

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: P567569

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567569
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-L950-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

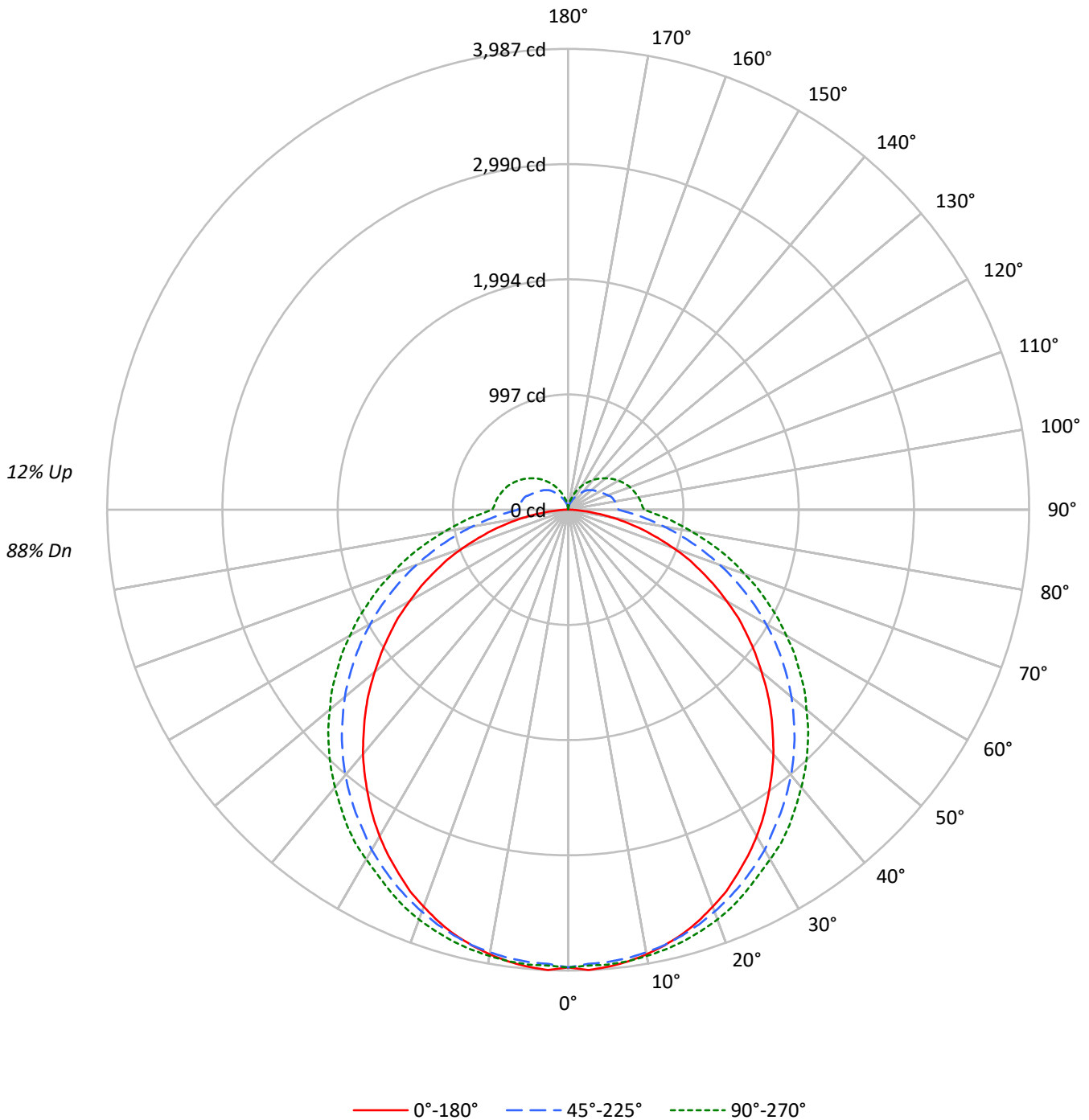
Lumens per Lamp: N/A
Luminaire Lumens: 14256.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P567569

CATALOG NUMBER: 8SNX-174HL-LW-UNV-L950-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°	21311	21311	21311
5°	21406	20355	20164
10°	21269	19575	19173
15°	21075	18798	18269
20°	20774	18010	17395
25°	20417	17242	16500
30°	20028	16490	15677
35°	19540	15700	14937
40°	19065	14960	14134
45°	18493	14178	13367
50°	17831	13369	12552
55°	17195	12479	11746
60°	16460	11541	10878
65°	15564	10517	9980
70°	14425	9408	9008
75°	12811	8189	8077
80°	10555	6968	7011
85°	7307	5794	6121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	2.6
10°-20°	1081.4	7.6
20°-30°	1645.0	11.5
30°-40°	2000.2	14.0
40°-50°	2116.2	14.8
50°-60°	1983.6	13.9
60°-70°	1631.9	11.4
70°-80°	1129.1	7.9
80°-90°	627.9	4.4
90°-100°	413.6	2.9
100°-110°	370.9	2.6
110°-120°	307.0	2.2
120°-130°	237.3	1.7
130°-140°	168.0	1.2
140°-150°	101.3	0.7
150°-160°	48.7	0.3
160°-170°	15.9	0.1
170°-180°	1.9	0.0
0°-30°	3102.3	21.8
0°-40°	5102.5	35.8
0°-60°	9202.3	64.6
0°-90°	12591.2	88.3
90°-120°	1091.5	7.7
90°-150°	1598.3	11.2
90°-180°	1665.0	11.7
0°-180°	14256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3960	3960	3960	3960	3960	
5°	3970	3962	3928	3960	3950	377
15°	3804	3816	3813	3865	3865	1072
25°	3472	3520	3562	3640	3642	1600
35°	3017	3098	3203	3306	3335	1888
45°	2480	2610	2768	2893	2927	1912
55°	1887	2056	2253	2395	2444	1689
65°	1277	1460	1687	1853	1904	1266
75°	664	857	1108	1284	1355	704
85°	146	364	615	786	854	169
90°	2	205	434	598	657	10
95°	2	195	422	579	635	2
105°	2	168	396	544	593	3
115°	5	146	334	483	537	4
125°	5	124	286	413	464	4
135°	5	98	239	339	381	4
145°	5	71	166	256	288	3
155°	7	49	102	164	190	3
165°	7	32	56	76	98	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



