

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: P567518

Luminaire Tested: **8SNX-168HL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567518
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-L930-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

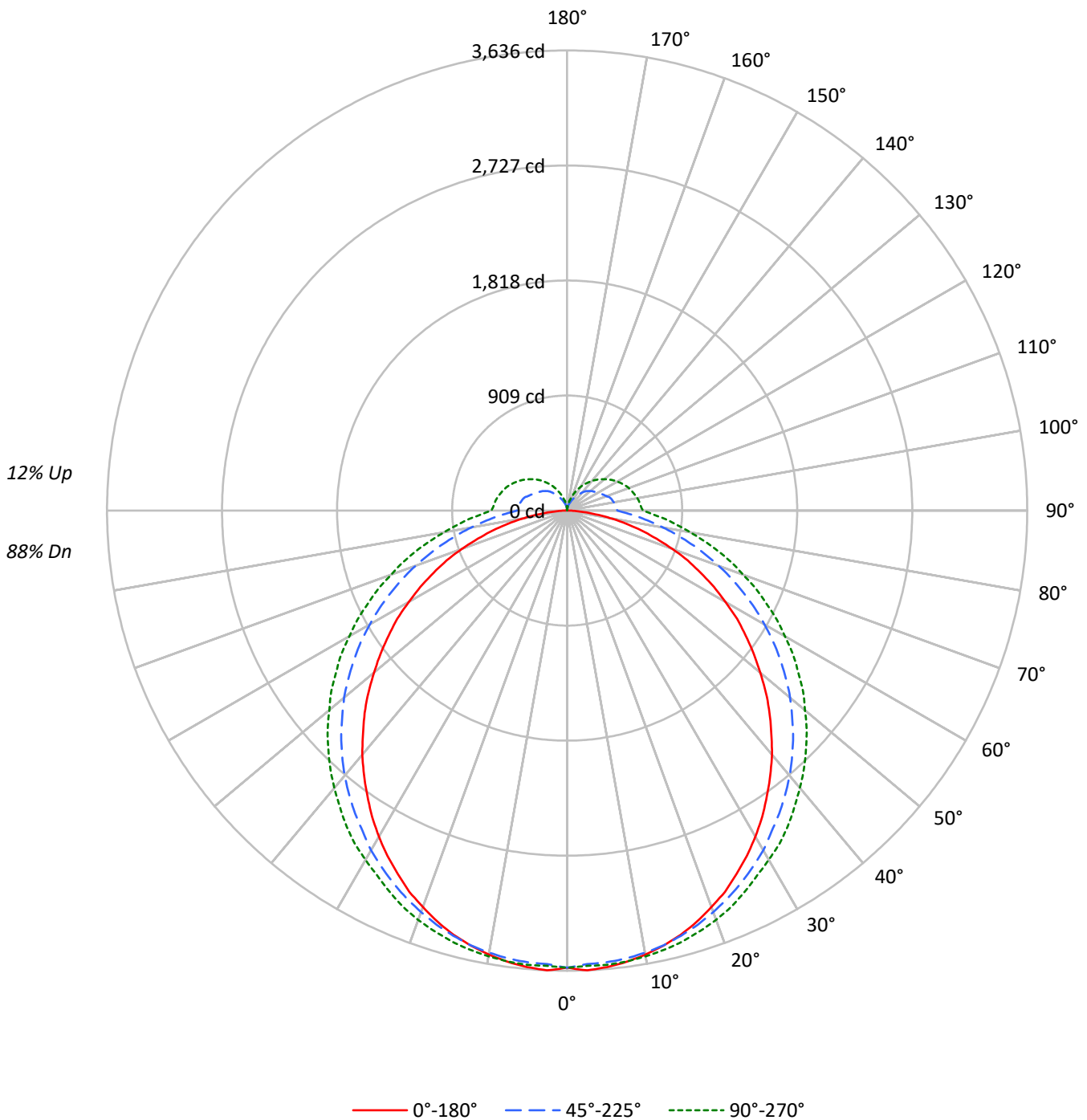
Lumens per Lamp: N/A
Luminaire Lumens: 13003.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	19438	19438	19438
5°	19525	18566	18391
10°	19399	17855	17488
15°	19222	17146	16663
20°	18948	16427	15866
25°	18622	15727	15050
30°	18268	15041	14298
35°	17822	14320	13624
40°	17389	13645	12891
45°	16867	12932	12192
50°	16264	12194	11449
55°	15685	11382	10714
60°	15013	10526	9922
65°	14197	9593	9103
70°	13157	8581	8216
75°	11686	7469	7367
80°	9629	6355	6395
85°	6663	5284	5583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	2.6
10°-20°	986.3	7.6
20°-30°	1500.5	11.5
30°-40°	1824.4	14.0
40°-50°	1930.2	14.8
50°-60°	1809.3	13.9
60°-70°	1488.4	11.4
70°-80°	1029.9	7.9
80°-90°	572.7	4.4
90°-100°	377.3	2.9
100°-110°	338.3	2.6
110°-120°	280.0	2.2
120°-130°	216.5	1.7
130°-140°	153.3	1.2
140°-150°	92.4	0.7
150°-160°	44.4	0.3
160°-170°	14.5	0.1
170°-180°	1.8	0.0
0°-30°	2829.7	21.8
0°-40°	4654.1	35.8
0°-60°	8393.5	64.6
0°-90°	11484.5	88.3
90°-120°	995.6	7.7
90°-150°	1457.8	11.2
90°-180°	1519.0	11.7
0°-180°	13003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3612	3612	3612	3612	3612	
5°	3621	3614	3583	3612	3603	344
15°	3469	3480	3478	3525	3525	978
25°	3166	3211	3249	3320	3322	1460
35°	2752	2826	2921	3015	3042	1722
45°	2262	2380	2525	2639	2670	1744
55°	1721	1875	2055	2184	2229	1541
65°	1165	1332	1539	1690	1737	1155
75°	606	782	1011	1171	1236	643
85°	134	332	561	717	779	154
90°	2	187	396	546	599	9
95°	2	178	385	528	579	2
105°	2	154	361	497	541	2
115°	4	134	305	441	490	4
125°	4	114	260	376	423	4
135°	4	89	218	310	347	3
145°	4	65	151	234	263	3
155°	7	44	94	149	174	3
165°	7	29	51	69	89	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3611.7	3611.7	3611.7	3611.7	3611.7
2.5°	3636.2	3625.1	3587.2	3611.7	3600.6
5°	3620.6	3614.0	3582.8	3611.7	3602.8
7.5°	3596.1	3593.9	3569.4	3602.8	3593.9
10°	3562.7	3567.2	3547.2	3582.8	3576.1
12.5°	3520.4	3527.1	3518.2	3558.3	3553.8
15°	3469.2	3480.4	3478.1	3524.9	3524.9
17.5°	3406.9	3422.5	3431.4	3484.8	3484.8
20°	3333.4	3357.9	3375.7	3433.6	3442.5
