

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: P567451

Luminaire Tested: **8SNX-162HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567451
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-L835-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

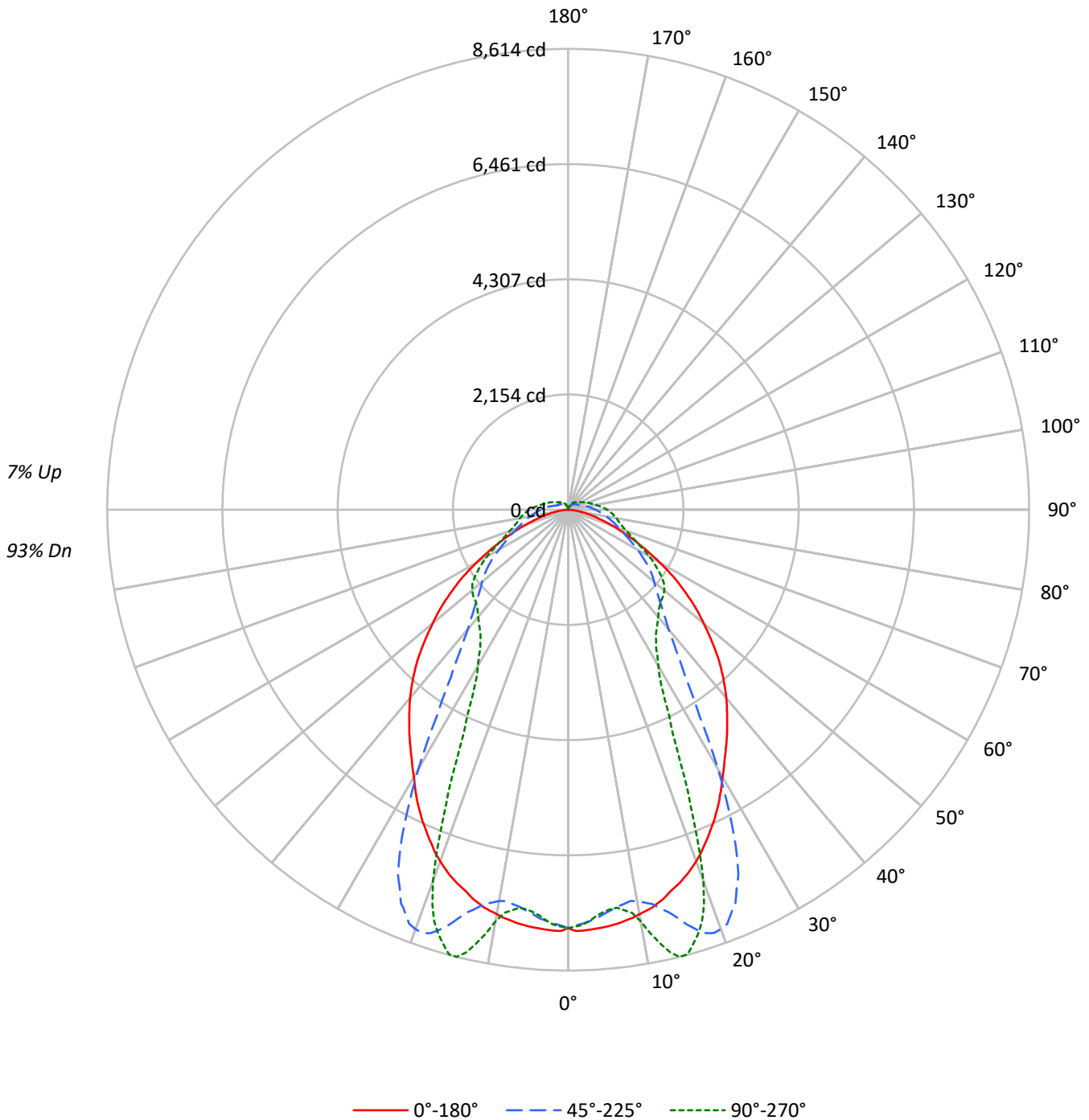
Lumens per Lamp: N/A
Luminaire Lumens: 17386.0 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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	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°	42102	42102	42102
5°	42229	39342	38538
10°	41800	37399	38216
15°	40904	38943	40683
20°	39744	40600	34049
25°	37827	36430	20936
30°	35421	27141	15151
35°	33468	18736	12782
40°	31728	14545	11780
45°	29688	12385	11140
50°	27001	11118	10936
55°	24164	10056	10118
60°	20490	8702	8752
65°	16665	7580	7304
70°	13077	6814	6432
75°	10141	6335	5998
80°	7137	6000	5937
85°	3970	5725	5895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.9	4.2
10°-20°	2224.3	12.8
20°-30°	2995.1	17.2
30°-40°	2834.5	16.3
40°-50°	2501.9	14.4
50°-60°	2032.1	11.7
60°-70°	1382.0	7.9
70°-80°	889.3	5.1
80°-90°	591.3	3.4
90°-100°	406.4	2.3
100°-110°	272.8	1.6
110°-120°	192.4	1.1
120°-130°	137.5	0.8
130°-140°	97.0	0.6
140°-150°	60.2	0.3
150°-160°	29.4	0.2
160°-170°	10.3	0.1
170°-180°	1.8	0.0
0°-30°	5947.3	34.2
0°-40°	8781.8	50.5
0°-60°	13315.8	76.6
0°-90°	16178.4	93.1
90°-120°	871.6	5.0
90°-150°	1166.2	6.7
90°-180°	1208.0	6.9
0°-180°	17386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7823	7823	7823	7823	7823	
5°	7831	7759	7592	7587	7549	743
15°	7382	7334	7900	8598	8606	2081
25°	6432	7626	7526	5466	4622	2952
35°	5168	7252	3822	2944	2854	3234
45°	3982	4879	2418	2389	2440	3057
55°	2652	2886	1816	2028	2105	2368
65°	1367	1556	1216	1351	1394	1373
75°	526	735	857	961	1006	572
85°	80	313	608	770	823	104
90°	3	218	507	682	727	5
