

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: P567525

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567525
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-SLW-UNV-L850-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

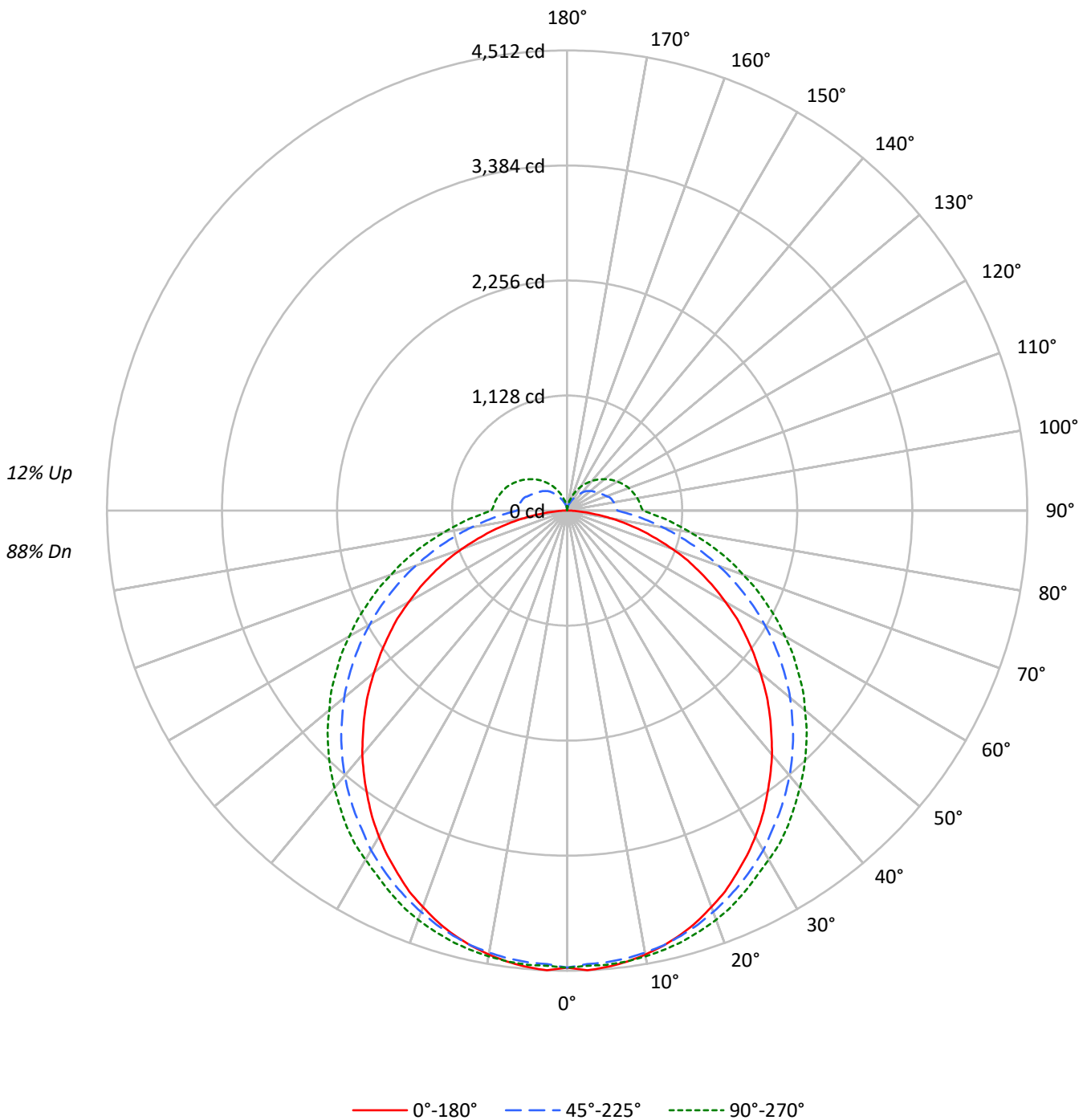
Lumens per Lamp: N/A
Luminaire Lumens: 16134.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 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°	24119	24119	24119
5°	24249	23519	23469
10°	24114	23068	22908
15°	23918	22581	22378
20°	23599	22046	21826
25°	23218	21510	21197
30°	22803	20970	20618
35°	22275	20364	20119
40°	21764	19812	19508
45°	21146	19199	18929
50°	20428	18546	18266
55°	19747	17780	17603
60°	18960	16951	16843
65°	18001	16004	16031
70°	16782	14935	15098
75°	15044	13703	14241
80°	12616	12486	13159
85°	9153	11412	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	2.6
10°-20°	1223.8	7.6
20°-30°	1861.7	11.5
30°-40°	2263.7	14.0
40°-50°	2394.9	14.8
50°-60°	2244.9	13.9
60°-70°	1846.8	11.4
70°-80°	1277.9	7.9
80°-90°	710.6	4.4
90°-100°	468.1	2.9
100°-110°	419.8	2.6
110°-120°	347.5	2.2
120°-130°	268.6	1.7
130°-140°	190.1	1.2
140°-150°	114.7	0.7
150°-160°	55.1	0.3
160°-170°	18.0	0.1
170°-180°	2.2	0.0
0°-30°	3511.0	21.8
0°-40°	5774.7	35.8
0°-60°	10414.6	64.6
0°-90°	14249.9	88.3
90°-120°	1235.4	7.7
90°-150°	1808.8	11.2
90°-180°	1884.0	11.7
0°-180°	16134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4481	4481	4481	4481	4481	
5°	4492	4484	4446	4481	4470	426
15°	4305	4318	4316	4374	4374	1213
25°	3929	3984	4031	4120	4122	1811
35°	3415	3506	3625	3741	3774	2137
45°	2807	2954	3133	3274	3313	2164
55°	2136	2326	2550	2710	2766	1912
65°	1445	1652	1909	2097	2155	1433
75°	752	970	1254	1453	1533	797
85°	166	412	696	890	967	191
90°	3	232	492	677	743	11
95°	3	221	478	655	718	2
105°	3	191	448	616	671	3
115°	6	166	378	547	608	4
125°	6	141	323	467	525	5
135°	6	110	271	384	431	4
145°	6	80	188	290	326	3
155°	8	55	116	185	216	4
165°	8	36	64	86	110	2
175°	8	14	19	19	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4481.4	4481.4	4481.4	4481.4	4481.4
2.5°	4511.8	4498.0	4451.0	4481.4	4467.6
5°	4492.5	4484.2	4445.5	4481.4	4470.3
7.5°	4462.1	4459.3	4428.9	4470.3	4459.3
10°	4420.6	4426.1	4401.3	4445.5	4437.2
12.5°	4368.1	4376.4	4365.4	4415.1	4409.6
15°	4304.6	4318.4	4315.6	4373.6	4373.6
17.5°	4227.2	4246.6	4257.6	4323.9	4323.9
