

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: P567506

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567506
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-L830-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

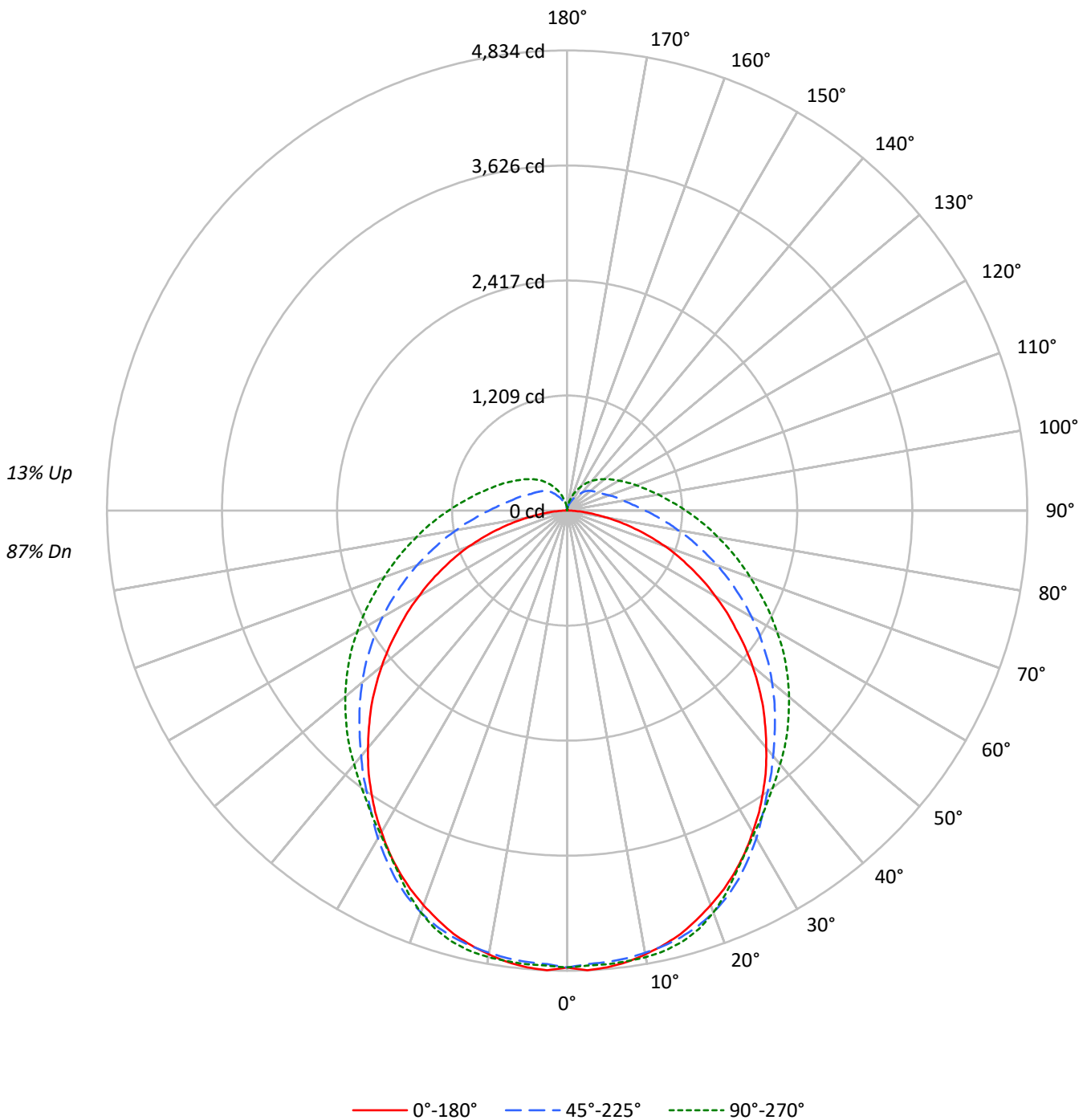
Lumens per Lamp: N/A
Luminaire Lumens: 17323.0 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	25827	25827	25827
5°	25973	24670	24422
10°	25778	23741	23295
15°	25516	22860	22158
20°	25074	21866	20710
25°	24596	20657	19011
30°	23949	19296	17594
35°	23259	17908	16535
40°	22469	16795	15679
45°	21700	15808	14940
50°	20779	14900	14196
55°	19696	13988	13467
60°	18672	13077	12705
65°	17543	12158	12006
70°	16261	11298	11375
75°	14222	10460	10855
80°	11559	9739	10414
85°	8349	9238	10161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.9	2.6
10°-20°	1310.7	7.6
20°-30°	1951.7	11.3
30°-40°	2303.0	13.3
40°-50°	2401.7	13.9
50°-60°	2257.0	13.0
60°-70°	1906.0	11.0
70°-80°	1440.2	8.3
80°-90°	992.7	5.7
90°-100°	694.7	4.0
100°-110°	518.4	3.0
110°-120°	390.8	2.3
120°-130°	291.5	1.7
130°-140°	204.6	1.2
140°-150°	123.7	0.7
150°-160°	59.1	0.3
160°-170°	19.0	0.1
170°-180°	2.3	0.0
0°-30°	3718.3	21.5
0°-40°	6021.3	34.8
0°-60°	10680.0	61.7
0°-90°	15019.0	86.7
90°-120°	1603.9	9.3
90°-150°	2223.7	12.8
90°-180°	2304.0	13.3
0°-180°	17323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4799	4799	4799	4799	4799	
5°	4816	4808	4761	4796	4784	457
15°	4605	4626	4637	4696	4687	1297
25°	4182	4267	4267	4229	4197	1924
35°	3592	3724	3653	3683	3692	2246
45°	2910	3054	3087	3213	3272	2241
55°	2162	2346	2526	2728	2802	1939
65°	1439	1668	1950	2206	2291	1429
75°	737	1022	1416	1712	1821	785
85°	167	526	981	1304	1418	188
90°	3	373	819	1134	1245	12
95°	3	291	693	993	1095	2
105°	6	208	534	775	863	6
115°	6	179	414	617	696	6
125°	9	153	350	505	570	8
135°	9	118	291	411	461	7
145°	12	85	203	314	352	7
155°	12	56	123	200	232	5
165°	15	35	65	88	118	4
175°	15	15	18	18	9	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4798.8	4798.8	4798.8	4798.8	4798.8
2.5°	4834.0	4822.3	4769.4	4798.8	4784.1
5°	4816.4	4807.6	4760.6	4795.9	4784.1
7.5°	4784.1	4781.2	4745.9	4787.0	4775.3
10°	4734.2	4743.0	4716.6	4772.4	4763.6
12.5°	4675.4	4693.1	4684.3	4745.9	4737.1
15°	4605.0	4625.5	4637.3	4696.0	4687.2
17.5°	4511.0	4549.2	4575.6	4622.6	4607.9
20°	4411.1	4464.0	4493.4	4516.9	4493.4
