

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: P567471

Luminaire Tested: **8SNX-162HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567471
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-L935-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

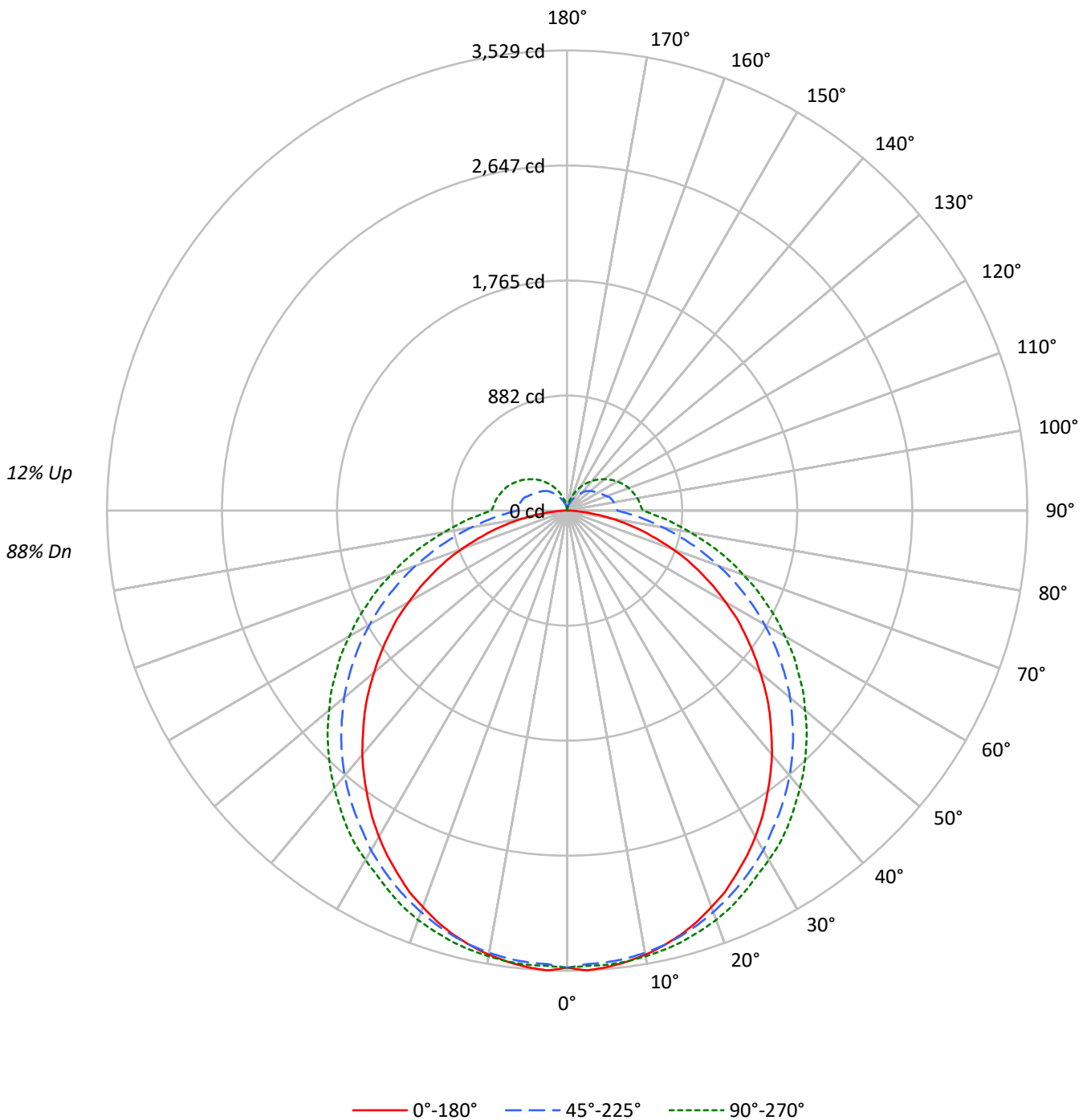
Lumens per Lamp: N/A
Luminaire Lumens: 12621.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	18867	18867	18867
5°	18952	18021	17851
10°	18829	17330	16974
15°	18658	16642	16174
20°	18391	15944	15400
25°	18075	15265	14608
30°	17731	14599	13878
35°	17299	13899	13224
40°	16878	13244	12513
45°	16372	12552	11834
50°	15786	11836	11113
55°	15223	11048	10399
60°	14573	10217	9631
65°	13780	9312	8836
70°	12770	8329	7975
75°	11343	7250	7151
80°	9347	6169	6207
85°	6469	5129	5419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	2.6
10°-20°	957.3	7.6
20°-30°	1456.4	11.5
30°-40°	1770.8	14.0
40°-50°	1873.5	14.8
50°-60°	1756.1	13.9
60°-70°	1444.7	11.4
70°-80°	999.6	7.9
80°-90°	555.8	4.4
90°-100°	366.2	2.9
100°-110°	328.4	2.6
110°-120°	271.8	2.2
120°-130°	210.1	1.7
130°-140°	148.7	1.2
140°-150°	89.7	0.7
150°-160°	43.1	0.3
160°-170°	14.1	0.1
170°-180°	1.7	0.0
0°-30°	2746.5	21.8
0°-40°	4517.3	35.8
0°-60°	8146.9	64.6
0°-90°	11147.1	88.3
90°-120°	966.4	7.7
90°-150°	1414.9	11.2
90°-180°	1474.0	11.7
0°-180°	12621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3506	3506	3506	3506	3506	
5°	3514	3508	3478	3506	3497	334
15°	3367	3378	3376	3421	3421	949
25°	3073	3117	3153	3222	3225	1417
35°	2671	2743	2836	2926	2952	1672
45°	2196	2310	2451	2561	2591	1693
55°	1671	1820	1995	2120	2164	1496
65°	1130	1292	1494	1640	1686	1121
75°	588	759	981	1137	1200	624
85°	130	322	545	696	756	149
90°	2	182	385	530	581	9
95°	2	173	374	512	562	2
105°	2	149	350	482	525	2
115°	4	130	296	428	476	3
125°	4	110	253	365	411	4
135°	4	86	212	300	337	3
145°	4	63	147	227	255	3
155°	6	43	91	145	169	3
165°	6	28	50	67	86	2
175°	6	11	15	15	9	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3505.6	3505.6	3505.6	3505.6	3505.6
2.5°	3529.4	3518.6	3481.9	3505.6	3494.8
5°	3514.3	3507.8	3477.5	3505.6	3497.0
7.5°	3490.5	3488.3	3464.6	3497.0	3488.3
10°	3458.1	3462.4	3442.9	3477.5	3471.0
12.5°	3417.0	3423.5	3414.9	3453.8	3449.4
15°	3367.3	3378.1	3375.9	3421.3	3421.3
17.5°	3306.8	3321.9	3330.6	3382.4	3382.4
20°	3235.5	3259.2	3276.5	3332.7	3341.4
