

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: P567497

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567497
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-L950-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

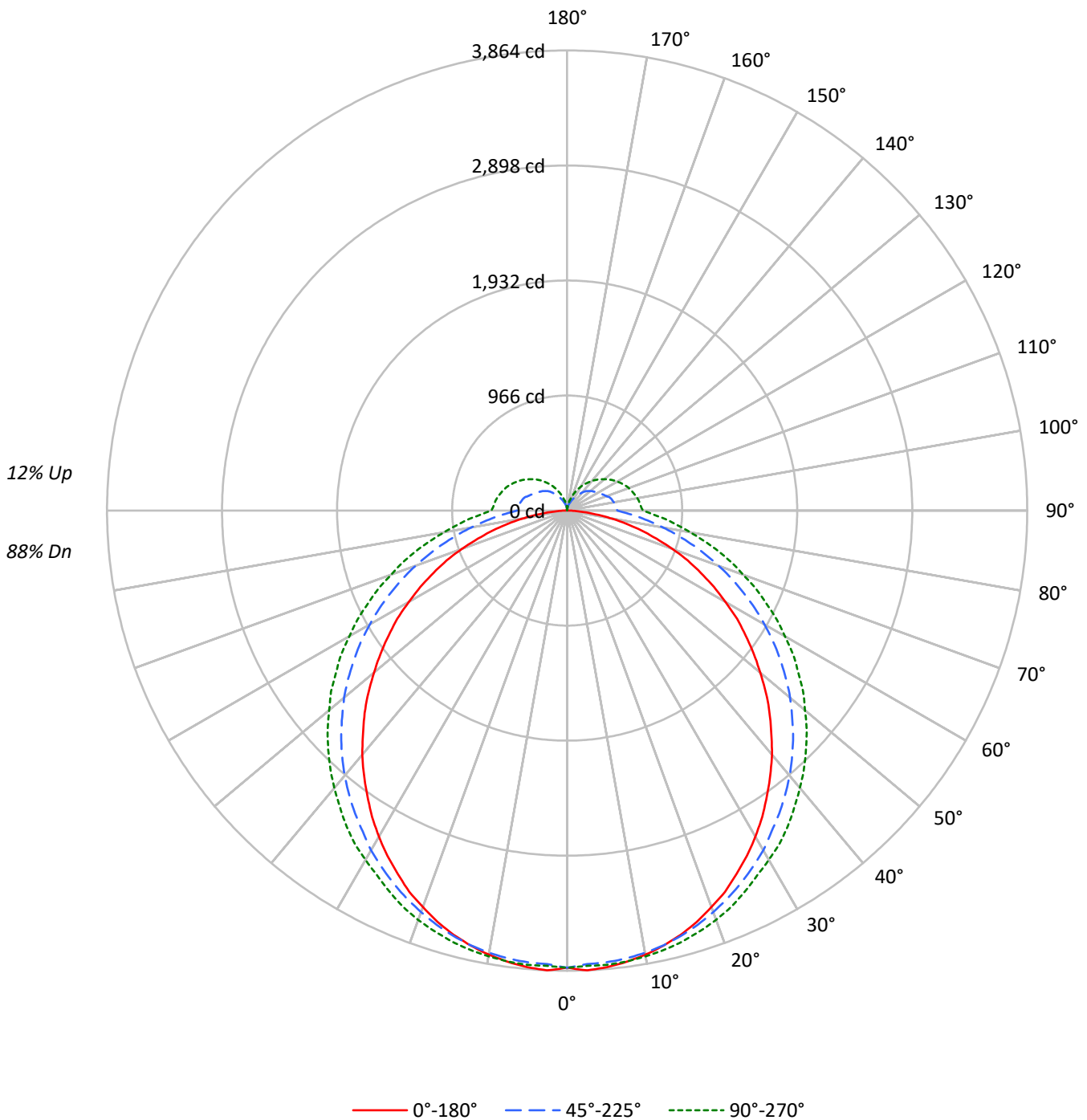
Lumens per Lamp: N/A
Luminaire Lumens: 13819.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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°	20658	20658	20658
5°	20778	20354	20388
10°	20673	20170	20177
15°	20514	19946	19980
20°	20251	19677	19755
25°	19935	19404	19454
30°	19589	19129	19198
35°	19147	18799	19019
40°	18722	18527	18743
45°	18205	18212	18511
50°	17604	17878	18216
55°	17038	17464	17953
60°	16383	17024	17632
65°	15588	16519	17317
70°	14575	15968	16960
75°	13130	15370	16838
80°	11114	15023	16703
85°	8276	15412	17607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	2.6
10°-20°	1048.2	7.6
20°-30°	1594.6	11.5
30°-40°	1938.9	14.0
40°-50°	2051.3	14.8
50°-60°	1922.8	13.9
60°-70°	1581.8	11.4
70°-80°	1094.5	7.9
80°-90°	608.6	4.4
90°-100°	401.0	2.9
100°-110°	359.6	2.6
110°-120°	297.6	2.2
120°-130°	230.1	1.7
130°-140°	162.9	1.2
140°-150°	98.2	0.7
150°-160°	47.2	0.3
160°-170°	15.5	0.1
170°-180°	1.9	0.0
0°-30°	3007.2	21.8
0°-40°	4946.1	35.8
0°-60°	8920.3	64.6
0°-90°	12205.2	88.3
90°-120°	1058.1	7.7
90°-150°	1549.3	11.2
90°-180°	1614.0	11.7
0°-180°	13819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3838	3838	3838	3838	3838	
5°	3848	3841	3808	3838	3829	365
15°	3687	3699	3696	3746	3746	1039
25°	3365	3412	3453	3528	3531	1551
35°	2925	3003	3105	3204	3233	1831
45°	2404	2530	2684	2804	2837	1853
55°	1829	1993	2184	2322	2369	1638
65°	1238	1415	1635	1796	1846	1227
75°	644	831	1074	1245	1313	683
85°	142	353	596	762	828	163
90°	2	199	421	580	637	9
95°	2	189	409	561	615	2
105°	2	163	383	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	248	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°	3838.4	3838.4	3838.4	3838.4	3838.4
2.5°	3864.4	3852.6	3812.4	3838.4	3826.6
5°	3847.8	3840.8	3807.6	3838.4	3828.9
7.5°	3821.8	3819.5	3793.4	3828.9	3819.5
10°	3786.3	3791.1	3769.8	3807.6	3800.5
12.5°	3741.4	3748.5	3739.0	3781.6	3776.9
15°	3686.9	3698.8	3696.4	3746.1	3746.1
17.5°	3620.7	3637.2	3646.7	3703.5	3703.5
20°	3542.6	3568.6	3587.5	3649.1	3658.5
