

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: P566889

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566889
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-SLW-UNV-L850-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

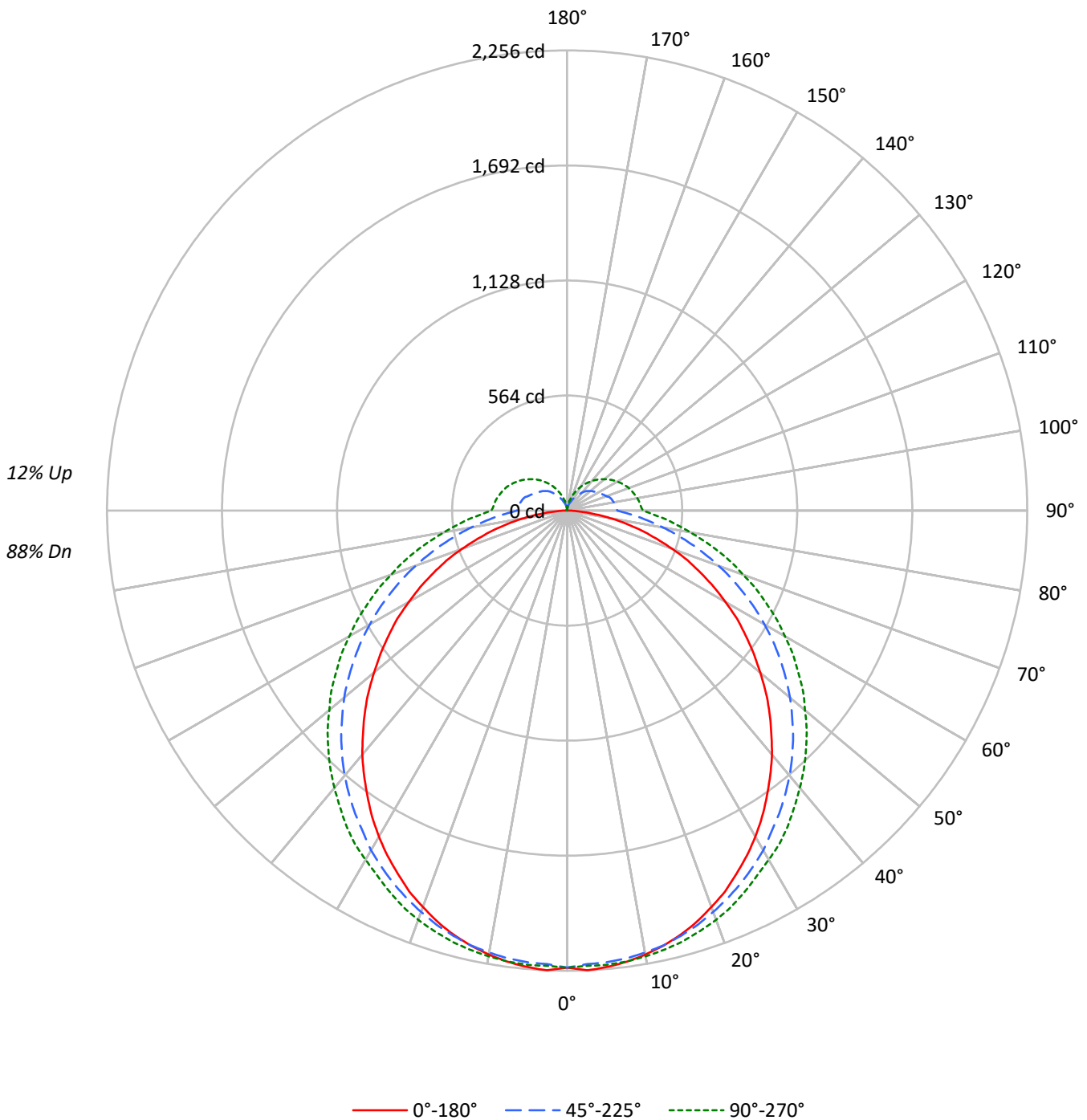
Lumens per Lamp: N/A
Luminaire Lumens: 8067.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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	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°	24119	24119	24119
5°	24226	23503	23470
10°	24070	23039	22908
15°	23852	22539	22378
20°	23511	21993	21826
25°	23107	21443	21197
30°	22668	20892	20618
35°	22116	20276	20120
40°	21578	19711	19509
45°	20930	19087	18930
50°	20182	18420	18266
55°	19464	17644	17603
60°	18632	16801	16842
65°	17618	15840	16030
70°	16328	14756	15098
75°	14506	13509	14241
80°	11952	12271	13159
85°	8276	11164	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.6
10°-20°	611.9	7.6
20°-30°	930.9	11.5
30°-40°	1131.9	14.0
40°-50°	1197.5	14.8
50°-60°	1122.5	13.9
60°-70°	923.4	11.4
70°-80°	638.9	7.9
80°-90°	355.3	4.4
90°-100°	234.1	2.9
100°-110°	209.9	2.6
110°-120°	173.7	2.2
120°-130°	134.3	1.7
130°-140°	95.1	1.2
140°-150°	57.4	0.7
150°-160°	27.5	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1755.5	21.8
0°-40°	2887.4	35.8
0°-60°	5207.3	64.6
0°-90°	7124.9	88.3
90°-120°	617.7	7.7
90°-150°	904.4	11.2
90°-180°	942.0	11.7
0°-180°	8067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2241	2241	2241	2241	2241	
5°	2246	2242	2223	2241	2235	213
15°	2152	2159	2158	2187	2187	607
25°	1964	1992	2016	2060	2061	905
35°	1708	1753	1812	1870	1887	1069
45°	1404	1477	1567	1637	1656	1082
55°	1068	1163	1275	1355	1383	956
65°	722	826	955	1048	1078	716
75°	376	485	627	727	767	399
85°	83	206	348	445	484	95
90°	1	116	246	338	372	5
95°	1	110	239	327	359	1
105°	1	95	224	308	336	1
115°	3	83	189	274	304	2
125°	3	70	162	234	262	3
135°	3	55	135	192	216	2
145°	3	40	94	145	163	2
155°	4	28	58	93	108	2
165°	4	18	32	43	55	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°	2240.7	2240.7	2240.7	2240.7	2240.7
2.5°	2255.9	2249.0	2225.5	2240.7	2233.8
5°	2246.2	2242.1	2222.7	2240.7	2235.2
7.5°	2231.0	2229.6	2214.5	2235.2	2229.6
10°	2210.3	2213.1	2200.6	2222.7	2218.6
12.5°	2184.1	2188.2	2182.7	2207.5	2204.8
15°	2152.3	2159.2	2157.8	2186.8	2186.8
