

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: P567519

Luminaire Tested: **8SNX-168HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567519
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-L935-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

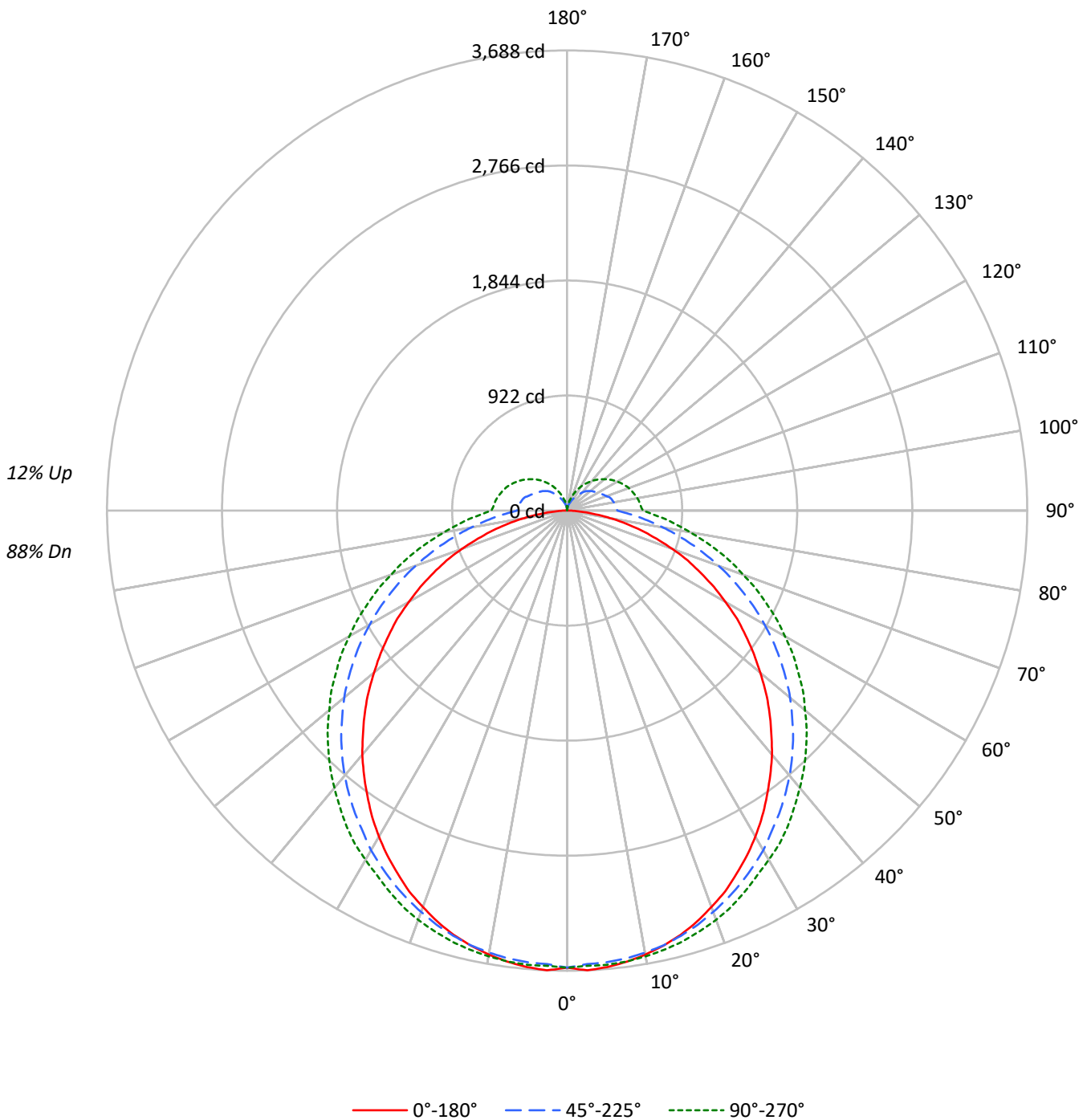
Lumens per Lamp: N/A
Luminaire Lumens: 13188.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	19715	19715	19715
5°	19803	18831	18653
10°	19675	18109	17737
15°	19496	17390	16900
20°	19217	16661	16092
25°	18887	15951	15264
30°	18528	15255	14502
35°	18076	14524	13818
40°	17637	13839	13074
45°	17108	13116	12366
50°	16495	12368	11612
55°	15907	11544	10866
60°	15227	10676	10063
65°	14398	9730	9233
70°	13345	8703	8333
75°	11852	7576	7472
80°	9765	6446	6486
85°	6758	5360	5662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.8	2.6
10°-20°	1000.3	7.6
20°-30°	1521.8	11.5
30°-40°	1850.4	14.0
40°-50°	1957.6	14.8
50°-60°	1835.0	13.9
60°-70°	1509.6	11.4
70°-80°	1044.5	7.9
80°-90°	580.8	4.4
90°-100°	382.7	2.9
100°-110°	343.1	2.6
110°-120°	284.0	2.2
120°-130°	219.6	1.7
130°-140°	155.4	1.2
140°-150°	93.8	0.7
150°-160°	45.0	0.3
160°-170°	14.7	0.1
170°-180°	1.8	0.0
0°-30°	2869.9	21.8
0°-40°	4720.3	35.8
0°-60°	8512.9	64.6
0°-90°	11647.9	88.3
90°-120°	1009.8	7.7
90°-150°	1478.5	11.2
90°-180°	1540.0	11.7
0°-180°	13188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3663	3663	3663	3663	3663	
5°	3672	3665	3634	3663	3654	349
15°	3519	3530	3528	3575	3575	992
25°	3211	3257	3295	3367	3370	1480
35°	2791	2866	2963	3058	3085	1747
45°	2294	2414	2561	2676	2708	1769
55°	1746	1902	2084	2216	2261	1563
65°	1181	1350	1561	1714	1762	1171
75°	614	793	1025	1188	1253	652
85°	136	336	569	727	790	156
90°	2	190	402	553	608	9
95°	2	181	391	535	587	2
105°	2	156	366	504	549	2
115°	4	136	309	447	497	4
125°	4	115	264	382	429	4
135°	4	90	221	314	352	3
145°	4	66	154	237	266	3
155°	7	45	95	151	176	3
165°	7	29	52	70	90	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°	3663.1	3663.1	3663.1	3663.1	3663.1
2.5°	3688.0	3676.7	3638.3	3663.1	3651.8
5°	3672.2	3665.4	3633.8	3663.1	3654.1
7.5°	3647.3	3645.0	3620.2	3654.1	3645.0
10°	3613.4	3617.9	3597.6	3633.8	3627.0
12.5°	3570.5	3577.3	3568.3	3608.9	3604.4
15°	3518.6	3529.9	3527.6	3575.0	3575.0
17.5°	3455.3	3471.2	3480.2	3534.4	3534.4
20°	3380.8	3405.7	3423.7	3482.4	3491.5
