

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: P567522

Luminaire Tested: **8SNX-168HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567522  
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-L830-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

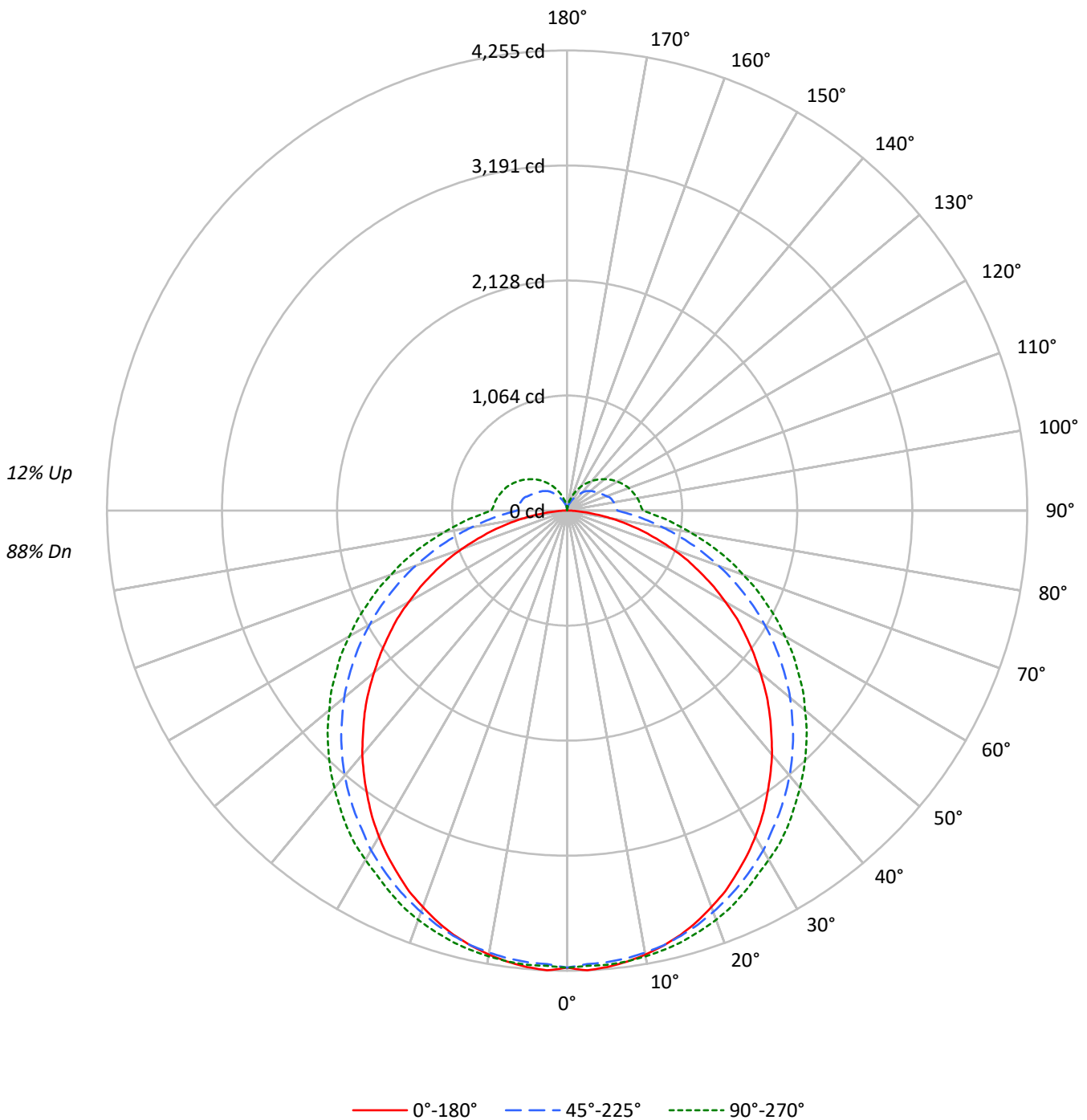
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15216.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 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	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°	22746	22746	22746
5°	22869	22180	22134
10°	22742	21756	21605
15°	22557	21296	21105
20°	22257	20792	20585
25°	21897	20286	19991
30°	21505	19777	19445
35°	21007	19206	18975
40°	20526	18685	18398
45°	19943	18106	17852
50°	19266	17491	17227
55°	18624	16769	16602
60°	17882	15987	15884
65°	16977	15093	15118
70°	15828	14085	14238
75°	14188	12923	13431
80°	11899	11776	12410
85°	8628	10763	11745



