

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: P567466

Luminaire Tested: **8SNX-162HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567466
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-162HL-LW-UNV-L830-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

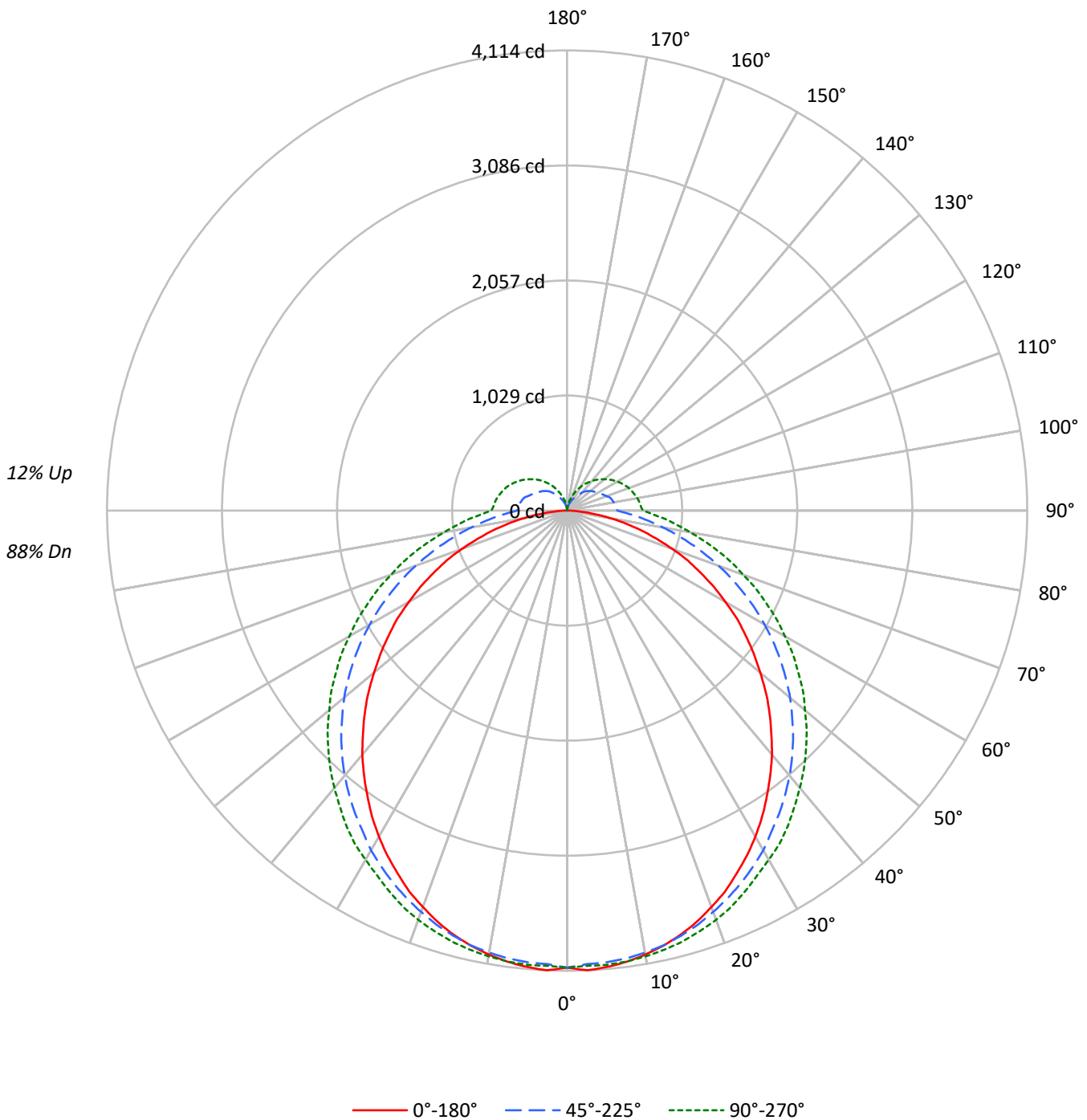
Lumens per Lamp: N/A
Luminaire Lumens: 14711.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 110.2
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°	21991	21991	21991
5°	22090	21005	20808
10°	21947	20200	19784
15°	21747	19398	18852
20°	21436	18585	17951
25°	21068	17793	17027
30°	20668	17016	16177
35°	20163	16201	15414
40°	19674	15437	14585
45°	19083	14631	13794
50°	18400	13796	12953
55°	17744	12877	12121
60°	16986	11909	11225
65°	16061	10853	10299
70°	14885	9708	9296
75°	13220	8451	8335
80°	10893	7190	7235
85°	7541	5979	6316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	2.6
10°-20°	1115.9	7.6
20°-30°	1697.5	11.5
30°-40°	2064.0	14.0
40°-50°	2183.7	14.8
50°-60°	2046.9	13.9
60°-70°	1683.9	11.4
70°-80°	1165.1	7.9
80°-90°	647.9	4.4
90°-100°	426.8	2.9
100°-110°	382.8	2.6
110°-120°	316.8	2.2
120°-130°	244.9	1.7
130°-140°	173.4	1.2
140°-150°	104.6	0.7
150°-160°	50.2	0.3
160°-170°	16.4	0.1
170°-180°	2.0	0.0
0°-30°	3201.3	21.8
0°-40°	5265.4	35.8
0°-60°	9496.0	64.6
0°-90°	12993.0	88.3
90°-120°	1126.4	7.7
90°-150°	1649.3	11.2
90°-180°	1718.0	11.7
0°-180°	14711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4086	4086	4086	4086	4086	
5°	4096	4089	4053	4086	4076	389
15°	3925	3938	3935	3988	3988	1106
25°	3582	3633	3676	3756	3759	1651
35°	3114	3197	3305	3411	3441	1949
45°	2560	2693	2857	2985	3020	1973
55°	1947	2121	2325	2471	2522	1743
65°	1318	1506	1741	1912	1965	1306
75°	685	884	1144	1325	1398	727
85°	151	375	635	811	882	174
90°	2	212	448	617	678	10
95°	2	202	436	597	655	2
105°	2	174	408	562	612	3
115°	5	151	345	499	554	4
125°	5	128	295	426	479	4
135°	5	101	247	350	393	4
145°	5	73	171	264	297	3
155°	8	50	106	169	196	3
165°	8	33	58	78	101	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4086.1	4086.1	4086.1	4086.1	4086.1
2.5°	4113.9	4101.3	4058.4	4086.1	4073.6
5°	4096.2	4088.7	4053.4	4086.1	4076.1
7.5°	4068.5	4066.0	4038.3	4076.1	4066.0
10°	4030.7	4035.8	4013.1	4053.4	4045.8
12.5°	3982.9	3990.4	3980.3	4025.7	4020.6
15°	3924.9	3937.5	3935.0	3987.9	3987.9
17.5°	3854.4	3872.0	3882.1	3942.6	3942.6
