

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: P566825

Luminaire Tested: **4SNX-81HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566825
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: 4SNX-81HL-LN-UNV-L850-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

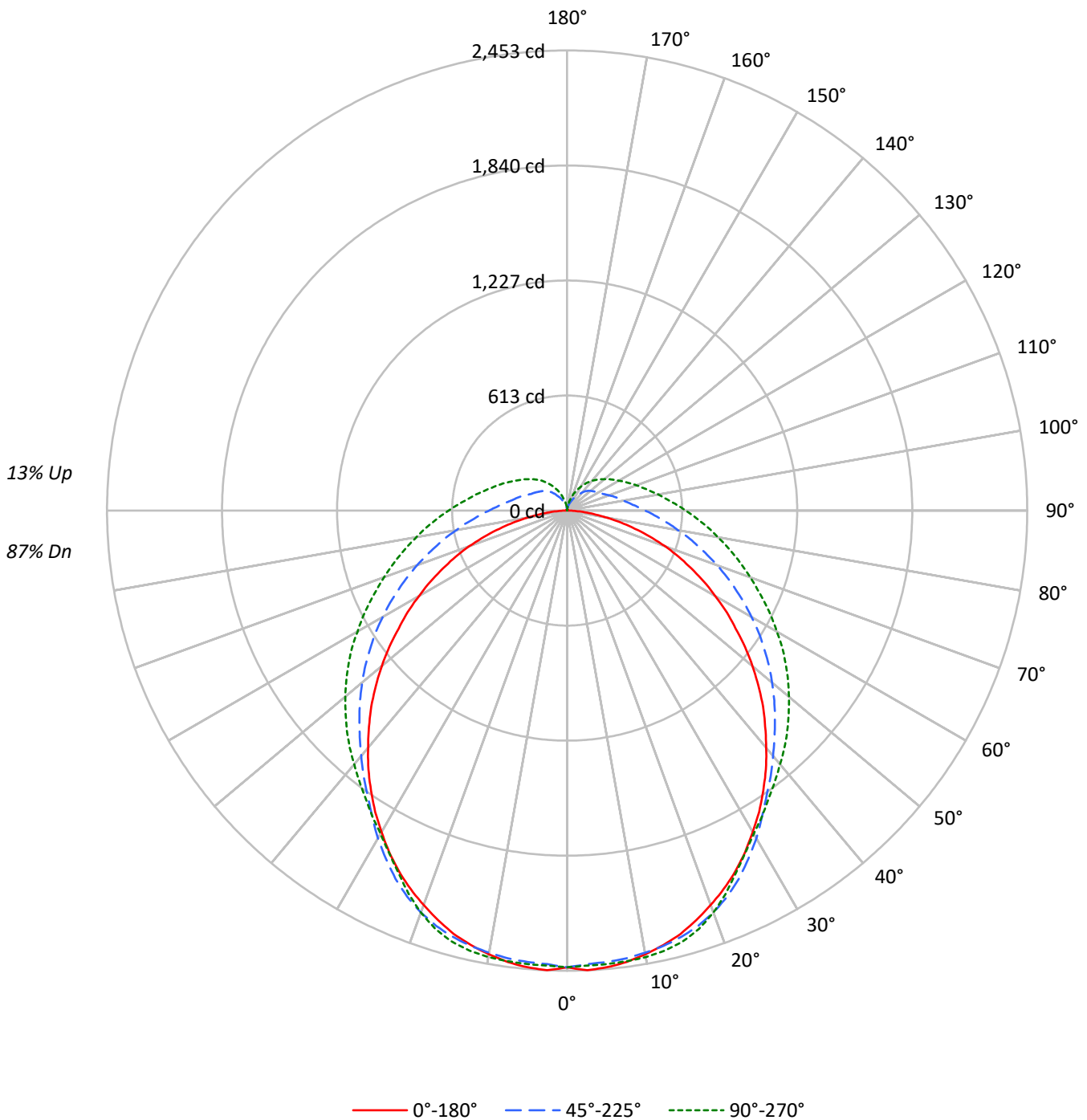
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8789.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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	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°	26207	26207	26207
5°	26308	25002	24782
10°	26061	24033	23637
15°	25748	23116	22484
20°	25253	22088	21015
25°	24720	20844	19292
30°	24017	19451	17852
35°	23267	18033	16779
40°	22415	16894	15910
45°	21578	15883	15161
50°	20586	14953	14405
55°	19425	14019	13665
60°	18310	13088	12892
65°	17070	12149	12183
70°	15653	11269	11543
75°	13461	10410	11015
80°	10609	9668	10567
85°	7103	9140	10311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	2.6
10°-20°	665.0	7.6
20°-30°	990.2	11.3
30°-40°	1168.4	13.3
40°-50°	1218.5	13.9
50°-60°	1145.1	13.0
60°-70°	967.1	11.0
70°-80°	730.7	8.3
80°-90°	503.7	5.7
90°-100°	352.5	4.0
100°-110°	263.0	3.0
110°-120°	198.3	2.3
120°-130°	147.9	1.7
130°-140°	103.8	1.2
140°-150°	62.8	0.7
150°-160°	30.0	0.3
160°-170°	9.6	0.1
170°-180°	1.1	0.0
0°-30°	1886.5	21.5
0°-40°	3055.0	34.8
0°-60°	5418.6	61.7
0°-90°	7620.0	86.7
90°-120°	813.8	9.3
90°-150°	1128.2	12.8
90°-180°	1169.0	13.3
0°-180°	8789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2444	2439	2415	2433	2427	232
15°	2336	2347	2353	2383	2378	658
25°	2122	2165	2165	2146	2129	976
35°	1822	1889	1854	1868	1873	1140
45°	1477	1550	1566	1630	1660	1137
55°	1097	1190	1281	1384	1422	984
65°	730	846	989	1119	1162	725
75°	374	518	718	869	924	398
85°	85	267	498	662	720	95
90°	2	189	416	575	632	6
95°	2	148	352	504	556	1
105°	3	106	271	393	438	3
115°	3	91	210	313	353	3
125°	4	78	177	256	289	4
135°	4	60	148	209	234	3
145°	6	43	103	159	179	3
155°	6	28	63	101	118	3
165°	8	18	33	45	60	2
175°	8	8	9	9	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-81HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2434.7	2434.7	2434.7	2434.7	2434.7
2.5°	2452.6	2446.6	2419.8	2434.7	2427.3
5°	2443.7	2439.2	2415.3	2433.2	2427.3
7.5°	2427.3	2425.8	2407.9	2428.8	2422.8
10°	2401.9	2406.4	2393.0	2421.3	2416.8
12.5°	2372.1	2381.1	2376.6	2407.9	2403.4
