

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: P566845

Luminaire Tested: **4SNX-81HL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566845
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-L950-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

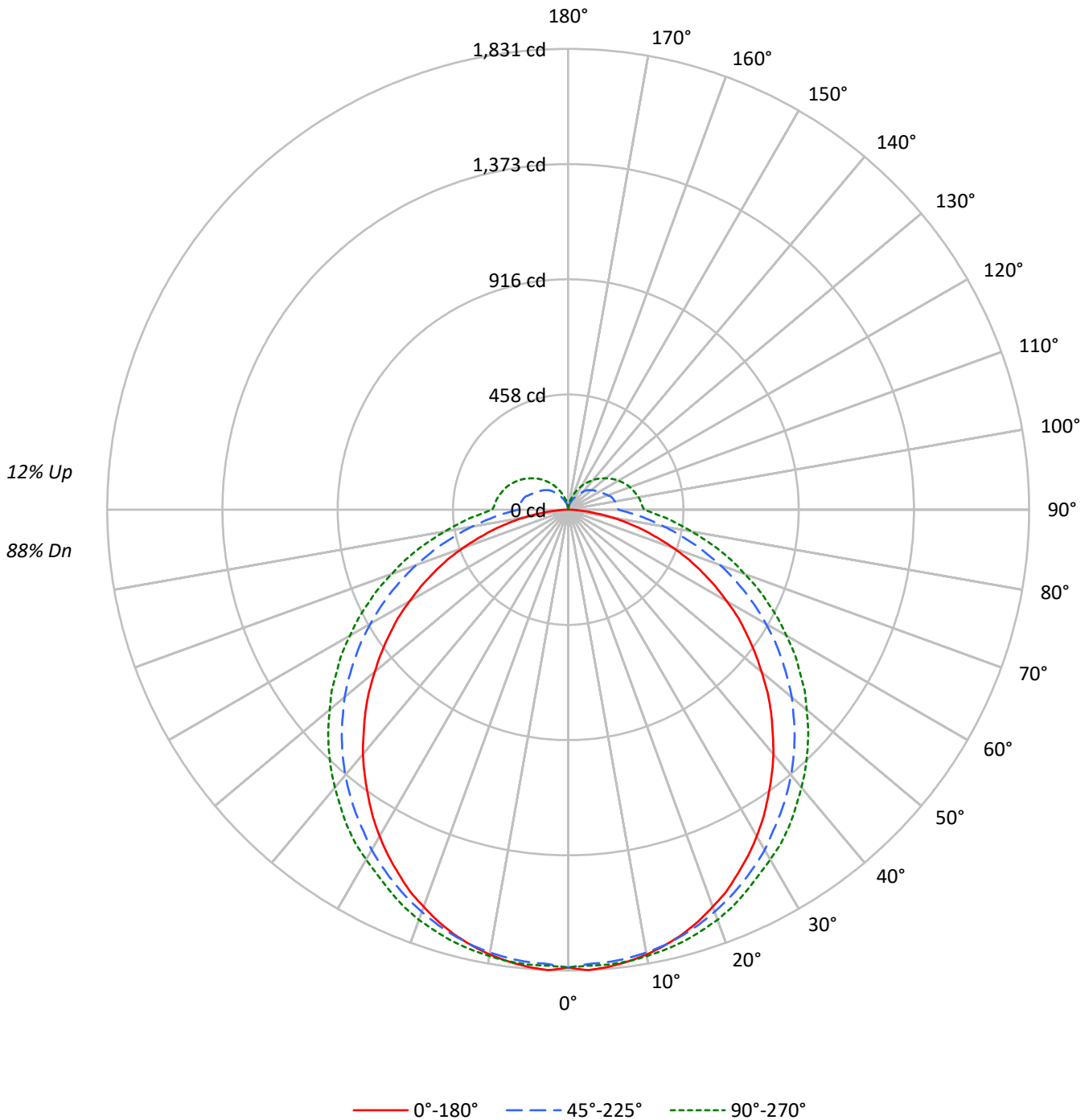
Lumens per Lamp: N/A
Luminaire Lumens: 6549.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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	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°	19581	19581	19581
5°	19667	19081	19053
10°	19541	18704	18597
15°	19364	18298	18167
20°	19087	17854	17719
25°	18759	17409	17209
30°	18402	16961	16739
35°	17954	16460	16334
40°	17518	16002	15837
45°	16992	15495	15368
50°	16384	14954	14829
55°	15800	14323	14291
60°	15124	13640	13674
65°	14302	12860	13015
70°	13255	11979	12257
75°	11773	10967	11561
80°	9706	9961	10682
85°	6718	9063	10110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	2.6
10°-20°	496.8	7.6
20°-30°	755.7	11.5
30°-40°	918.9	14.0
40°-50°	972.1	14.8
50°-60°	911.2	13.9
60°-70°	749.7	11.4
70°-80°	518.7	7.9
80°-90°	288.4	4.4
90°-100°	190.0	2.9
100°-110°	170.4	2.6
110°-120°	141.0	2.2
120°-130°	109.0	1.7
130°-140°	77.2	1.2
140°-150°	46.6	0.7
150°-160°	22.4	0.3
160°-170°	7.3	0.1
170°-180°	0.9	0.0
0°-30°	1425.2	21.8
0°-40°	2344.0	35.8
0°-60°	4227.4	64.6
0°-90°	5784.2	88.3
90°-120°	501.4	7.7
90°-150°	734.2	11.2
90°-180°	765.0	11.7
0°-180°	6549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1824	1820	1804	1819	1815	173
15°	1747	1753	1752	1775	1775	492
25°	1595	1617	1636	1672	1673	735
35°	1386	1423	1471	1518	1532	868
45°	1139	1199	1272	1329	1345	878
55°	867	944	1035	1100	1123	776
65°	586	671	775	851	875	582
75°	305	394	509	590	622	324
85°	67	167	283	361	392	77
90°	1	94	200	275	302	4
95°	1	90	194	266	292	1
105°	1	77	182	250	272	1
115°	2	67	154	222	247	2
125°	2	57	131	190	213	2
135°	2	45	110	156	175	2
145°	2	32	76	118	132	1
155°	3	22	47	75	88	1
165°	3	15	26	35	45	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°	1819.1	1819.1	1819.1	1819.1	1819.1
2.5°	1831.4	1825.8	1806.7	1819.1	1813.5
5°	1823.5	1820.2	1804.5	1819.1	1814.6
7.5°	1811.2	1810.1	1797.8	1814.6	1810.1
10°	1794.4	1796.6	1786.5	1804.5	1801.1
12.5°	1773.1	1776.4	1772.0	1792.1	1789.9
15°	1747.3	1752.9	1751.8	1775.3	1775.3