22.5°	3464.5	3495.2	3523.6	3587.5	3601.7
25°	3365.1	3412.4	3452.7	3528.4	3530.7
27.5°	3268.1	3320.1	3374.6	3447.9	3455.0
30°	3161.6	3227.8	3294.1	3365.1	3386.4
32.5°	3048.0	3121.3	3194.7	3289.4	3317.8
35°	2924.9	3003.0	3104.8	3204.2	3232.6
37.5°	2801.9	2889.4	3007.8	3109.5	3135.5
40°	2676.5	2773.5	2906.0	3010.1	3040.9
42.5°	2536.8	2655.2	2797.1	2908.4	2943.9
45°	2404.3	2529.7	2683.6	2804.2	2837.4
47.5°	2264.7	2397.2	2562.9	2690.7	2728.5
50°	2115.6	2267.1	2444.5	2572.3	2607.8
52.5°	1976.0	2129.8	2316.8	2449.3	2499.0
55°	1829.3	1992.6	2184.2	2321.5	2368.8
57.5°	1692.0	1848.2	2054.1	2191.3	2250.5
60°	1535.8	1708.6	1914.5	2063.5	2110.9
62.5°	1389.1	1564.2	1777.2	1931.0	1985.5
65°	1237.7	1415.1	1635.2	1796.1	1845.8
67.5°	1095.7	1270.8	1495.6	1654.1	1718.0
70°	939.5	1124.1	1353.6	1516.9	1571.3
72.5°	785.7	977.3	1211.6	1386.7	1448.3
75°	643.7	830.6	1074.4	1244.8	1313.4
77.5°	506.4	695.7	941.8	1117.0	1176.1
80°	369.2	567.9	818.8	991.5	1048.3
82.5°	243.7	452.0	700.5	873.2	934.7
85°	142.0	352.6	596.3	762.0	828.3
87.5°	61.5	267.4	499.3	662.6	717.0
90°	2.4	198.8	421.2	579.8	636.6
92.5°	2.4	194.0	411.8	567.9	622.4
95°	2.4	189.3	409.4	560.8	615.3
97.5°	2.4	186.9	404.7	556.1	608.2
100°	2.4	179.9	397.6	546.7	598.7
102.5°	2.4	170.4	390.5	537.2	586.9
105°	2.4	163.3	383.4	527.7	575.0
107.5°	2.4	156.2	371.5	515.9	563.2
110°	2.4	149.1	352.6	504.1	551.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	146.7	338.4	487.5	537.2
115°	4.7	142.0	324.2	468.6	520.6
117.5°	4.7	139.6	312.4	449.6	504.1
120°	4.7	132.5	300.5	433.1	485.1
122.5°	4.7	125.4	288.7	416.5	468.6
125°	4.7	120.7	276.9	399.9	449.6
127.5°	4.7	113.6	267.4	383.4	428.3
130°	4.7	108.9	255.6	364.4	409.4
132.5°	4.7	101.8	243.7	345.5	388.1
135°	4.7	94.7	231.9	328.9	369.2
137.5°	4.7	85.2	217.7	310.0	347.9
140°	4.7	78.1	198.8	291.1	326.6
142.5°	4.7	73.4	179.9	269.8	302.9
145°	4.7	68.6	160.9	248.5	279.2
147.5°	4.7	63.9	144.4	227.2	255.6
150°	4.7	56.8	127.8	208.2	231.9
152.5°	7.1	52.1	113.6	184.6	208.2
155°	7.1	47.3	99.4	158.6	184.6
157.5°	7.1	42.6	85.2	132.5	160.9
160°	7.1	37.9	73.4	108.9	137.3
162.5°	7.1	35.5	63.9	89.9	116.0
165°	7.1	30.8	54.4	73.4	94.7
167.5°	7.1	23.7	45.0	56.8	78.1
170°	7.1	18.9	35.5	40.2	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)