

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: P567688

Luminaire Tested: **8SNX-200HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567688
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-L940-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

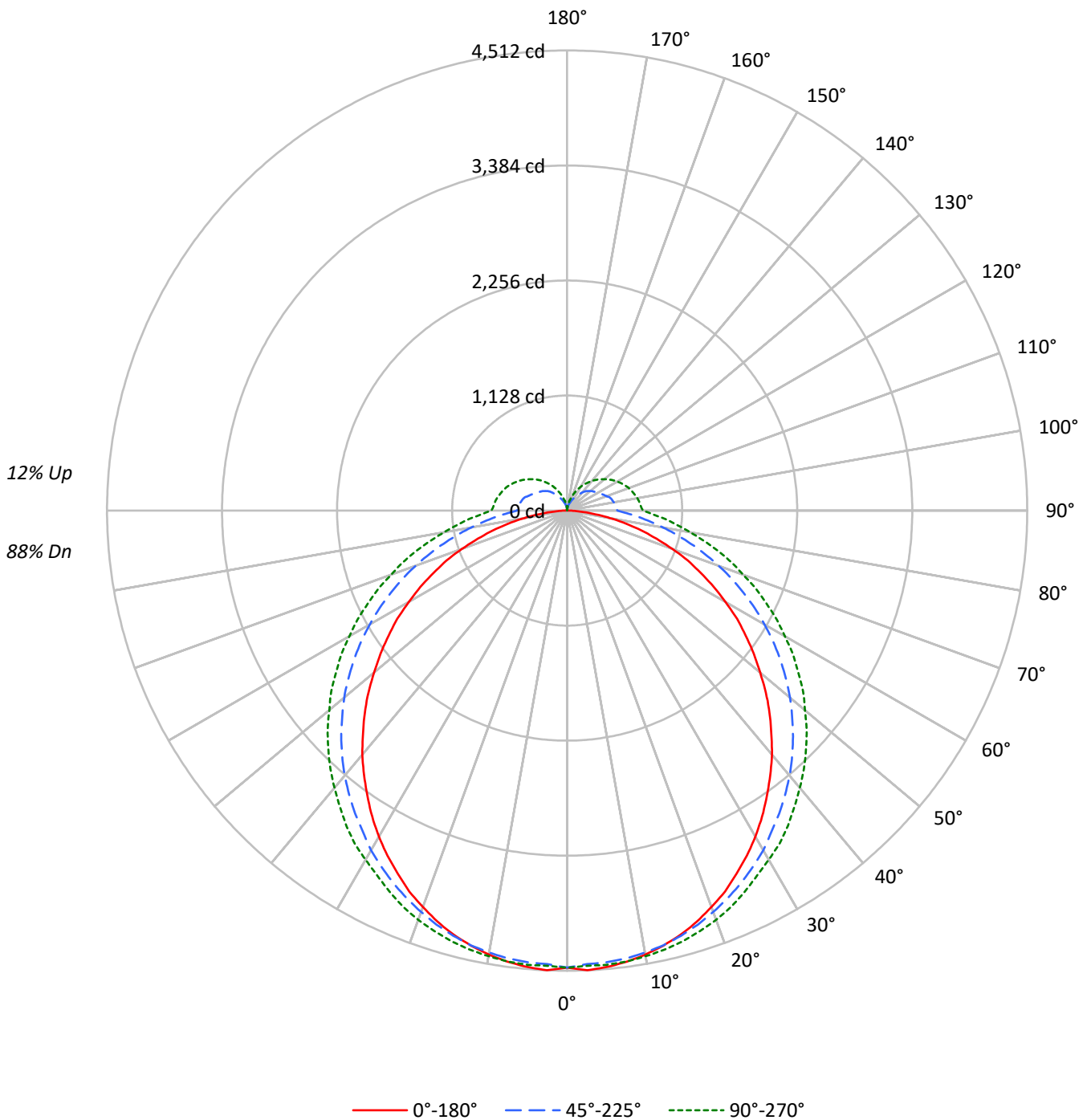
Lumens per Lamp: N/A
Luminaire Lumens: 16133.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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°	24117	24117	24117
5°	24258	23763	23803
10°	24135	23547	23555
15°	23949	23286	23326
20°	23642	22972	23064
25°	23273	22652	22713
30°	22869	22332	22412
35°	22354	21947	22204
40°	21857	21629	21882
45°	21253	21261	21610
50°	20553	20872	21267
55°	19891	20388	20960
60°	19127	19874	20584
65°	18197	19285	20216
70°	17016	18642	19799
75°	15329	17944	19657
80°	12975	17538	19501
85°	9663	17994	20555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	2.6
10°-20°	1223.7	7.6
20°-30°	1861.6	11.5
30°-40°	2263.6	14.0
40°-50°	2394.8	14.8
50°-60°	2244.8	13.9
60°-70°	1846.7	11.4
70°-80°	1277.8	7.9
80°-90°	710.5	4.4
90°-100°	468.1	2.9
100°-110°	419.7	2.6
110°-120°	347.4	2.2
120°-130°	268.6	1.7
130°-140°	190.1	1.2
140°-150°	114.7	0.7
150°-160°	55.1	0.3
160°-170°	18.0	0.1
170°-180°	2.2	0.0
0°-30°	3510.8	21.8
0°-40°	5774.4	35.8
0°-60°	10413.9	64.6
0°-90°	14249.0	88.3
90°-120°	1235.3	7.7
90°-150°	1808.7	11.2
90°-180°	1884.0	11.7
0°-180°	16133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4481	4481	4481	4481	4481	
5°	4492	4484	4445	4481	4470	426
15°	4304	4318	4315	4373	4373	1213
25°	3929	3984	4031	4119	4122	1811
35°	3415	3506	3625	3741	3774	2137
45°	2807	2953	3133	3274	3312	2163
55°	2136	2326	2550	2710	2766	1912
65°	1445	1652	1909	2097	2155	1433
75°	752	970	1254	1453	1533	797
85°	166	412	696	890	967	191
90°	3	232	492	677	743	11
95°	3	221	478	655	718	2
105°	3	191	448	616	671	3
115°	6	166	378	547	608	4
125°	6	141	323	467	525	5
135°	6	110	271	384	431	4
145°	6	80	188	290	326	3
155°	8	55	116	185	216	4
165°	8	36	64	86	110	2
175°	8	14	19	19	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4481.1	4481.1	4481.1	4481.1	4481.1
2.5°	4511.5	4497.7	4450.7	4481.1	4467.3
5°	4492.2	4483.9	4445.2	4481.1	4470.1
7.5°	4461.8	4459.0	4428.6	4470.1	4459.0
10°	4420.3	4425.9	4401.0	4445.2	4436.9
12.5°	4367.9	4376.1	4365.1	4414.8	4409.3
15°	4304.3	4318.1	4315.4	4373.4	4373.4
17.5°	4227.0	4246.3	4257.3	4323.6	4323.6