17.5°	1715.9	1723.7	1728.2	1755.1	1755.1
20°	1678.9	1691.2	1700.2	1729.3	1733.8
22.5°	1641.9	1656.4	1669.9	1700.2	1706.9
25°	1594.8	1617.2	1636.3	1672.1	1673.3
27.5°	1548.8	1573.5	1599.2	1634.0	1637.4
30°	1498.3	1529.7	1561.1	1594.8	1604.9
32.5°	1444.5	1479.2	1514.0	1558.9	1572.3
35°	1386.2	1423.2	1471.4	1518.5	1532.0
37.5°	1327.8	1369.3	1425.4	1473.6	1486.0
40°	1268.4	1314.4	1377.2	1426.5	1441.1
42.5°	1202.2	1258.3	1325.6	1378.3	1395.1
45°	1139.4	1198.9	1271.8	1329.0	1344.7
47.5°	1073.3	1136.1	1214.6	1275.1	1293.1
50°	1002.6	1074.4	1158.5	1219.1	1235.9
52.5°	936.4	1009.3	1097.9	1160.7	1184.3
55°	866.9	944.3	1035.1	1100.2	1122.6
57.5°	801.9	875.9	973.5	1038.5	1066.5
60°	727.8	809.7	907.3	977.9	1000.4
62.5°	658.3	741.3	842.2	915.1	940.9
65°	586.5	670.7	775.0	851.2	874.8
67.5°	519.3	602.2	708.8	783.9	814.2
70°	445.2	532.7	641.5	718.9	744.7
72.5°	372.3	463.2	574.2	657.2	686.4
75°	305.0	393.6	509.2	589.9	622.4
77.5°	240.0	329.7	446.4	529.3	557.4
80°	175.0	269.2	388.0	469.9	496.8
82.5°	115.5	214.2	332.0	413.8	443.0
85°	67.3	167.1	282.6	361.1	392.5
87.5°	29.2	126.7	236.6	314.0	339.8
90°	1.1	94.2	199.6	274.8	301.7
92.5°	1.1	92.0	195.1	269.2	295.0
95°	1.1	89.7	194.0	265.8	291.6
97.5°	1.1	88.6	191.8	263.6	288.2
100°	1.1	85.2	188.4	259.1	283.7
102.5°	1.1	80.7	185.0	254.6	278.1
105°	1.1	77.4	181.7	250.1	272.5
107.5°	1.1	74.0	176.1	244.5	266.9
110°	1.1	70.7	167.1	238.9	261.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	69.5	160.4	231.0	254.6
115°	2.2	67.3	153.6	222.1	246.7
117.5°	2.2	66.2	148.0	213.1	238.9
120°	2.2	62.8	142.4	205.2	229.9
122.5°	2.2	59.4	136.8	197.4	222.1
125°	2.2	57.2	131.2	189.5	213.1
127.5°	2.2	53.8	126.7	181.7	203.0
130°	2.2	51.6	121.1	172.7	194.0
132.5°	2.2	48.2	115.5	163.7	183.9
135°	2.2	44.9	109.9	155.9	175.0
137.5°	2.2	40.4	103.2	146.9	164.9
140°	2.2	37.0	94.2	137.9	154.8
142.5°	2.2	34.8	85.2	127.9	143.6
145°	2.2	32.5	76.3	117.8	132.3
147.5°	2.2	30.3	68.4	107.7	121.1
150°	2.2	26.9	60.6	98.7	109.9
152.5°	3.4	24.7	53.8	87.5	98.7
155°	3.4	22.4	47.1	75.1	87.5
157.5°	3.4	20.2	40.4	62.8	76.3
160°	3.4	17.9	34.8	51.6	65.0
162.5°	3.4	16.8	30.3	42.6	55.0
165°	3.4	14.6	25.8	34.8	44.9
167.5°	3.4	11.2	21.3	26.9	37.0
170°	3.4	9.0	16.8	19.1	28.0
172.5°	3.4	6.7	12.3	13.5	14.6
175°	3.4	5.6	7.9	7.9	4.5
177.5°	3.4	4.5	4.5	4.5	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)