

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: P567700

Luminaire Tested: **8SNX-200HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567700
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-200HL-LN-UNV-L840-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

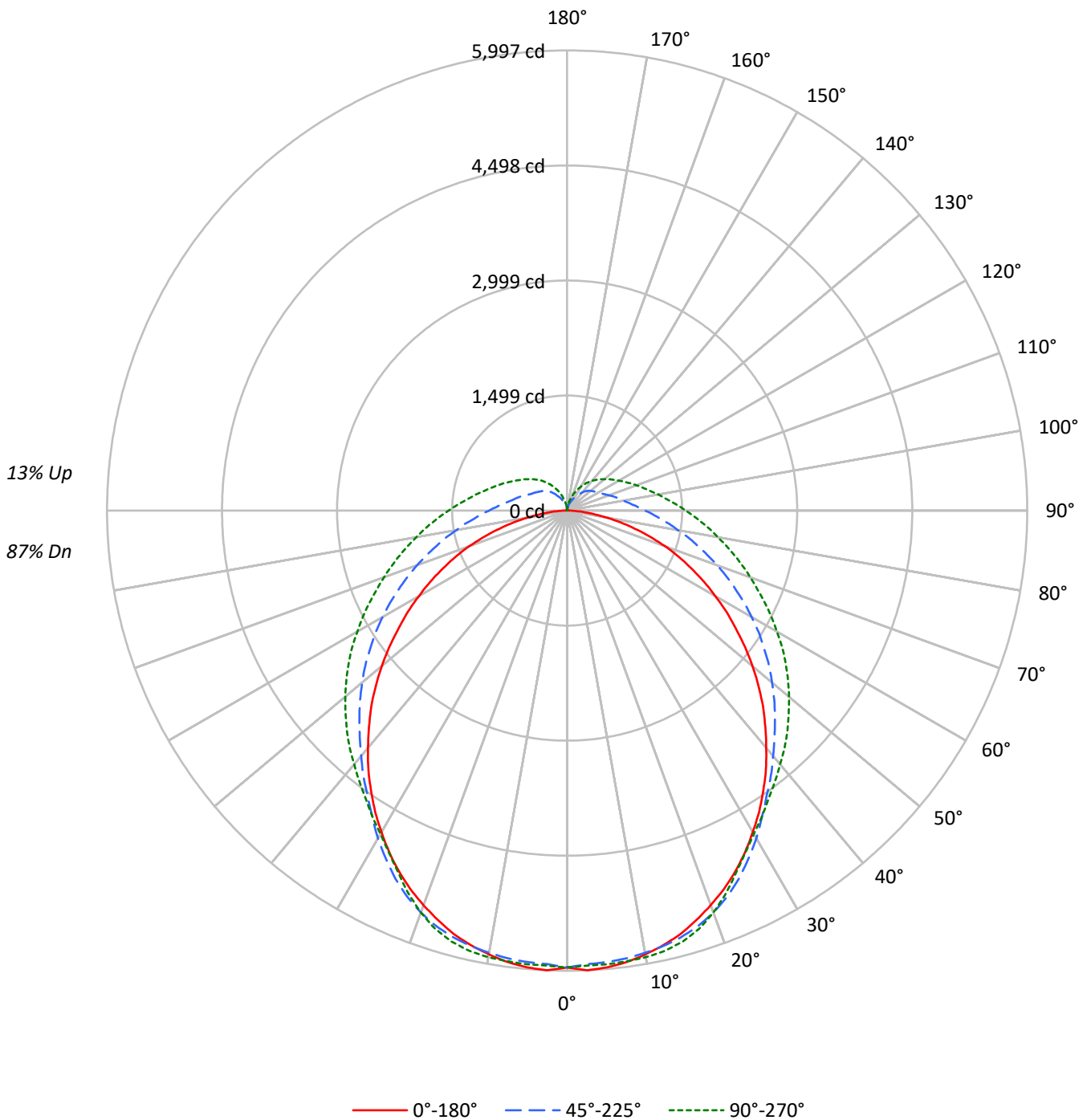
Lumens per Lamp: N/A
Luminaire Lumens: 21492.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 145
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°	32043	32043	32043
5°	32224	30607	30299
10°	31981	29455	28901
15°	31656	28362	27490
20°	31108	27128	25694
25°	30515	25629	23587
30°	29713	23940	21827
35°	28857	22218	20515
40°	27876	20837	19453
45°	26922	19612	18536
50°	25780	18485	17612
55°	24436	17354	16708
60°	23166	16224	15763
65°	21764	15084	14896
70°	20174	14017	14113
75°	17644	12976	13467
80°	14342	12083	12921
85°	10359	11462	12607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.6	2.6
10°-20°	1626.1	7.6
20°-30°	2421.4	11.3
30°-40°	2857.2	13.3
40°-50°	2979.7	13.9
50°-60°	2800.2	13.0
60°-70°	2364.7	11.0
70°-80°	1786.7	8.3
80°-90°	1231.6	5.7
90°-100°	861.9	4.0
100°-110°	643.2	3.0
110°-120°	484.9	2.3
120°-130°	361.6	1.7
130°-140°	253.8	1.2
140°-150°	153.5	0.7
150°-160°	73.4	0.3
160°-170°	23.5	0.1
170°-180°	2.8	0.0
0°-30°	4613.2	21.5
0°-40°	7470.4	34.8
0°-60°	13250.3	61.7
0°-90°	18633.4	86.7
90°-120°	1989.9	9.3
90°-150°	2758.8	12.8
90°-180°	2859.0	13.3
0°-180°	21492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5954	5954	5954	5954	5954	
5°	5976	5965	5906	5950	5936	567
15°	5713	5739	5753	5826	5815	1609
25°	5188	5294	5294	5247	5207	2387
35°	4456	4620	4533	4569	4580	2787
45°	3611	3789	3829	3986	4059	2781
55°	2682	2911	3134	3385	3476	2406
65°	1785	2070	2419	2736	2842	1773
75°	914	1268	1756	2124	2259	974
85°	208	652	1217	1618	1760	233
90°	4	463	1017	1406	1545	14
95°	4	361	860	1232	1359	3
105°	7	259	663	962	1071	7
115°	7	222	514	765	864	8
125°	11	190	434	627	707	10
135°	11	146	361	510	572	8
145°	15	106	251	390	437	8
155°	15	69	153	248	288	7
165°	18	44	80	109	146	5
175°	18	18	22	22	11	2
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5953.7	5953.7	5953.7	5953.7	5953.7
2.5°	5997.4	5982.8	5917.2	5953.7	5935.5
5°	5975.5	5964.6	5906.3	5950.0	5935.5
7.5°	5935.5	5931.8	5888.1	5939.1	5924.5
10°	5873.5	5884.5	5851.7	5920.9	5910.0
12.5°	5800.7	5822.5	5811.6	5888.1	5877.2
15°	5713.2	5738.7	5753.3	5826.2	5815.2
17.5°	5596.6	5644.0	5676.8	5735.1	5716.8