20°	4136.0	4166.4	4188.5	4260.4	4271.4
22.5°	4044.9	4080.8	4113.9	4188.5	4205.1
25°	3928.8	3984.1	4031.1	4119.5	4122.2
27.5°	3815.5	3876.3	3939.9	4025.5	4033.8
30°	3691.2	3768.6	3845.9	3928.8	3953.7
32.5°	3558.6	3644.2	3729.9	3840.4	3873.6
35°	3414.9	3506.1	3624.9	3740.9	3774.1
37.5°	3271.3	3373.5	3511.6	3630.4	3660.8
40°	3124.8	3238.1	3392.8	3514.4	3550.3
42.5°	2961.8	3100.0	3265.7	3395.6	3437.0
45°	2807.1	2953.5	3133.1	3274.0	3312.7
47.5°	2644.1	2798.8	2992.2	3141.4	3185.6
50°	2470.0	2646.8	2854.1	3003.3	3044.7
52.5°	2307.0	2486.6	2704.9	2859.6	2917.6
55°	2135.7	2326.4	2550.1	2710.4	2765.6
57.5°	1975.5	2157.8	2398.2	2558.4	2627.5
60°	1793.1	1994.8	2235.2	2409.2	2464.5
62.5°	1621.8	1826.3	2074.9	2254.5	2318.1
65°	1445.0	1652.2	1909.2	2097.0	2155.1
67.5°	1279.2	1483.7	1746.1	1931.3	2005.9
70°	1096.9	1312.4	1580.4	1771.0	1834.6
72.5°	917.3	1141.1	1414.6	1619.1	1690.9
75°	751.5	969.8	1254.4	1453.3	1533.4
77.5°	591.3	812.3	1099.6	1304.1	1373.2
80°	431.0	663.1	956.0	1157.6	1224.0
82.5°	284.6	527.7	817.8	1019.5	1091.3
85°	165.8	411.7	696.2	889.6	967.0
87.5°	71.8	312.2	583.0	773.6	837.2
90°	2.8	232.1	491.8	676.9	743.2
92.5°	2.8	226.6	480.7	663.1	726.6
95°	2.8	221.0	478.0	654.8	718.4
97.5°	2.8	218.3	472.5	649.3	710.1
100°	2.8	210.0	464.2	638.2	699.0
102.5°	2.8	198.9	455.9	627.2	685.2
105°	2.8	190.6	447.6	616.1	671.4
107.5°	2.8	182.4	433.8	602.3	657.6
110°	2.8	174.1	411.7	588.5	643.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	171.3	395.1	569.2	627.2
115°	5.5	165.8	378.5	547.1	607.8
117.5°	5.5	163.0	364.7	524.9	588.5
120°	5.5	154.7	350.9	505.6	566.4
122.5°	5.5	146.4	337.1	486.3	547.1
125°	5.5	140.9	323.3	466.9	524.9
127.5°	5.5	132.6	312.2	447.6	500.1
130°	5.5	127.1	298.4	425.5	478.0
132.5°	5.5	118.8	284.6	403.4	453.1
135°	5.5	110.5	270.8	384.0	431.0
137.5°	5.5	99.5	254.2	361.9	406.1
140°	5.5	91.2	232.1	339.8	381.3
142.5°	5.5	85.6	210.0	315.0	353.6
145°	5.5	80.1	187.9	290.1	326.0
147.5°	5.5	74.6	168.5	265.2	298.4
150°	5.5	66.3	149.2	243.1	270.8
152.5°	8.3	60.8	132.6	215.5	243.1
155°	8.3	55.3	116.0	185.1	215.5
157.5°	8.3	49.7	99.5	154.7	187.9
160°	8.3	44.2	85.6	127.1	160.2
162.5°	8.3	41.4	74.6	105.0	135.4
165°	8.3	35.9	63.5	85.6	110.5
167.5°	8.3	27.6	52.5	66.3	91.2
170°	8.3	22.1	41.4	47.0	69.1
172.5°	8.3	16.6	30.4	33.2	35.9
175°	8.3	13.8	19.3	19.3	11.1
177.5°	8.3	11.1	11.1	11.1	5.5
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)