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.2	2.6
10°-20°	1154.2	7.6
20°-30°	1755.8	11.5
30°-40°	2134.9	14.0
40°-50°	2258.7	14.8
50°-60°	2117.2	13.9
60°-70°	1741.8	11.4
70°-80°	1205.2	7.9
80°-90°	670.1	4.4
90°-100°	441.5	2.9
100°-110°	395.9	2.6
110°-120°	327.7	2.2
120°-130°	253.3	1.7
130°-140°	179.3	1.2
140°-150°	108.2	0.7
150°-160°	52.0	0.3
160°-170°	17.0	0.1
170°-180°	2.1	0.0
0°-30°	3311.2	21.8
0°-40°	5446.2	35.8
0°-60°	9822.0	64.6
0°-90°	13439.1	88.3
90°-120°	1165.1	7.7
90°-150°	1705.9	11.2
90°-180°	1777.0	11.7
0°-180°	15216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4226	4226	4226	4226	4226	
5°	4237	4229	4192	4226	4216	402
15°	4060	4073	4070	4125	4125	1144
25°	3705	3757	3802	3885	3888	1708
35°	3221	3307	3419	3528	3559	2016
45°	2647	2786	2955	3088	3124	2041
55°	2014	2194	2405	2556	2608	1803
65°	1363	1558	1800	1978	2032	1351
75°	709	915	1183	1371	1446	752
85°	156	388	657	839	912	180
90°	3	219	464	638	701	10
95°	3	208	451	618	678	2
105°	3	180	422	581	633	3
115°	5	156	357	516	573	4
125°	5	133	305	440	495	5
135°	5	104	255	362	406	4
145°	5	76	177	274	308	3
155°	8	52	109	175	203	3
165°	8	34	60	81	104	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4226.4	4226.4	4226.4	4226.4	4226.4
2.5°	4255.1	4242.1	4197.8	4226.4	4213.4
5°	4236.8	4229.0	4192.5	4226.4	4216.0
7.5°	4208.2	4205.6	4176.9	4216.0	4205.6
10°	4169.1	4174.3	4150.9	4192.5	4184.7
12.5°	4119.6	4127.4	4117.0	4163.9	4158.7
15°	4059.7	4072.7	4070.1	4124.8	4124.8
17.5°	3986.7	4004.9	4015.4	4077.9	4077.9
20°	3900.7	3929.4	3950.2	4018.0	4028.4
22.5°	3814.7	3848.6	3879.9	3950.2	3965.8
25°	3705.3	3757.4	3801.7	3885.1	3887.7
27.5°	3598.4	3655.8	3715.7	3796.5	3804.3
30°	3481.2	3554.2	3627.1	3705.3	3728.7
32.5°	3356.1	3436.9	3517.7	3621.9	3653.2
35°	3220.6	3306.6	3418.7	3528.1	3559.4
37.5°	3085.1	3181.5	3311.8	3423.9	3452.5
40°	2947.0	3053.9	3199.8	3314.4	3348.3
42.5°	2793.3	2923.6	3079.9	3202.4	3241.5
45°	2647.4	2785.5	2954.8	3087.7	3124.2
47.5°	2493.6	2639.6	2822.0	2962.7	3004.4
50°	2329.5	2496.2	2691.7	2832.4	2871.5
52.5°	2175.7	2345.1	2551.0	2696.9	2751.6
55°	2014.2	2194.0	2405.0	2556.2	2608.3
57.5°	1863.1	2035.0	2261.7	2412.9	2478.0
60°	1691.1	1881.3	2108.0	2272.2	2324.3
62.5°	1529.5	1722.4	1956.9	2126.2	2186.2
65°	1362.8	1558.2	1800.5	1977.7	2032.4
67.5°	1206.4	1399.3	1646.8	1821.4	1891.7
70°	1034.5	1237.7	1490.5	1670.2	1730.2
72.5°	865.1	1076.1	1334.1	1526.9	1594.7
75°	708.7	914.6	1183.0	1370.6	1446.2
77.5°	557.6	766.1	1037.1	1229.9	1295.0
80°	406.5	625.4	901.6	1091.8	1154.3
82.5°	268.4	497.7	771.3	961.5	1029.2
85°	156.3	388.2	656.6	839.0	912.0
87.5°	67.7	294.4	549.8	729.6	789.5
90°	2.6	218.9	463.8	638.4	700.9
92.5°	2.6	213.7	453.4	625.4	685.3
95°	2.6	208.5	450.8	617.5	677.5
97.5°	2.6	205.8	445.6	612.3	669.7
100°	2.6	198.0	437.8	601.9	659.2
102.5°	2.6	187.6	429.9	591.5	646.2
105°	2.6	179.8	422.1	581.1	633.2
107.5°	2.6	172.0	409.1	568.0	620.2
110°	2.6	164.2	388.2	555.0	607.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	161.6	372.6	536.8	591.5
115°	5.2	156.3	357.0	515.9	573.3
117.5°	5.2	153.7	344.0	495.1	555.0
120°	5.2	145.9	330.9	476.8	534.2
122.5°	5.2	138.1	317.9	458.6	515.9
125°	5.2	132.9	304.9	440.4	495.1
127.5°	5.2	125.1	294.4	422.1	471.6
130°	5.2	119.9	281.4	401.3	450.8
132.5°	5.2	112.0	268.4	380.4	427.3
135°	5.2	104.2	255.4	362.2	406.5
137.5°	5.2	93.8	239.7	341.3	383.0
140°	5.2	86.0	218.9	320.5	359.6
142.5°	5.2	80.8	198.0	297.0	333.5
145°	5.2	75.6	177.2	273.6	307.5
147.5°	5.2	70.4	158.9	250.1	281.4
150°	5.2	62.5	140.7	229.3	255.4
152.5°	7.8	57.3	125.1	203.2	229.3
155°	7.8	52.1	109.4	174.6	203.2
157.5°	7.8	46.9	93.8	145.9	177.2
160°	7.8	41.7	80.8	119.9	151.1
162.5°	7.8	39.1	70.4	99.0	127.7
165°	7.8	33.9	59.9	80.8	104.2
167.5°	7.8	26.1	49.5	62.5	86.0
170°	7.8	20.8	39.1	44.3	65.1
172.5°	7.8	15.6	28.7	31.3	33.9
175°	7.8	13.0	18.2	18.2	10.4
177.5°	7.8	10.4	10.4	10.4	5.2
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)