

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: P567564

Luminaire Tested: **8SNX-174HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567564
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-LW-UNV-L840-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

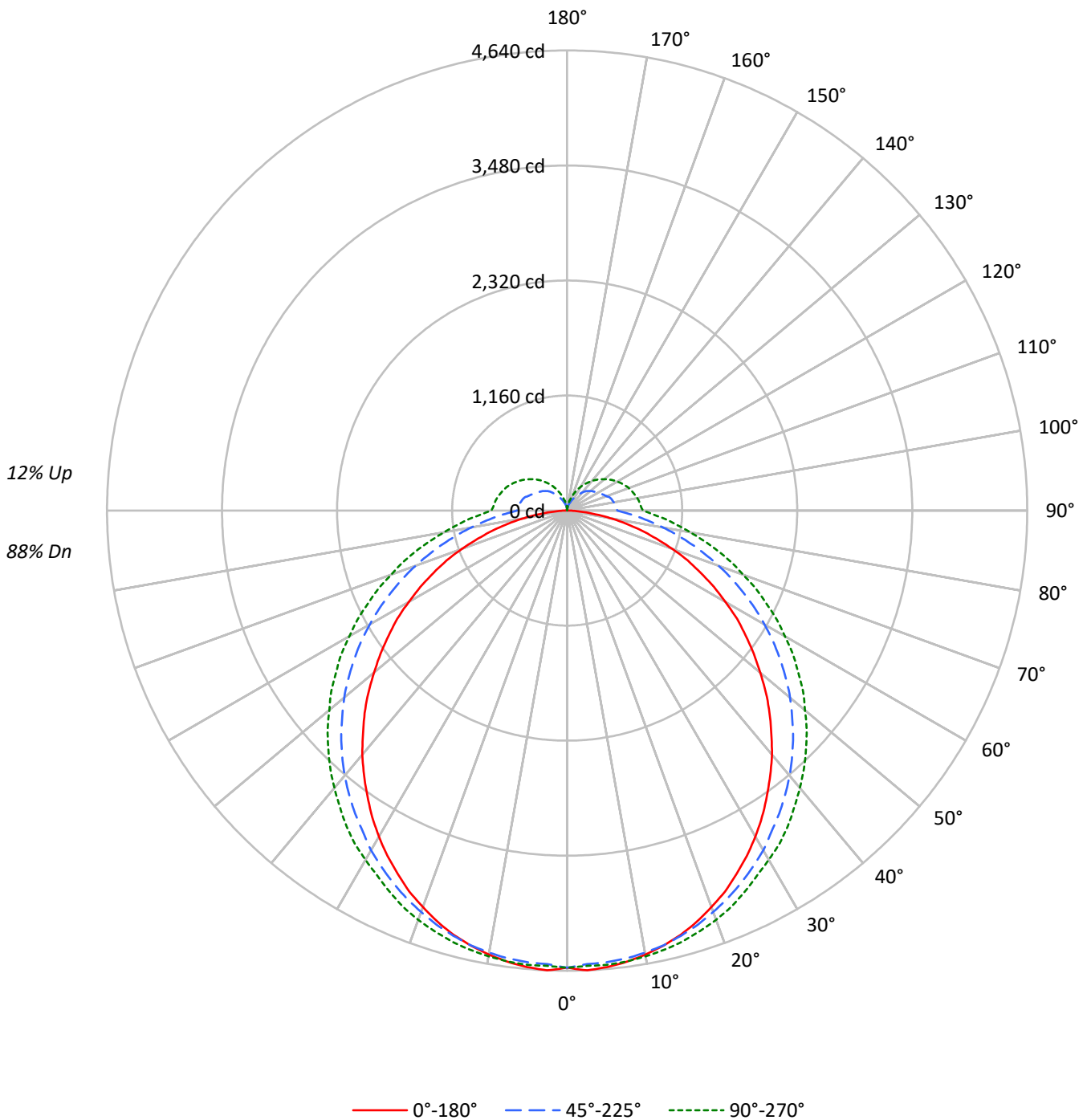
Lumens per Lamp: N/A
Luminaire Lumens: 16593.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	24805	24805	24805
5°	24916	23693	23469
10°	24755	22784	22316
15°	24529	21880	21264
20°	24179	20963	20247
25°	23764	20069	19205
30°	23311	19194	18246
35°	22743	18273	17386
40°	22190	17412	16450
45°	21525	16502	15558
50°	20754	15561	14610
55°	20015	14525	13672
60°	19158	13433	12662
65°	18116	12242	11617
70°	16790	10950	10484
75°	14912	9531	9401
80°	12288	8111	8160
85°	8504	6744	7124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	2.6
10°-20°	1258.6	7.6
20°-30°	1914.7	11.5
30°-40°	2328.1	14.0
40°-50°	2463.1	14.8
50°-60°	2308.8	13.9
60°-70°	1899.4	11.4
70°-80°	1314.2	7.9
80°-90°	730.8	4.4
90°-100°	481.4	2.9
100°-110°	431.7	2.6
110°-120°	357.3	2.2
120°-130°	276.3	1.7
130°-140°	195.6	1.2
140°-150°	118.0	0.7
150°-160°	56.7	0.3
160°-170°	18.5	0.1
170°-180°	2.3	0.0
0°-30°	3610.9	21.8
0°-40°	5939.0	35.8
0°-60°	10710.9	64.6
0°-90°	14655.3	88.3
90°-120°	1270.5	7.7
90°-150°	1860.3	11.2
90°-180°	1938.0	11.7
0°-180°	16593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4609	4609	4609	4609	4609	
5°	4620	4612	4572	4609	4598	439
15°	4427	4441	4438	4498	4498	1248
25°	4041	4097	4146	4237	4240	1862
35°	3512	3606	3728	3847	3882	2198
45°	2887	3038	3222	3367	3407	2225
55°	2196	2392	2623	2788	2844	1966
65°	1486	1699	1964	2157	2216	1473
75°	773	997	1290	1495	1577	820
85°	170	423	716	915	994	196
90°	3	239	506	696	764	11
95°	3	227	492	673	739	2
105°	3	196	460	634	690	3
115°	6	170	389	563	625	5
125°	6	145	332	480	540	5
135°	6	114	278	395	443	4
145°	6	82	193	298	335	4
155°	8	57	119	190	222	4
165°	8	37	65	88	114	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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CATALOG NUMBER: 8SNX-174HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4608.9	4608.9	4608.9	4608.9	4608.9
2.5°	4640.2	4625.9	4577.6	4608.9	4594.7
5°	4620.3	4611.7	4572.0	4608.9	4597.5
7.5°	4589.0	4586.2	4554.9	4597.5	4586.2
10°	4546.4	4552.1	4526.5	4572.0	4563.4
12.5°	4492.4	4500.9	4489.6	4540.7	4535.0
15°	4427.0	4441.2	4438.4	4498.1	4498.1
