

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: P567493

Luminaire Tested: **8SNX-168HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567493
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-168HL-FDL-UNV-L850-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

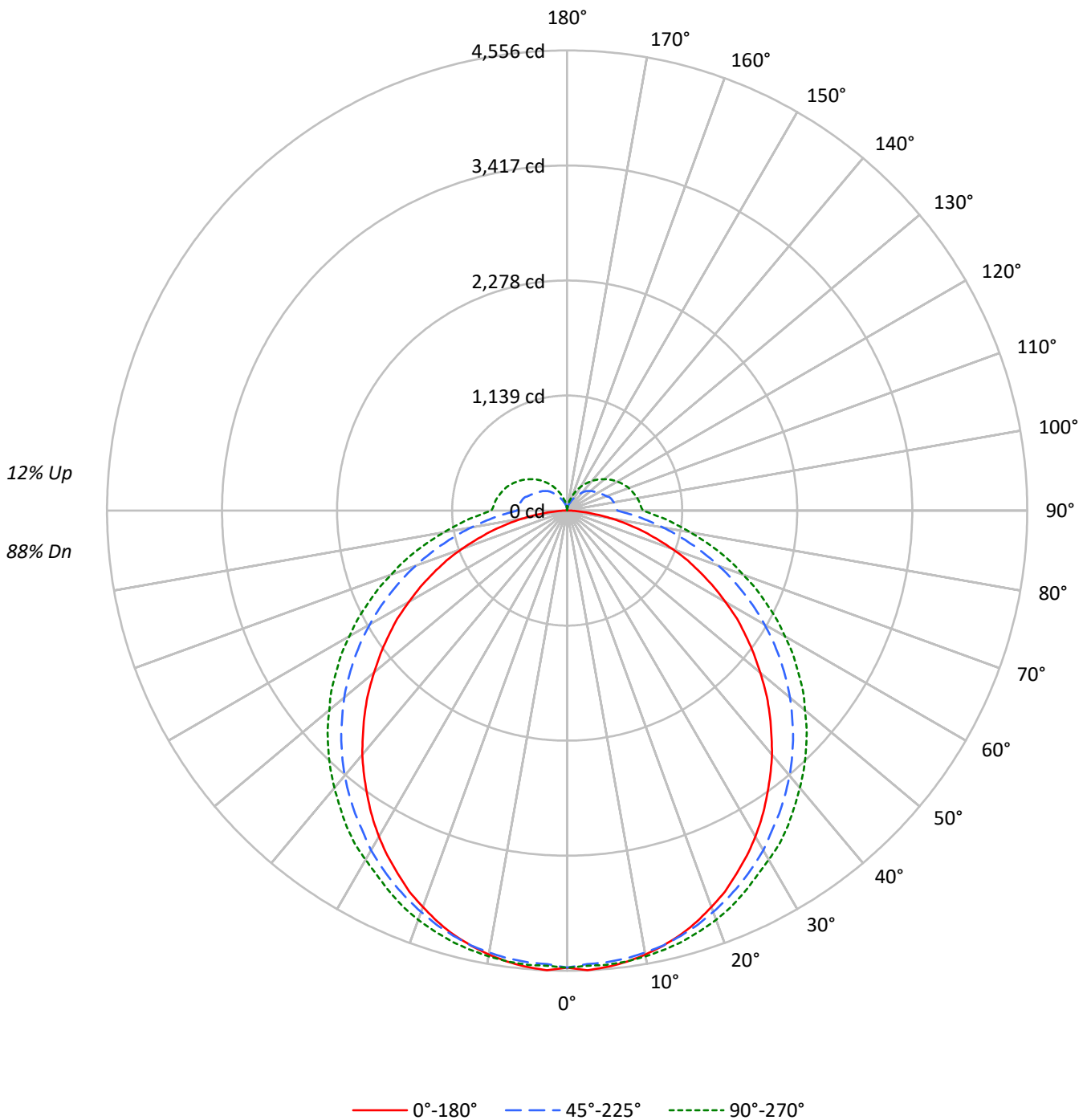
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16291.0 lumens
Efficiency: N/A
Efficacy: 140.7 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): 115.8
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°	24353	24353	24353
5°	24496	23995	24036
10°	24371	23777	23786
15°	24184	23514	23554
20°	23874	23197	23289
25°	23501	22874	22935
30°	23093	22551	22632
35°	22573	22162	22421
40°	22071	21841	22096
45°	21462	21470	21822
50°	20754	21076	21475
55°	20085	20588	21165
60°	19315	20069	20786
65°	18376	19473	20414
70°	17182	18824	19994
75°	15478	18119	19849
80°	13101	17711	19692
85°	9756	18170	20755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	2.6
10°-20°	1235.7	7.6
20°-30°	1879.9	11.5
30°-40°	2285.7	14.0
40°-50°	2418.2	14.8
50°-60°	2266.8	13.9
60°-70°	1864.8	11.4
70°-80°	1290.3	7.9
80°-90°	717.5	4.4
90°-100°	472.7	2.9
100°-110°	423.9	2.6
110°-120°	350.8	2.2
120°-130°	271.2	1.7
130°-140°	192.0	1.2
140°-150°	115.8	0.7
150°-160°	55.6	0.3
160°-170°	18.2	0.1
170°-180°	2.2	0.0
0°-30°	3545.2	21.8
0°-40°	5830.9	35.8
0°-60°	10515.9	64.6
0°-90°	14388.5	88.3
90°-120°	1247.4	7.7
90°-150°	1826.4	11.2
90°-180°	1902.0	11.7
0°-180°	16291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4525	4525	4525	4525	4525	
5°	4536	4528	4489	4525	4514	431
15°	4346	4360	4358	4416	4416	1225
25°	3967	4023	4070	4160	4162	1829
35°	3448	3540	3660	3777	3811	2158
45°	2834	2982	3164	3306	3345	2185
55°	2156	2349	2575	2737	2793	1930
65°	1459	1668	1928	2117	2176	1447
75°	759	979	1267	1467	1548	805
85°	167	416	703	898	976	193
90°	3	234	497	684	750	11
95°	3	223	483	661	725	2
105°	3	192	452	622	678	3
115°	6	167	382	552	614	4
125°	6	142	326	472	530	5
135°	6	112	273	388	435	4
145°	6	81	190	293	329	4
155°	8	56	117	187	218	4
165°	8	36	64	86	112	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4525.0	4525.0	4525.0	4525.0	4525.0
2.5°	4555.7	4541.7	4494.3	4525.0	4511.1
5°	4536.2	4527.8	4488.7	4525.0	4513.9
7.5°	4505.5	4502.7	4472.0	4513.9	4502.7
10°	4463.6	4469.2	4444.1	4488.7	4480.4
12.5°	4410.6	4419.0	4407.8	4458.1	4452.5
15°	4346.5	4360.4	4357.6	4416.2	4416.2