22.5°	3259.9	3288.9	3315.6	3375.7	3389.1
25°	3166.4	3210.9	3248.8	3320.0	3322.3
27.5°	3075.1	3124.1	3175.3	3244.3	3251.0
30°	2974.9	3037.2	3099.6	3166.4	3186.4
32.5°	2868.0	2937.0	3006.1	3095.1	3121.9
35°	2752.2	2825.7	2921.4	3015.0	3041.7
37.5°	2636.4	2718.8	2830.2	2925.9	2950.4
40°	2518.4	2609.7	2734.4	2832.4	2861.3
42.5°	2387.0	2498.4	2632.0	2736.6	2770.0
45°	2262.3	2380.4	2525.1	2638.7	2669.8
47.5°	2131.0	2255.7	2411.5	2531.8	2567.4
50°	1990.7	2133.2	2300.2	2420.4	2453.8
52.5°	1859.3	2004.0	2180.0	2304.6	2351.4
55°	1721.3	1874.9	2055.3	2184.4	2228.9
57.5°	1592.1	1739.1	1932.8	2061.9	2117.6
60°	1445.1	1607.7	1801.4	1941.7	1986.2
62.5°	1307.1	1471.9	1672.3	1817.0	1868.2
65°	1164.6	1331.6	1538.7	1690.1	1736.8
67.5°	1031.0	1195.7	1407.3	1556.5	1616.6
70°	884.0	1057.7	1273.7	1427.3	1478.5
72.5°	739.3	919.6	1140.1	1304.9	1362.7
75°	605.7	781.6	1010.9	1171.3	1235.8
77.5°	476.5	654.7	886.2	1051.0	1106.7
80°	347.4	534.4	770.4	933.0	986.4
82.5°	229.4	425.3	659.1	821.7	879.6
85°	133.6	331.8	561.1	717.0	779.4
87.5°	57.9	251.6	469.8	623.5	674.7
90°	2.2	187.0	396.4	545.5	599.0
92.5°	2.2	182.6	387.4	534.4	585.6
95°	2.2	178.1	385.2	527.7	578.9
97.5°	2.2	175.9	380.8	523.3	572.3
100°	2.2	169.2	374.1	514.4	563.4
102.5°	2.2	160.3	367.4	505.5	552.2
105°	2.2	153.6	360.7	496.6	541.1
107.5°	2.2	147.0	349.6	485.4	530.0
110°	2.2	140.3	331.8	474.3	518.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	138.1	318.4	458.7	505.5
115°	4.5	133.6	305.1	440.9	489.9
117.5°	4.5	131.4	293.9	423.1	474.3
120°	4.5	124.7	282.8	407.5	456.5
122.5°	4.5	118.0	271.7	391.9	440.9
125°	4.5	113.6	260.5	376.3	423.1
127.5°	4.5	106.9	251.6	360.7	403.0
130°	4.5	102.4	240.5	342.9	385.2
132.5°	4.5	95.7	229.4	325.1	365.2
135°	4.5	89.1	218.2	309.5	347.4
137.5°	4.5	80.2	204.9	291.7	327.3
140°	4.5	73.5	187.0	273.9	307.3
142.5°	4.5	69.0	169.2	253.8	285.0
145°	4.5	64.6	151.4	233.8	262.8
147.5°	4.5	60.1	135.8	213.8	240.5
150°	4.5	53.4	120.2	196.0	218.2
152.5°	6.7	49.0	106.9	173.7	196.0
155°	6.7	44.5	93.5	149.2	173.7
157.5°	6.7	40.1	80.2	124.7	151.4
160°	6.7	35.6	69.0	102.4	129.1
162.5°	6.7	33.4	60.1	84.6	109.1
165°	6.7	28.9	51.2	69.0	89.1
167.5°	6.7	22.3	42.3	53.4	73.5
170°	6.7	17.8	33.4	37.9	55.7
172.5°	6.7	13.4	24.5	26.7	28.9
175°	6.7	11.1	15.6	15.6	8.9
177.5°	6.7	8.9	8.9	8.9	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)