

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: P567708

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567708  
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-200HL-LW-UNV-L840-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

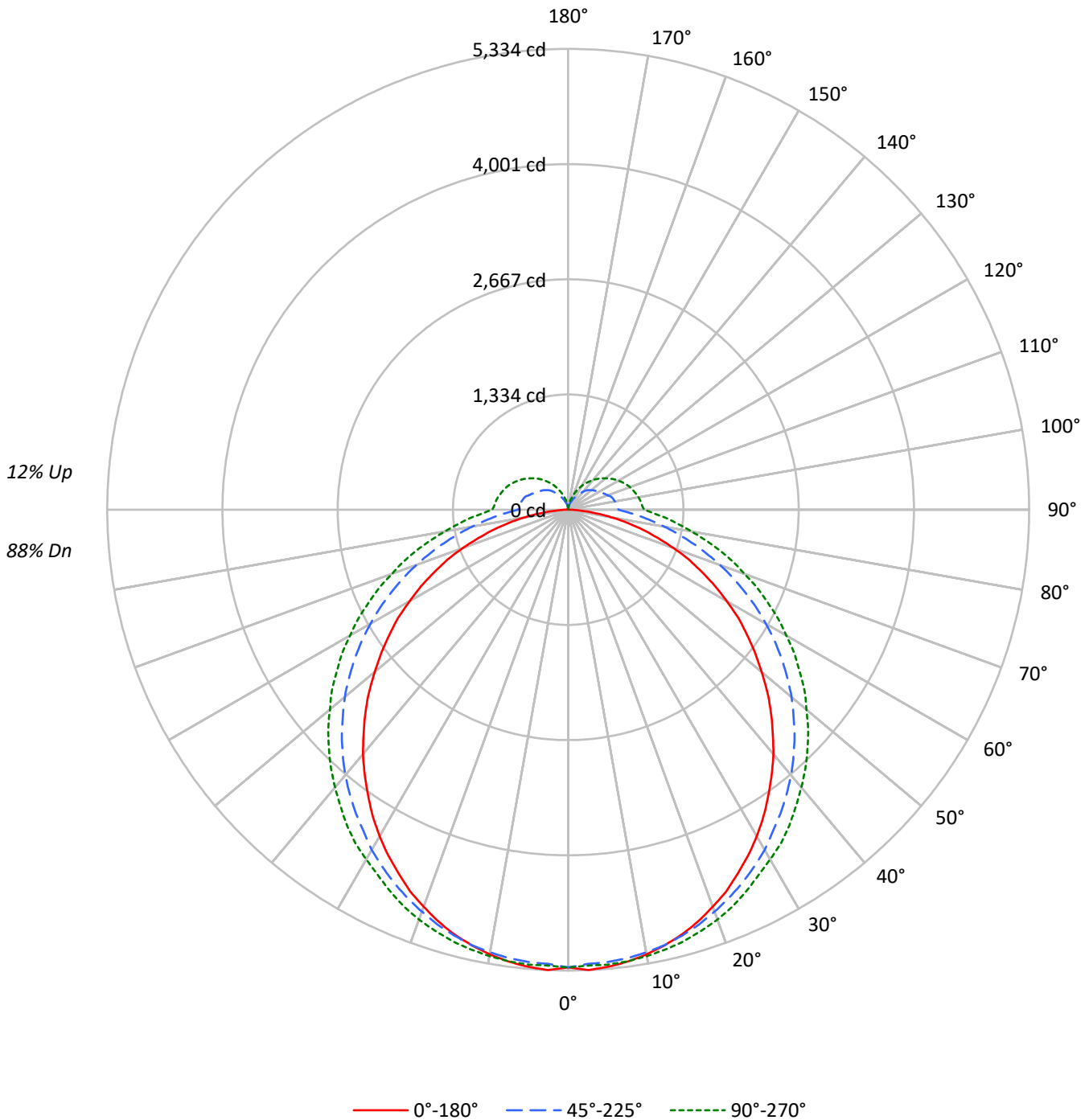
Lumens per Lamp: N/A  
Luminaire Lumens: 19073.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

