

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: P567561

Luminaire Tested: **8SNX-174HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567561
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-L950-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

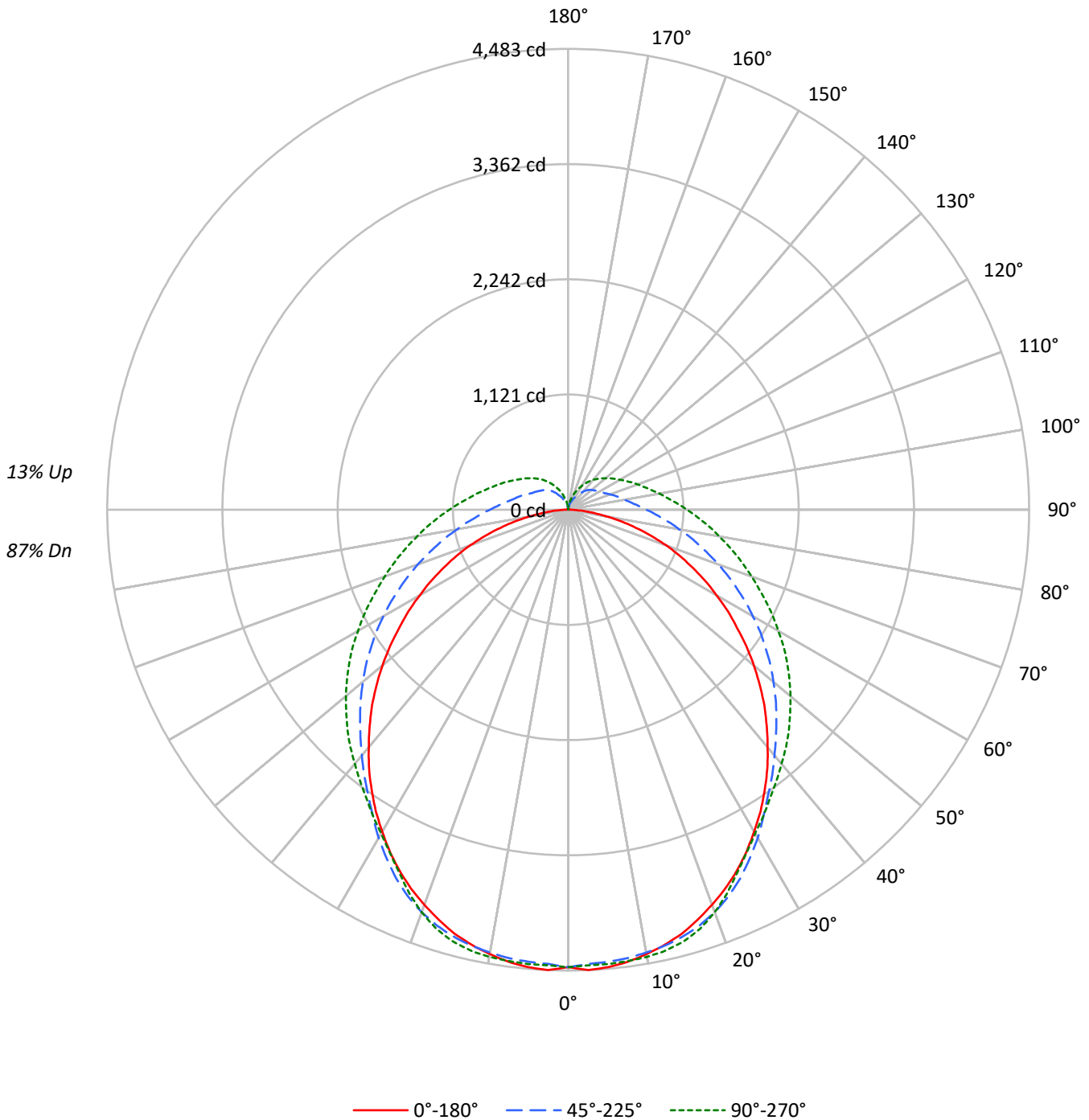
Lumens per Lamp: N/A
Luminaire Lumens: 16064.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 124.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	23950	23950	23950
5°	24086	22877	22647
10°	23904	22016	21601
15°	23661	21199	20547
20°	23251	20277	19205
25°	22808	19156	17630
30°	22209	17894	16315
35°	21569	16606	15334
40°	20836	15574	14540
45°	20123	14659	13855
50°	19269	13817	13164
55°	18264	12971	12488
60°	17315	12126	11782
65°	16268	11274	11134
70°	15079	10477	10548
75°	13189	9699	10066
80°	10719	9031	9657
85°	7741	8567	9423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	2.6
10°-20°	1215.4	7.6
20°-30°	1809.9	11.3
30°-40°	2135.6	13.3
40°-50°	2227.2	13.9
50°-60°	2093.0	13.0
60°-70°	1767.5	11.0
70°-80°	1335.5	8.3
80°-90°	920.6	5.7
90°-100°	644.2	4.0
100°-110°	480.7	3.0
110°-120°	362.4	2.3
120°-130°	270.3	1.7
130°-140°	189.7	1.2
140°-150°	114.7	0.7
150°-160°	54.8	0.3
160°-170°	17.6	0.1
170°-180°	2.1	0.0
0°-30°	3448.1	21.5
0°-40°	5583.7	34.8
0°-60°	9903.8	61.7
0°-90°	13927.4	86.7
90°-120°	1487.3	9.3
90°-150°	2062.1	12.8
90°-180°	2137.0	13.3
0°-180°	16064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4450	4450	4450	4450	4450	
5°	4466	4458	4415	4447	4436	424
15°	4270	4289	4300	4355	4346	1202
25°	3878	3957	3957	3922	3892	1784
35°	3331	3453	3388	3415	3423	2083
45°	2699	2832	2862	2979	3034	2078
55°	2004	2176	2342	2530	2598	1798
65°	1334	1547	1808	2045	2124	1325
75°	684	948	1313	1588	1688	728
85°	155	488	910	1209	1315	174
90°	3	346	760	1051	1155	11
95°	3	270	643	920	1016	2
105°	5	193	496	719	801	5
115°	5	166	384	572	645	6
125°	8	142	324	468	528	7
135°	8	109	270	381	428	6
145°	11	79	188	291	327	6
155°	11	52	114	185	215	5
165°	14	33	60	82	109	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°	4450.0	4450.0	4450.0	4450.0	4450.0
2.5°	4482.7	4471.8	4422.8	4450.0	4436.4
5°	4466.4	4458.2	4414.6	4447.3	4436.4
7.5°	4436.4	4433.7	4401.0	4439.1	4428.2
10°	4390.1	4398.3	4373.8	4425.5	4417.3
12.5°	4335.6	4352.0	4343.8	4401.0	4392.8
15°	4270.3	4289.3	4300.2	4354.7	4346.5
17.5°	4183.1	4218.5	4243.0	4286.6	4273.0
