

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: P567529

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567529
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-L950-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

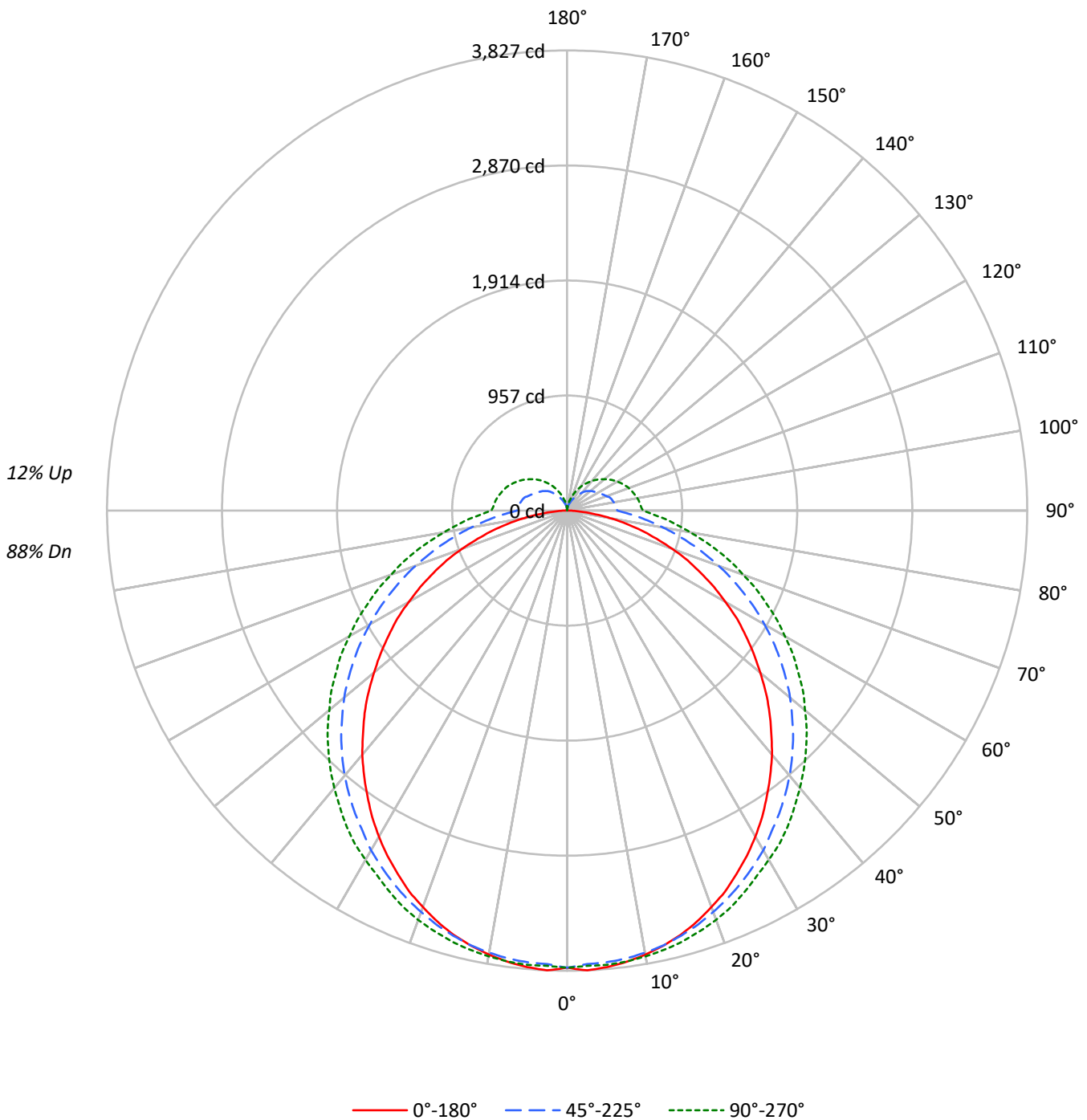
Lumens per Lamp: N/A
Luminaire Lumens: 13686.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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°	20459	20459	20459
5°	20569	19950	19909
10°	20456	19568	19432
15°	20289	19155	18983
20°	20019	18701	18515
25°	19695	18246	17981
30°	19343	17788	17490
35°	18895	17274	17067
40°	18462	16806	16548
45°	17938	16286	16057
50°	17329	15732	15494
55°	16751	15083	14933
60°	16083	14379	14287
65°	15269	13576	13599
70°	14235	12669	12806
75°	12762	11623	12080
80°	10702	10591	11162
85°	7762	9681	10564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	2.6
10°-20°	1038.1	7.6
20°-30°	1579.3	11.5
30°-40°	1920.2	14.0
40°-50°	2031.6	14.8
50°-60°	1904.3	13.9
60°-70°	1566.6	11.4
70°-80°	1084.0	7.9
80°-90°	602.7	4.4
90°-100°	397.1	2.9
100°-110°	356.1	2.6
110°-120°	294.7	2.2
120°-130°	227.8	1.7
130°-140°	161.3	1.2
140°-150°	97.3	0.7
150°-160°	46.7	0.3
160°-170°	15.3	0.1
170°-180°	1.9	0.0
0°-30°	2978.3	21.8
0°-40°	4898.5	35.8
0°-60°	8834.4	64.6
0°-90°	12087.7	88.3
90°-120°	1047.9	7.7
90°-150°	1534.4	11.2
90°-180°	1598.0	11.7
0°-180°	13686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3801	3801	3801	3801	3801	
5°	3811	3804	3771	3801	3792	362
15°	3651	3663	3661	3710	3710	1029
25°	3333	3380	3419	3494	3497	1536
35°	2897	2974	3075	3173	3202	1813
45°	2381	2505	2658	2777	2810	1835
55°	1812	1973	2163	2299	2346	1622
65°	1226	1402	1620	1779	1828	1215
75°	638	823	1064	1233	1301	676
85°	141	349	591	755	820	162
90°	2	197	417	574	630	9
95°	2	188	406	556	609	2
105°	2	162	380	523	570	2
115°	5	141	321	464	516	4
125°	5	120	274	396	445	4
135°	5	94	230	326	366	4
145°	5	68	159	246	277	3
155°	7	47	98	157	183	3
165°	7	30	54	73	94	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°	3801.4	3801.4	3801.4	3801.4	3801.4
2.5°	3827.2	3815.5	3775.7	3801.4	3789.7
5°	3810.8	3803.8	3771.0	3801.4	3792.1
7.5°	3785.0	3782.7	3756.9	3792.1	3782.7
10°	3749.9	3754.6	3733.5	3771.0	3763.9
12.5°	3705.4	3712.4	3703.0	3745.2	3740.5
15°	3651.4	3663.2	3660.8	3710.0	3710.0
17.5°	3585.8	3602.2	3611.6	3667.9	3667.9
20°	3508.5	3534.3	3553.0	3613.9	3623.3