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	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°	28512	28512	28512
5°	28639	27234	26977
10°	28455	26189	25651
15°	28196	25150	24442
20°	27793	24096	23273
25°	27315	23069	22075
30°	26796	22062	20973
35°	26142	21004	19984
40°	25507	20015	18909
45°	24742	18969	17884
50°	23856	17887	16794
55°	23006	16696	15715
60°	22023	15440	14554
65°	20823	14071	13353
70°	19300	12587	12052
75°	17141	10956	10806
80°	14123	9323	9380
85°	9775	7752	8189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.9	2.6
10°-20°	1446.7	7.6
20°-30°	2200.9	11.5
30°-40°	2676.1	14.0
40°-50°	2831.2	14.8
50°-60°	2653.9	13.9
60°-70°	2183.2	11.4
70°-80°	1510.6	7.9
80°-90°	840.0	4.4
90°-100°	553.4	2.9
100°-110°	496.3	2.6
110°-120°	410.8	2.2
120°-130°	317.5	1.7
130°-140°	224.8	1.2
140°-150°	135.6	0.7
150°-160°	65.1	0.3
160°-170°	21.3	0.1
170°-180°	2.6	0.0
0°-30°	4150.6	21.8
0°-40°	6826.6	35.8
0°-60°	12311.7	64.6
0°-90°	16845.6	88.3
90°-120°	1460.4	7.7
90°-150°	2138.3	11.2
90°-180°	2227.0	11.7
0°-180°	19073.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	5311	5301	5255	5298	5285	504
15°	5089	5105	5102	5170	5170	1434
25°	4644	4710	4765	4870	4873	2141
35°	4037	4145	4285	4422	4462	2527
45°	3318	3492	3704	3870	3916	2558
55°	2525	2750	3015	3204	3269	2260
65°	1708	1953	2257	2479	2548	1694
75°	888	1146	1483	1718	1813	942
85°	196	487	823	1052	1143	226
90°	3	274	581	800	879	13
95°	3	261	565	774	849	3
105°	3	225	529	728	794	3
115°	6	196	448	647	719	5
125°	6	167	382	552	621	6
135°	6	131	320	454	510	5
145°	6	95	222	343	385	4
155°	10	65	137	219	255	4
165°	10	42	75	101	131	3
175°	10	16	23	23	13	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5297.7	5297.7	5297.7	5297.7	5297.7
2.5°	5333.7	5317.3	5261.8	5297.7	5281.4
5°	5310.8	5301.0	5255.3	5297.7	5284.7
7.5°	5274.9	5271.6	5235.7	5284.7	5271.6
10°	5225.9	5232.4	5203.0	5255.3	5245.5
12.5°	5163.8	5173.6	5160.6	5219.4	5212.8
15°	5088.7	5105.0	5101.8	5170.4	5170.4
17.5°	4997.3	5020.1	5033.2	5111.6	5111.6
20°	4889.5	4925.4	4951.5	5036.4	5049.5
22.5°	4781.7	4824.1	4863.3	4951.5	4971.1
25°	4644.5	4709.8	4765.4	4869.9	4873.1
27.5°	4510.6	4582.4	4657.6	4758.8	4768.6
30°	4363.6	4455.1	4546.5	4644.5	4673.9
32.5°	4206.8	4308.1	4409.3	4540.0	4579.2
35°	4037.0	4144.8	4285.2	4422.4	4461.6
37.5°	3867.2	3988.0	4151.3	4291.8	4327.7
40°	3694.0	3828.0	4010.9	4154.6	4197.0
42.5°	3501.3	3664.7	3860.6	4014.1	4063.1
45°	3318.4	3491.5	3703.8	3870.4	3916.1
47.5°	3125.7	3308.6	3537.3	3713.6	3765.9
50°	2920.0	3129.0	3374.0	3550.3	3599.3
52.5°	2727.3	2939.6	3197.6	3380.5	3449.1
55°	2524.8	2750.1	3014.7	3204.1	3269.4
57.5°	2335.3	2550.9	2835.0	3024.5	3106.1
60°	2119.8	2358.2	2642.3	2848.1	2913.4
62.5°	1917.2	2158.9	2452.9	2665.2	2740.3
65°	1708.2	1953.2	2256.9	2479.0	2547.6
67.5°	1512.2	1753.9	2064.2	2283.1	2371.2
70°	1296.7	1551.4	1868.3	2093.6	2168.7
72.5°	1084.4	1348.9	1672.3	1914.0	1998.9
75°	888.4	1146.4	1482.8	1718.0	1812.7
77.5°	699.0	960.3	1299.9	1541.6	1623.3
80°	509.5	783.9	1130.1	1368.5	1446.9
82.5°	336.4	623.8	966.8	1205.2	1290.1
85°	196.0	486.7	823.1	1051.7	1143.2
87.5°	84.9	369.1	689.2	914.5	989.7
90°	3.3	274.4	581.4	800.2	878.6
92.5°	3.3	267.8	568.3	783.9	859.0
95°	3.3	261.3	565.0	774.1	849.2
97.5°	3.3	258.0	558.5	767.6	839.4
100°	3.3	248.2	548.7	754.5	826.3
102.5°	3.3	235.2	538.9	741.4	810.0
105°	3.3	225.4	529.1	728.4	793.7
107.5°	3.3	215.6	512.8	712.0	777.4
110°	3.3	205.8	486.7	695.7	761.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	202.5	467.1	672.8	741.4
115°	6.5	196.0	447.5	646.7	718.6
117.5°	6.5	192.7	431.1	620.6	695.7
120°	6.5	182.9	414.8	597.7	669.6
122.5°	6.5	173.1	398.5	574.8	646.7
125°	6.5	166.6	382.1	552.0	620.6
127.5°	6.5	156.8	369.1	529.1	591.2
130°	6.5	150.2	352.7	503.0	565.0
132.5°	6.5	140.4	336.4	476.9	535.7
135°	6.5	130.6	320.1	454.0	509.5
137.5°	6.5	117.6	300.5	427.9	480.1
140°	6.5	107.8	274.4	401.7	450.7
142.5°	6.5	101.3	248.2	372.3	418.1
145°	6.5	94.7	222.1	342.9	385.4
147.5°	6.5	88.2	199.2	313.6	352.7
150°	6.5	78.4	176.4	287.4	320.1
152.5°	9.8	71.9	156.8	254.8	287.4
155°	9.8	65.3	137.2	218.8	254.8
157.5°	9.8	58.8	117.6	182.9	222.1
160°	9.8	52.3	101.3	150.2	189.4
162.5°	9.8	49.0	88.2	124.1	160.0
165°	9.8	42.5	75.1	101.3	130.6
167.5°	9.8	32.7	62.1	78.4	107.8
170°	9.8	26.1	49.0	55.5	81.7
172.5°	9.8	19.6	35.9	39.2	42.5
175°	9.8	16.3	22.9	22.9	13.1
177.5°	9.8	13.1	13.1	13.1	6.5
180°	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)