

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: P567554

Luminaire Tested: **8SNX-174HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567554
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-174HL-LN-UNV-L830-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

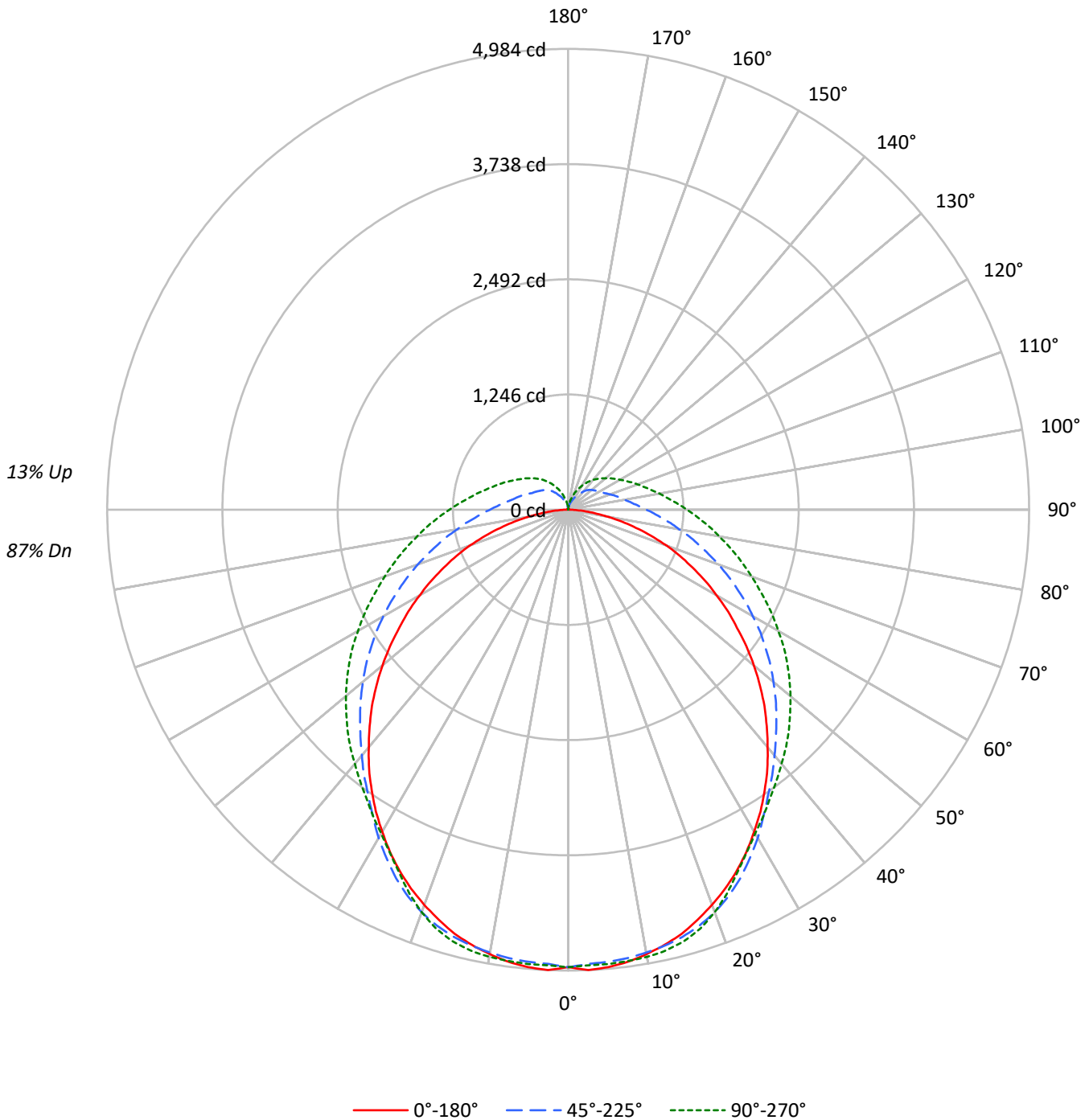
Lumens per Lamp: N/A
Luminaire Lumens: 17860.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	26628	26628	26628
5°	26778	25435	25179
10°	26576	24477	24016
15°	26306	23569	22845
20°	25851	22544	21352
25°	25358	21298	19601
30°	24692	19894	18139
35°	23980	18463	17048
40°	23165	17315	16165
45°	22372	16298	15404
50°	21423	15362	14636
55°	20306	14421	13885
60°	19252	13482	13099
65°	18087	12535	12378
70°	16765	11648	11728
75°	14664	10783	11192
80°	11919	10041	10737
85°	8608	9524	10477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.0	2.6
10°-20°	1351.3	7.6
20°-30°	2012.2	11.3
30°-40°	2374.3	13.3
40°-50°	2476.2	13.9
50°-60°	2327.0	13.0
60°-70°	1965.1	11.0
70°-80°	1484.8	8.3
80°-90°	1023.5	5.7
90°-100°	716.3	4.0
100°-110°	534.5	3.0
110°-120°	402.9	2.3
120°-130°	300.5	1.7
130°-140°	210.9	1.2
140°-150°	127.5	0.7
150°-160°	61.0	0.3
160°-170°	19.5	0.1
170°-180°	2.3	0.0
0°-30°	3833.6	21.5
0°-40°	6207.9	34.8
0°-60°	11011.1	61.7
0°-90°	15484.5	86.7
90°-120°	1653.7	9.3
90°-150°	2292.6	12.8
90°-180°	2375.0	13.3
0°-180°	17860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4948	4948	4948	4948	4948	
5°	4966	4957	4908	4944	4932	471
15°	4748	4769	4781	4842	4832	1337
25°	4312	4400	4400	4360	4327	1984
35°	3703	3839	3767	3797	3806	2316
45°	3001	3149	3182	3312	3373	2311
55°	2228	2419	2604	2813	2889	2000
65°	1484	1720	2010	2274	2362	1473
75°	760	1054	1459	1765	1877	809
85°	173	542	1011	1344	1462	193
90°	3	384	845	1169	1284	12
95°	3	300	715	1023	1129	2
105°	6	215	551	799	890	6
115°	6	185	427	636	718	6
125°	9	157	360	521	587	8
135°	9	121	300	424	475	7
145°	12	88	209	324	363	7
155°	12	58	127	206	239	6
165°	15	36	67	91	121	4
175°	15	15	18	18	9	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4947.6	4947.6	4947.6	4947.6	4947.6
2.5°	4983.9	4971.8	4917.3	4947.6	4932.4
5°	4965.7	4956.6	4908.2	4944.5	4932.4
7.5°	4932.4	4929.4	4893.0	4935.4	4923.3
10°	4880.9	4890.0	4862.8	4920.3	4911.2
12.5°	4820.4	4838.5	4829.5	4893.0	4884.0
15°	4747.7	4768.9	4781.0	4841.6	4832.5
17.5°	4650.8	4690.2	4717.4	4765.9	4750.7
20°	4547.9	4602.4	4632.7	4656.9	4632.7
