

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: P567573

Luminaire Tested: **8SNX-174HL-SLW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567573
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-L850-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

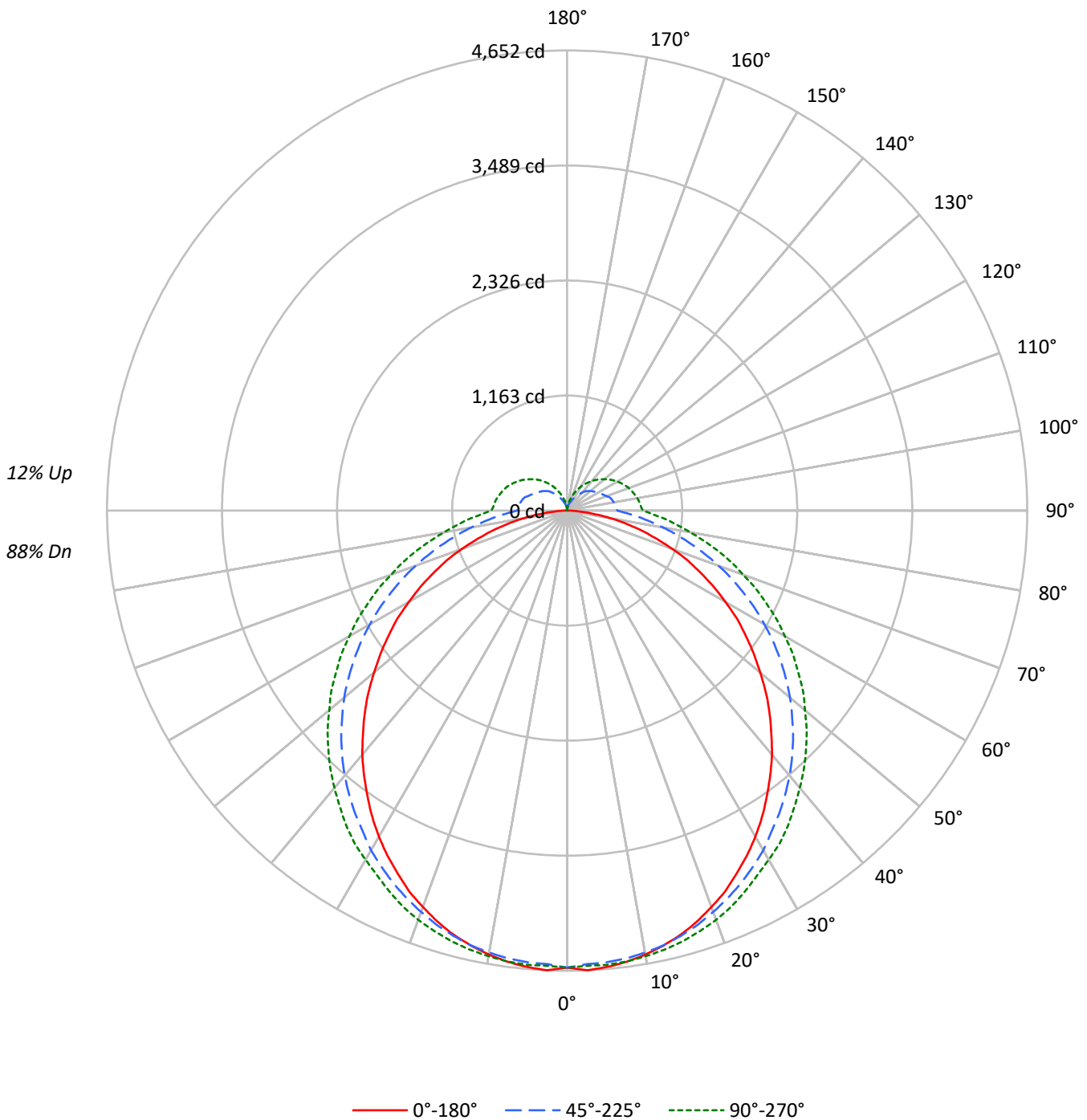
Lumens per Lamp: N/A
Luminaire Lumens: 16634.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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

TEST NUMBER: P567573

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L850-CD

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°	24866	24866	24866
5°	25000	24248	24197
10°	24862	23783	23618
15°	24659	23281	23072
20°	24331	22730	22503
25°	23938	22176	21855
30°	23509	21619	21257
35°	22965	20995	20743
40°	22439	20426	20113
45°	21801	19794	19516
50°	21062	19120	18832
55°	20359	18332	18150
60°	19548	17476	17365
65°	18559	16500	16527
70°	17302	15397	15565
75°	15511	14127	14682
80°	13008	12873	13567
85°	9434	11766	12840