95°	3	167	427	579	618	2
105°	5	117	281	396	443	5
115°	5	101	207	295	332	6
125°	8	85	178	223	239	7
135°	11	66	146	186	196	8
145°	11	48	104	143	157	7
155°	13	29	64	96	109	6
165°	13	19	34	48	58	4
175°	16	16	16	16	13	2
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7822.8	7822.8	7822.8	7822.8	7822.8
1°	7875.9	7852.0	7772.4	7814.9	7793.6
2°	7873.3	7833.5	7743.2	7791.0	7764.4
3°	7860.0	7817.5	7700.7	7729.9	7690.1
4°	7846.7	7796.3	7655.6	7655.6	7610.5
5°	7830.8	7759.1	7591.9	7586.6	7549.4
6°	7812.2	7729.9	7536.2	7530.8	7509.6
7°	7785.7	7679.5	7475.1	7512.3	7496.3
8°	7753.8	7631.7	7443.2	7536.2	7560.0
9°	7724.6	7573.3	7406.1	7610.5	7629.1
10°	7676.8	7520.2	7430.0	7759.1	7814.9
11°	7637.0	7475.1	7483.1	7905.1	8072.4
12°	7597.2	7427.3	7533.5	8088.3	8292.7
13°	7530.8	7390.2	7645.0	8287.4	8497.1
14°	7472.4	7361.0	7753.8	8489.1	8613.9
15°	7382.2	7334.4	7899.8	8598.0	8605.9
16°	7321.1	7315.8	8069.7	8605.9	8457.3
17°	7252.1	7307.9	8207.7	8467.9	8292.7
18°	7175.1	7323.8	8321.9	8295.3	8093.6
19°	7087.5	7339.7	8369.7	8056.4	7796.3
20°	6992.0	7363.6	8343.1	7806.9	7387.5
21°	6896.4	7395.5	8292.7	7544.1	6851.3
22.5°	6718.6	7472.4	8053.8	6806.2	5964.7
23°	6668.1	7488.4	7998.0	6575.2	5733.7
24°	6543.4	7554.7	7743.2	6036.4	5123.2
25°	6431.9	7626.4	7525.5	5465.6	4621.5
26°	6307.1	7679.5	7196.4	4940.0	4313.6
27°	6185.0	7711.4	6822.1	4531.3	3968.5
28°	6044.3	7745.9	6416.0	4178.2	3708.4
29°	5911.6	7751.2	6015.1	3896.8	3504.0
30°	5768.3	7724.6	5593.1	3671.2	3376.5
32.5°	5455.0	7578.6	4560.4	3241.2	3058.0
35°	5168.3	7252.1	3822.5	2943.9	2853.6
37.5°	4879.0	6737.1	3304.9	2758.0	2728.8
40°	4595.0	6126.6	2914.7	2609.4	2614.7
42.5°	4295.0	5497.5	2646.5	2487.3	2511.2
45°	3981.8	4879.0	2418.3	2389.1	2439.5
47.5°	3634.0	4313.6	2237.8	2325.4	2402.3
50°	3304.9	3753.5	2097.1	2264.3	2343.9
52.5°	2991.6	3294.2	1969.6	2160.8	2253.7