17.5°	4347.5	4367.4	4378.7	4446.9	4446.9
20°	4253.7	4285.0	4307.7	4381.6	4392.9
22.5°	4159.9	4196.9	4231.0	4307.7	4324.7
25°	4040.6	4097.4	4145.7	4236.7	4239.5
27.5°	3924.1	3986.6	4052.0	4140.0	4148.6
30°	3796.2	3875.8	3955.4	4040.6	4066.2
32.5°	3659.8	3747.9	3836.0	3949.7	3983.8
35°	3512.1	3605.8	3728.0	3847.4	3881.5
37.5°	3364.3	3469.5	3611.5	3733.7	3765.0
40°	3213.7	3330.2	3489.3	3614.4	3651.3
42.5°	3046.1	3188.1	3358.6	3492.2	3534.8
45°	2887.0	3037.6	3222.2	3367.2	3406.9
47.5°	2719.3	2878.4	3077.3	3230.8	3276.2
50°	2540.3	2722.1	2935.3	3088.7	3131.3
52.5°	2372.6	2557.3	2781.8	2940.9	3000.6
55°	2196.5	2392.5	2622.7	2787.5	2844.3
57.5°	2031.7	2219.2	2466.4	2631.2	2702.3
60°	1844.1	2051.6	2298.8	2477.8	2534.6
62.5°	1668.0	1878.2	2134.0	2318.7	2384.0
65°	1486.1	1699.2	1963.5	2156.7	2216.4
67.5°	1315.6	1525.9	1795.8	1986.2	2062.9
70°	1128.1	1349.7	1625.3	1821.4	1886.7
72.5°	943.4	1173.5	1454.8	1665.1	1739.0
75°	772.9	997.4	1290.0	1494.6	1577.0
77.5°	608.1	835.4	1130.9	1341.2	1412.2
80°	443.3	682.0	983.2	1190.6	1258.8
82.5°	292.7	542.7	841.1	1048.5	1122.4
85°	170.5	423.4	716.1	915.0	994.5
87.5°	73.9	321.1	599.6	795.6	861.0
90°	2.8	238.7	505.8	696.2	764.4
92.5°	2.8	233.0	494.4	682.0	747.3
95°	2.8	227.3	491.6	673.4	738.8
97.5°	2.8	224.5	485.9	667.7	730.3
100°	2.8	216.0	477.4	656.4	718.9
102.5°	2.8	204.6	468.8	645.0	704.7
105°	2.8	196.1	460.3	633.7	690.5
107.5°	2.8	187.5	446.1	619.4	676.3
110°	2.8	179.0	423.4	605.2	662.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	176.2	406.3	585.3	645.0
115°	5.7	170.5	389.3	562.6	625.1
117.5°	5.7	167.6	375.1	539.9	605.2
120°	5.7	159.1	360.9	520.0	582.5
122.5°	5.7	150.6	346.7	500.1	562.6
125°	5.7	144.9	332.5	480.2	539.9
127.5°	5.7	136.4	321.1	460.3	514.3
130°	5.7	130.7	306.9	437.6	491.6
132.5°	5.7	122.2	292.7	414.9	466.0
135°	5.7	113.7	278.5	395.0	443.3
137.5°	5.7	102.3	261.4	372.2	417.7
140°	5.7	93.8	238.7	349.5	392.1
142.5°	5.7	88.1	216.0	323.9	363.7
145°	5.7	82.4	193.2	298.4	335.3
147.5°	5.7	76.7	173.3	272.8	306.9
150°	5.7	68.2	153.4	250.1	278.5
152.5°	8.5	62.5	136.4	221.6	250.1
155°	8.5	56.8	119.3	190.4	221.6
157.5°	8.5	51.1	102.3	159.1	193.2
160°	8.5	45.5	88.1	130.7	164.8
162.5°	8.5	42.6	76.7	108.0	139.2
165°	8.5	36.9	65.4	88.1	113.7
167.5°	8.5	28.4	54.0	68.2	93.8
170°	8.5	22.7	42.6	48.3	71.0
172.5°	8.5	17.0	31.3	34.1	36.9
175°	8.5	14.2	19.9	19.9	11.4
177.5°	8.5	11.4	11.4	11.4	5.7
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)