

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: P567477

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567477
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-SLW-UNV-L850-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

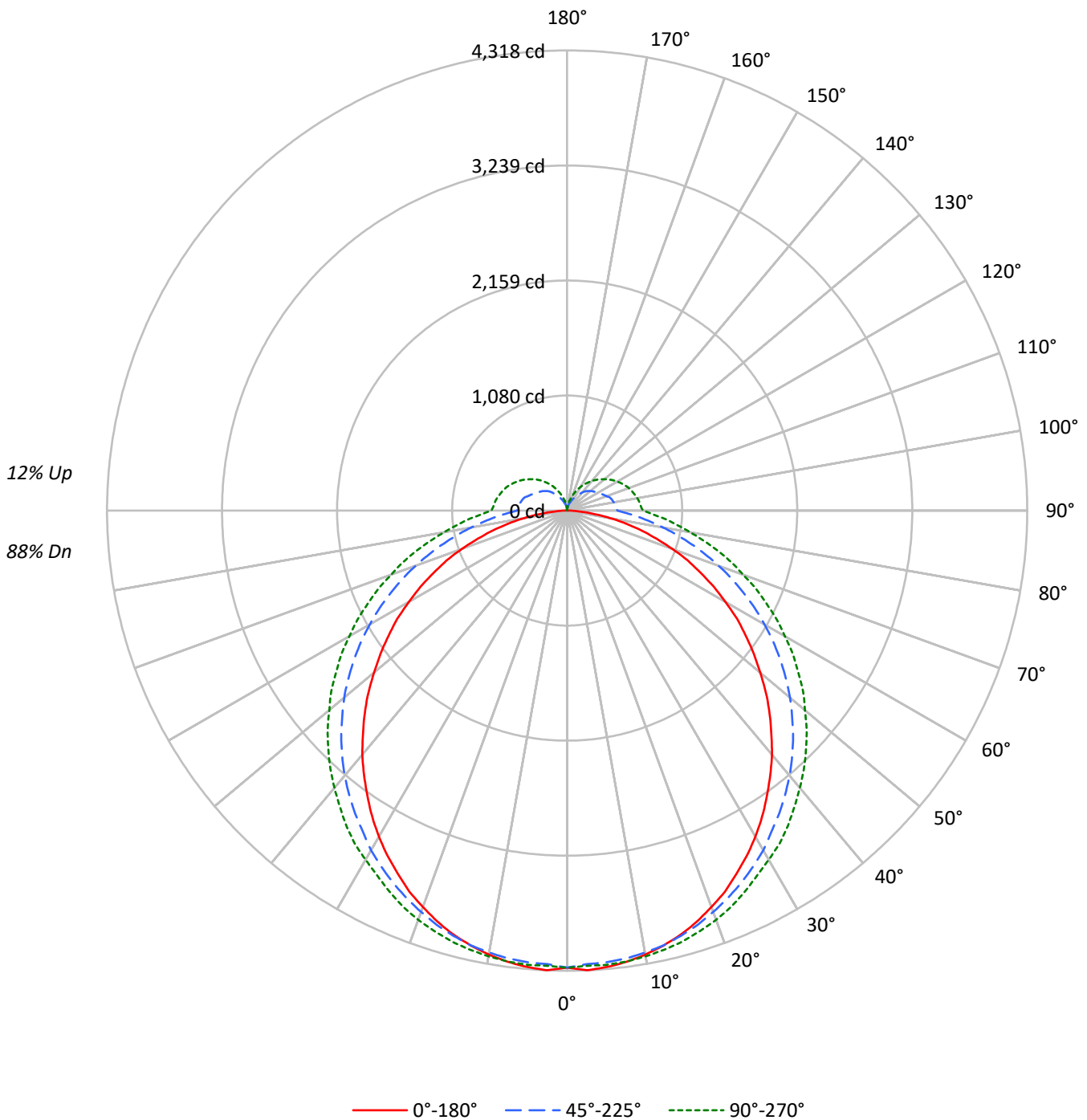
Lumens per Lamp: N/A
Luminaire Lumens: 15440.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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°	23081	23081	23081
5°	23205	22507	22460
10°	23077	22076	21923
15°	22889	21610	21416
20°	22584	21098	20888
25°	22219	20585	20286
30°	21822	20068	19731
35°	21316	19488	19254
40°	20828	18960	18669
45°	20236	18373	18115
50°	19550	17748	17480
55°	18897	17016	16847
60°	18145	16222	16118
65°	17226	15315	15341
70°	16060	14292	14447
75°	14398	13113	13628
80°	12074	11948	12593
85°	8755	10922	11918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	2.6
10°-20°	1171.2	7.6
20°-30°	1781.7	11.5
30°-40°	2166.3	14.0
40°-50°	2291.9	14.8
50°-60°	2148.4	13.9
60°-70°	1767.4	11.4
70°-80°	1222.9	7.9
80°-90°	680.0	4.4
90°-100°	448.0	2.9
100°-110°	401.7	2.6
110°-120°	332.5	2.2
120°-130°	257.1	1.7
130°-140°	182.0	1.2
140°-150°	109.8	0.7
150°-160°	52.7	0.3
160°-170°	17.3	0.1
170°-180°	2.1	0.0
0°-30°	3360.0	21.8
0°-40°	5526.3	35.8
0°-60°	9966.6	64.6
0°-90°	13636.9	88.3
90°-120°	1182.2	7.7
90°-150°	1731.0	11.2
90°-180°	1803.0	11.7
0°-180°	15440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4289	4289	4289	4289	4289	
5°	4299	4291	4254	4289	4278	408
15°	4119	4133	4130	4186	4186	1161
25°	3760	3813	3858	3942	3945	1733
35°	3268	3355	3469	3580	3612	2045
45°	2686	2826	2998	3133	3170	2071
55°	2044	2226	2440	2594	2647	1830
65°	1383	1581	1827	2007	2062	1371
75°	719	928	1200	1391	1467	763
85°	159	394	666	851	925	183
90°	3	222	471	648	711	10
95°	3	212	457	627	688	2
105°	3	182	428	590	642	3
115°	5	159	362	524	582	4
125°	5	135	309	447	502	5
135°	5	106	259	368	412	4
145°	5	77	180	278	312	3
155°	8	53	111	177	206	3
165°	8	34	61	82	106	2
175°	8	13	18	18	11	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4288.6	4288.6	4288.6	4288.6	4288.6
2.5°	4317.7	4304.5	4259.6	4288.6	4275.4
5°	4299.2	4291.3	4254.3	4288.6	4278.1
7.5°	4270.1	4267.5	4238.4	4278.1	4267.5
10°	4230.5	4235.8	4212.0	4254.3	4246.3
12.5°	4180.2	4188.2	4177.6	4225.2	4219.9
15°	4119.4	4132.6	4130.0	4185.5	4185.5
17.5°	4045.4	4063.9	4074.5	4137.9	4137.9