20°	3771.2	3799.0	3819.1	3884.6	3894.7
22.5°	3688.1	3720.9	3751.1	3819.1	3834.2
25°	3582.3	3632.7	3675.5	3756.1	3758.7
27.5°	3479.0	3534.4	3592.4	3670.5	3678.0
30°	3365.7	3436.2	3506.7	3582.3	3605.0
32.5°	3244.7	3322.8	3400.9	3501.7	3531.9
35°	3113.7	3196.9	3305.2	3411.0	3441.2
37.5°	2982.7	3075.9	3201.9	3310.2	3337.9
40°	2849.2	2952.5	3093.6	3204.4	3237.2
42.5°	2700.6	2826.5	2977.7	3096.1	3133.9
45°	2559.5	2693.0	2856.8	2985.3	3020.5
47.5°	2410.9	2552.0	2728.3	2864.3	2904.6
50°	2252.2	2413.4	2602.3	2738.4	2776.2
52.5°	2103.5	2267.3	2466.3	2607.4	2660.3
55°	1947.3	2121.2	2325.2	2471.3	2521.7
57.5°	1801.2	1967.5	2186.7	2332.8	2395.8
60°	1635.0	1818.9	2038.0	2196.7	2247.1
62.5°	1478.8	1665.2	1891.9	2055.7	2113.6
65°	1317.5	1506.5	1740.8	1912.1	1965.0
67.5°	1166.4	1352.8	1592.1	1760.9	1828.9
70°	1000.1	1196.6	1441.0	1614.8	1672.8
72.5°	836.4	1040.4	1289.8	1476.3	1541.8
75°	685.2	884.2	1143.7	1325.1	1398.2
77.5°	539.1	740.6	1002.6	1189.1	1252.0
80°	393.0	604.6	871.6	1055.5	1116.0
82.5°	259.5	481.2	745.7	929.6	995.1
85°	151.2	375.4	634.8	811.2	881.7
87.5°	65.5	284.7	531.6	705.4	763.3
90°	2.5	211.6	448.4	617.2	677.7
92.5°	2.5	206.6	438.3	604.6	662.6
95°	2.5	201.5	435.8	597.1	655.0
97.5°	2.5	199.0	430.8	592.0	647.4
100°	2.5	191.5	423.2	581.9	637.4
102.5°	2.5	181.4	415.7	571.9	624.8
105°	2.5	173.8	408.1	561.8	612.2
107.5°	2.5	166.3	395.5	549.2	599.6
110°	2.5	158.7	375.4	536.6	587.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	156.2	360.2	519.0	571.9
115°	5.0	151.2	345.1	498.8	554.2
117.5°	5.0	148.6	332.5	478.6	536.6
120°	5.0	141.1	319.9	461.0	516.4
122.5°	5.0	133.5	307.3	443.4	498.8
125°	5.0	128.5	294.7	425.7	478.6
127.5°	5.0	120.9	284.7	408.1	456.0
130°	5.0	115.9	272.1	388.0	435.8
132.5°	5.0	108.3	259.5	367.8	413.1
135°	5.0	100.8	246.9	350.2	393.0
137.5°	5.0	90.7	231.8	330.0	370.3
140°	5.0	83.1	211.6	309.9	347.6
142.5°	5.0	78.1	191.5	287.2	322.5
145°	5.0	73.1	171.3	264.5	297.3
147.5°	5.0	68.0	153.7	241.8	272.1
150°	5.0	60.5	136.0	221.7	246.9
152.5°	7.6	55.4	120.9	196.5	221.7
155°	7.6	50.4	105.8	168.8	196.5
157.5°	7.6	45.3	90.7	141.1	171.3
160°	7.6	40.3	78.1	115.9	146.1
162.5°	7.6	37.8	68.0	95.7	123.4
165°	7.6	32.7	57.9	78.1	100.8
167.5°	7.6	25.2	47.9	60.5	83.1
170°	7.6	20.2	37.8	42.8	63.0
172.5°	7.6	15.1	27.7	30.2	32.7
175°	7.6	12.6	17.6	17.6	10.1
177.5°	7.6	10.1	10.1	10.1	5.0
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)