

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: P566822

Luminaire Tested: **4SNX-81HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566822
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-L830-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

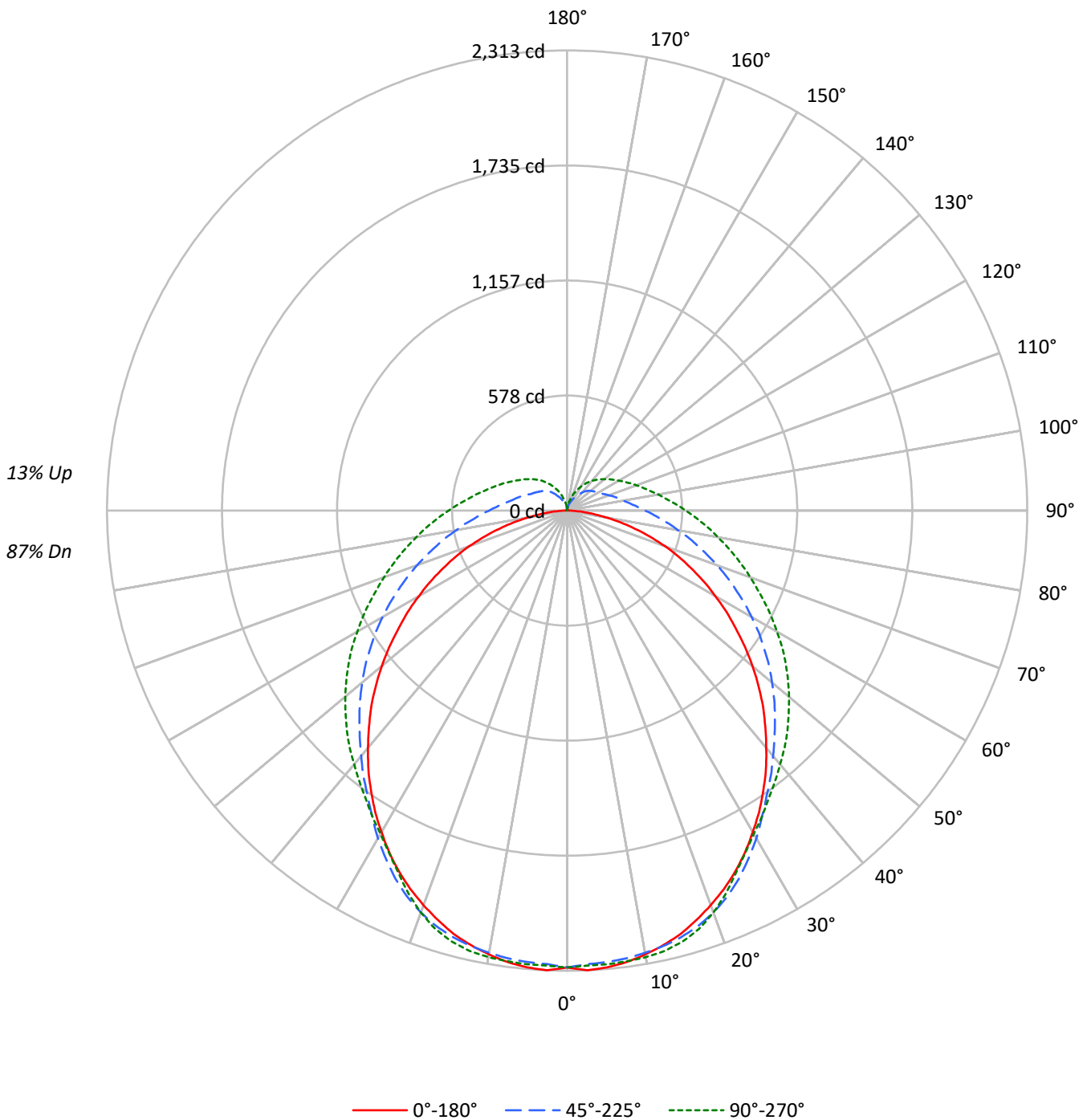
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8289.0 lumens
Efficiency: N/A
Efficacy: 150.4 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°	24716	24716	24716
5°	24811	23580	23372
10°	24579	22666	22292
15°	24284	21801	21205
20°	23816	20831	19820
25°	23313	19659	18194
30°	22650	18344	16836
35°	21943	17007	15824
40°	21139	15932	15005
45°	20351	14979	14298
50°	19415	14102	13586
55°	18320	13221	12888
60°	17268	12343	12159
65°	16100	11458	11490
70°	14763	10628	10886
75°	12694	9817	10389
80°	10003	9117	9967
85°	6701	8620	9724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	2.6
10°-20°	627.2	7.6
20°-30°	933.9	11.3
30°-40°	1102.0	13.3
40°-50°	1149.2	13.9
50°-60°	1080.0	13.0
60°-70°	912.0	11.0
70°-80°	689.1	8.3
80°-90°	475.0	5.7
90°-100°	332.4	4.0
100°-110°	248.1	3.0
110°-120°	187.0	2.3
120°-130°	139.5	1.7
130°-140°	97.9	1.2
140°-150°	59.2	0.7
150°-160°	28.3	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1779.2	21.5
0°-40°	2881.2	34.8
0°-60°	5110.4	61.7
0°-90°	7186.5	86.7
90°-120°	767.5	9.3
90°-150°	1064.0	12.8
90°-180°	1102.0	13.3
0°-180°	8289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2305	2300	2278	2295	2289	219
15°	2204	2213	2219	2247	2243	620
25°	2001	2042	2042	2024	2008	921
35°	1719	1782	1748	1762	1766	1075
45°	1393	1462	1477	1537	1566	1072
55°	1034	1123	1208	1306	1341	928
65°	689	798	933	1055	1096	684
75°	353	489	677	819	871	376
85°	80	252	469	624	679	90
90°	1	178	392	542	596	6
95°	1	139	332	475	524	1
105°	3	100	256	371	413	3
115°	3	86	198	295	333	3
125°	4	73	167	242	273	4
135°	4	56	139	197	221	3
145°	6	41	97	150	169	3
155°	6	27	59	96	111	3
165°	7	17	31	42	56	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-81HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.2	2296.2	2296.2	2296.2	2296.2
2.5°	2313.1	2307.4	2282.2	2296.2	2289.2
5°	2304.6	2300.4	2277.9	2294.8	2289.2
7.5°	2289.2	2287.8	2270.9	2290.6	2285.0
10°	2265.3	2269.5	2256.9	2283.6	2279.3
12.5°	2237.2	2245.6	2241.4	2270.9	2266.7
15°	2203.5	2213.3	2218.9	2247.0	2242.8
17.5°	2158.5	2176.8	2189.4	2211.9	2204.9
