

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: P567689

Luminaire Tested: **8SNX-200HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567689  
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-FDL-UNV-L950-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

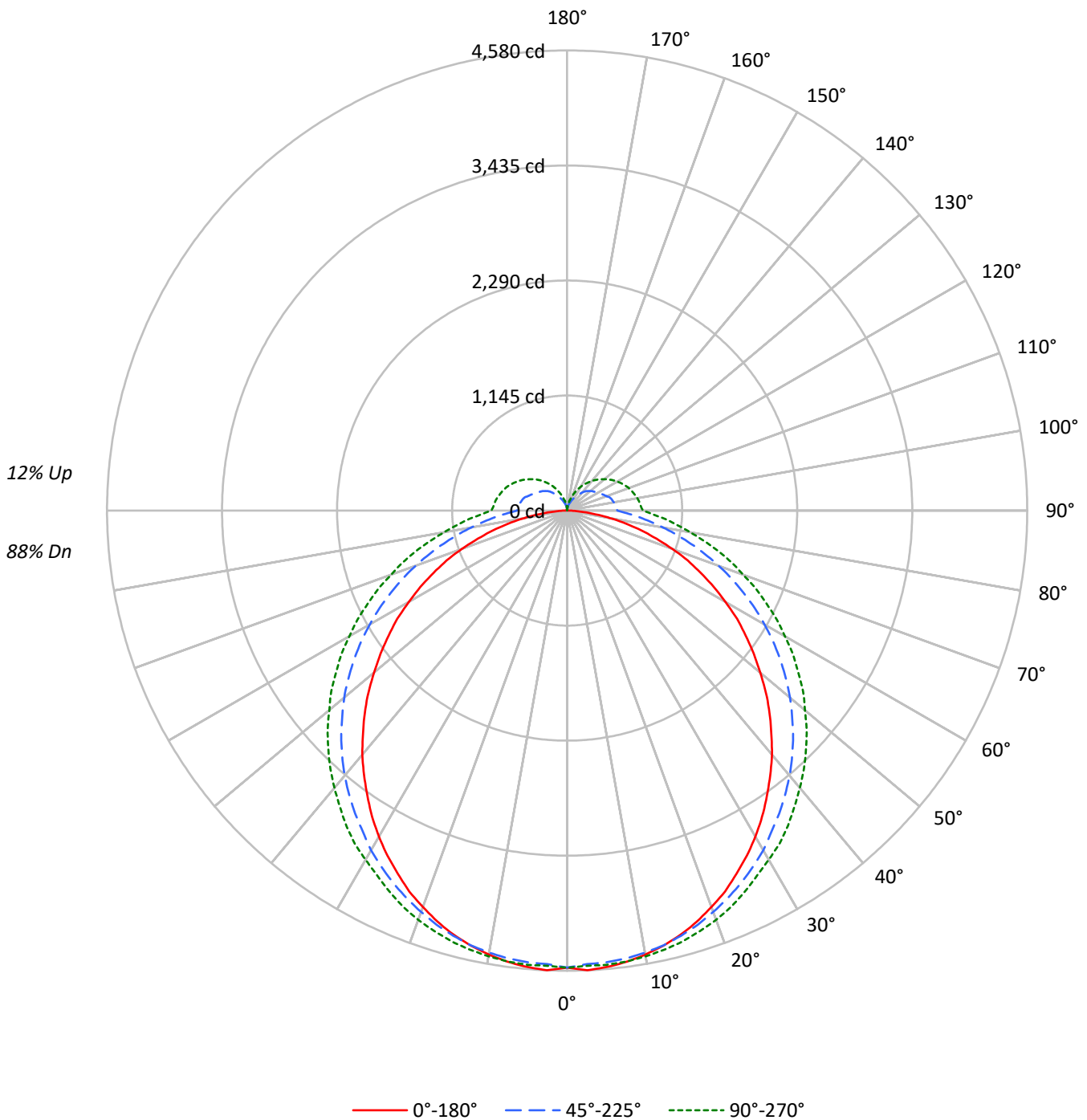
Lumens per Lamp: N/A  
Luminaire Lumens: 16377.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Semi-Direct