TEST NUMBER: P567569

CATALOG NUMBER: 8SNX-174HL-LW-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3959.8	3959.8	3959.8	3959.8	3959.8
2.5°	3986.6	3974.4	3932.9	3959.8	3947.6
5°	3969.5	3962.2	3928.0	3959.8	3950.0
7.5°	3942.7	3940.2	3913.4	3950.0	3940.2
10°	3906.1	3910.9	3889.0	3928.0	3920.7
12.5°	3859.7	3867.0	3857.2	3901.2	3896.3
15°	3803.5	3815.7	3813.3	3864.6	3864.6
17.5°	3735.2	3752.3	3762.0	3820.6	3820.6
20°	3654.6	3681.5	3701.0	3764.5	3774.2
22.5°	3574.0	3605.8	3635.1	3701.0	3715.6
25°	3471.5	3520.3	3561.8	3640.0	3642.4
27.5°	3371.4	3425.1	3481.3	3557.0	3564.3
30°	3261.6	3329.9	3398.3	3471.5	3493.5
32.5°	3144.4	3220.1	3295.7	3393.4	3422.7
35°	3017.4	3098.0	3203.0	3305.5	3334.8
37.5°	2890.5	2980.8	3102.9	3207.8	3234.7
40°	2761.1	2861.2	2997.9	3105.3	3137.1
42.5°	2617.1	2739.1	2885.6	3000.3	3037.0
45°	2480.3	2609.7	2768.4	2892.9	2927.1
47.5°	2336.3	2473.0	2643.9	2775.7	2814.8
50°	2182.5	2338.8	2521.8	2653.7	2690.3
52.5°	2038.5	2197.2	2390.0	2526.7	2578.0
55°	1887.1	2055.6	2253.3	2394.9	2443.7
57.5°	1745.5	1906.6	2119.0	2260.6	2321.7
60°	1584.4	1762.6	1975.0	2128.8	2177.6
62.5°	1433.0	1613.7	1833.4	1992.1	2048.2
65°	1276.8	1459.9	1686.9	1852.9	1904.2
67.5°	1130.3	1311.0	1542.9	1706.5	1772.4
70°	969.2	1159.6	1396.4	1564.9	1621.0
72.5°	810.5	1008.3	1249.9	1430.6	1494.1
75°	664.0	856.9	1108.3	1284.1	1354.9
77.5°	522.4	717.7	971.6	1152.3	1213.3
80°	380.8	585.9	844.7	1022.9	1081.5
82.5°	251.5	466.3	722.6	900.8	964.3
85°	146.5	363.8	615.2	786.1	854.5
87.5°	63.5	275.9	515.1	683.6	739.7
90°	2.4	205.1	434.5	598.1	656.7
92.5°	2.4	200.2	424.8	585.9	642.1
95°	2.4	195.3	422.3	578.6	634.7
97.5°	2.4	192.9	417.5	573.7	627.4
100°	2.4	185.5	410.1	563.9	617.6
102.5°	2.4	175.8	402.8	554.2	605.4
105°	2.4	168.4	395.5	544.4	593.2
107.5°	2.4	161.1	383.3	532.2	581.0
110°	2.4	153.8	363.8	520.0	568.8



TEST NUMBER: P567569

CATALOG NUMBER: 8SNX-174HL-LW-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	151.4	349.1	502.9	554.2
115°	4.9	146.5	334.5	483.4	537.1
117.5°	4.9	144.0	322.2	463.8	520.0
120°	4.9	136.7	310.0	446.8	500.5
122.5°	4.9	129.4	297.8	429.7	483.4
125°	4.9	124.5	285.6	412.6	463.8
127.5°	4.9	117.2	275.9	395.5	441.9
130°	4.9	112.3	263.7	376.0	422.3
132.5°	4.9	105.0	251.5	356.4	400.4
135°	4.9	97.7	239.2	339.3	380.8
137.5°	4.9	87.9	224.6	319.8	358.9
140°	4.9	80.6	205.1	300.3	336.9
142.5°	4.9	75.7	185.5	278.3	312.5
145°	4.9	70.8	166.0	256.3	288.1
147.5°	4.9	65.9	148.9	234.4	263.7
150°	4.9	58.6	131.8	214.8	239.2
152.5°	7.3	53.7	117.2	190.4	214.8
155°	7.3	48.8	102.5	163.6	190.4
157.5°	7.3	43.9	87.9	136.7	166.0
160°	7.3	39.1	75.7	112.3	141.6
162.5°	7.3	36.6	65.9	92.8	119.6
165°	7.3	31.7	56.1	75.7	97.7
167.5°	7.3	24.4	46.4	58.6	80.6
170°	7.3	19.5	36.6	41.5	61.0
172.5°	7.3	14.6	26.9	29.3	31.7
175°	7.3	12.2	17.1	17.1	9.8
177.5°	7.3	9.8	9.8	9.8	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)