

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: P566844

Luminaire Tested: **4SNX-81HL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566844
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-81HL-SLW-UNV-L940-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

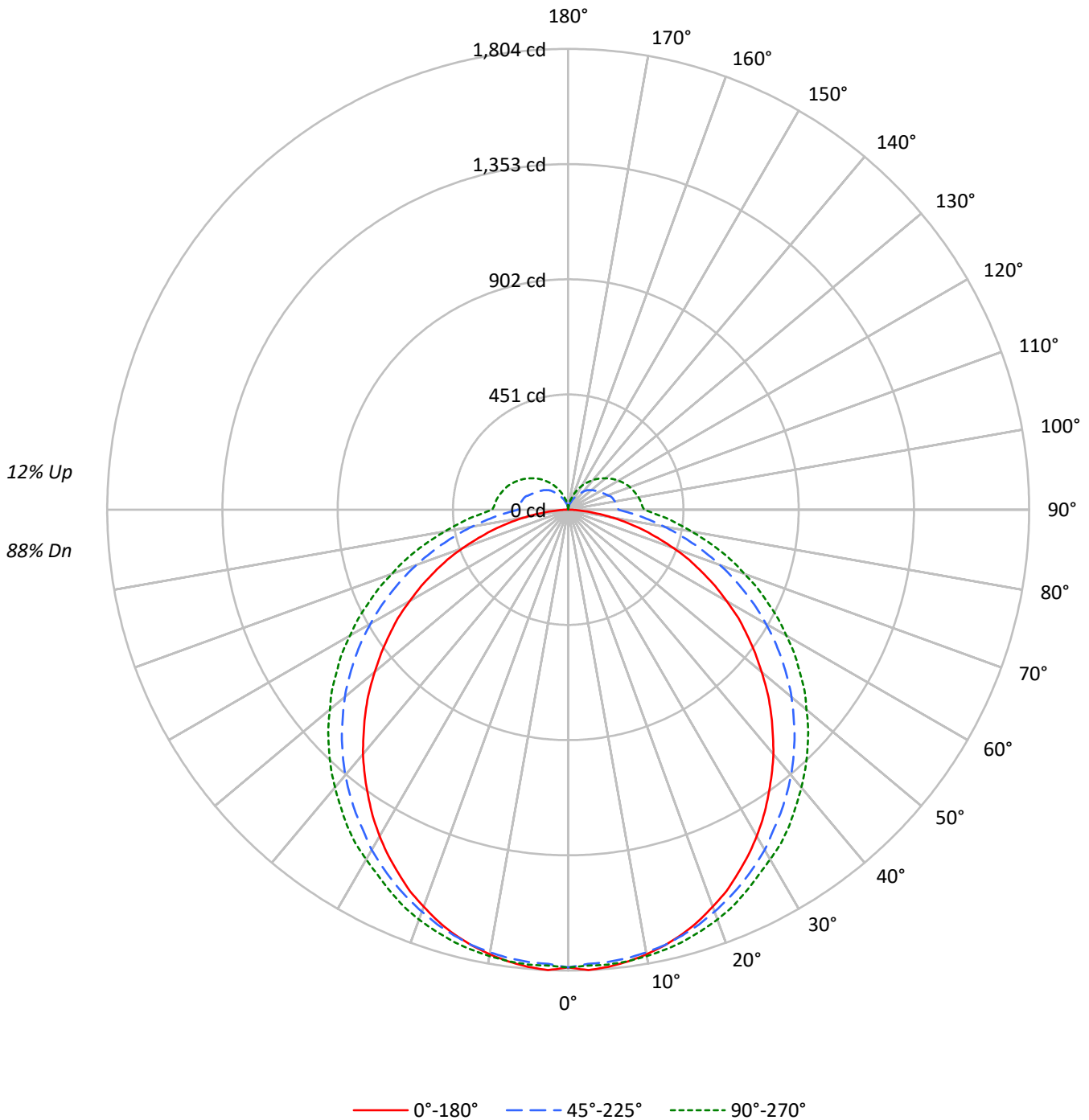
Lumens per Lamp: N/A
Luminaire Lumens: 6451.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	19287	19287	19287
5°	19374	18796	18768
10°	19248	18424	18320
15°	19073	18025	17896
20°	18801	17587	17454
25°	18478	17148	16951
30°	18127	16707	16488
35°	17685	16214	16089
40°	17255	15763	15601
45°	16738	15262	15137
50°	16139	14731	14607
55°	15563	14108	14077
60°	14900	13435	13469
65°	14089	12668	12820
70°	13059	11800	12072
75°	11599	10802	11388
80°	9556	9812	10523
85°	6618	8928	9958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	2.6
10°-20°	489.3	7.6
20°-30°	744.4	11.5
30°-40°	905.1	14.0
40°-50°	957.6	14.8
50°-60°	897.6	13.9
60°-70°	738.4	11.4
70°-80°	510.9	7.9
80°-90°	284.1	4.4
90°-100°	187.2	2.9
100°-110°	167.8	2.6
110°-120°	138.9	2.2
120°-130°	107.4	1.7
130°-140°	76.0	1.2
140°-150°	45.9	0.7
150°-160°	22.0	0.3
160°-170°	7.2	0.1
170°-180°	0.9	0.0
0°-30°	1403.8	21.8
0°-40°	2309.0	35.8
0°-60°	4164.2	64.6
0°-90°	5697.7	88.3
90°-120°	493.9	7.7
90°-150°	723.2	11.2
90°-180°	753.0	11.7
0°-180°	6451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1796	1793	1778	1792	1787	171
15°	1721	1727	1726	1749	1749	485
25°	1571	1593	1612	1647	1648	724
35°	1365	1402	1449	1496	1509	855
45°	1122	1181	1253	1309	1324	865
55°	854	930	1020	1084	1106	764
65°	578	661	763	838	862	573
75°	300	388	502	581	613	319
85°	66	165	278	356	387	76
90°	1	93	197	271	297	4
95°	1	88	191	262	287	1
105°	1	76	179	246	268	1
115°	2	66	151	219	243	2
125°	2	56	129	187	210	2
135°	2	44	108	154	172	2
145°	2	32	75	116	130	1
155°	3	22	46	74	86	1
165°	3	14	25	34	44	1
175°	3	6	8	8	4	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.8	1791.8	1791.8	1791.8	1791.8
2.5°	1804.0	1798.5	1779.7	1791.8	1786.3
5°	1796.3	1792.9	1777.5	1791.8	1787.4
7.5°	1784.1	1783.0	1770.8	1787.4	1783.0
10°	1767.5	1769.7	1759.8	1777.5	1774.2
12.5°	1746.5	1749.9	1745.4	1765.3	1763.1
15°	1721.1	1726.7	1725.6	1748.8	1748.8
17.5°	1690.2	1697.9	1702.4	1728.9	1728.9
