

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: P567528

Luminaire Tested: **8SNX-168HL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567528
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-L940-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

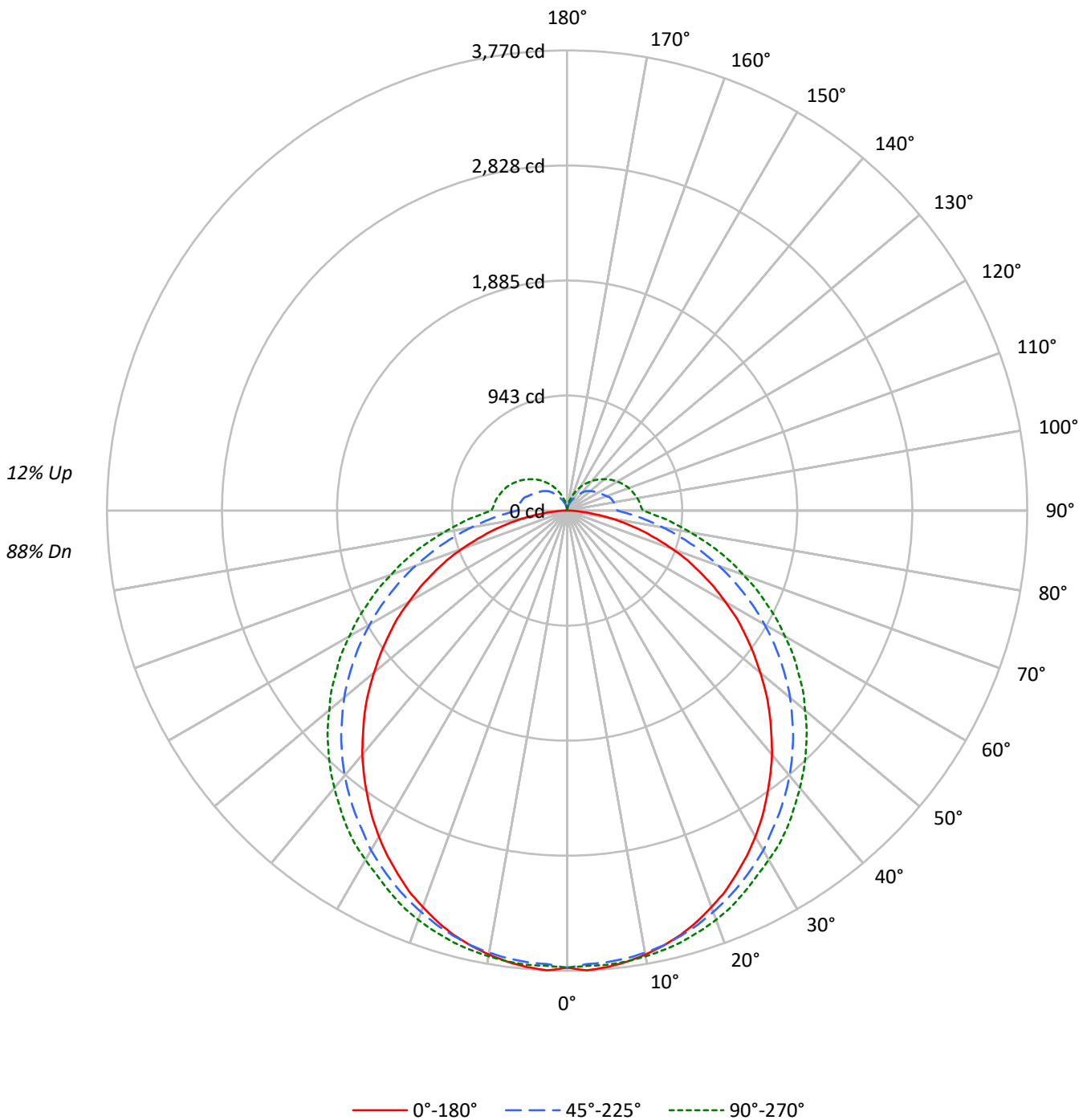
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13482.0 lumens
Efficiency: N/A
Efficacy: 116.4 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: 0.08')
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	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°	20154	20154	20154
5°	20263	19653	19611
10°	20151	19276	19142
15°	19986	18870	18700
20°	19720	18423	18239
25°	19402	17974	17713
30°	19055	17523	17229
35°	18613	17017	16812
40°	18187	16555	16302
45°	17670	16043	15818
50°	17070	15497	15263
55°	16502	14858	14711
60°	15844	14165	14074
65°	15043	13373	13396
70°	14024	12480	12616
75°	12572	11451	11901
80°	10543	10433	10996
85°	7646	9537	10407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.5	2.6
10°-20°	1022.7	7.6
20°-30°	1555.7	11.5
30°-40°	1891.6	14.0
40°-50°	2001.3	14.8
50°-60°	1875.9	13.9
60°-70°	1543.3	11.4
70°-80°	1067.8	7.9
80°-90°	593.8	4.4
90°-100°	391.2	2.9
100°-110°	350.8	2.6
110°-120°	290.3	2.2
120°-130°	224.4	1.7
130°-140°	158.9	1.2
140°-150°	95.8	0.7
150°-160°	46.0	0.3
160°-170°	15.1	0.1
170°-180°	1.8	0.0
0°-30°	2933.9	21.8
0°-40°	4825.5	35.8
0°-60°	8702.7	64.6
0°-90°	11907.6	88.3
90°-120°	1032.3	7.7
90°-150°	1511.5	11.2
90°-180°	1574.0	11.7
0°-180°	13482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3745	3745	3745	3745	3745	
5°	3754	3747	3715	3745	3736	356
15°	3597	3609	3606	3655	3655	1014
25°	3283	3329	3368	3442	3445	1513
35°	2854	2930	3029	3126	3154	1786
45°	2346	2468	2618	2736	2768	1808
55°	1785	1944	2131	2265	2311	1598
65°	1208	1381	1595	1752	1801	1197
75°	628	810	1048	1214	1281	666
85°	138	344	582	743	808	159
90°	2	194	411	566	621	9
95°	2	185	399	547	600	2
105°	2	159	374	515	561	2
115°	5	138	316	457	508	4
125°	5	118	270	390	439	4
135°	5	92	226	321	360	4
145°	5	67	157	242	272	3
155°	7	46	97	155	180	3
165°	7	30	53	72	92	2
175°	7	12	16	16	9	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3744.8	3744.8	3744.8	3744.8	3744.8
2.5°	3770.2	3758.6	3719.4	3744.8	3733.2
5°	3754.0	3747.1	3714.8	3744.8	3735.5
7.5°	3728.6	3726.3	3700.9	3735.5	3726.3
10°	3694.0	3698.6	3677.8	3714.8	3707.8
12.5°	3650.1	3657.0	3647.8	3689.4	3684.8