20°	2110.7	2136.0	2150.1	2161.3	2150.1
22.5°	2058.7	2092.4	2100.9	2095.3	2084.0
25°	2001.1	2041.9	2041.9	2023.6	2008.1
27.5°	1936.5	1987.0	1973.0	1951.9	1939.3
30°	1866.2	1926.6	1902.7	1878.8	1876.0
32.5°	1795.9	1859.2	1824.0	1818.4	1822.6
35°	1718.6	1781.9	1748.2	1762.2	1766.4
37.5°	1641.4	1704.6	1682.1	1703.2	1715.8
40°	1557.0	1624.5	1610.4	1648.4	1665.2
42.5°	1474.1	1544.4	1543.0	1592.2	1617.5
45°	1392.6	1461.5	1476.9	1537.4	1565.5
47.5°	1304.1	1374.4	1412.3	1482.6	1510.7
50°	1217.0	1292.8	1344.8	1423.5	1455.9
52.5°	1127.0	1207.1	1278.8	1365.9	1399.6
55°	1034.3	1122.8	1208.5	1305.5	1340.6
57.5°	951.4	1041.3	1142.5	1242.3	1283.0
60°	860.0	959.8	1070.8	1176.2	1217.0
62.5°	777.1	879.7	1003.4	1114.4	1157.9
65°	688.6	798.2	933.1	1055.4	1096.1
67.5°	607.1	719.5	867.1	990.7	1035.7
70°	522.8	642.2	802.4	933.1	979.5
72.5°	435.6	562.1	737.8	876.9	924.7
75°	352.7	489.0	677.3	819.3	871.3
77.5°	275.4	418.8	622.5	768.7	819.3
80°	199.5	355.5	564.9	716.7	768.7
82.5°	132.1	300.7	518.5	670.3	725.1
85°	80.1	251.5	469.4	623.9	678.7
87.5°	36.5	210.8	430.0	583.2	636.6
90°	1.4	178.5	392.1	542.4	595.8
92.5°	1.4	156.0	361.2	507.3	559.3
95°	1.4	139.1	331.6	475.0	524.2
97.5°	1.4	127.9	309.2	444.1	491.8
100°	1.4	116.6	286.7	416.0	465.1
102.5°	2.8	106.8	269.8	390.7	437.0
105°	2.8	99.8	255.8	371.0	413.1
107.5°	2.8	95.6	240.3	351.3	390.7
110°	2.8	91.3	223.4	331.6	371.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	88.5	210.8	314.8	352.7
115°	2.8	85.7	198.1	295.1	333.0
117.5°	2.8	84.3	191.1	279.6	316.2
120°	4.2	80.1	182.7	265.6	300.7
122.5°	4.2	75.9	174.3	254.4	285.3
125°	4.2	73.1	167.2	241.7	272.6
127.5°	4.2	68.9	160.2	230.5	258.6
130°	4.2	64.6	154.6	219.2	245.9
132.5°	4.2	60.4	147.6	208.0	233.3
135°	4.2	56.2	139.1	196.7	220.6
137.5°	4.2	52.0	130.7	185.5	208.0
140°	4.2	47.8	119.4	174.3	195.3
142.5°	4.2	43.6	108.2	163.0	181.3
145°	5.6	40.8	97.0	150.4	168.6
147.5°	5.6	36.5	85.7	137.7	153.2
150°	5.6	33.7	77.3	125.1	139.1
152.5°	5.6	29.5	68.9	111.0	125.1
155°	5.6	26.7	59.0	95.6	111.0
157.5°	5.6	23.9	50.6	80.1	97.0
160°	5.6	22.5	43.6	66.0	82.9
162.5°	7.0	19.7	36.5	53.4	68.9
165°	7.0	16.9	30.9	42.2	56.2
167.5°	7.0	14.1	25.3	32.3	43.6
170°	7.0	11.2	19.7	22.5	33.7
172.5°	7.0	8.4	14.1	15.5	16.9
175°	7.0	7.0	8.4	8.4	4.2
177.5°	7.0	7.0	5.6	4.2	1.4
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)