22.5°	4435.8	4508.5	4526.7	4514.6	4490.3
25°	4311.7	4399.5	4399.5	4360.1	4326.8
27.5°	4172.4	4281.4	4251.1	4205.7	4178.5
30°	4021.0	4151.2	4099.7	4048.3	4042.2
32.5°	3869.6	4005.9	3930.2	3918.1	3927.2
35°	3703.1	3839.3	3766.7	3797.0	3806.0
37.5°	3536.6	3672.8	3624.4	3669.8	3697.0
40°	3354.9	3500.2	3469.9	3551.7	3588.0
42.5°	3176.2	3327.6	3324.6	3430.6	3485.1
45°	3000.6	3149.0	3182.3	3312.5	3373.1
47.5°	2809.9	2961.3	3043.0	3194.4	3255.0
50°	2622.1	2785.6	2897.7	3067.2	3136.9
52.5°	2428.4	2600.9	2755.4	2943.1	3015.8
55°	2228.5	2419.3	2604.0	2812.9	2888.6
57.5°	2049.9	2243.7	2461.7	2676.6	2764.5
60°	1853.1	2068.0	2307.2	2534.3	2622.1
62.5°	1674.4	1895.5	2161.9	2401.1	2495.0
65°	1483.7	1719.8	2010.5	2273.9	2361.7
67.5°	1308.0	1550.3	1868.2	2134.7	2231.5
70°	1126.4	1383.7	1728.9	2010.5	2110.4
72.5°	938.6	1211.2	1589.6	1889.4	1992.3
75°	760.0	1053.7	1459.4	1765.3	1877.3
77.5°	593.5	902.3	1341.3	1656.2	1765.3
80°	430.0	766.1	1217.2	1544.2	1656.2
82.5°	284.6	648.0	1117.3	1444.3	1562.4
85°	172.6	542.0	1011.3	1344.4	1462.5
87.5°	78.7	454.2	926.5	1256.6	1371.6
90°	3.0	384.5	844.8	1168.8	1283.8
92.5°	3.0	336.1	778.2	1093.1	1205.1
95°	3.0	299.8	714.6	1023.4	1129.4
97.5°	3.0	275.5	666.1	956.8	1059.8
100°	3.0	251.3	617.7	896.3	1002.2
102.5°	6.1	230.1	581.4	841.7	941.7
105°	6.1	215.0	551.1	799.4	890.2
107.5°	6.1	205.9	517.8	757.0	841.7
110°	6.1	196.8	481.4	714.6	799.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	190.8	454.2	678.2	760.0
115°	6.1	184.7	426.9	635.9	717.6
117.5°	6.1	181.7	411.8	602.5	681.3
120°	9.1	172.6	393.6	572.3	648.0
122.5°	9.1	163.5	375.5	548.0	614.7
125°	9.1	157.4	360.3	520.8	587.4
127.5°	9.1	148.4	345.2	496.6	557.1
130°	9.1	139.3	333.1	472.3	529.9
132.5°	9.1	130.2	317.9	448.1	502.6
135°	9.1	121.1	299.8	423.9	475.4
137.5°	9.1	112.0	281.6	399.7	448.1
140°	9.1	102.9	257.4	375.5	420.9
142.5°	9.1	93.9	233.1	351.2	390.6
145°	12.1	87.8	208.9	324.0	363.3
147.5°	12.1	78.7	184.7	296.7	330.0
150°	12.1	72.7	166.5	269.5	299.8
152.5°	12.1	63.6	148.4	239.2	269.5
155°	12.1	57.5	127.2	205.9	239.2
157.5°	12.1	51.5	109.0	172.6	208.9
160°	12.1	48.4	93.9	142.3	178.6
162.5°	15.1	42.4	78.7	115.1	148.4
165°	15.1	36.3	66.6	90.8	121.1
167.5°	15.1	30.3	54.5	69.6	93.9
170°	15.1	24.2	42.4	48.4	72.7
172.5°	15.1	18.2	30.3	33.3	36.3
175°	15.1	15.1	18.2	18.2	9.1
177.5°	15.1	15.1	12.1	9.1	3.0
180°	9.1	9.1	9.1	9.1	9.1

(END OF REPORT)