22.5°	3431.1	3461.6	3489.7	3553.0	3567.1
25°	3332.7	3379.6	3419.4	3494.4	3496.8
27.5°	3236.6	3288.2	3342.1	3414.7	3421.8
30°	3131.2	3196.8	3262.4	3332.7	3353.8
32.5°	3018.7	3091.3	3164.0	3257.7	3285.8
35°	2896.8	2974.1	3074.9	3173.3	3201.5
37.5°	2774.9	2861.6	2978.8	3079.6	3105.4
40°	2650.7	2746.8	2878.0	2981.2	3011.6
42.5°	2512.4	2629.6	2770.2	2880.4	2915.5
45°	2381.2	2505.4	2657.7	2777.3	2810.1
47.5°	2242.9	2374.1	2538.2	2664.8	2702.3
50°	2095.2	2245.2	2421.0	2547.6	2582.7
52.5°	1957.0	2109.3	2294.5	2425.7	2474.9
55°	1811.7	1973.4	2163.2	2299.1	2346.0
57.5°	1675.7	1830.4	2034.3	2170.2	2228.8
60°	1521.0	1692.1	1896.0	2043.7	2090.6
62.5°	1375.7	1549.2	1760.1	1912.4	1966.3
65°	1225.7	1401.5	1619.5	1778.8	1828.1
67.5°	1085.1	1258.6	1481.2	1638.2	1701.5
70°	930.4	1113.2	1340.6	1502.3	1556.2
72.5°	778.1	967.9	1200.0	1373.4	1434.3
75°	637.5	822.6	1064.0	1232.8	1300.7
77.5°	501.5	689.0	932.8	1106.2	1164.8
80°	365.6	562.5	810.9	982.0	1038.2
82.5°	241.4	447.6	693.7	864.8	925.8
85°	140.6	349.2	590.6	754.7	820.3
87.5°	60.9	264.8	494.5	656.2	710.1
90°	2.3	196.9	417.2	574.2	630.4
92.5°	2.3	192.2	407.8	562.5	616.4
95°	2.3	187.5	405.5	555.5	609.4
97.5°	2.3	185.2	400.8	550.8	602.3
100°	2.3	178.1	393.7	541.4	592.9
102.5°	2.3	168.7	386.7	532.0	581.2
105°	2.3	161.7	379.7	522.6	569.5
107.5°	2.3	154.7	368.0	510.9	557.8
110°	2.3	147.7	349.2	499.2	546.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	145.3	335.1	482.8	532.0
115°	4.7	140.6	321.1	464.0	515.6
117.5°	4.7	138.3	309.4	445.3	499.2
120°	4.7	131.2	297.6	428.9	480.5
122.5°	4.7	124.2	285.9	412.5	464.0
125°	4.7	119.5	274.2	396.1	445.3
127.5°	4.7	112.5	264.8	379.7	424.2
130°	4.7	107.8	253.1	360.9	405.5
132.5°	4.7	100.8	241.4	342.2	384.4
135°	4.7	93.7	229.7	325.8	365.6
137.5°	4.7	84.4	215.6	307.0	344.5
140°	4.7	77.3	196.9	288.3	323.4
142.5°	4.7	72.7	178.1	267.2	300.0
145°	4.7	68.0	159.4	246.1	276.6
147.5°	4.7	63.3	143.0	225.0	253.1
150°	4.7	56.2	126.6	206.2	229.7
152.5°	7.0	51.6	112.5	182.8	206.2
155°	7.0	46.9	98.4	157.0	182.8
157.5°	7.0	42.2	84.4	131.2	159.4
160°	7.0	37.5	72.7	107.8	135.9
162.5°	7.0	35.2	63.3	89.1	114.8
165°	7.0	30.5	53.9	72.7	93.7
167.5°	7.0	23.4	44.5	56.2	77.3
170°	7.0	18.7	35.2	39.8	58.6
172.5°	7.0	14.1	25.8	28.1	30.5
175°	7.0	11.7	16.4	16.4	9.4
177.5°	7.0	9.4	9.4	9.4	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)