

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: P567521

Luminaire Tested: **8SNX-168HL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567521
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-LW-UNV-L950-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

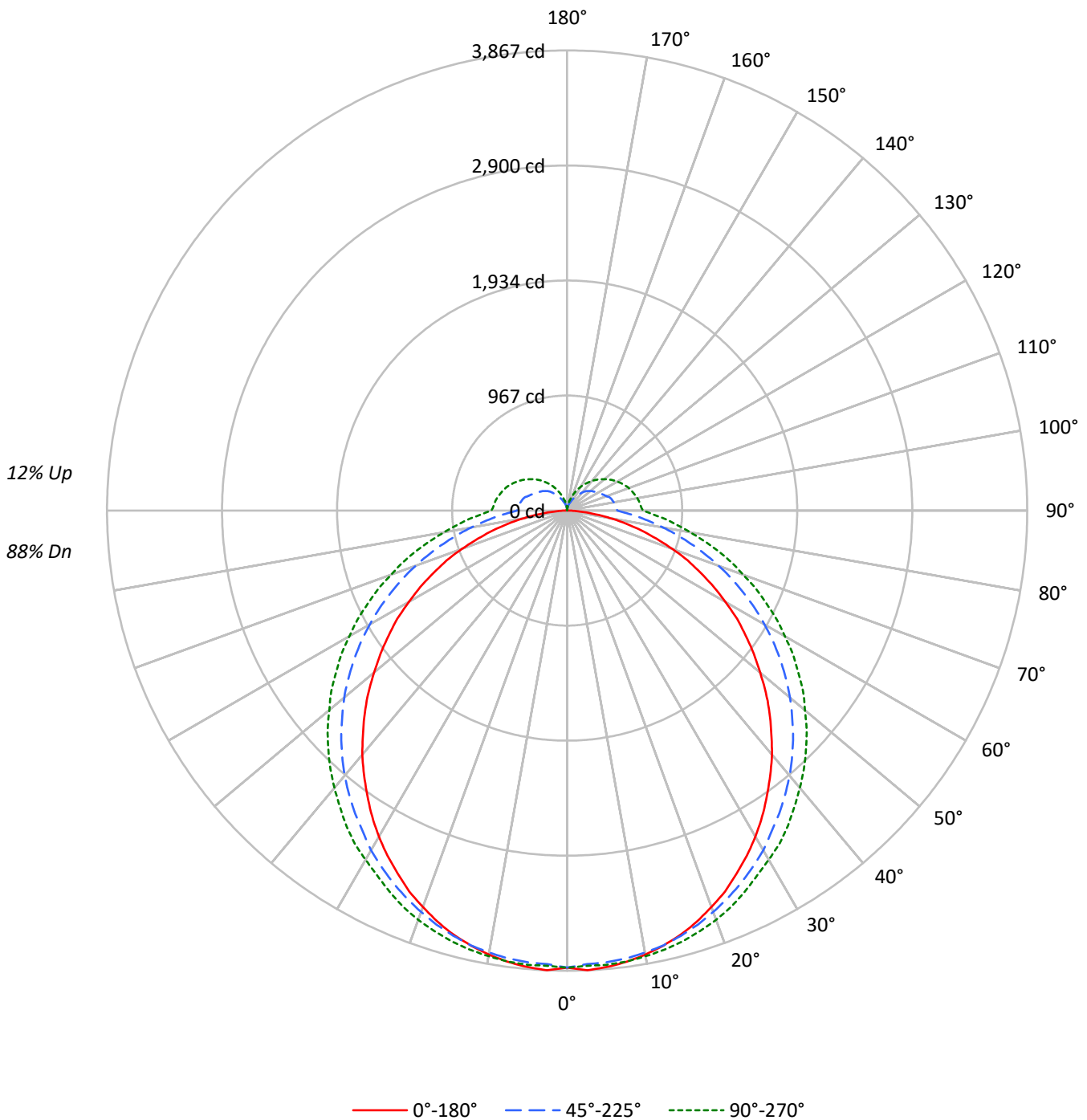
Lumens per Lamp: N/A
Luminaire Lumens: 13827.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	20670	20670	20670
5°	20762	19743	19557
10°	20628	18986	18596
15°	20441	18232	17719
20°	20148	17468	16872
25°	19802	16724	16004
30°	19425	15994	15205
35°	18952	15227	14488
40°	18491	14510	13708
45°	17937	13752	12965
50°	17294	12967	12174
55°	16678	12104	11393
60°	15965	11194	10551
65°	15096	10201	9680
70°	13991	9125	8737
75°	12425	7943	7834
80°	10239	6759	6800
85°	7087	5620	5936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	2.6
10°-20°	1048.8	7.6
20°-30°	1595.5	11.5
30°-40°	1940.0	14.0
40°-50°	2052.5	14.8
50°-60°	1923.9	13.9
60°-70°	1582.8	11.4
70°-80°	1095.1	7.9
80°-90°	609.0	4.4
90°-100°	401.2	2.9
100°-110°	359.8	2.6
110°-120°	297.8	2.2
120°-130°	230.2	1.7
130°-140°	162.9	1.2
140°-150°	98.3	0.7
150°-160°	47.2	0.3
160°-170°	15.5	0.1
170°-180°	1.9	0.0
0°-30°	3009.0	21.8
0°-40°	4949.0	35.8
0°-60°	8925.4	64.6
0°-90°	12212.3	88.3
90°-120°	1058.7	7.7
90°-150°	1550.2	11.2
90°-180°	1615.0	11.7
0°-180°	13827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3841	3841	3841	3841	3841	
5°	3850	3843	3810	3841	3831	365
15°	3689	3701	3698	3748	3748	1040
25°	3367	3414	3455	3530	3533	1552
35°	2927	3005	3107	3206	3234	1832
45°	2406	2531	2685	2806	2839	1854
55°	1830	1994	2186	2323	2370	1638
65°	1238	1416	1636	1797	1847	1228
75°	644	831	1075	1246	1314	683
85°	142	353	597	762	829	164
90°	2	199	422	580	637	9
95°	2	189	410	561	616	2
105°	2	163	384	528	575	3
115°	5	142	324	469	521	4
125°	5	121	277	400	450	4
135°	5	95	232	329	369	4
145°	5	69	161	249	279	3
155°	7	47	99	159	185	3
165°	7	31	54	73	95	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3840.6	3840.6	3840.6	3840.6	3840.6
2.5°	3866.7	3854.8	3814.6	3840.6	3828.8
5°	3850.1	3843.0	3809.8	3840.6	3831.1
7.5°	3824.0	3821.7	3795.6	3831.1	3821.7
10°	3788.5	3793.2	3771.9	3809.8	3802.7
12.5°	3743.5	3750.6	3741.2	3783.8	3779.0
15°	3689.1	3700.9	3698.5	3748.3	3748.3
17.5°	3622.8	3639.3	3648.8	3705.6	3705.6
20°	3544.6	3570.7	3589.6	3651.2	3660.7
