

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: P567593

Luminaire Tested: **8SNX-180HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567593
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-180HL-FDL-UNV-L950-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

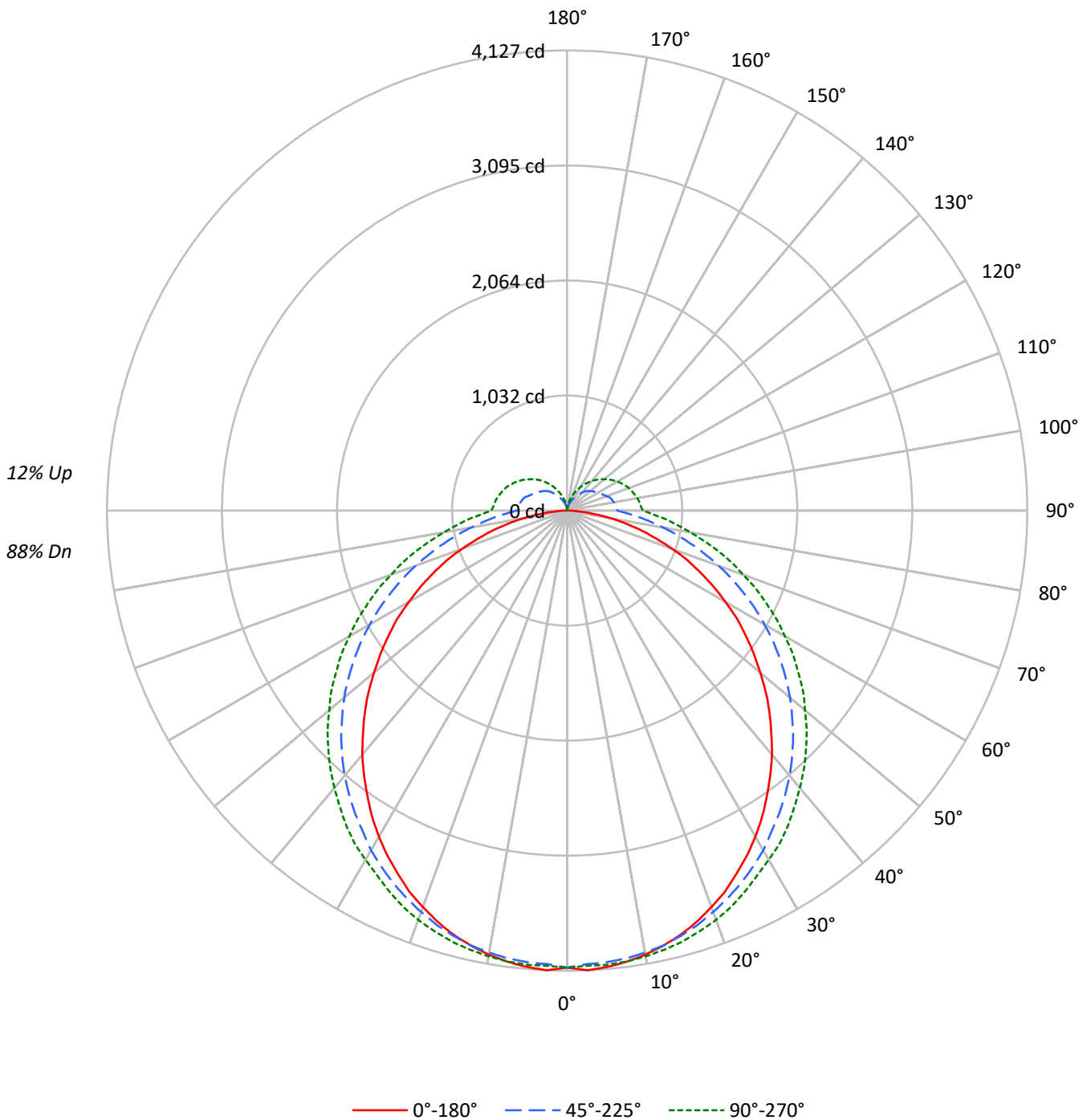
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14757.0 lumens
Efficiency: N/A
Efficacy: 114.6 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): 128.8
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	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°	22060	22060	22060
5°	22189	21736	21772
10°	22076	21538	21546
15°	21907	21300	21337
20°	21626	21013	21096
25°	21288	20720	20775
30°	20919	20428	20501
35°	20447	20075	20310
40°	19993	19785	20015
45°	19441	19448	19767
50°	18799	19092	19453
55°	18194	18649	19172
60°	17496	18179	18829
65°	16646	17640	18492
70°	15565	17052	18111
75°	14021	16413	17980
80°	11867	16043	17837
85°	8835	16459	18801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	2.6
10°-20°	1119.4	7.6
20°-30°	1702.9	11.5
30°-40°	2070.5	14.0
40°-50°	2190.5	14.8
50°-60°	2053.3	13.9
60°-70°	1689.2	11.4
70°-80°	1168.8	7.9
80°-90°	649.9	4.4
90°-100°	428.2	2.9
100°-110°	383.9	2.6
110°-120°	317.8	2.2
120°-130°	245.7	1.7
130°-140°	173.9	1.2
140°-150°	104.9	0.7
150°-160°	50.4	0.3
160°-170°	16.5	0.1
170°-180°	2.0	0.0
0°-30°	3211.3	21.8
0°-40°	5281.9	35.8
0°-60°	9525.7	64.6
0°-90°	13033.7	88.3
90°-120°	1129.9	7.7
90°-150°	1654.4	11.2
90°-180°	1723.0	11.7
0°-180°	14757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4099	4099	4099	4099	4099	
5°	4109	4102	4066	4099	4089	390
15°	3937	3950	3947	4000	4000	1110
25°	3594	3644	3687	3768	3770	1656
35°	3124	3207	3316	3422	3452	1955
45°	2568	2701	2866	2995	3030	1979
55°	1953	2128	2332	2479	2530	1749
65°	1322	1511	1746	1918	1971	1310
75°	687	887	1147	1329	1402	729
85°	152	376	637	814	884	175
90°	2	212	450	619	680	10
95°	2	202	437	599	657	2
105°	2	174	409	564	614	3
115°	5	152	346	500	556	4
125°	5	129	296	427	480	5
135°	5	101	248	351	394	4
145°	5	73	172	265	298	3
155°	8	50	106	169	197	3
165°	8	33	58	78	101	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4098.9	4098.9	4098.9	4098.9	4098.9
2.5°	4126.7	4114.1	4071.1	4098.9	4086.3
5°	4109.0	4101.5	4066.1	4098.9	4088.8
7.5°	4081.2	4078.7	4050.9	4088.8	4078.7
10°	4043.3	4048.4	4025.6	4066.1	4058.5
12.5°	3995.3	4002.9	3992.8	4038.3	4033.2
15°	3937.2	3949.8	3947.3	4000.4	4000.4