20°	5472.7	5538.3	5574.7	5603.9	5574.7
22.5°	5337.9	5425.4	5447.2	5432.6	5403.5
25°	5188.5	5294.2	5294.2	5246.8	5206.7
27.5°	5020.9	5152.1	5115.6	5061.0	5028.2
30°	4838.7	4995.4	4933.5	4871.5	4864.2
32.5°	4656.6	4820.5	4729.4	4714.9	4725.8
35°	4456.2	4620.1	4532.7	4569.1	4580.0
37.5°	4255.8	4419.7	4361.4	4416.1	4448.9
40°	4037.1	4212.0	4175.6	4274.0	4317.7
42.5°	3822.2	4004.3	4000.7	4128.2	4193.8
45°	3610.8	3789.4	3829.4	3986.1	4059.0
47.5°	3381.3	3563.5	3661.8	3844.0	3916.9
50°	3155.4	3352.1	3486.9	3691.0	3774.8
52.5°	2922.2	3129.9	3315.7	3541.6	3629.1
55°	2681.7	2911.3	3133.5	3384.9	3476.0
57.5°	2466.7	2699.9	2962.3	3221.0	3326.6
60°	2229.9	2488.6	2776.4	3049.7	3155.4
62.5°	2014.9	2280.9	2601.5	2889.4	3002.3
65°	1785.4	2069.6	2419.4	2736.4	2842.0
67.5°	1574.0	1865.5	2248.1	2568.8	2685.4
70°	1355.4	1665.1	2080.5	2419.4	2539.6
72.5°	1129.5	1457.5	1912.9	2273.6	2397.5
75°	914.5	1268.0	1756.2	2124.2	2259.0
77.5°	714.2	1085.8	1614.1	1993.1	2124.2
80°	517.4	921.8	1464.7	1858.2	1993.1
82.5°	342.5	779.7	1344.5	1738.0	1880.1
85°	207.7	652.2	1217.0	1617.8	1759.9
87.5°	94.7	546.5	1114.9	1512.1	1650.6
90°	3.6	462.7	1016.6	1406.4	1544.9
92.5°	3.6	404.4	936.4	1315.3	1450.2
95°	3.6	360.7	859.9	1231.5	1359.1
97.5°	3.6	331.6	801.6	1151.4	1275.3
100°	3.6	302.4	743.3	1078.5	1206.0
102.5°	7.3	276.9	699.6	1012.9	1133.2
105°	7.3	258.7	663.1	961.9	1071.2
107.5°	7.3	247.8	623.1	910.9	1012.9
110°	7.3	236.8	579.3	859.9	961.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.3	229.5	546.5	816.2	914.5
115°	7.3	222.3	513.8	765.2	863.5
117.5°	7.3	218.6	495.5	725.1	819.8
120°	10.9	207.7	473.7	688.6	779.7
122.5°	10.9	196.8	451.8	659.5	739.7
125°	10.9	189.5	433.6	626.7	706.9
127.5°	10.9	178.5	415.4	597.6	670.4
130°	10.9	167.6	400.8	568.4	637.6
132.5°	10.9	156.7	382.6	539.3	604.8
135°	10.9	145.7	360.7	510.1	572.0
137.5°	10.9	134.8	338.9	481.0	539.3
140°	10.9	123.9	309.7	451.8	506.5
142.5°	10.9	113.0	280.6	422.7	470.0
145°	14.6	105.7	251.4	389.9	437.2
147.5°	14.6	94.7	222.3	357.1	397.2
150°	14.6	87.4	200.4	324.3	360.7
152.5°	14.6	76.5	178.5	287.8	324.3
155°	14.6	69.2	153.0	247.8	287.8
157.5°	14.6	61.9	131.2	207.7	251.4
160°	14.6	58.3	113.0	171.3	215.0
162.5°	18.2	51.0	94.7	138.5	178.5
165°	18.2	43.7	80.2	109.3	145.7
167.5°	18.2	36.4	65.6	83.8	113.0
170°	18.2	29.1	51.0	58.3	87.4
172.5°	18.2	21.9	36.4	40.1	43.7
175°	18.2	18.2	21.9	21.9	10.9
177.5°	18.2	18.2	14.6	10.9	3.6
180°	10.9	10.9	10.9	10.9	10.9

(END OF REPORT)