22.5°	3466.5	3497.3	3525.7	3589.6	3603.8
25°	3367.0	3414.4	3454.7	3530.4	3532.8
27.5°	3270.0	3322.1	3376.5	3449.9	3457.0
30°	3163.4	3229.7	3296.0	3367.0	3388.4
32.5°	3049.8	3123.2	3196.6	3291.3	3319.7
35°	2926.6	3004.8	3106.6	3206.0	3234.4
37.5°	2803.5	2891.1	3009.5	3111.3	3137.4
40°	2678.0	2775.1	2907.7	3011.9	3042.7
42.5°	2538.3	2656.7	2798.8	2910.1	2945.6
45°	2405.7	2531.2	2685.1	2805.9	2839.0
47.5°	2266.0	2398.6	2564.4	2692.2	2730.1
50°	2116.8	2268.4	2446.0	2573.8	2609.3
52.5°	1977.1	2131.0	2318.1	2450.7	2500.4
55°	1830.3	1993.7	2185.5	2322.8	2370.2
57.5°	1693.0	1849.3	2055.3	2192.6	2251.8
60°	1536.7	1709.6	1915.6	2064.7	2112.1
62.5°	1389.9	1565.1	1778.2	1932.1	1986.6
65°	1238.4	1416.0	1636.2	1797.2	1846.9
67.5°	1096.3	1271.5	1496.5	1655.1	1719.0
70°	940.0	1124.7	1354.4	1517.8	1572.2
72.5°	786.1	977.9	1212.3	1387.5	1449.1
75°	644.0	831.1	1075.0	1245.5	1314.1
77.5°	506.7	696.1	942.4	1117.6	1176.8
80°	369.4	568.3	819.3	992.1	1048.9
82.5°	243.9	452.3	700.9	873.7	935.3
85°	142.1	352.8	596.7	762.4	828.7
87.5°	61.6	267.6	499.6	663.0	717.4
90°	2.4	198.9	421.5	580.1	636.9
92.5°	2.4	194.2	412.0	568.3	622.7
95°	2.4	189.4	409.6	561.2	615.6
97.5°	2.4	187.1	404.9	556.4	608.5
100°	2.4	180.0	397.8	547.0	599.1
102.5°	2.4	170.5	390.7	537.5	587.2
105°	2.4	163.4	383.6	528.0	575.4
107.5°	2.4	156.3	371.7	516.2	563.5
110°	2.4	149.2	352.8	504.3	551.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	146.8	338.6	487.8	537.5
115°	4.7	142.1	324.4	468.8	520.9
117.5°	4.7	139.7	312.6	449.9	504.3
120°	4.7	132.6	300.7	433.3	485.4
122.5°	4.7	125.5	288.9	416.7	468.8
125°	4.7	120.8	277.0	400.2	449.9
127.5°	4.7	113.7	267.6	383.6	428.6
130°	4.7	108.9	255.7	364.6	409.6
132.5°	4.7	101.8	243.9	345.7	388.3
135°	4.7	94.7	232.0	329.1	369.4
137.5°	4.7	85.2	217.8	310.2	348.1
140°	4.7	78.1	198.9	291.2	326.8
142.5°	4.7	73.4	180.0	269.9	303.1
145°	4.7	68.7	161.0	248.6	279.4
147.5°	4.7	63.9	144.4	227.3	255.7
150°	4.7	56.8	127.9	208.4	232.0
152.5°	7.1	52.1	113.7	184.7	208.4
155°	7.1	47.4	99.4	158.6	184.7
157.5°	7.1	42.6	85.2	132.6	161.0
160°	7.1	37.9	73.4	108.9	137.3
162.5°	7.1	35.5	63.9	90.0	116.0
165°	7.1	30.8	54.5	73.4	94.7
167.5°	7.1	23.7	45.0	56.8	78.1
170°	7.1	18.9	35.5	40.3	59.2
172.5°	7.1	14.2	26.0	28.4	30.8
175°	7.1	11.8	16.6	16.6	9.5
177.5°	7.1	9.5	9.5	9.5	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)