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°	24482	24482	24482
5°	24625	24122	24163
10°	24500	23903	23912
15°	24312	23638	23679
20°	24000	23319	23412
25°	23625	22995	23056
30°	23215	22670	22751
35°	22692	22279	22539
40°	22188	21957	22213
45°	21575	21583	21937
50°	20863	21187	21589
55°	20192	20697	21277
60°	19416	20174	20895
65°	18473	19576	20522
70°	17273	18924	20099
75°	15559	18214	19954
80°	13171	17804	19795
85°	9809	18266	20866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.9	2.6
10°-20°	1242.2	7.6
20°-30°	1889.8	11.5
30°-40°	2297.8	14.0
40°-50°	2431.0	14.8
50°-60°	2278.8	13.9
60°-70°	1874.7	11.4
70°-80°	1297.1	7.9
80°-90°	721.3	4.4
90°-100°	475.2	2.9
100°-110°	426.1	2.6
110°-120°	352.7	2.2
120°-130°	272.6	1.7
130°-140°	193.0	1.2
140°-150°	116.4	0.7
150°-160°	55.9	0.3
160°-170°	18.3	0.1
170°-180°	2.2	0.0
0°-30°	3563.9	21.8
0°-40°	5861.7	35.8
0°-60°	10571.4	64.6
0°-90°	14464.5	88.3
90°-120°	1254.0	7.7
90°-150°	1836.1	11.2
90°-180°	1913.0	11.7
0°-180°	16377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4549	4549	4549	4549	4549	
5°	4560	4552	4512	4549	4538	433
15°	4369	4383	4381	4440	4440	1232
25°	3988	4044	4092	4182	4184	1838
35°	3466	3559	3680	3797	3831	2169
45°	2849	2998	3180	3323	3363	2196
55°	2168	2361	2589	2751	2807	1941
65°	1467	1677	1938	2129	2188	1454
75°	763	984	1273	1475	1556	809
85°	168	418	707	903	982	194
90°	3	236	499	687	754	11
95°	3	224	485	665	729	2
105°	3	194	454	625	682	3
115°	6	168	384	555	617	4
125°	6	143	328	474	533	5
135°	6	112	275	390	438	4
145°	6	81	191	294	331	4
155°	8	56	118	188	219	4
165°	8	36	64	87	112	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4548.9	4548.9	4548.9	4548.9	4548.9
2.5°	4579.7	4565.7	4518.0	4548.9	4534.9
5°	4560.1	4551.7	4512.4	4548.9	4537.7
7.5°	4529.3	4526.5	4495.6	4537.7	4526.5
10°	4487.2	4492.8	4467.6	4512.4	4504.0
12.5°	4433.9	4442.3	4431.1	4481.6	4476.0
15°	4369.4	4383.4	4380.6	4439.5	4439.5
17.5°	4290.9	4310.5	4321.7	4389.0	4389.0
20°	4198.3	4229.2	4251.6	4324.5	4335.8
22.5°	4105.8	4142.2	4175.9	4251.6	4268.4
25°	3988.0	4044.1	4091.8	4181.5	4184.3
27.5°	3873.0	3934.7	3999.2	4086.2	4094.6
30°	3746.8	3825.3	3903.9	3988.0	4013.2
32.5°	3612.2	3699.1	3786.1	3898.3	3931.9
35°	3466.4	3558.9	3679.5	3797.3	3830.9
37.5°	3320.5	3424.3	3564.5	3685.1	3716.0
40°	3171.9	3286.9	3443.9	3567.3	3603.8
42.5°	3006.4	3146.6	3314.9	3446.7	3488.8
45°	2849.4	2998.0	3180.3	3323.3	3362.6
47.5°	2683.9	2841.0	3037.3	3188.7	3233.6
50°	2507.2	2686.7	2897.0	3048.5	3090.6
52.5°	2341.8	2524.0	2745.6	2902.7	2961.6
55°	2167.9	2361.4	2588.6	2751.2	2807.3
57.5°	2005.2	2190.3	2434.3	2597.0	2667.1
60°	1820.1	2024.8	2268.8	2445.5	2501.6
62.5°	1646.2	1853.8	2106.2	2288.5	2353.0
65°	1466.8	1677.1	1937.9	2128.6	2187.5
67.5°	1298.5	1506.0	1772.4	1960.3	2036.1
70°	1113.4	1332.1	1604.2	1797.7	1862.2
72.5°	931.1	1158.3	1435.9	1643.4	1716.4
75°	762.8	984.4	1273.2	1475.2	1556.5
77.5°	600.2	824.5	1116.2	1323.7	1393.8
80°	437.5	673.1	970.4	1175.1	1242.4
82.5°	288.9	535.7	830.1	1034.9	1107.8
85°	168.3	417.9	706.7	903.0	981.6
87.5°	72.9	316.9	591.7	785.3	849.8
90°	2.8	235.6	499.2	687.1	754.4
92.5°	2.8	230.0	488.0	673.1	737.6
95°	2.8	224.4	485.2	664.7	729.2
97.5°	2.8	221.6	479.6	659.1	720.8
100°	2.8	213.1	471.2	647.8	709.5
102.5°	2.8	201.9	462.7	636.6	695.5
105°	2.8	193.5	454.3	625.4	681.5
107.5°	2.8	185.1	440.3	611.4	667.5
110°	2.8	176.7	417.9	597.4	653.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	173.9	401.0	577.7	636.6
115°	5.6	168.3	384.2	555.3	617.0
117.5°	5.6	165.5	370.2	532.9	597.4
120°	5.6	157.1	356.2	513.2	574.9
122.5°	5.6	148.6	342.1	493.6	555.3
125°	5.6	143.0	328.1	474.0	532.9
127.5°	5.6	134.6	316.9	454.3	507.6
130°	5.6	129.0	302.9	431.9	485.2
132.5°	5.6	120.6	288.9	409.5	459.9
135°	5.6	112.2	274.8	389.8	437.5
137.5°	5.6	101.0	258.0	367.4	412.3
140°	5.6	92.5	235.6	345.0	387.0
142.5°	5.6	86.9	213.1	319.7	359.0
145°	5.6	81.3	190.7	294.5	330.9
147.5°	5.6	75.7	171.1	269.2	302.9
150°	5.6	67.3	151.4	246.8	274.8
152.5°	8.4	61.7	134.6	218.8	246.8
155°	8.4	56.1	117.8	187.9	218.8
157.5°	8.4	50.5	101.0	157.1	190.7
160°	8.4	44.9	86.9	129.0	162.7
162.5°	8.4	42.1	75.7	106.6	137.4
165°	8.4	36.5	64.5	86.9	112.2
167.5°	8.4	28.0	53.3	67.3	92.5
170°	8.4	22.4	42.1	47.7	70.1
172.5°	8.4	16.8	30.8	33.7	36.5
175°	8.4	14.0	19.6	19.6	11.2
177.5°	8.4	11.2	11.2	11.2	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)