17.5°	4268.4	4287.9	4299.0	4366.0	4366.0
20°	4176.3	4207.0	4229.3	4301.8	4313.0
22.5°	4084.2	4120.5	4154.0	4229.3	4246.0
25°	3967.1	4022.9	4070.3	4159.5	4162.3
27.5°	3852.7	3914.0	3978.2	4064.7	4073.1
30°	3727.1	3805.2	3883.4	3967.1	3992.2
32.5°	3593.2	3679.7	3766.2	3877.8	3911.3
35°	3448.2	3540.2	3660.2	3777.4	3810.8
37.5°	3303.1	3406.3	3545.8	3665.8	3696.4
40°	3155.2	3269.6	3425.8	3548.6	3584.9
42.5°	2990.6	3130.1	3297.5	3428.6	3470.5
45°	2834.4	2982.3	3163.6	3305.9	3344.9
47.5°	2669.8	2826.0	3021.3	3172.0	3216.6
50°	2494.1	2672.6	2881.8	3032.5	3074.3
52.5°	2329.5	2510.8	2731.2	2887.4	2946.0
55°	2156.5	2349.0	2575.0	2736.8	2792.6
57.5°	1994.7	2178.8	2421.5	2583.3	2653.1
60°	1810.6	2014.2	2256.9	2432.7	2488.5
62.5°	1637.6	1844.0	2095.1	2276.5	2340.6
65°	1459.1	1668.3	1927.7	2117.4	2176.0
67.5°	1291.7	1498.1	1763.1	1950.1	2025.4
70°	1107.5	1325.1	1595.7	1788.2	1852.4
72.5°	926.2	1152.2	1428.4	1634.8	1707.3
75°	758.8	979.2	1266.6	1467.4	1548.3
77.5°	597.0	820.2	1110.3	1316.8	1386.5
80°	435.2	669.5	965.3	1168.9	1235.9
82.5°	287.3	532.8	825.8	1029.4	1102.0
85°	167.4	415.7	703.0	898.3	976.4
87.5°	72.5	315.2	588.6	781.1	845.3
90°	2.8	234.3	496.6	683.5	750.4
92.5°	2.8	228.8	485.4	669.5	733.7
95°	2.8	223.2	482.6	661.2	725.3
97.5°	2.8	220.4	477.1	655.6	717.0
100°	2.8	212.0	468.7	644.4	705.8
102.5°	2.8	200.9	460.3	633.3	691.9
105°	2.8	192.5	451.9	622.1	677.9
107.5°	2.8	184.1	438.0	608.2	664.0
110°	2.8	175.8	415.7	594.2	650.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	173.0	398.9	574.7	633.3
115°	5.6	167.4	382.2	552.4	613.7
117.5°	5.6	164.6	368.2	530.1	594.2
120°	5.6	156.2	354.3	510.5	571.9
122.5°	5.6	147.9	340.4	491.0	552.4
125°	5.6	142.3	326.4	471.5	530.1
127.5°	5.6	133.9	315.2	451.9	504.9
130°	5.6	128.3	301.3	429.6	482.6
132.5°	5.6	120.0	287.3	407.3	457.5
135°	5.6	111.6	273.4	387.8	435.2
137.5°	5.6	100.4	256.7	365.5	410.1
140°	5.6	92.1	234.3	343.1	385.0
142.5°	5.6	86.5	212.0	318.0	357.1
145°	5.6	80.9	189.7	292.9	329.2
147.5°	5.6	75.3	170.2	267.8	301.3
150°	5.6	67.0	150.6	245.5	273.4
152.5°	8.4	61.4	133.9	217.6	245.5
155°	8.4	55.8	117.2	186.9	217.6
157.5°	8.4	50.2	100.4	156.2	189.7
160°	8.4	44.6	86.5	128.3	161.8
162.5°	8.4	41.8	75.3	106.0	136.7
165°	8.4	36.3	64.2	86.5	111.6
167.5°	8.4	27.9	53.0	67.0	92.1
170°	8.4	22.3	41.8	47.4	69.7
172.5°	8.4	16.7	30.7	33.5	36.3
175°	8.4	13.9	19.5	19.5	11.2
177.5°	8.4	11.2	11.2	11.2	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)