20°	4135.8	4166.2	4188.3	4260.1	4271.2
22.5°	4044.6	4080.5	4113.7	4188.3	4204.9
25°	3928.6	3983.8	4030.8	4119.2	4122.0
27.5°	3815.3	3876.1	3939.6	4025.3	4033.6
30°	3691.0	3768.3	3845.7	3928.6	3953.4
32.5°	3558.4	3644.0	3729.7	3840.2	3873.3
35°	3414.7	3505.9	3624.7	3740.7	3773.9
37.5°	3271.1	3373.3	3511.4	3630.2	3660.6
40°	3124.6	3237.9	3392.6	3514.2	3550.1
42.5°	2961.6	3099.8	3265.5	3395.4	3436.8
45°	2806.9	2953.3	3132.9	3273.8	3312.5
47.5°	2643.9	2798.6	2992.0	3141.2	3185.4
50°	2469.9	2646.7	2853.9	3003.1	3044.5
52.5°	2306.9	2486.4	2704.7	2859.4	2917.4
55°	2135.6	2326.2	2550.0	2710.2	2765.5
57.5°	1975.3	2157.7	2398.0	2558.3	2627.3
60°	1793.0	1994.7	2235.0	2409.1	2464.3
62.5°	1621.7	1826.2	2074.8	2254.4	2317.9
65°	1444.9	1652.1	1909.0	2096.9	2154.9
67.5°	1279.1	1483.6	1746.0	1931.1	2005.7
70°	1096.8	1312.3	1580.3	1770.9	1834.4
72.5°	917.2	1141.0	1414.5	1619.0	1690.8
75°	751.5	969.7	1254.3	1453.2	1533.3
77.5°	591.2	812.2	1099.6	1304.0	1373.1
80°	431.0	663.1	955.9	1157.6	1223.9
82.5°	284.6	527.7	817.8	1019.4	1091.3
85°	165.8	411.6	696.2	889.6	967.0
87.5°	71.8	312.2	582.9	773.6	837.1
90°	2.8	232.1	491.8	676.9	743.2
92.5°	2.8	226.5	480.7	663.1	726.6
95°	2.8	221.0	477.9	654.8	718.3
97.5°	2.8	218.3	472.4	649.2	710.0
100°	2.8	210.0	464.1	638.2	699.0
102.5°	2.8	198.9	455.8	627.1	685.2
105°	2.8	190.6	447.6	616.1	671.3
107.5°	2.8	182.3	433.7	602.3	657.5
110°	2.8	174.1	411.6	588.5	643.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	171.3	395.1	569.1	627.1
115°	5.5	165.8	378.5	547.0	607.8
117.5°	5.5	163.0	364.7	524.9	588.5
120°	5.5	154.7	350.9	505.6	566.4
122.5°	5.5	146.4	337.1	486.2	547.0
125°	5.5	140.9	323.2	466.9	524.9
127.5°	5.5	132.6	312.2	447.6	500.1
130°	5.5	127.1	298.4	425.5	477.9
132.5°	5.5	118.8	284.6	403.4	453.1
135°	5.5	110.5	270.7	384.0	431.0
137.5°	5.5	99.5	254.2	361.9	406.1
140°	5.5	91.2	232.1	339.8	381.3
142.5°	5.5	85.6	210.0	314.9	353.6
145°	5.5	80.1	187.9	290.1	326.0
147.5°	5.5	74.6	168.5	265.2	298.4
150°	5.5	66.3	149.2	243.1	270.7
152.5°	8.3	60.8	132.6	215.5	243.1
155°	8.3	55.3	116.0	185.1	215.5
157.5°	8.3	49.7	99.5	154.7	187.9
160°	8.3	44.2	85.6	127.1	160.2
162.5°	8.3	41.4	74.6	105.0	135.4
165°	8.3	35.9	63.5	85.6	110.5
167.5°	8.3	27.6	52.5	66.3	91.2
170°	8.3	22.1	41.4	47.0	69.1
172.5°	8.3	16.6	30.4	33.2	35.9
175°	8.3	13.8	19.3	19.3	11.1
177.5°	8.3	11.1	11.1	11.1	5.5
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)