20°	4090.5	4139.6	4166.8	4188.6	4166.8
22.5°	3989.8	4055.1	4071.5	4060.6	4038.8
25°	3878.1	3957.1	3957.1	3921.7	3891.7
27.5°	3752.8	3850.9	3823.6	3782.8	3758.3
30°	3616.7	3733.8	3687.5	3641.2	3635.7
32.5°	3480.5	3603.1	3535.0	3524.1	3532.2
35°	3330.7	3453.3	3387.9	3415.1	3423.3
37.5°	3180.9	3303.5	3259.9	3300.8	3325.3
40°	3017.5	3148.2	3121.0	3194.5	3227.2
42.5°	2856.8	2993.0	2990.3	3085.6	3134.6
45°	2698.9	2832.3	2862.3	2979.4	3033.9
47.5°	2527.3	2663.5	2737.0	2873.2	2927.6
50°	2358.5	2505.5	2606.3	2758.8	2821.4
52.5°	2184.2	2339.4	2478.3	2647.1	2712.5
55°	2004.4	2176.0	2342.1	2530.0	2598.1
57.5°	1843.7	2018.0	2214.1	2407.5	2486.5
60°	1666.7	1860.1	2075.2	2279.5	2358.5
62.5°	1506.0	1704.8	1944.5	2159.7	2244.1
65°	1334.5	1546.9	1808.3	2045.3	2124.2
67.5°	1176.5	1394.4	1680.3	1920.0	2007.1
70°	1013.1	1244.6	1555.1	1808.3	1898.2
72.5°	844.3	1089.4	1429.8	1699.4	1792.0
75°	683.6	947.7	1312.7	1587.7	1688.5
77.5°	533.8	811.6	1206.5	1489.7	1587.7
80°	386.7	689.0	1094.8	1388.9	1489.7
82.5°	256.0	582.8	1004.9	1299.1	1405.3
85°	155.2	487.5	909.6	1209.2	1315.4
87.5°	70.8	408.5	833.4	1130.2	1233.7
90°	2.7	345.9	759.8	1051.2	1154.7
92.5°	2.7	302.3	699.9	983.1	1083.9
95°	2.7	269.6	642.7	920.5	1015.8
97.5°	2.7	247.8	599.1	860.6	953.2
100°	2.7	226.0	555.6	806.1	901.4
102.5°	5.4	207.0	522.9	757.1	847.0
105°	5.4	193.4	495.7	719.0	800.7
107.5°	5.4	185.2	465.7	680.8	757.1
110°	5.4	177.0	433.0	642.7	719.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	171.6	408.5	610.0	683.6
115°	5.4	166.1	384.0	571.9	645.4
117.5°	5.4	163.4	370.4	542.0	612.8
120°	8.2	155.2	354.0	514.7	582.8
122.5°	8.2	147.1	337.7	492.9	552.8
125°	8.2	141.6	324.1	468.4	528.3
127.5°	8.2	133.4	310.5	446.6	501.1
130°	8.2	125.3	299.6	424.8	476.6
132.5°	8.2	117.1	286.0	403.1	452.1
135°	8.2	108.9	269.6	381.3	427.6
137.5°	8.2	100.8	253.3	359.5	403.1
140°	8.2	92.6	231.5	337.7	378.6
142.5°	8.2	84.4	209.7	315.9	351.3
145°	10.9	79.0	187.9	291.4	326.8
147.5°	10.9	70.8	166.1	266.9	296.8
150°	10.9	65.4	149.8	242.4	269.6
152.5°	10.9	57.2	133.4	215.1	242.4
155°	10.9	51.7	114.4	185.2	215.1
157.5°	10.9	46.3	98.0	155.2	187.9
160°	10.9	43.6	84.4	128.0	160.7
162.5°	13.6	38.1	70.8	103.5	133.4
165°	13.6	32.7	59.9	81.7	108.9
167.5°	13.6	27.2	49.0	62.6	84.4
170°	13.6	21.8	38.1	43.6	65.4
172.5°	13.6	16.3	27.2	30.0	32.7
175°	13.6	13.6	16.3	16.3	8.2
177.5°	13.6	13.6	10.9	8.2	2.7
180°	8.2	8.2	8.2	8.2	8.2

(END OF REPORT)