

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: P566881

Luminaire Tested: **4SNX-84HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566881
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: 4SNX-84HL-LW-UNV-L850-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

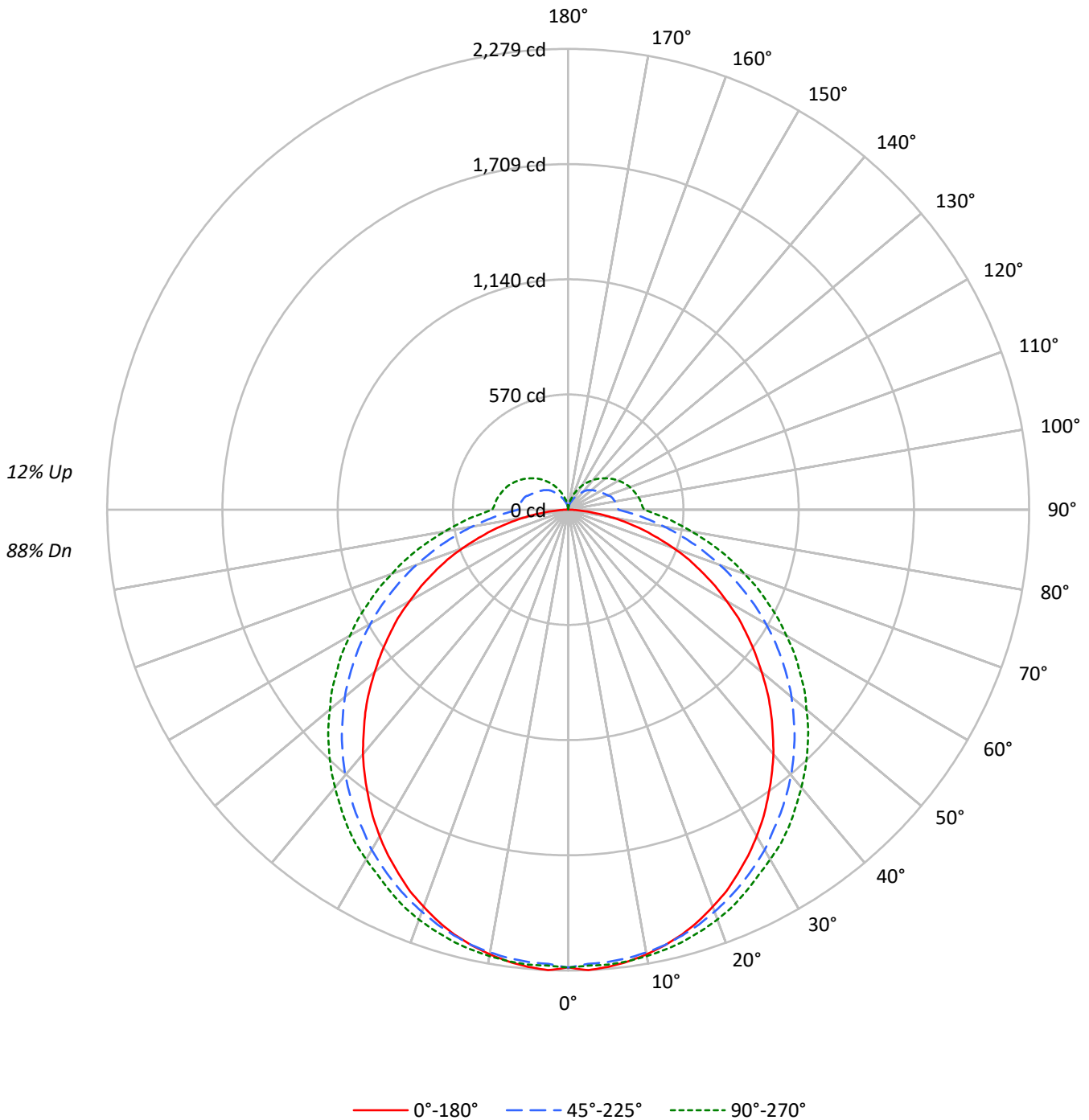
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8150.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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

