

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: P567461

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567461
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-162HL-LN-UNV-L850-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

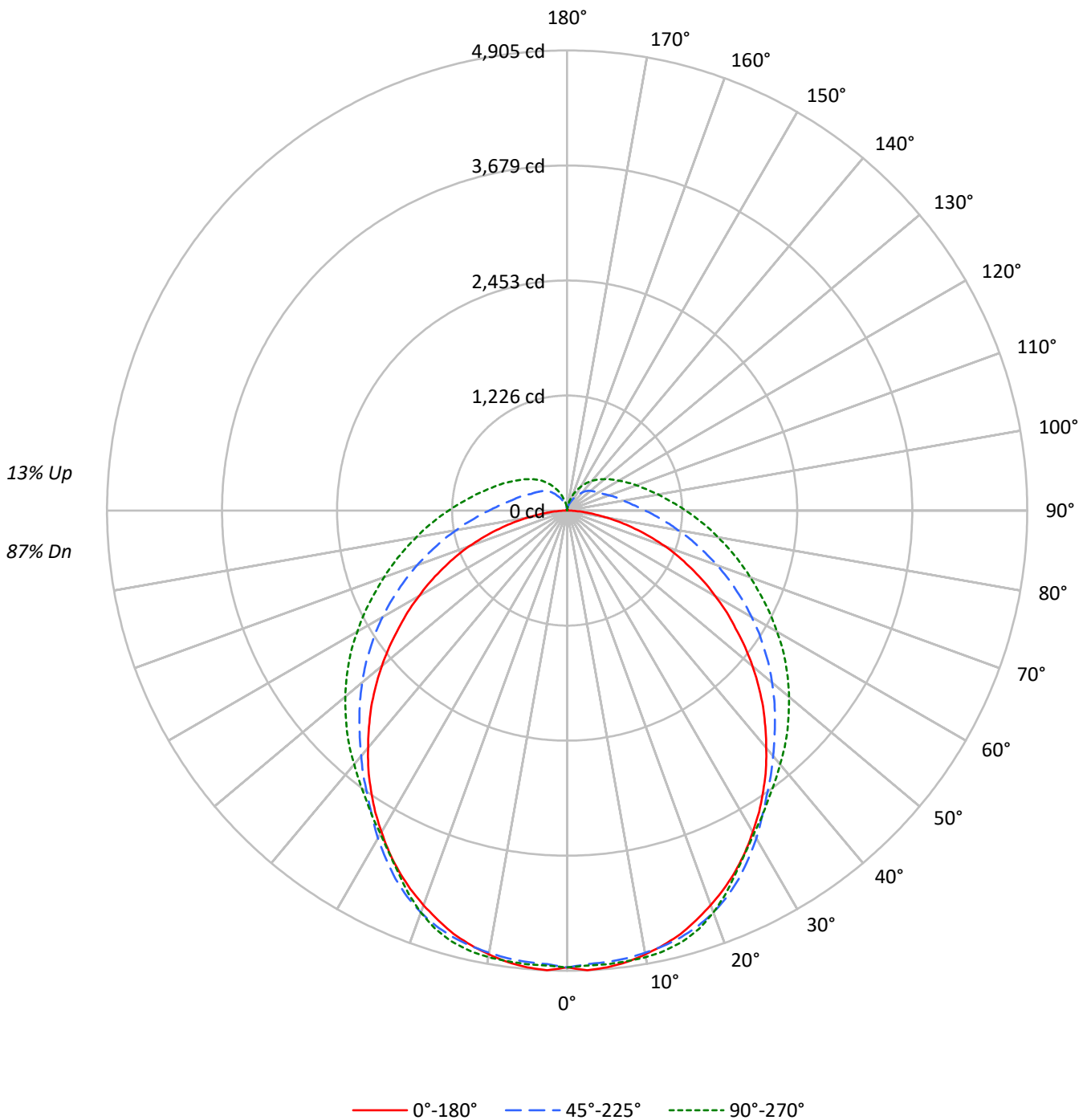
Lumens per Lamp: N/A
Luminaire Lumens: 17577.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	26206	26206	26206
5°	26354	25032	24780
10°	26156	24089	23636
15°	25890	23196	22483
20°	25442	22186	21013
25°	24956	20960	19290
30°	24301	19579	17852
35°	23600	18170	16778
40°	22798	17041	15909
45°	22018	16040	15160
50°	21083	15119	14404
55°	19985	14193	13664
60°	18946	13269	12891
65°	17800	12337	12182
70°	16499	11463	11542
75°	14432	10612	11014
80°	11728	9882	10567
85°	8474	9374	10310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.6	2.6
10°-20°	1329.9	7.6
20°-30°	1980.4	11.3
30°-40°	2336.7	13.3
40°-50°	2437.0	13.9
50°-60°	2290.1	13.0
60°-70°	1934.0	11.0
70°-80°	1461.3	8.3
80°-90°	1007.3	5.7
90°-100°	704.9	4.0
100°-110°	526.0	3.0
110°-120°	396.6	2.3
120°-130°	295.7	1.7
130°-140°	207.6	1.2
140°-150°	125.5	0.7
150°-160°	60.0	0.3
160°-170°	19.2	0.1
170°-180°	2.3	0.0
0°-30°	3772.8	21.5
0°-40°	6109.5	34.8
0°-60°	10836.6	61.7
0°-90°	15239.2	86.7
90°-120°	1627.5	9.3
90°-150°	2256.3	12.8
90°-180°	2338.0	13.3
0°-180°	17577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4869	4869	4869	4869	4869	
5°	4887	4878	4830	4866	4854	464
15°	4672	4693	4705	4765	4756	1316
25°	4243	4330	4330	4291	4258	1952
35°	3644	3778	3707	3737	3746	2279
45°	2953	3099	3132	3260	3320	2274
55°	2193	2381	2563	2768	2843	1968
65°	1460	1693	1979	2238	2324	1450
75°	748	1037	1436	1737	1848	797
85°	170	533	995	1323	1439	190
90°	3	378	831	1150	1264	12
95°	3	295	703	1007	1112	2
105°	6	212	542	787	876	6
115°	6	182	420	626	706	6
125°	9	155	355	512	578	8
135°	9	119	295	417	468	7
145°	12	86	206	319	358	7
155°	12	57	125	203	235	6
165°	15	36	66	89	119	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°	4869.2	4869.2	4869.2	4869.2	4869.2
2.5°	4904.9	4893.0	4839.4	4869.2	4854.3
5°	4887.0	4878.1	4830.4	4866.2	4854.3
7.5°	4854.3	4851.3	4815.5	4857.2	4845.3
10°	4803.6	4812.5	4785.7	4842.3	4833.4
12.5°	4744.0	4761.9	4752.9	4815.5	4806.6
15°	4672.5	4693.3	4705.3	4764.9	4755.9
17.5°	4577.1	4615.9	4642.7	4690.4	4675.5
20°	4475.8	4529.4	4559.2	4583.1	4559.2