15°	2336.4	2346.8	2352.8	2382.6	2378.1
17.5°	2288.7	2308.1	2321.5	2345.3	2337.9
20°	2238.0	2264.9	2279.8	2291.7	2279.8
22.5°	2182.9	2218.7	2227.6	2221.6	2209.7
25°	2121.8	2165.0	2165.0	2145.6	2129.3
27.5°	2053.3	2106.9	2092.0	2069.7	2056.2
30°	1978.8	2042.8	2017.5	1992.2	1989.2
32.5°	1904.3	1971.3	1934.1	1928.1	1932.6
35°	1822.3	1889.4	1853.6	1868.5	1873.0
37.5°	1740.4	1807.4	1783.6	1805.9	1819.3
40°	1651.0	1722.5	1707.6	1747.8	1765.7
42.5°	1563.0	1637.5	1636.1	1688.2	1715.0
45°	1476.6	1549.6	1566.0	1630.1	1659.9
47.5°	1382.8	1457.3	1497.5	1572.0	1601.8
50°	1290.4	1370.8	1426.0	1509.4	1543.7
52.5°	1195.0	1279.9	1355.9	1448.3	1484.1
55°	1096.7	1190.5	1281.4	1384.2	1421.5
57.5°	1008.8	1104.1	1211.4	1317.2	1360.4
60°	911.9	1017.7	1135.4	1247.2	1290.4
62.5°	824.0	932.8	1063.9	1181.6	1227.8
65°	730.1	846.3	989.4	1119.0	1162.2
67.5°	643.7	762.9	919.4	1050.5	1098.2
70°	554.3	680.9	850.8	989.4	1038.6
72.5°	461.9	596.0	782.3	929.8	980.4
75°	374.0	518.5	718.2	868.7	923.8
77.5°	292.0	444.0	660.1	815.0	868.7
80°	211.6	377.0	599.0	759.9	815.0
82.5°	140.1	318.9	549.8	710.7	768.9
85°	84.9	266.7	497.7	661.6	719.7
87.5°	38.7	223.5	456.0	618.4	675.0
90°	1.5	189.2	415.7	575.2	631.8
92.5°	1.5	165.4	382.9	537.9	593.0
95°	1.5	147.5	351.6	503.6	555.8
97.5°	1.5	135.6	327.8	470.9	521.5
100°	1.5	123.7	304.0	441.1	493.2
102.5°	3.0	113.2	286.1	414.2	463.4
105°	3.0	105.8	271.2	393.4	438.1
107.5°	3.0	101.3	254.8	372.5	414.2
110°	3.0	96.9	236.9	351.6	393.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	93.9	223.5	333.8	374.0
115°	3.0	90.9	210.1	312.9	353.1
117.5°	3.0	89.4	202.6	296.5	335.3
120°	4.5	84.9	193.7	281.6	318.9
122.5°	4.5	80.5	184.8	269.7	302.5
125°	4.5	77.5	177.3	256.3	289.1
127.5°	4.5	73.0	169.9	244.4	274.2
130°	4.5	68.5	163.9	232.4	260.8
132.5°	4.5	64.1	156.5	220.5	247.3
135°	4.5	59.6	147.5	208.6	233.9
137.5°	4.5	55.1	138.6	196.7	220.5
140°	4.5	50.7	126.7	184.8	207.1
142.5°	4.5	46.2	114.7	172.8	192.2
145°	6.0	43.2	102.8	159.4	178.8
147.5°	6.0	38.7	90.9	146.0	162.4
150°	6.0	35.8	82.0	132.6	147.5
152.5°	6.0	31.3	73.0	117.7	132.6
155°	6.0	28.3	62.6	101.3	117.7
157.5°	6.0	25.3	53.6	84.9	102.8
160°	6.0	23.8	46.2	70.0	87.9
162.5°	7.5	20.9	38.7	56.6	73.0
165°	7.5	17.9	32.8	44.7	59.6
167.5°	7.5	14.9	26.8	34.3	46.2
170°	7.5	11.9	20.9	23.8	35.8
172.5°	7.5	8.9	14.9	16.4	17.9
175°	7.5	7.5	8.9	8.9	4.5
177.5°	7.5	7.5	6.0	4.5	1.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)