.9	116.1
167.5°	8.7	29.0	55.1	69.6	95.7
170°	8.7	23.2	43.5	49.3	72.5
172.5°	8.7	17.4	31.9	34.8	37.7
175°	8.7	14.5	20.3	20.3	11.6
177.5°	8.7	11.6	11.6	11.6	5.8
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)