TEST NUMBER: P566881
CATALOG NUMBER: 4SNX-84HL-LW-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°	24367	24367	24367
5°	24431	23245	23055
10°	24230	22329	21921
15°	23963	21419	20888
20°	23575	20499	19890
25°	23121	19605	18866
30°	22631	18731	17924
35°	22024	17814	17079
40°	21431	16956	16160
45°	20722	16052	15284
50°	19905	15118	14352
55°	19108	14093	13431
60°	18187	13016	12438
65°	17065	11842	11411
70°	15647	10573	10299
75°	13662	9184	9236
80°	10915	7794	8017
85°	7002	6459	6999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	2.6
10°-20°	618.2	7.6
20°-30°	940.5	11.5
30°-40°	1143.5	14.0
40°-50°	1209.8	14.8
50°-60°	1134.0	13.9
60°-70°	932.9	11.4
70°-80°	645.5	7.9
80°-90°	358.9	4.4
90°-100°	236.5	2.9
100°-110°	212.1	2.6
110°-120°	175.5	2.2
120°-130°	135.7	1.7
130°-140°	96.1	1.2
140°-150°	57.9	0.7
150°-160°	27.8	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1773.6	21.8
0°-40°	2917.1	35.8
0°-60°	5260.9	64.6
0°-90°	7198.3	88.3
90°-120°	624.0	7.7
90°-150°	913.7	11.2
90°-180°	952.0	11.7
0°-180°	8150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2269	2265	2246	2264	2258	215
15°	2174	2181	2180	2209	2209	613
25°	1985	2012	2036	2081	2082	915
35°	1725	1771	1831	1890	1906	1080
45°	1418	1492	1583	1654	1673	1093
55°	1079	1175	1288	1369	1397	966
65°	730	835	964	1059	1089	724
75°	380	490	634	734	775	403
85°	84	208	352	449	488	96
90°	1	117	248	342	375	6
95°	1	112	241	331	363	1
105°	1	96	226	311	339	1
115°	3	84	191	276	307	2
125°	3	71	163	236	265	3
135°	3	56	137	194	218	2
145°	3	40	95	146	165	2
155°	4	28	59	94	109	2
165°	4	18	32	43	56	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.8	2263.8	2263.8	2263.8	2263.8
2.5°	2279.1	2272.1	2248.4	2263.8	2256.8
5°	2269.3	2265.2	2245.6	2263.8	2258.2
7.5°	2254.0	2252.6	2237.2	2258.2	2252.6
10°	2233.1	2235.8	2223.3	2245.6	2241.4
12.5°	2206.5	2210.7	2205.1	2230.3	2227.5
15°	2174.4	2181.4	2180.0	2209.3	2209.3
17.5°	2135.4	2145.1	2150.7	2184.2	2184.2
20°	2089.3	2104.7	2115.8	2152.1	2157.7
22.5°	2043.2	2061.4	2078.1	2115.8	2124.2
25°	1984.6	2012.5	2036.3	2080.9	2082.3
27.5°	1927.4	1958.1	1990.2	2033.5	2037.7
30°	1864.6	1903.7	1942.8	1984.6	1997.2
32.5°	1797.6	1840.9	1884.1	1940.0	1956.7
35°	1725.0	1771.1	1831.1	1889.7	1906.5
37.5°	1652.5	1704.1	1773.9	1833.9	1849.2
40°	1578.5	1635.7	1713.9	1775.3	1793.4
42.5°	1496.1	1565.9	1649.7	1715.3	1736.2
45°	1418.0	1492.0	1582.7	1653.9	1673.4
47.5°	1335.6	1413.8	1511.5	1586.9	1609.2
50°	1247.7	1337.0	1441.7	1517.1	1538.0
52.5°	1165.4	1256.1	1366.3	1444.5	1473.8
55°	1078.8	1175.1	1288.2	1369.1	1397.1
57.5°	997.9	1090.0	1211.4	1292.4	1327.3
60°	905.8	1007.7	1129.1	1217.0	1244.9
62.5°	819.3	922.5	1048.1	1138.9	1171.0
65°	729.9	834.6	964.4	1059.3	1088.6
67.5°	646.2	749.5	882.1	975.6	1013.2
70°	554.1	662.9	798.3	894.6	926.7
72.5°	463.4	576.4	714.6	817.9	854.1
75°	379.6	489.9	633.6	734.1	774.6
77.5°	298.7	410.3	555.5	658.7	693.6
80°	217.7	335.0	482.9	584.8	618.3
82.5°	143.8	266.6	413.1	515.0	551.3
85°	83.7	208.0	351.7	449.4	488.5
87.5°	36.3	157.7	294.5	390.8	422.9
90°	1.4	117.2	248.4	341.9	375.4
92.5°	1.4	114.4	242.8	335.0	367.1
95°	1.4	111.7	241.4	330.8	362.9
97.5°	1.4	110.3	238.7	328.0	358.7
100°	1.4	106.1	234.5	322.4	353.1
102.5°	1.4	100.5	230.3	316.8	346.1
105°	1.4	96.3	226.1	311.2	339.1
107.5°	1.4	92.1	219.1	304.3	332.2
110°	1.4	87.9	208.0	297.3	325.2



TEST NUMBER: P566881

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	86.5	199.6	287.5	316.8
115°	2.8	83.7	191.2	276.3	307.0
117.5°	2.8	82.3	184.2	265.2	297.3
120°	2.8	78.2	177.2	255.4	286.1
122.5°	2.8	74.0	170.3	245.6	276.3
125°	2.8	71.2	163.3	235.9	265.2
127.5°	2.8	67.0	157.7	226.1	252.6
130°	2.8	64.2	150.7	214.9	241.4
132.5°	2.8	60.0	143.8	203.8	228.9
135°	2.8	55.8	136.8	194.0	217.7
137.5°	2.8	50.2	128.4	182.8	205.2
140°	2.8	46.1	117.2	171.7	192.6
142.5°	2.8	43.3	106.1	159.1	178.6
145°	2.8	40.5	94.9	146.5	164.7
147.5°	2.8	37.7	85.1	134.0	150.7
150°	2.8	33.5	75.4	122.8	136.8
152.5°	4.2	30.7	67.0	108.9	122.8
155°	4.2	27.9	58.6	93.5	108.9
157.5°	4.2	25.1	50.2	78.2	94.9
160°	4.2	22.3	43.3	64.2	80.9
162.5°	4.2	20.9	37.7	53.0	68.4
165°	4.2	18.1	32.1	43.3	55.8
167.5°	4.2	14.0	26.5	33.5	46.1
170°	4.2	11.2	20.9	23.7	34.9
172.5°	4.2	8.4	15.4	16.7	18.1
175°	4.2	7.0	9.8	9.8	5.6
177.5°	4.2	5.6	5.6	5.6	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)