20°	3958.1	3987.2	4008.4	4077.1	4087.7
22.5°	3870.9	3905.2	3937.0	4008.4	4024.2
25°	3759.8	3812.7	3857.7	3942.3	3944.9
27.5°	3651.4	3709.6	3770.4	3852.4	3860.3
30°	3532.4	3606.5	3680.5	3759.8	3783.6
32.5°	3405.5	3487.5	3569.5	3675.2	3706.9
35°	3268.0	3355.3	3469.0	3580.0	3611.8
37.5°	3130.5	3228.4	3360.6	3474.3	3503.4
40°	2990.4	3098.8	3246.9	3363.2	3397.6
42.5°	2834.4	2966.6	3125.3	3249.5	3289.2
45°	2686.3	2826.5	2998.3	3133.2	3170.2
47.5°	2530.3	2678.4	2863.5	3006.3	3048.6
50°	2363.8	2533.0	2731.3	2874.1	2913.7
52.5°	2207.8	2379.6	2588.5	2736.6	2792.1
55°	2043.8	2226.3	2440.5	2593.8	2646.7
57.5°	1890.5	2065.0	2295.0	2448.4	2514.5
60°	1716.0	1909.0	2139.0	2305.6	2358.5
62.5°	1552.1	1747.7	1985.7	2157.5	2218.4
65°	1382.8	1581.1	1827.0	2006.8	2062.4
67.5°	1224.2	1419.9	1671.0	1848.2	1919.6
70°	1049.7	1255.9	1512.4	1694.8	1755.6
72.5°	877.8	1092.0	1353.7	1549.4	1618.2
75°	719.2	928.1	1200.4	1390.8	1467.4
77.5°	565.8	777.3	1052.3	1248.0	1314.1
80°	412.5	634.6	914.8	1107.9	1171.3
82.5°	272.3	505.0	782.6	975.7	1044.4
85°	158.6	394.0	666.3	851.4	925.4
87.5°	68.7	298.8	557.9	740.3	801.1
90°	2.6	222.1	470.6	647.8	711.2
92.5°	2.6	216.8	460.1	634.6	695.4
95°	2.6	211.5	457.4	626.6	687.5
97.5°	2.6	208.9	452.1	621.3	679.5
100°	2.6	200.9	444.2	610.8	668.9
102.5°	2.6	190.4	436.3	600.2	655.7
105°	2.6	182.4	428.3	589.6	642.5
107.5°	2.6	174.5	415.1	576.4	629.3
110°	2.6	166.6	394.0	563.2	616.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	163.9	378.1	544.7	600.2
115°	5.3	158.6	362.2	523.5	581.7
117.5°	5.3	156.0	349.0	502.4	563.2
120°	5.3	148.1	335.8	483.9	542.0
122.5°	5.3	140.1	322.6	465.4	523.5
125°	5.3	134.8	309.4	446.8	502.4
127.5°	5.3	126.9	298.8	428.3	478.6
130°	5.3	121.6	285.6	407.2	457.4
132.5°	5.3	113.7	272.3	386.0	433.6
135°	5.3	105.8	259.1	367.5	412.5
137.5°	5.3	95.2	243.3	346.4	388.7
140°	5.3	87.3	222.1	325.2	364.9
142.5°	5.3	82.0	200.9	301.4	338.4
145°	5.3	76.7	179.8	277.6	312.0
147.5°	5.3	71.4	161.3	253.8	285.6
150°	5.3	63.5	142.8	232.7	259.1
152.5°	7.9	58.2	126.9	206.2	232.7
155°	7.9	52.9	111.0	177.2	206.2
157.5°	7.9	47.6	95.2	148.1	179.8
160°	7.9	42.3	82.0	121.6	153.4
162.5°	7.9	39.7	71.4	100.5	129.6
165°	7.9	34.4	60.8	82.0	105.8
167.5°	7.9	26.4	50.2	63.5	87.3
170°	7.9	21.2	39.7	44.9	66.1
172.5°	7.9	15.9	29.1	31.7	34.4
175°	7.9	13.2	18.5	18.5	10.6
177.5°	7.9	10.6	10.6	10.6	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)