

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: P567607

Luminaire Tested: **8SNX-180HL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567607
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-180HL-LN-UNV-L935-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

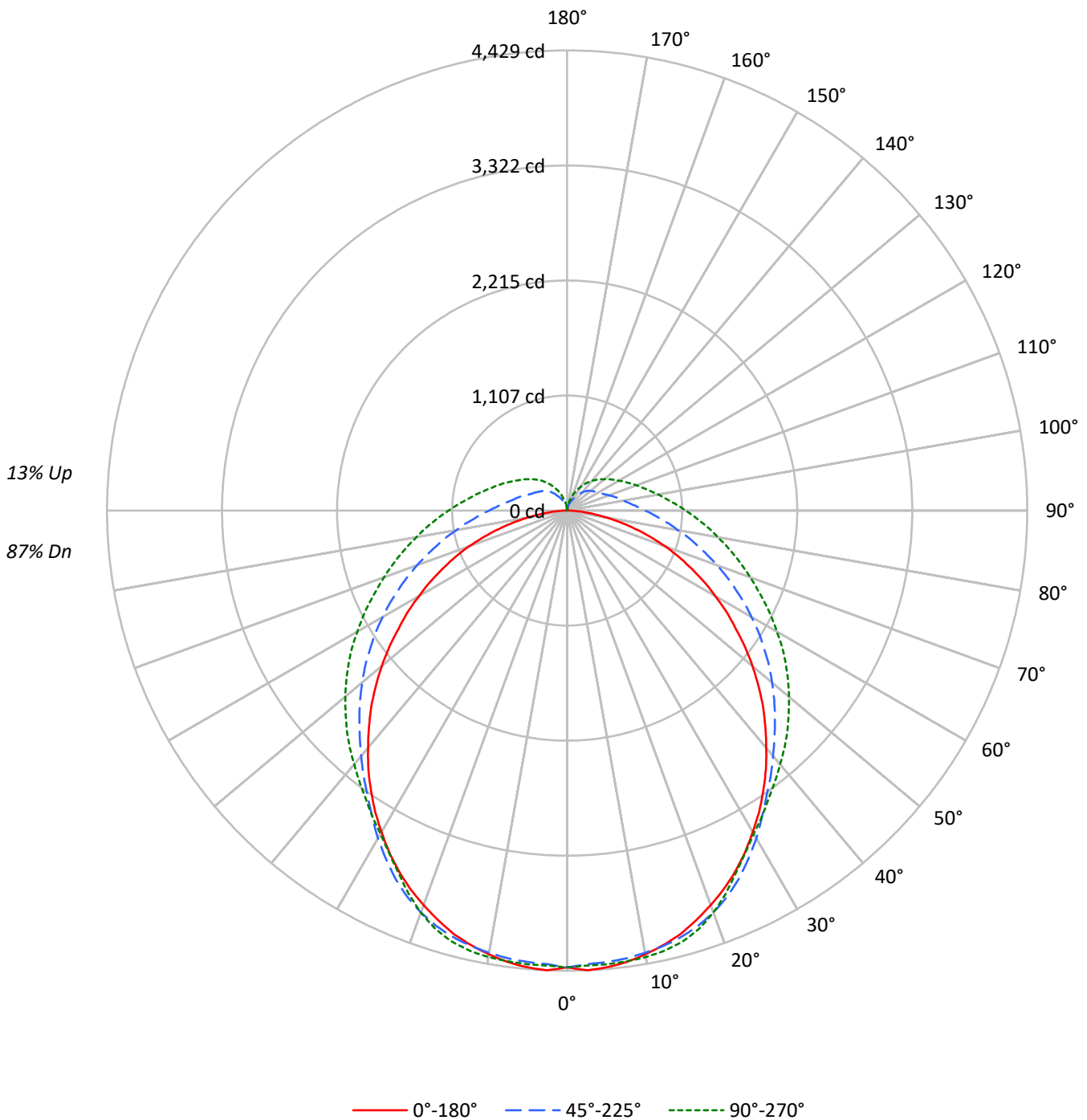
Lumens per Lamp: N/A
Luminaire Lumens: 15870.1 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	23661	23661	23661
5°	23795	22601	22373
10°	23615	21750	21341
15°	23375	20943	20299
20°	22971	20032	18973
25°	22533	18925	17417
30°	21941	17677	16118
35°	21308	16406	15149
40°	20584	15386	14364
45°	19880	14482	13687
50°	19036	13650	13005
55°	18044	12814	12337
60°	17107	11980	11640
65°	16070	11138	10999
70°	14897	10350	10421
75°	13029	9582	9944
80°	10591	8923	9541
85°	7651	8463	9309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.6	2.6
10°-20°	1200.8	7.6
20°-30°	1788.0	11.3
30°-40°	2109.8	13.3
40°-50°	2200.3	13.9
50°-60°	2067.7	13.0
60°-70°	1746.2	11.0
70°-80°	1319.4	8.3
80°-90°	909.5	5.7
90°-100°	636.5	4.0
100°-110°	474.9	3.0
110°-120°	358.0	2.3
120°-130°	267.0	1.7
130°-140°	187.4	1.2
140°-150°	113.3	0.7
150°-160°	54.2	0.3
160°-170°	17.4	0.1
170°-180°	2.1	0.0
0°-30°	3406.4	21.5
0°-40°	5516.2	34.8
0°-60°	9784.2	61.7
0°-90°	13759.2	86.7
90°-120°	1469.4	9.3
90°-150°	2037.2	12.8
90°-180°	2111.0	13.3
0°-180°	15870.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4396	4396	4396	4396	4396	
5°	4412	4404	4361	4394	4383	419
15°	4219	4238	4248	4302	4294	1188
25°	3831	3909	3909	3874	3845	1763
35°	3290	3412	3347	3374	3382	2058
45°	2666	2798	2828	2943	2997	2053
55°	1980	2150	2314	2500	2567	1777
65°	1318	1528	1786	2021	2099	1309
75°	675	936	1297	1569	1668	719
85°	153	482	899	1195	1300	172
90°	3	342	751	1038	1141	11
95°	3	266	635	909	1004	2
105°	5	191	490	710	791	5
115°	5	164	379	565	638	6
125°	8	140	320	463	522	7
135°	8	108	266	377	422	6
145°	11	78	186	288	323	6
155°	11	51	113	183	212	5
165°	14	32	59	81	108	4
175°	14	14	16	16	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4396.3	4396.3	4396.3	4396.3	4396.3
2.5°	4428.6	4417.8	4369.4	4396.3	4382.8
5°	4412.4	4404.4	4361.3	4393.6	4382.8
7.5°	4382.8	4380.1	4347.9	4385.5	4374.8
10°	4337.1	4345.2	4321.0	4372.1	4364.0
12.5°	4283.3	4299.4	4291.4	4347.9	4339.8
15°	4218.7	4237.5	4248.3	4302.1	4294.0
17.5°	4132.6	4167.6	4191.8	4234.9	4221.4
20°	4041.1	4089.6	4116.5	4138.0	4116.5
