

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: P567513

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-168HL-LN-UNV-L950-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

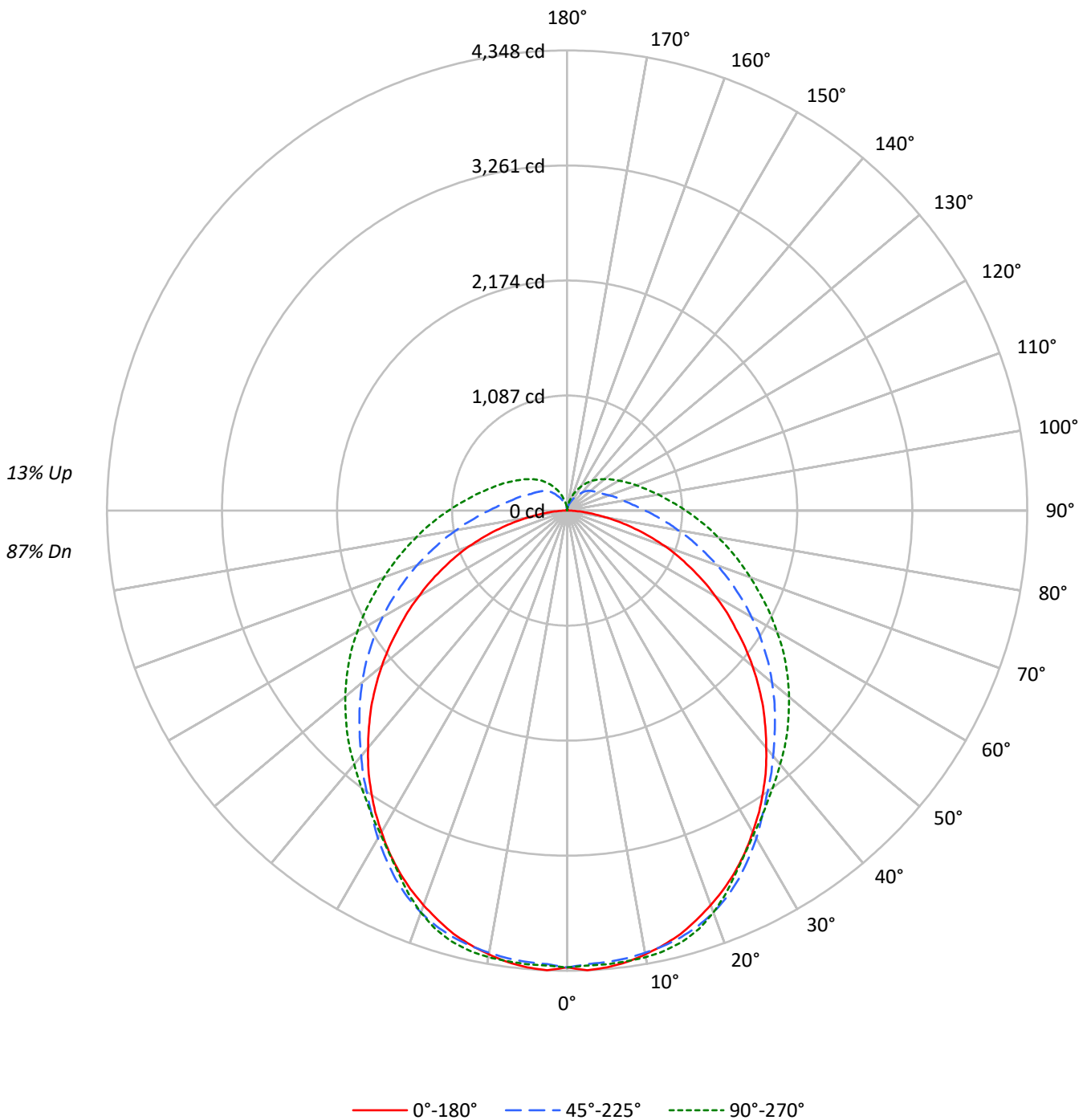
Lumens per Lamp: N/A
Luminaire Lumens: 15581.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23230	23230	23230
5°	23362	22189	21966
10°	23185	21354	20952
15°	22950	20561	19930
20°	22552	19667	18627
25°	22122	18580	17100
30°	21541	17356	15824
35°	20920	16107	14873
40°	20209	15106	14103
45°	19517	14218	13438
50°	18689	13401	12768
55°	17716	12581	12113
60°	16795	11762	11427
65°	15778	10936	10799
70°	14625	10162	10231
75°	12792	9407	9763
80°	10397	8760	9367
85°	7511	8310	9139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	2.6
10°-20°	1178.9	7.6
20°-30°	1755.5	11.3
30°-40°	2071.4	13.3
40°-50°	2160.2	13.9
50°-60°	2030.0	13.0
60°-70°	1714.4	11.0
70°-80°	1295.3	8.3
80°-90°	892.9	5.7
90°-100°	624.8	4.0
100°-110°	466.3	3.0
110°-120°	351.5	2.3
120°-130°	262.1	1.7
130°-140°	184.0	1.2
140°-150°	111.3	0.7
150°-160°	53.2	0.3
160°-170°	17.0	0.1
170°-180°	2.0	0.0
0°-30°	3344.4	21.5
0°-40°	5415.8	34.8
0°-60°	9606.0	61.7
0°-90°	13508.6	86.7
90°-120°	1442.6	9.3
90°-150°	2000.1	12.8
90°-180°	2072.0	13.3
0°-180°	15581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4316	4316	4316	4316	4316	
5°	4332	4324	4282	4314	4303	411
15°	4142	4160	4171	4224	4216	1166
25°	3762	3838	3838	3804	3775	1731
35°	3231	3349	3286	3312	3320	2020
45°	2618	2747	2776	2890	2943	2016
55°	1944	2111	2272	2454	2520	1744
65°	1294	1500	1754	1984	2060	1285
75°	663	919	1273	1540	1638	706
85°	151	473	882	1173	1276	169
90°	3	336	737	1020	1120	10
95°	3	262	623	893	985	2
105°	5	188	481	697	777	5
115°	5	161	372	555	626	6
125°	8	137	314	454	512	7
135°	8	106	262	370	415	6
145°	11	77	182	283	317	6
155°	11	50	111	180	209	5
165°	13	32	58	79	106	4
175°	13	13	16	16	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4316.2	4316.2	4316.2	4316.2	4316.2
2.5°	4347.9	4337.4	4289.8	4316.2	4303.0
5°	4332.1	4324.2	4281.9	4313.6	4303.0
7.5°	4303.0	4300.4	4268.7	4305.7	4295.1
10°	4258.1	4266.0	4242.3	4292.5	4284.5
12.5°	4205.3	4221.1	4213.2	4268.7	4260.8
15°	4141.9	4160.4	4170.9	4223.8	4215.8
17.5°	4057.4	4091.7	4115.5	4157.7	4144.5
20°	3967.5	4015.1	4041.5	4062.6	4041.5
22.5°	3869.8	3933.2	3949.1	3938.5	3917.4