17.5°	3866.4	3884.1	3894.2	3954.9	3954.9
20°	3783.0	3810.8	3831.1	3896.8	3906.9
22.5°	3699.6	3732.5	3762.8	3831.1	3846.2
25°	3593.5	3644.0	3687.0	3767.9	3770.4
27.5°	3489.9	3545.5	3603.6	3682.0	3689.5
30°	3376.2	3446.9	3517.7	3593.5	3616.3
32.5°	3254.9	3333.2	3411.6	3512.6	3543.0
35°	3123.5	3206.9	3315.5	3421.7	3452.0
37.5°	2992.1	3085.6	3211.9	3320.6	3348.4
40°	2858.1	2961.7	3103.3	3214.4	3247.3
42.5°	2709.0	2835.4	2987.0	3105.8	3143.7
45°	2567.5	2701.4	2865.7	2994.6	3030.0
47.5°	2418.4	2559.9	2736.8	2873.3	2913.7
50°	2259.2	2420.9	2610.5	2746.9	2784.8
52.5°	2110.1	2274.4	2474.0	2615.5	2668.6
55°	1953.4	2127.8	2332.5	2479.1	2529.6
57.5°	1806.9	1973.6	2193.5	2340.1	2403.3
60°	1640.1	1824.6	2044.4	2203.6	2254.2
62.5°	1483.4	1670.4	1897.8	2062.1	2120.2
65°	1321.7	1511.2	1746.2	1918.1	1971.1
67.5°	1170.0	1357.0	1597.1	1766.4	1834.7
70°	1003.3	1200.4	1445.5	1619.9	1678.0
72.5°	839.0	1043.7	1293.9	1480.9	1546.6
75°	687.4	887.0	1147.3	1329.2	1402.5
77.5°	540.8	743.0	1005.8	1192.8	1256.0
80°	394.2	606.5	874.4	1058.8	1119.5
82.5°	260.3	482.7	748.0	932.5	998.2
85°	151.6	376.5	636.8	813.7	884.5
87.5°	65.7	285.6	533.2	707.6	765.7
90°	2.5	212.3	449.8	619.1	679.8
92.5°	2.5	207.2	439.7	606.5	664.6
95°	2.5	202.2	437.2	598.9	657.0
97.5°	2.5	199.6	432.1	593.9	649.5
100°	2.5	192.1	424.5	583.8	639.4
102.5°	2.5	181.9	417.0	573.6	626.7
105°	2.5	174.4	409.4	563.5	614.1
107.5°	2.5	166.8	396.8	550.9	601.4
110°	2.5	159.2	376.5	538.3	588.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	156.7	361.4	520.6	573.6
115°	5.1	151.6	346.2	500.4	556.0
117.5°	5.1	149.1	333.6	480.1	538.3
120°	5.1	141.5	320.9	462.5	518.1
122.5°	5.1	133.9	308.3	444.8	500.4
125°	5.1	128.9	295.7	427.1	480.1
127.5°	5.1	121.3	285.6	409.4	457.4
130°	5.1	116.2	272.9	389.2	437.2
132.5°	5.1	108.7	260.3	369.0	414.4
135°	5.1	101.1	247.7	351.3	394.2
137.5°	5.1	91.0	232.5	331.0	371.5
140°	5.1	83.4	212.3	310.8	348.7
142.5°	5.1	78.3	192.1	288.1	323.5
145°	5.1	73.3	171.8	265.3	298.2
147.5°	5.1	68.2	154.2	242.6	272.9
150°	5.1	60.6	136.5	222.4	247.7
152.5°	7.6	55.6	121.3	197.1	222.4
155°	7.6	50.5	106.1	169.3	197.1
157.5°	7.6	45.5	91.0	141.5	171.8
160°	7.6	40.4	78.3	116.2	146.6
162.5°	7.6	37.9	68.2	96.0	123.8
165°	7.6	32.9	58.1	78.3	101.1
167.5°	7.6	25.3	48.0	60.6	83.4
170°	7.6	20.2	37.9	43.0	63.2
172.5°	7.6	15.2	27.8	30.3	32.9
175°	7.6	12.6	17.7	17.7	10.1
177.5°	7.6	10.1	10.1	10.1	5.1
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)