22.5°	3941.6	4006.2	4022.3	4011.5	3990.0
25°	3831.3	3909.3	3909.3	3874.3	3844.7
27.5°	3707.5	3804.4	3777.5	3737.1	3712.9
30°	3573.0	3688.7	3642.9	3597.2	3591.8
32.5°	3438.5	3559.5	3492.3	3481.5	3489.6
35°	3290.5	3411.6	3347.0	3373.9	3382.0
37.5°	3142.5	3263.6	3220.5	3260.9	3285.1
40°	2981.1	3110.2	3083.3	3156.0	3188.2
42.5°	2822.3	2956.9	2954.2	3048.3	3096.8
45°	2666.3	2798.1	2827.7	2943.4	2997.2
47.5°	2496.8	2631.3	2704.0	2838.5	2892.3
50°	2330.0	2475.3	2574.8	2725.5	2787.4
52.5°	2157.8	2311.1	2448.4	2615.2	2679.7
55°	1980.2	2149.7	2313.8	2499.5	2566.7
57.5°	1821.5	1993.7	2187.4	2378.4	2456.4
60°	1646.6	1837.6	2050.2	2252.0	2330.0
62.5°	1487.8	1684.3	1921.0	2133.6	2217.0
65°	1318.3	1528.2	1786.5	2020.6	2098.6
67.5°	1162.3	1377.5	1660.0	1896.8	1982.9
70°	1000.9	1229.6	1536.3	1786.5	1875.3
72.5°	834.1	1076.2	1412.5	1678.9	1770.4
75°	675.3	936.3	1296.8	1568.6	1668.1
77.5°	527.3	801.8	1191.9	1471.7	1568.6
80°	382.1	680.7	1081.6	1372.2	1471.7
82.5°	252.9	575.8	992.8	1283.4	1388.3
85°	153.4	481.6	898.6	1194.6	1299.5
87.5°	70.0	403.6	823.3	1116.6	1218.8
90°	2.7	341.7	750.7	1038.5	1140.8
92.5°	2.7	298.6	691.5	971.3	1070.8
95°	2.7	266.4	635.0	909.4	1003.6
97.5°	2.7	244.8	591.9	850.2	941.7
100°	2.7	223.3	548.9	796.4	890.6
102.5°	5.4	204.5	516.6	748.0	836.7
105°	5.4	191.0	489.7	710.3	791.0
107.5°	5.4	183.0	460.1	672.6	748.0
110°	5.4	174.9	427.8	635.0	710.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	169.5	403.6	602.7	675.3
115°	5.4	164.1	379.4	565.0	637.6
117.5°	5.4	161.4	365.9	535.4	605.4
120°	8.1	153.4	349.8	508.5	575.8
122.5°	8.1	145.3	333.6	487.0	546.2
125°	8.1	139.9	320.2	462.8	522.0
127.5°	8.1	131.8	306.7	441.2	495.1
130°	8.1	123.8	296.0	419.7	470.8
132.5°	8.1	115.7	282.5	398.2	446.6
135°	8.1	107.6	266.4	376.7	422.4
137.5°	8.1	99.5	250.2	355.1	398.2
140°	8.1	91.5	228.7	333.6	374.0
142.5°	8.1	83.4	207.2	312.1	347.1
145°	10.8	78.0	185.6	287.9	322.9
147.5°	10.8	70.0	164.1	263.7	293.3
150°	10.8	64.6	148.0	239.5	266.4
152.5°	10.8	56.5	131.8	212.5	239.5
155°	10.8	51.1	113.0	183.0	212.5
157.5°	10.8	45.7	96.9	153.4	185.6
160°	10.8	43.0	83.4	126.5	158.7
162.5°	13.5	37.7	70.0	102.2	131.8
165°	13.5	32.3	59.2	80.7	107.6
167.5°	13.5	26.9	48.4	61.9	83.4
170°	13.5	21.5	37.7	43.0	64.6
172.5°	13.5	16.1	26.9	29.6	32.3
175°	13.5	13.5	16.1	16.1	8.1
177.5°	13.5	13.5	10.8	8.1	2.7
180°	8.1	8.1	8.1	8.1	8.1

(END OF REPORT)