25°	3761.5	3838.1	3838.1	3803.8	3774.7
27.5°	3640.0	3735.1	3708.7	3669.1	3645.3
30°	3507.9	3621.5	3576.6	3531.7	3526.4
32.5°	3375.8	3494.7	3428.7	3418.1	3426.0
35°	3230.6	3349.4	3286.0	3312.5	3320.4
37.5°	3085.3	3204.2	3161.9	3201.5	3225.3
40°	2926.8	3053.6	3027.2	3098.5	3130.2
42.5°	2770.9	2903.0	2900.4	2992.8	3040.4
45°	2617.7	2747.2	2776.2	2889.8	2942.6
47.5°	2451.3	2583.4	2654.7	2786.8	2839.6
50°	2287.5	2430.2	2527.9	2675.8	2736.6
52.5°	2118.5	2269.1	2403.8	2567.5	2630.9
55°	1944.2	2110.6	2271.7	2454.0	2520.0
57.5°	1788.3	1957.4	2147.5	2335.1	2411.7
60°	1616.6	1804.2	2012.8	2210.9	2287.5
62.5°	1460.8	1653.6	1886.0	2094.7	2176.6
65°	1294.3	1500.4	1754.0	1983.8	2060.4
67.5°	1141.1	1352.5	1629.8	1862.3	1946.8
70°	982.6	1207.2	1508.3	1754.0	1841.1
72.5°	818.9	1056.6	1386.8	1648.3	1738.1
75°	663.0	919.2	1273.2	1540.0	1637.7
77.5°	517.7	787.2	1170.2	1444.9	1540.0
80°	375.1	668.3	1061.9	1347.2	1444.9
82.5°	248.3	565.3	974.7	1260.0	1363.0
85°	150.6	472.8	882.3	1172.8	1275.8
87.5°	68.7	396.2	808.3	1096.2	1196.6
90°	2.6	335.5	737.0	1019.6	1120.0
92.5°	2.6	293.2	678.9	953.6	1051.3
95°	2.6	261.5	623.4	892.8	985.3
97.5°	2.6	240.4	581.1	834.7	924.5
100°	2.6	219.2	538.9	781.9	874.3
102.5°	5.3	200.8	507.2	734.3	821.5
105°	5.3	187.5	480.8	697.4	776.6
107.5°	5.3	179.6	451.7	660.4	734.3
110°	5.3	171.7	420.0	623.4	697.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	166.4	396.2	591.7	663.0
115°	5.3	161.1	372.5	554.7	626.0
117.5°	5.3	158.5	359.2	525.7	594.3
120°	7.9	150.6	343.4	499.2	565.3
122.5°	7.9	142.6	327.5	478.1	536.2
125°	7.9	137.4	314.3	454.3	512.5
127.5°	7.9	129.4	301.1	433.2	486.0
130°	7.9	121.5	290.6	412.1	462.3
132.5°	7.9	113.6	277.4	390.9	438.5
135°	7.9	105.7	261.5	369.8	414.7
137.5°	7.9	97.7	245.7	348.7	390.9
140°	7.9	89.8	224.5	327.5	367.2
142.5°	7.9	81.9	203.4	306.4	340.8
145°	10.6	76.6	182.3	282.6	317.0
147.5°	10.6	68.7	161.1	258.9	287.9
150°	10.6	63.4	145.3	235.1	261.5
152.5°	10.6	55.5	129.4	208.7	235.1
155°	10.6	50.2	110.9	179.6	208.7
157.5°	10.6	44.9	95.1	150.6	182.3
160°	10.6	42.3	81.9	124.2	155.8
162.5°	13.2	37.0	68.7	100.4	129.4
165°	13.2	31.7	58.1	79.2	105.7
167.5°	13.2	26.4	47.5	60.8	81.9
170°	13.2	21.1	37.0	42.3	63.4
172.5°	13.2	15.8	26.4	29.1	31.7
175°	13.2	13.2	15.8	15.8	7.9
177.5°	13.2	13.2	10.6	7.9	2.6
180°	7.9	7.9	7.9	7.9	7.9

(END OF REPORT)