

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: P567453

Luminaire Tested: **8SNX-162HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-162HL-LC-UNV-L850-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

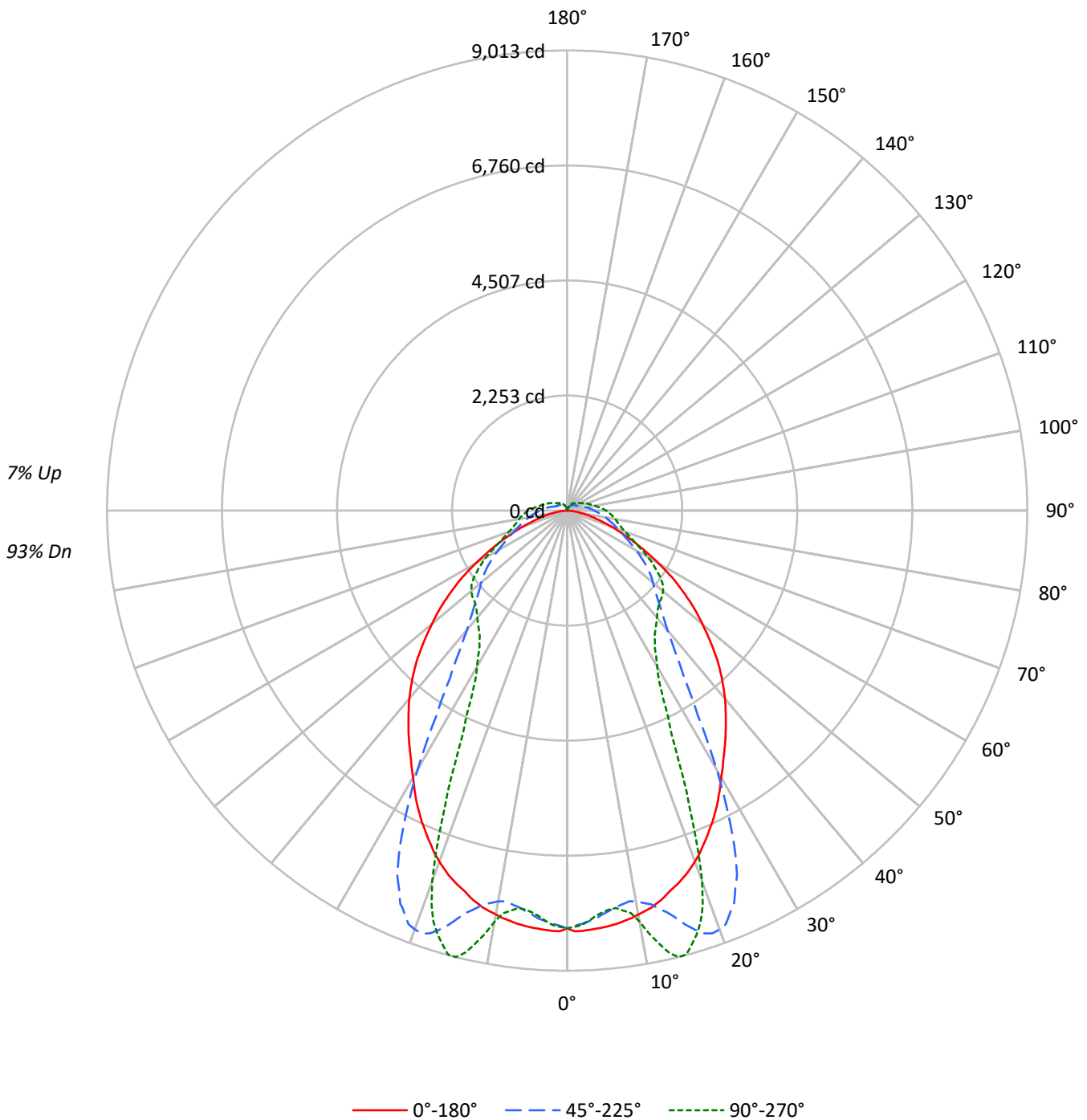
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18191.0 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: 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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44052	44052	44052
5°	44184	41164	40323
10°	43736	39130	39985
15°	42798	40747	42567
20°	41584	42480	35626
25°	39579	38117	21905
30°	37061	28397	15853
35°	35018	19604	13374
40°	33197	15218	12326
45°	31062	12958	11656
50°	28251	11632	11443
55°	25282	10521	10587
60°	21439	9105	9157
65°	17437	7931	7642
70°	13683	7129	6730
75°	10610	6628	6275
80°	7467	6278	6212
85°	4155	5990	6168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.6	4.2
10°-20°	2327.3	12.8
20°-30°	3133.7	17.2
30°-40°	2965.8	16.3
40°-50°	2617.7	14.4
50°-60°	2126.2	11.7
60°-70°	1446.0	7.9
70°-80°	930.4	5.1
80°-90°	618.7	3.4
90°-100°	425.2	2.3
100°-110°	285.4	1.6
110°-120°	201.3	1.1
120°-130°	143.8	0.8
130°-140°	101.5	0.6
140°-150°	63.0	0.3
150°-160°	30.7	0.2
160°-170°	10.8	0.1
170°-180°	1.9	0.0
0°-30°	6222.7	34.2
0°-40°	9188.4	50.5
0°-60°	13932.3	76.6
0°-90°	16927.4	93.1
90°-120°	911.9	5.0
90°-150°	1220.2	6.7
90°-180°	1264.0	6.9
0°-180°	18191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8185	8185	8185	8185	8185	
5°	8193	8118	7943	7938	7899	777
15°	7724	7674	8266	8996	9004	2178
25°	6730	7980	7874	5719	4836	3088
35°	5408	7588	4000	3080	2986	3384
45°	4166	5105	2530	2500	2552	3199
55°	2775	3019	1900	2122	2202	2478
65°	1430	1628	1272	1414	1458	1436
75°	550	769	897	1005	1053	598
85°	83	328	636	806	861	109
90°	3	228	530	714	761	5
95°	3	175	447	606	647	2
