

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: P567576

Luminaire Tested: **8SNX-174HL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567576
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-174HL-SLW-UNV-L940-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

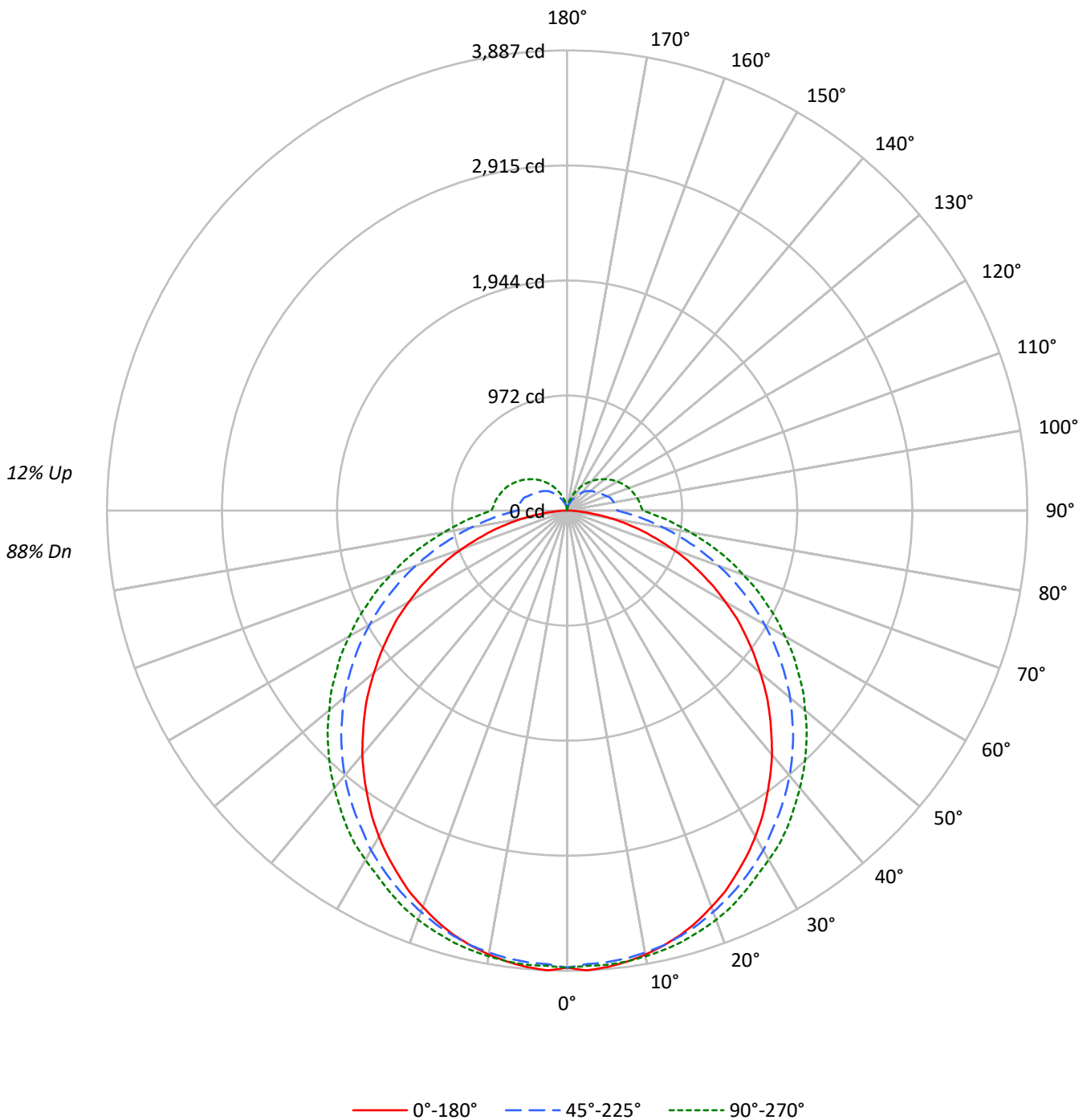
Lumens per Lamp: N/A
Luminaire Lumens: 13900.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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°	20779	20779	20779
5°	20891	20262	20220
10°	20775	19874	19736
15°	20606	19455	19280
20°	20332	18994	18804
25°	20003	18531	18262
30°	19645	18066	17763
35°	19191	17545	17333
40°	18751	17069	16807
45°	18218	16541	16308
50°	17600	15978	15736
55°	17013	15318	15166
60°	16335	14604	14510
65°	15508	13788	13811
70°	14458	12866	13006
75°	12960	11806	12269
80°	10868	10757	11337
85°	7883	9832	10729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	2.6
10°-20°	1054.4	7.6
20°-30°	1604.0	11.5
30°-40°	1950.3	14.0
40°-50°	2063.3	14.8
50°-60°	1934.1	13.9
60°-70°	1591.1	11.4
70°-80°	1100.9	7.9
80°-90°	612.2	4.4
90°-100°	403.3	2.9
100°-110°	361.7	2.6
110°-120°	299.3	2.2
120°-130°	231.4	1.7
130°-140°	163.8	1.2
140°-150°	98.8	0.7
150°-160°	47.5	0.3
160°-170°	15.5	0.1
170°-180°	1.9	0.0
0°-30°	3024.9	21.8
0°-40°	4975.1	35.8
0°-60°	8972.5	64.6
0°-90°	12276.7	88.3
90°-120°	1064.3	7.7
90°-150°	1558.4	11.2
90°-180°	1623.0	11.7
0°-180°	13900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3861	3861	3861	3861	3861	
5°	3870	3863	3830	3861	3851	367
15°	3708	3720	3718	3768	3768	1045
25°	3385	3432	3473	3549	3551	1560
35°	2942	3021	3123	3223	3252	1841
45°	2418	2545	2699	2821	2854	1864
55°	1840	2004	2197	2335	2383	1647
65°	1245	1423	1645	1807	1857	1234
75°	647	836	1081	1252	1321	687
85°	143	355	600	766	833	164
90°	2	200	424	583	640	9
95°	2	190	412	564	619	2
105°	2	164	386	531	578	3
115°	5	143	326	471	524	4
125°	5	121	278	402	452	4
135°	5	95	233	331	371	4
145°	5	69	162	250	281	3
155°	7	48	100	160	186	3
165°	7	31	55	74	95	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3860.9	3860.9	3860.9	3860.9	3860.9
2.5°	3887.1	3875.2	3834.7	3860.9	3849.0
5°	3870.4	3863.3	3829.9	3860.9	3851.4
7.5°	3844.2	3841.8	3815.7	3851.4	3841.8
10°	3808.5	3813.3	3791.9	3829.9	3822.8
12.5°	3763.3	3770.4	3760.9	3803.8	3799.0
15°	3708.5	3720.4	3718.1	3768.1	3768.1
17.5°	3641.9	3658.6	3668.1	3725.2	3725.2