15°	3597.0	3608.6	3606.3	3654.7	3654.7
17.5°	3532.4	3548.5	3557.8	3613.2	3613.2
20°	3456.2	3481.6	3500.1	3560.1	3569.3
22.5°	3380.0	3410.0	3437.7	3500.1	3513.9
25°	3283.0	3329.2	3368.5	3442.3	3444.6
27.5°	3188.4	3239.2	3292.3	3363.8	3370.8
30°	3084.5	3149.1	3213.8	3283.0	3303.8
32.5°	2973.7	3045.2	3116.8	3209.2	3236.9
35°	2853.6	2929.8	3029.1	3126.0	3153.7
37.5°	2733.5	2819.0	2934.4	3033.7	3059.1
40°	2611.2	2705.8	2835.1	2936.7	2966.7
42.5°	2475.0	2590.4	2728.9	2837.4	2872.1
45°	2345.7	2468.0	2618.1	2735.9	2768.2
47.5°	2209.5	2338.8	2500.4	2625.0	2662.0
50°	2064.0	2211.8	2384.9	2509.6	2544.2
52.5°	1927.8	2077.9	2260.3	2389.5	2438.0
55°	1784.7	1944.0	2131.0	2264.9	2311.1
57.5°	1650.8	1803.1	2004.0	2137.9	2195.6
60°	1498.4	1666.9	1867.8	2013.2	2059.4
62.5°	1355.2	1526.1	1733.9	1883.9	1937.0
65°	1207.5	1380.6	1595.3	1752.3	1800.8
67.5°	1068.9	1239.8	1459.1	1613.8	1676.1
70°	916.6	1096.7	1320.6	1479.9	1533.0
72.5°	766.5	953.5	1182.1	1352.9	1412.9
75°	628.0	810.4	1048.2	1214.4	1281.4
77.5°	494.1	678.8	918.9	1089.7	1147.4
80°	360.2	554.1	798.8	967.4	1022.8
82.5°	237.8	441.0	683.4	851.9	912.0
85°	138.5	344.0	581.8	743.4	808.1
87.5°	60.0	260.9	487.1	646.4	699.5
90°	2.3	193.9	411.0	565.6	621.1
92.5°	2.3	189.3	401.7	554.1	607.2
95°	2.3	184.7	399.4	547.2	600.3
97.5°	2.3	182.4	394.8	542.6	593.3
100°	2.3	175.5	387.9	533.3	584.1
102.5°	2.3	166.2	380.9	524.1	572.6
105°	2.3	159.3	374.0	514.8	561.0
107.5°	2.3	152.4	362.5	503.3	549.5
110°	2.3	145.5	344.0	491.8	537.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	143.1	330.2	475.6	524.1
115°	4.6	138.5	316.3	457.1	507.9
117.5°	4.6	136.2	304.8	438.7	491.8
120°	4.6	129.3	293.2	422.5	473.3
122.5°	4.6	122.4	281.7	406.3	457.1
125°	4.6	117.7	270.1	390.2	438.7
127.5°	4.6	110.8	260.9	374.0	417.9
130°	4.6	106.2	249.3	355.5	399.4
132.5°	4.6	99.3	237.8	337.1	378.6
135°	4.6	92.3	226.3	320.9	360.2
137.5°	4.6	83.1	212.4	302.4	339.4
140°	4.6	76.2	193.9	284.0	318.6
142.5°	4.6	71.6	175.5	263.2	295.5
145°	4.6	67.0	157.0	242.4	272.4
147.5°	4.6	62.3	140.8	221.6	249.3
150°	4.6	55.4	124.7	203.2	226.3
152.5°	6.9	50.8	110.8	180.1	203.2
155°	6.9	46.2	97.0	154.7	180.1
157.5°	6.9	41.6	83.1	129.3	157.0
160°	6.9	36.9	71.6	106.2	133.9
162.5°	6.9	34.6	62.3	87.7	113.1
165°	6.9	30.0	53.1	71.6	92.3
167.5°	6.9	23.1	43.9	55.4	76.2
170°	6.9	18.5	34.6	39.2	57.7
172.5°	6.9	13.9	25.4	27.7	30.0
175°	6.9	11.5	16.2	16.2	9.2
177.5°	6.9	9.2	9.2	9.2	4.6
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)