22.5°	4302.5	4373.0	4390.6	4378.8	4355.3
25°	4182.1	4267.2	4267.2	4229.0	4196.7
27.5°	4047.0	4152.7	4123.3	4079.3	4052.8
30°	3900.1	4026.4	3976.5	3926.6	3920.7
32.5°	3753.3	3885.4	3812.0	3800.3	3809.1
35°	3591.8	3723.9	3653.4	3682.8	3691.6
37.5°	3430.2	3562.4	3515.4	3559.4	3585.9
40°	3254.0	3395.0	3365.6	3444.9	3480.2
42.5°	3080.7	3227.6	3224.6	3327.4	3380.3
45°	2910.4	3054.3	3086.6	3212.9	3271.6
47.5°	2725.4	2872.2	2951.5	3098.4	3157.1
50°	2543.3	2701.9	2810.6	2975.0	3042.6
52.5°	2355.3	2522.7	2672.5	2854.6	2925.1
55°	2161.5	2346.5	2525.7	2728.3	2801.7
57.5°	1988.2	2176.2	2387.6	2596.2	2681.3
60°	1797.3	2005.9	2237.9	2458.1	2543.3
62.5°	1624.1	1838.5	2096.9	2328.9	2420.0
65°	1439.1	1668.1	1950.1	2205.6	2290.7
67.5°	1268.7	1503.7	1812.0	2070.5	2164.4
70°	1092.5	1342.1	1676.9	1950.1	2047.0
72.5°	910.4	1174.7	1541.8	1832.6	1932.4
75°	737.1	1022.0	1415.6	1712.2	1820.8
77.5°	575.6	875.2	1301.0	1606.5	1712.2
80°	417.0	743.0	1180.6	1497.8	1606.5
82.5°	276.1	628.5	1083.7	1400.9	1515.4
85°	167.4	525.7	980.9	1304.0	1418.5
87.5°	76.4	440.5	898.7	1218.8	1330.4
90°	2.9	373.0	819.4	1133.6	1245.2
92.5°	2.9	326.0	754.8	1060.2	1168.9
95°	2.9	290.7	693.1	992.7	1095.4
97.5°	2.9	267.3	646.1	928.0	1027.9
100°	2.9	243.8	599.1	869.3	972.1
102.5°	5.9	223.2	563.9	816.4	913.4
105°	5.9	208.5	534.5	775.3	863.4
107.5°	5.9	199.7	502.2	734.2	816.4
110°	5.9	190.9	467.0	693.1	775.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.9	185.0	440.5	657.9	737.1
115°	5.9	179.1	414.1	616.7	696.0
117.5°	5.9	176.2	399.4	584.4	660.8
120°	8.8	167.4	381.8	555.1	628.5
122.5°	8.8	158.6	364.2	531.6	596.2
125°	8.8	152.7	349.5	505.1	569.7
127.5°	8.8	143.9	334.8	481.6	540.4
130°	8.8	135.1	323.1	458.1	513.9
132.5°	8.8	126.3	308.4	434.7	487.5
135°	8.8	117.5	290.7	411.2	461.1
137.5°	8.8	108.7	273.1	387.7	434.7
140°	8.8	99.9	249.6	364.2	408.2
142.5°	8.8	91.0	226.1	340.7	378.9
145°	11.7	85.2	202.6	314.2	352.4
147.5°	11.7	76.4	179.1	287.8	320.1
150°	11.7	70.5	161.5	261.4	290.7
152.5°	11.7	61.7	143.9	232.0	261.4
155°	11.7	55.8	123.3	199.7	232.0
157.5°	11.7	49.9	105.7	167.4	202.6
160°	11.7	47.0	91.0	138.0	173.3
162.5°	14.7	41.1	76.4	111.6	143.9
165°	14.7	35.2	64.6	88.1	117.5
167.5°	14.7	29.4	52.9	67.5	91.0
170°	14.7	23.5	41.1	47.0	70.5
172.5°	14.7	17.6	29.4	32.3	35.2
175°	14.7	14.7	17.6	17.6	8.8
177.5°	14.7	14.7	11.7	8.8	2.9
180°	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)