20°	3563.3	3589.5	3608.6	3670.5	3680.0
22.5°	3484.8	3515.7	3544.3	3608.6	3622.9
25°	3384.8	3432.4	3472.9	3549.1	3551.4
27.5°	3287.2	3339.6	3394.3	3468.1	3475.3
30°	3180.1	3246.8	3313.4	3384.8	3406.2
32.5°	3065.9	3139.6	3213.4	3308.6	3337.2
35°	2942.1	3020.6	3123.0	3223.0	3251.5
37.5°	2818.3	2906.4	3025.4	3127.7	3153.9
40°	2692.1	2789.7	2923.0	3027.8	3058.7
42.5°	2551.7	2670.7	2813.5	2925.4	2961.1
45°	2418.4	2544.6	2699.3	2820.7	2854.0
47.5°	2278.0	2411.3	2577.9	2706.4	2744.5
50°	2128.0	2280.3	2458.9	2587.4	2623.1
52.5°	1987.6	2142.3	2330.3	2463.6	2513.6
55°	1840.0	2004.2	2197.0	2335.1	2382.7
57.5°	1701.9	1859.0	2066.1	2204.2	2263.7
60°	1544.8	1718.6	1925.7	2075.6	2123.2
62.5°	1397.2	1573.4	1787.6	1942.3	1997.1
65°	1244.9	1423.4	1644.8	1806.7	1856.7
67.5°	1102.1	1278.2	1504.4	1663.8	1728.1
70°	945.0	1130.7	1361.5	1525.8	1580.5
72.5°	790.3	983.1	1218.7	1394.9	1456.8
75°	647.4	835.5	1080.7	1252.0	1321.1
77.5°	509.4	699.8	947.4	1123.5	1183.0
80°	371.3	571.3	823.6	997.4	1054.5
82.5°	245.2	454.6	704.6	878.3	940.2
85°	142.8	354.7	599.8	766.5	833.1
87.5°	61.9	269.0	502.2	666.5	721.2
90°	2.4	199.9	423.7	583.2	640.3
92.5°	2.4	195.2	414.2	571.3	626.0
95°	2.4	190.4	411.8	564.1	618.9
97.5°	2.4	188.0	407.0	559.4	611.7
100°	2.4	180.9	399.9	549.9	602.2
102.5°	2.4	171.4	392.8	540.3	590.3
105°	2.4	164.2	385.6	530.8	578.4
107.5°	2.4	157.1	373.7	518.9	566.5
110°	2.4	150.0	354.7	507.0	554.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	147.6	340.4	490.3	540.3
115°	4.8	142.8	326.1	471.3	523.7
117.5°	4.8	140.4	314.2	452.3	507.0
120°	4.8	133.3	302.3	435.6	488.0
122.5°	4.8	126.2	290.4	418.9	471.3
125°	4.8	121.4	278.5	402.3	452.3
127.5°	4.8	114.3	269.0	385.6	430.8
130°	4.8	109.5	257.1	366.6	411.8
132.5°	4.8	102.4	245.2	347.5	390.4
135°	4.8	95.2	233.3	330.9	371.3
137.5°	4.8	85.7	219.0	311.8	349.9
140°	4.8	78.6	199.9	292.8	328.5
142.5°	4.8	73.8	180.9	271.4	304.7
145°	4.8	69.0	161.9	249.9	280.9
147.5°	4.8	64.3	145.2	228.5	257.1
150°	4.8	57.1	128.5	209.5	233.3
152.5°	7.1	52.4	114.3	185.7	209.5
155°	7.1	47.6	100.0	159.5	185.7
157.5°	7.1	42.8	85.7	133.3	161.9
160°	7.1	38.1	73.8	109.5	138.1
162.5°	7.1	35.7	64.3	90.5	116.6
165°	7.1	30.9	54.7	73.8	95.2
167.5°	7.1	23.8	45.2	57.1	78.6
170°	7.1	19.0	35.7	40.5	59.5
172.5°	7.1	14.3	26.2	28.6	30.9
175°	7.1	11.9	16.7	16.7	9.5
177.5°	7.1	9.5	9.5	9.5	4.8
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)