55°	2651.9	2885.5	1815.7	2028.0	2105.0
57.5°	2328.0	2516.5	1653.8	1863.5	1932.5
60°	1972.3	2152.8	1489.2	1685.6	1752.0
62.5°	1651.1	1842.2	1348.5	1507.8	1560.9
65°	1367.1	1555.5	1215.8	1351.1	1393.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1114.9	1316.6	1106.9	1221.1	1260.9
70°	878.6	1091.0	1011.4	1114.9	1157.4
72.5°	687.5	902.5	931.7	1027.3	1069.8
75°	525.6	735.3	857.4	960.9	1006.1
77.5°	390.2	599.9	788.4	907.8	955.6
80°	257.5	477.8	727.3	860.1	915.8
82.5°	161.9	384.9	666.3	812.3	870.7
85°	79.6	313.2	607.9	769.8	822.9
87.5°	26.5	260.1	554.8	727.3	772.5
90°	2.7	217.7	507.0	682.2	727.3
92.5°	2.7	188.5	467.2	629.1	674.2
95°	2.7	167.2	427.4	578.7	618.5
97.5°	2.7	151.3	390.2	525.6	568.1
100°	2.7	135.4	350.4	475.2	520.3
102.5°	5.3	124.8	315.9	432.7	480.5
105°	5.3	116.8	281.4	395.5	443.3
107.5°	5.3	111.5	252.2	366.3	411.4
110°	5.3	106.2	230.9	339.8	387.6
112.5°	5.3	103.5	217.7	315.9	361.0
115°	5.3	100.9	207.1	294.7	331.8
117.5°	8.0	98.2	199.1	273.4	302.6
120°	8.0	92.9	193.8	254.8	278.7
122.5°	8.0	87.6	185.8	238.9	257.5
125°	8.0	84.9	177.9	223.0	238.9
127.5°	8.0	79.6	169.9	209.7	225.6
130°	10.6	74.3	161.9	199.1	212.4
132.5°	10.6	69.0	154.0	193.8	204.4
135°	10.6	66.4	146.0	185.8	196.4
137.5°	10.6	61.1	138.0	177.9	188.5
140°	10.6	55.7	127.4	167.2	177.9
142.5°	10.6	53.1	116.8	156.6	167.2
145°	10.6	47.8	103.5	143.3	156.6
147.5°	13.3	45.1	92.9	132.7	143.3
150°	13.3	39.8	82.3	122.1	132.7
152.5°	13.3	34.5	71.7	108.8	119.5
155°	13.3	29.2	63.7	95.6	108.8
157.5°	13.3	26.5	55.7	79.6	95.6
160°	13.3	23.9	47.8	69.0	82.3
162.5°	13.3	21.2	42.5	58.4	71.7
165°	13.3	18.6	34.5	47.8	58.4
167.5°	15.9	18.6	29.2	37.2	47.8
170°	15.9	18.6	23.9	29.2	37.2
172.5°	15.9	15.9	18.6	21.2	23.9
175°	15.9	15.9	15.9	15.9	13.3
177.5°	15.9	15.9	15.9	13.3	13.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	13.3	13.3	13.3	13.3	13.3

(END OF REPORT)