105°	6	122	294	414	464	6
115°	6	106	217	308	347	7
125°	8	89	186	233	250	8
135°	11	69	153	194	206	9
145°	11	50	108	150	164	8
155°	14	31	67	100	114	6
165°	14	19	36	50	61	4
175°	17	17	17	17	14	2
180°	14	14	14	14	14	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8185.1	8185.1	8185.1	8185.1	8185.1
1°	8240.6	8215.6	8132.3	8176.7	8154.5
2°	8237.8	8196.2	8101.7	8151.7	8124.0
3°	8223.9	8179.5	8057.3	8087.8	8046.2
4°	8210.1	8157.3	8010.1	8010.1	7962.9
5°	8193.4	8118.4	7943.4	7937.9	7899.0
6°	8173.9	8087.8	7885.1	7879.5	7857.3
7°	8146.2	8035.1	7821.2	7860.1	7843.4
8°	8112.8	7985.1	7787.9	7885.1	7910.1
9°	8082.3	7924.0	7749.0	7962.9	7982.3
10°	8032.3	7868.4	7774.0	8118.4	8176.7
11°	7990.6	7821.2	7829.5	8271.2	8446.1
12°	7949.0	7771.2	7882.3	8462.8	8676.7
13°	7879.5	7732.3	7999.0	8671.1	8890.5
14°	7818.4	7701.8	8112.8	8882.2	9012.7
15°	7724.0	7674.0	8265.6	8996.1	9004.4
16°	7660.1	7654.6	8443.4	9004.4	8848.9
17°	7587.9	7646.2	8587.8	8860.0	8676.7
18°	7507.4	7662.9	8707.2	8679.4	8468.4
19°	7415.7	7679.6	8757.2	8429.5	8157.3
20°	7315.7	7704.6	8729.4	8168.4	7729.6
21°	7215.7	7737.9	8676.7	7893.4	7168.5
22.5°	7029.6	7818.4	8426.7	7121.3	6240.9
23°	6976.9	7835.1	8368.4	6879.7	5999.2
24°	6846.3	7904.5	8101.7	6315.9	5360.4
25°	6729.7	7979.5	7874.0	5718.7	4835.5
26°	6599.1	8035.1	7529.6	5168.8	4513.3
27°	6471.4	8068.4	7138.0	4741.1	4152.2
28°	6324.2	8104.5	6713.0	4371.7	3880.1
29°	6185.3	8110.1	6293.6	4077.3	3666.2
30°	6035.3	8082.3	5852.0	3841.2	3532.9
32.5°	5707.6	7929.5	4771.6	3391.2	3199.6
35°	5407.6	7587.9	3999.5	3080.2	2985.7
37.5°	5104.9	7049.1	3457.9	2885.7	2855.2
40°	4807.7	6410.3	3049.6	2730.2	2735.8
42.5°	4493.9	5752.0	2769.1	2602.4	2627.4
45°	4166.1	5104.9	2530.2	2499.7	2552.4
47.5°	3802.3	4513.3	2341.4	2433.0	2513.6
50°	3457.9	3927.3	2194.2	2369.1	2452.5
52.5°	3130.2	3446.8	2060.8	2260.8	2358.0