TEST NUMBER: P567573

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	2.6
10°-20°	1261.7	7.6
20°-30°	1919.4	11.5
30°-40°	2333.9	14.0
40°-50°	2469.2	14.8
50°-60°	2314.5	13.9
60°-70°	1904.1	11.4
70°-80°	1317.4	7.9
80°-90°	732.6	4.4
90°-100°	482.6	2.9
100°-110°	432.8	2.6
110°-120°	358.2	2.2
120°-130°	276.9	1.7
130°-140°	196.0	1.2
140°-150°	118.3	0.7
150°-160°	56.8	0.3
160°-170°	18.6	0.1
170°-180°	2.3	0.0
0°-30°	3619.8	21.8
0°-40°	5953.7	35.8
0°-60°	10737.4	64.6
0°-90°	14691.5	88.3
90°-120°	1273.6	7.7
90°-150°	1864.8	11.2
90°-180°	1942.0	11.7
0°-180°	16634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4620	4620	4620	4620	4620	
5°	4632	4623	4583	4620	4609	440
15°	4438	4452	4449	4509	4509	1251
25°	4051	4108	4156	4247	4250	1867
35°	3521	3615	3737	3857	3891	2203
45°	2894	3045	3230	3376	3415	2231
55°	2202	2398	2629	2794	2851	1971
65°	1490	1703	1968	2162	2222	1477
75°	775	1000	1293	1498	1581	822
85°	171	424	718	917	997	197
90°	3	239	507	698	766	11
95°	3	228	493	675	741	2
105°	3	196	462	635	692	3
115°	6	171	390	564	627	5
125°	6	145	333	481	541	5
135°	6	114	279	396	444	4
145°	6	83	194	299	336	4
155°	8	57	120	191	222	4
165°	8	37	66	88	114	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



TEST NUMBER: P567573

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4620.3	4620.3	4620.3	4620.3	4620.3
2.5°	4651.6	4637.4	4588.9	4620.3	4606.0
5°	4631.7	4623.1	4583.3	4620.3	4608.9
7.5°	4600.3	4597.5	4566.2	4608.9	4597.5
10°	4557.6	4563.3	4537.7	4583.3	4574.7
12.5°	4503.5	4512.0	4500.6	4551.9	4546.2
15°	4438.0	4452.2	4449.4	4509.2	4509.2
17.5°	4358.2	4378.2	4389.6	4457.9	4457.9
20°	4264.2	4295.6	4318.3	4392.4	4403.8
22.5°	4170.2	4207.2	4241.4	4318.3	4335.4
25°	4050.6	4107.6	4156.0	4247.1	4250.0
27.5°	3933.8	3996.5	4062.0	4150.3	4158.8
30°	3805.6	3885.4	3965.1	4050.6	4076.2
32.5°	3668.9	3757.2	3845.5	3959.4	3993.6
35°	3520.8	3614.8	3737.2	3856.9	3891.1
37.5°	3372.6	3478.0	3620.5	3742.9	3774.3
40°	3221.7	3338.5	3498.0	3623.3	3660.3
42.5°	3053.6	3196.0	3366.9	3500.8	3543.5
45°	2894.1	3045.1	3230.2	3375.5	3415.4
47.5°	2726.0	2885.5	3084.9	3238.8	3284.3
50°	2546.6	2728.9	2942.5	3096.3	3139.1
52.5°	2378.5	2563.7	2788.7	2948.2	3008.0
55°	2201.9	2398.4	2629.2	2794.4	2851.4
57.5°	2036.7	2224.7	2472.5	2637.7	2708.9
60°	1848.7	2056.6	2304.4	2483.9	2540.9
62.5°	1672.1	1882.9	2139.2	2324.4	2389.9
65°	1489.8	1703.4	1968.3	2162.0	2221.8
67.5°	1318.9	1529.6	1800.3	1991.1	2068.0
70°	1130.9	1353.0	1629.3	1825.9	1891.4
72.5°	945.7	1176.4	1458.4	1669.2	1743.3
75°	774.8	999.8	1293.2	1498.3	1580.9
77.5°	609.6	837.5	1133.7	1344.5	1415.7
80°	444.4	683.6	985.6	1193.5	1261.9
82.5°	293.4	544.1	843.2	1051.1	1125.2
85°	170.9	424.4	717.8	917.2	997.0
87.5°	74.1	321.9	601.0	797.6	863.1
90°	2.8	239.3	507.0	697.9	766.2
92.5°	2.8	233.6	495.6	683.6	749.2
95°	2.8	227.9	492.8	675.1	740.6
97.5°	2.8	225.0	487.1	669.4	732.1
100°	2.8	216.5	478.5	658.0	720.7
102.5°	2.8	205.1	470.0	646.6	706.4
105°	2.8	196.5	461.5	635.2	692.2
107.5°	2.8	188.0	447.2	621.0	677.9
110°	2.8	179.5	424.4	606.7	663.7



TEST NUMBER: P567573

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	176.6	407.3	586.8	646.6
115°	5.7	170.9	390.2	564.0	626.7
117.5°	5.7	168.1	376.0	541.2	606.7
120°	5.7	159.5	361.8	521.3	583.9
122.5°	5.7	151.0	347.5	501.3	564.0
125°	5.7	145.3	333.3	481.4	541.2
127.5°	5.7	136.7	321.9	461.5	515.6
130°	5.7	131.0	307.6	438.7	492.8
132.5°	5.7	122.5	293.4	415.9	467.2
135°	5.7	113.9	279.2	395.9	444.4
137.5°	5.7	102.5	262.1	373.2	418.7
140°	5.7	94.0	239.3	350.4	393.1
142.5°	5.7	88.3	216.5	324.7	364.6
145°	5.7	82.6	193.7	299.1	336.1
147.5°	5.7	76.9	173.8	273.5	307.6
150°	5.7	68.4	153.8	250.7	279.2
152.5°	8.5	62.7	136.7	222.2	250.7
155°	8.5	57.0	119.6	190.9	222.2
157.5°	8.5	51.3	102.5	159.5	193.7
160°	8.5	45.6	88.3	131.0	165.2
162.5°	8.5	42.7	76.9	108.2	139.6
165°	8.5	37.0	65.5	88.3	113.9
167.5°	8.5	28.5	54.1	68.4	94.0
170°	8.5	22.8	42.7	48.4	71.2
172.5°	8.5	17.1	31.3	34.2	37.0
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)