22.5°	4365.6	4437.1	4454.9	4443.0	4419.2
25°	4243.4	4329.8	4329.8	4291.1	4258.3
27.5°	4106.3	4213.6	4183.8	4139.1	4112.3
30°	3957.3	4085.4	4034.8	3984.1	3978.2
32.5°	3808.3	3942.4	3867.9	3856.0	3864.9
35°	3644.4	3778.5	3707.0	3736.8	3745.7
37.5°	3480.5	3614.6	3566.9	3611.6	3638.5
40°	3301.7	3444.8	3415.0	3495.4	3531.2
42.5°	3125.9	3274.9	3271.9	3376.2	3429.9
45°	2953.1	3099.1	3131.9	3260.0	3319.6
47.5°	2765.3	2914.3	2994.8	3143.8	3203.4
50°	2580.6	2741.5	2851.8	3018.6	3087.2
52.5°	2389.9	2559.7	2711.7	2896.5	2968.0
55°	2193.2	2380.9	2562.7	2768.3	2842.8
57.5°	2017.4	2208.1	2422.7	2634.2	2720.6
60°	1823.7	2035.3	2270.7	2494.2	2580.6
62.5°	1647.9	1865.4	2127.6	2363.1	2455.4
65°	1460.2	1692.6	1978.7	2237.9	2324.3
67.5°	1287.3	1525.7	1838.6	2100.8	2196.2
70°	1108.5	1361.8	1701.5	1978.7	2077.0
72.5°	923.8	1192.0	1564.4	1859.5	1960.8
75°	748.0	1037.0	1436.3	1737.3	1847.5
77.5°	584.1	888.0	1320.1	1630.0	1737.3
80°	423.1	753.9	1197.9	1519.7	1630.0
82.5°	280.1	637.7	1099.6	1421.4	1537.6
85°	169.9	533.4	995.3	1323.1	1439.3
87.5°	77.5	447.0	911.8	1236.7	1349.9
90°	3.0	378.4	831.4	1150.2	1263.5
92.5°	3.0	330.8	765.8	1075.7	1186.0
95°	3.0	295.0	703.3	1007.2	1111.5
97.5°	3.0	271.2	655.6	941.6	1043.0
100°	3.0	247.3	607.9	882.1	986.3
102.5°	6.0	226.5	572.1	828.4	926.7
105°	6.0	211.6	542.3	786.7	876.1
107.5°	6.0	202.6	509.6	745.0	828.4
110°	6.0	193.7	473.8	703.3	786.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	187.7	447.0	667.5	748.0
115°	6.0	181.8	420.2	625.8	706.2
117.5°	6.0	178.8	405.3	593.0	670.5
120°	8.9	169.9	387.4	563.2	637.7
122.5°	8.9	160.9	369.5	539.4	604.9
125°	8.9	155.0	354.6	512.5	578.1
127.5°	8.9	146.0	339.7	488.7	548.3
130°	8.9	137.1	327.8	464.9	521.5
132.5°	8.9	128.1	312.9	441.0	494.7
135°	8.9	119.2	295.0	417.2	467.8
137.5°	8.9	110.3	277.1	393.3	441.0
140°	8.9	101.3	253.3	369.5	414.2
142.5°	8.9	92.4	229.5	345.7	384.4
145°	11.9	86.4	205.6	318.8	357.6
147.5°	11.9	77.5	181.8	292.0	324.8
150°	11.9	71.5	163.9	265.2	295.0
152.5°	11.9	62.6	146.0	235.4	265.2
155°	11.9	56.6	125.2	202.6	235.4
157.5°	11.9	50.7	107.3	169.9	205.6
160°	11.9	47.7	92.4	140.1	175.8
162.5°	14.9	41.7	77.5	113.2	146.0
165°	14.9	35.8	65.6	89.4	119.2
167.5°	14.9	29.8	53.6	68.5	92.4
170°	14.9	23.8	41.7	47.7	71.5
172.5°	14.9	17.9	29.8	32.8	35.8
175°	14.9	14.9	17.9	17.9	8.9
177.5°	14.9	14.9	11.9	8.9	3.0
180°	8.9	8.9	8.9	8.9	8.9

(END OF REPORT)