55°	2774.6	3019.1	1899.8	2121.9	2202.5
57.5°	2435.8	2633.0	1730.3	1949.7	2022.0
60°	2063.6	2252.5	1558.1	1763.7	1833.1
62.5°	1727.6	1927.5	1410.9	1577.6	1633.1
65°	1430.4	1627.6	1272.1	1413.7	1458.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1166.5	1377.6	1158.2	1277.6	1319.3
70°	919.3	1141.5	1058.2	1166.5	1211.0
72.5°	719.4	944.3	974.9	1074.9	1119.3
75°	549.9	769.3	897.1	1005.4	1052.6
77.5°	408.3	627.7	824.9	949.9	999.9
80°	269.4	499.9	761.0	899.9	958.2
82.5°	169.4	402.7	697.1	849.9	911.0
85°	83.3	327.7	636.0	805.5	861.0
87.5°	27.8	272.2	580.5	761.0	808.2
90°	2.8	227.7	530.5	713.8	761.0
92.5°	2.8	197.2	488.8	658.2	705.5
95°	2.8	175.0	447.2	605.5	647.1
97.5°	2.8	158.3	408.3	549.9	594.4
100°	2.8	141.6	366.6	497.2	544.4
102.5°	5.6	130.5	330.5	452.7	502.7
105°	5.6	122.2	294.4	413.8	463.8
107.5°	5.6	116.7	263.9	383.3	430.5
110°	5.6	111.1	241.6	355.5	405.5
112.5°	5.6	108.3	227.7	330.5	377.7
115°	5.6	105.5	216.6	308.3	347.2
117.5°	8.3	102.8	208.3	286.1	316.6
120°	8.3	97.2	202.8	266.6	291.6
122.5°	8.3	91.7	194.4	250.0	269.4
125°	8.3	88.9	186.1	233.3	250.0
127.5°	8.3	83.3	177.8	219.4	236.1
130°	11.1	77.8	169.4	208.3	222.2
132.5°	11.1	72.2	161.1	202.8	213.9
135°	11.1	69.4	152.8	194.4	205.5
137.5°	11.1	63.9	144.4	186.1	197.2
140°	11.1	58.3	133.3	175.0	186.1
142.5°	11.1	55.5	122.2	163.9	175.0
145°	11.1	50.0	108.3	150.0	163.9
147.5°	13.9	47.2	97.2	138.9	150.0
150°	13.9	41.7	86.1	127.8	138.9
152.5°	13.9	36.1	75.0	113.9	125.0
155°	13.9	30.6	66.7	100.0	113.9
157.5°	13.9	27.8	58.3	83.3	100.0
160°	13.9	25.0	50.0	72.2	86.1
162.5°	13.9	22.2	44.4	61.1	75.0
165°	13.9	19.4	36.1	50.0	61.1
167.5°	16.7	19.4	30.6	38.9	50.0
170°	16.7	19.4	25.0	30.6	38.9
172.5°	16.7	16.7	19.4	22.2	25.0
175°	16.7	16.7	16.7	16.7	13.9
177.5°	16.7	16.7	16.7	13.9	13.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	13.9	13.9	13.9	13.9	13.9

(END OF REPORT)