22.5°	3164.1	3192.2	3218.2	3276.5	3289.5
25°	3073.4	3116.6	3153.3	3222.5	3224.7
27.5°	2984.8	3032.3	3082.0	3149.0	3155.5
30°	2887.5	2948.0	3008.5	3073.4	3092.8
32.5°	2783.8	2850.8	2917.8	3004.2	3030.1
35°	2671.4	2742.7	2835.6	2926.4	2952.3
37.5°	2559.0	2638.9	2747.0	2839.9	2863.7
40°	2444.4	2533.0	2654.1	2749.2	2777.3
42.5°	2316.9	2425.0	2554.7	2656.2	2688.7
45°	2195.9	2310.4	2450.9	2561.1	2591.4
47.5°	2068.4	2189.4	2340.7	2457.4	2492.0
50°	1932.2	2070.5	2232.6	2349.3	2381.8
52.5°	1804.7	1945.2	2115.9	2236.9	2282.3
55°	1670.7	1819.8	1994.9	2120.2	2163.5
57.5°	1545.3	1688.0	1876.0	2001.4	2055.4
60°	1402.7	1560.5	1748.5	1884.7	1927.9
62.5°	1268.7	1428.6	1623.1	1763.6	1813.3
65°	1130.4	1292.5	1493.5	1640.4	1685.8
67.5°	1000.7	1160.6	1365.9	1510.7	1569.1
70°	858.0	1026.6	1236.3	1385.4	1435.1
72.5°	717.6	892.6	1106.6	1266.5	1322.7
75°	587.9	758.6	981.2	1136.8	1199.5
77.5°	462.5	635.4	860.2	1020.1	1074.2
80°	337.2	518.7	747.8	905.6	957.5
82.5°	222.6	412.8	639.7	797.5	853.7
85°	129.7	322.0	544.6	695.9	756.5
87.5°	56.2	244.2	456.0	605.2	654.9
90°	2.2	181.5	384.7	529.5	581.4
92.5°	2.2	177.2	376.1	518.7	568.4
95°	2.2	172.9	373.9	512.2	561.9
97.5°	2.2	170.7	369.6	507.9	555.5
100°	2.2	164.3	363.1	499.3	546.8
102.5°	2.2	155.6	356.6	490.6	536.0
105°	2.2	149.1	350.1	482.0	525.2
107.5°	2.2	142.6	339.3	471.2	514.4
110°	2.2	136.2	322.0	460.4	503.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	134.0	309.1	445.2	490.6
115°	4.3	129.7	296.1	427.9	475.5
117.5°	4.3	127.5	285.3	410.6	460.4
120°	4.3	121.0	274.5	395.5	443.1
122.5°	4.3	114.5	263.7	380.4	427.9
125°	4.3	110.2	252.9	365.3	410.6
127.5°	4.3	103.7	244.2	350.1	391.2
130°	4.3	99.4	233.4	332.8	373.9
132.5°	4.3	92.9	222.6	315.5	354.5
135°	4.3	86.5	211.8	300.4	337.2
137.5°	4.3	77.8	198.8	283.1	317.7
140°	4.3	71.3	181.5	265.8	298.3
142.5°	4.3	67.0	164.3	246.4	276.6
145°	4.3	62.7	147.0	226.9	255.0
147.5°	4.3	58.4	131.8	207.5	233.4
150°	4.3	51.9	116.7	190.2	211.8
152.5°	6.5	47.5	103.7	168.6	190.2
155°	6.5	43.2	90.8	144.8	168.6
157.5°	6.5	38.9	77.8	121.0	147.0
160°	6.5	34.6	67.0	99.4	125.4
162.5°	6.5	32.4	58.4	82.1	105.9
165°	6.5	28.1	49.7	67.0	86.5
167.5°	6.5	21.6	41.1	51.9	71.3
170°	6.5	17.3	32.4	36.7	54.0
172.5°	6.5	13.0	23.8	25.9	28.1
175°	6.5	10.8	15.1	15.1	8.6
177.5°	6.5	8.6	8.6	8.6	4.3
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)