22.5°	3306.3	3335.6	3362.7	3423.7	3437.3
25°	3211.4	3256.6	3295.0	3367.3	3369.5
27.5°	3118.8	3168.5	3220.5	3290.5	3297.3
30°	3017.2	3080.5	3143.7	3211.4	3231.8
32.5°	2908.8	2978.8	3048.8	3139.2	3166.3
35°	2791.4	2865.9	2963.0	3057.9	3085.0
37.5°	2673.9	2757.5	2870.4	2967.5	2992.4
40°	2554.2	2646.8	2773.3	2872.7	2902.0
42.5°	2421.0	2533.9	2669.4	2775.6	2809.4
45°	2294.5	2414.2	2561.0	2676.2	2707.8
47.5°	2161.3	2287.8	2445.8	2567.8	2603.9
50°	2019.0	2163.5	2332.9	2454.9	2488.8
52.5°	1885.8	2032.6	2211.0	2337.4	2384.9
55°	1745.7	1901.6	2084.5	2215.5	2260.7
57.5°	1614.8	1763.8	1960.3	2091.3	2147.7
60°	1465.7	1630.6	1827.0	1969.3	2014.5
62.5°	1325.7	1492.8	1696.1	1842.9	1894.8
65°	1181.1	1350.5	1560.6	1714.1	1761.5
67.5°	1045.6	1212.8	1427.3	1578.6	1639.6
70°	896.6	1072.7	1291.8	1447.6	1499.6
72.5°	749.8	932.7	1156.3	1323.4	1382.1
75°	614.3	792.7	1025.3	1187.9	1253.4
77.5°	483.3	664.0	898.8	1066.0	1122.4
80°	352.3	542.0	781.4	946.3	1000.5
82.5°	232.6	431.4	668.5	833.3	892.1
85°	135.5	336.5	569.1	727.2	790.4
87.5°	58.7	255.2	476.5	632.4	684.3
90°	2.3	189.7	402.0	553.3	607.5
92.5°	2.3	185.2	393.0	542.0	594.0
95°	2.3	180.7	390.7	535.2	587.2
97.5°	2.3	178.4	386.2	530.7	580.4
100°	2.3	171.6	379.4	521.7	571.4
102.5°	2.3	162.6	372.6	512.7	560.1
105°	2.3	155.8	365.9	503.6	548.8
107.5°	2.3	149.1	354.6	492.3	537.5
110°	2.3	142.3	336.5	481.0	526.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	140.0	323.0	465.2	512.7
115°	4.5	135.5	309.4	447.2	496.8
117.5°	4.5	133.2	298.1	429.1	481.0
120°	4.5	126.5	286.8	413.3	463.0
122.5°	4.5	119.7	275.5	397.5	447.2
125°	4.5	115.2	264.2	381.7	429.1
127.5°	4.5	108.4	255.2	365.9	408.8
130°	4.5	103.9	243.9	347.8	390.7
132.5°	4.5	97.1	232.6	329.7	370.4
135°	4.5	90.3	221.3	313.9	352.3
137.5°	4.5	81.3	207.8	295.8	332.0
140°	4.5	74.5	189.7	277.8	311.7
142.5°	4.5	70.0	171.6	257.5	289.1
145°	4.5	65.5	153.6	237.1	266.5
147.5°	4.5	61.0	137.8	216.8	243.9
150°	4.5	54.2	122.0	198.7	221.3
152.5°	6.8	49.7	108.4	176.2	198.7
155°	6.8	45.2	94.9	151.3	176.2
157.5°	6.8	40.7	81.3	126.5	153.6
160°	6.8	36.1	70.0	103.9	131.0
162.5°	6.8	33.9	61.0	85.8	110.7
165°	6.8	29.4	51.9	70.0	90.3
167.5°	6.8	22.6	42.9	54.2	74.5
170°	6.8	18.1	33.9	38.4	56.5
172.5°	6.8	13.6	24.8	27.1	29.4
175°	6.8	11.3	15.8	15.8	9.0
177.5°	6.8	9.0	9.0	9.0	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)