17.5°	2113.6	2123.3	2128.8	2162.0	2162.0
20°	2068.0	2083.2	2094.3	2130.2	2135.7
22.5°	2022.4	2040.4	2057.0	2094.3	2102.6
25°	1964.4	1992.0	2015.5	2059.7	2061.1
27.5°	1907.8	1938.2	1969.9	2012.8	2016.9
30°	1845.6	1884.3	1923.0	1964.4	1976.8
32.5°	1779.3	1822.1	1864.9	1920.2	1936.8
35°	1707.5	1753.1	1812.5	1870.5	1887.1
37.5°	1635.6	1686.7	1755.8	1815.2	1830.4
40°	1562.4	1619.1	1696.4	1757.2	1775.2
42.5°	1480.9	1550.0	1632.9	1697.8	1718.5
45°	1403.5	1476.8	1566.6	1637.0	1656.4
47.5°	1322.0	1399.4	1496.1	1570.7	1592.8
50°	1235.0	1323.4	1427.0	1501.6	1522.4
52.5°	1153.5	1243.3	1352.4	1429.8	1458.8
55°	1067.9	1163.2	1275.1	1355.2	1382.8
57.5°	987.7	1078.9	1199.1	1279.2	1313.8
60°	896.6	997.4	1117.6	1204.6	1232.2
62.5°	810.9	913.1	1037.5	1127.3	1159.0
65°	722.5	826.1	954.6	1048.5	1077.5
67.5°	639.6	741.8	873.1	965.6	1002.9
70°	548.4	656.2	790.2	885.5	917.3
72.5°	458.6	570.5	707.3	809.5	845.4
75°	375.8	484.9	627.2	726.6	766.7
77.5°	295.6	406.1	549.8	652.0	686.6
80°	215.5	331.5	478.0	578.8	612.0
82.5°	142.3	263.9	408.9	509.8	545.7
85°	82.9	205.8	348.1	444.8	483.5
87.5°	35.9	156.1	291.5	386.8	418.6
90°	1.4	116.0	245.9	338.5	371.6
92.5°	1.4	113.3	240.4	331.5	363.3
95°	1.4	110.5	239.0	327.4	359.2
97.5°	1.4	109.1	236.2	324.6	355.0
100°	1.4	105.0	232.1	319.1	349.5
102.5°	1.4	99.5	227.9	313.6	342.6
105°	1.4	95.3	223.8	308.1	335.7
107.5°	1.4	91.2	216.9	301.2	328.8
110°	1.4	87.0	205.8	294.2	321.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	85.6	197.5	284.6	313.6
115°	2.8	82.9	189.3	273.5	303.9
117.5°	2.8	81.5	182.4	262.5	294.2
120°	2.8	77.4	175.4	252.8	283.2
122.5°	2.8	73.2	168.5	243.1	273.5
125°	2.8	70.5	161.6	233.5	262.5
127.5°	2.8	66.3	156.1	223.8	250.0
130°	2.8	63.5	149.2	212.7	239.0
132.5°	2.8	59.4	142.3	201.7	226.6
135°	2.8	55.3	135.4	192.0	215.5
137.5°	2.8	49.7	127.1	181.0	203.1
140°	2.8	45.6	116.0	169.9	190.6
142.5°	2.8	42.8	105.0	157.5	176.8
145°	2.8	40.1	93.9	145.1	163.0
147.5°	2.8	37.3	84.3	132.6	149.2
150°	2.8	33.2	74.6	121.6	135.4
152.5°	4.1	30.4	66.3	107.8	121.6
155°	4.1	27.6	58.0	92.6	107.8
157.5°	4.1	24.9	49.7	77.4	93.9
160°	4.1	22.1	42.8	63.5	80.1
162.5°	4.1	20.7	37.3	52.5	67.7
165°	4.1	18.0	31.8	42.8	55.3
167.5°	4.1	13.8	26.2	33.2	45.6
170°	4.1	11.1	20.7	23.5	34.5
172.5°	4.1	8.3	15.2	16.6	18.0
175°	4.1	6.9	9.7	9.7	5.5
177.5°	4.1	5.5	5.5	5.5	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)