20°	1653.7	1665.9	1674.7	1703.5	1707.9
22.5°	1617.3	1631.7	1644.9	1674.7	1681.4
25°	1570.9	1593.0	1611.8	1647.1	1648.2
27.5°	1525.6	1549.9	1575.3	1609.6	1612.9
30°	1475.9	1506.8	1537.8	1570.9	1580.8
32.5°	1422.9	1457.1	1491.4	1535.5	1548.8
35°	1365.4	1401.9	1449.4	1495.8	1509.0
37.5°	1308.0	1348.8	1404.1	1451.6	1463.7
40°	1249.4	1294.7	1356.6	1405.2	1419.6
42.5°	1184.2	1239.5	1305.8	1357.7	1374.3
45°	1122.4	1180.9	1252.7	1309.1	1324.5
47.5°	1057.2	1119.1	1196.4	1256.1	1273.7
50°	987.6	1058.3	1141.2	1200.8	1217.4
52.5°	922.4	994.2	1081.5	1143.4	1166.6
55°	853.9	930.2	1019.6	1083.7	1105.8
57.5°	789.9	862.8	958.9	1023.0	1050.6
60°	717.0	797.6	893.7	963.3	985.4
62.5°	648.5	730.2	829.6	901.4	926.9
65°	577.8	660.6	763.4	838.5	861.7
67.5°	511.5	593.2	698.2	772.2	802.0
70°	438.6	524.7	631.9	708.1	733.5
72.5°	366.8	456.2	565.6	647.4	676.1
75°	300.5	387.8	501.5	581.1	613.1
77.5°	236.4	324.8	439.7	521.4	549.0
80°	172.3	265.1	382.2	462.9	489.4
82.5°	113.8	211.0	327.0	407.6	436.4
85°	66.3	164.6	278.4	355.7	386.6
87.5°	28.7	124.8	233.1	309.3	334.7
90°	1.1	92.8	196.6	270.7	297.2
92.5°	1.1	90.6	192.2	265.1	290.5
95°	1.1	88.4	191.1	261.8	287.2
97.5°	1.1	87.3	188.9	259.6	283.9
100°	1.1	84.0	185.6	255.2	279.5
102.5°	1.1	79.5	182.3	250.8	274.0
105°	1.1	76.2	179.0	246.4	268.4
107.5°	1.1	72.9	173.4	240.8	262.9
110°	1.1	69.6	164.6	235.3	257.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	68.5	158.0	227.6	250.8
115°	2.2	66.3	151.3	218.7	243.0
117.5°	2.2	65.2	145.8	209.9	235.3
120°	2.2	61.9	140.3	202.2	226.5
122.5°	2.2	58.5	134.8	194.4	218.7
125°	2.2	56.3	129.3	186.7	209.9
127.5°	2.2	53.0	124.8	179.0	200.0
130°	2.2	50.8	119.3	170.1	191.1
132.5°	2.2	47.5	113.8	161.3	181.2
135°	2.2	44.2	108.3	153.6	172.3
137.5°	2.2	39.8	101.6	144.7	162.4
140°	2.2	36.5	92.8	135.9	152.4
142.5°	2.2	34.2	84.0	125.9	141.4
145°	2.2	32.0	75.1	116.0	130.4
147.5°	2.2	29.8	67.4	106.1	119.3
150°	2.2	26.5	59.7	97.2	108.3
152.5°	3.3	24.3	53.0	86.2	97.2
155°	3.3	22.1	46.4	74.0	86.2
157.5°	3.3	19.9	39.8	61.9	75.1
160°	3.3	17.7	34.2	50.8	64.1
162.5°	3.3	16.6	29.8	42.0	54.1
165°	3.3	14.4	25.4	34.2	44.2
167.5°	3.3	11.0	21.0	26.5	36.5
170°	3.3	8.8	16.6	18.8	27.6
172.5°	3.3	6.6	12.2	13.3	14.4
175°	3.3	5.5	7.7	7.7	4.4
177.5°	3.3	4.4	4.4	4.4	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)