

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: P566982

Luminaire Tested: **4SNX-90HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566982
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-90HL-SLW-UNV-L830-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

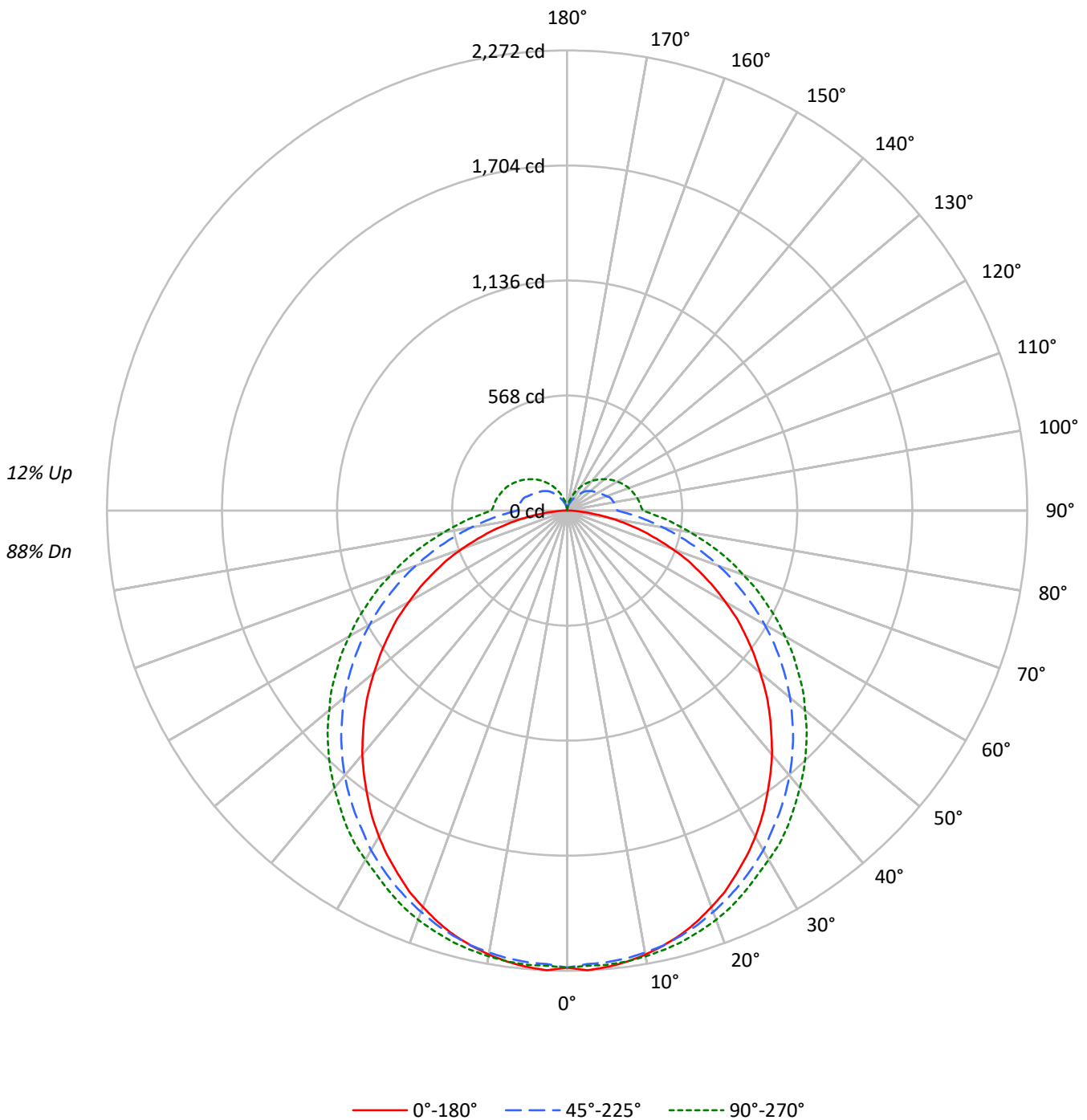
Lumens per Lamp: N/A
Luminaire Lumens: 8124.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	24289	24289	24289
5°	24398	23669	23636
10°	24240	23203	23070
15°	24020	22699	22537
20°	23677	22148	21981
25°	23270	21595	21348
30°	22827	21040	20764
35°	22271	20419	20262
40°	21731	19851	19646
45°	21080	19221	19064
50°	20324	18551	18395
55°	19600	17768	17728
60°	18763	16920	16962
65°	17742	15951	16143
70°	16444	14861	15204
75°	14606	13604	14341
80°	12035	12358	13252
85°	8335	11244	12541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	2.6
10°-20°	616.2	7.6
20°-30°	937.5	11.5
30°-40°	1139.9	14.0
40°-50°	1205.9	14.8
50°-60°	1130.4	13.9
60°-70°	929.9	11.4
70°-80°	643.4	7.9
80°-90°	357.8	4.4
90°-100°	235.7	2.9
100°-110°	211.4	2.6
110°-120°	175.0	2.2
120°-130°	135.3	1.7
130°-140°	95.7	1.2
140°-150°	57.8	0.7
150°-160°	27.7	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1767.9	21.8
0°-40°	2907.8	35.8
0°-60°	5244.1	64.6
0°-90°	7175.3	88.3
90°-120°	622.0	7.7
90°-150°	910.8	11.2
90°-180°	949.0	11.7
0°-180°	8124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2262	2258	2238	2256	2251	215
15°	2168	2174	2173	2202	2202	611
25°	1978	2006	2030	2074	2076	912
35°	1720	1765	1825	1884	1900	1076
45°	1414	1487	1578	1649	1668	1089
55°	1075	1171	1284	1365	1393	963
65°	728	832	961	1056	1085	721
75°	378	488	632	732	772	401
85°	84	207	351	448	487	96
90°	1	117	248	341	374	6
95°	1	111	241	330	362	1
105°	1	96	225	310	338	1
115°	3	84	191	276	306	2
125°	3	71	163	235	264	3
135°	3	56	136	193	217	2
145°	3	40	95	146	164	2
155°	4	28	58	93	108	2
165°	4	18	32	43	56	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°	2256.5	2256.5	2256.5	2256.5	2256.5
2.5°	2271.8	2264.9	2241.2	2256.5	2249.6
5°	2262.1	2257.9	2238.4	2256.5	2251.0
7.5°	2246.8	2245.4	2230.1	2251.0	2245.4
10°	2225.9	2228.7	2216.2	2238.4	2234.3
12.5°	2199.5	2203.7	2198.1	2223.1	2220.4
15°	2167.5	2174.5	2173.1	2202.3	2202.3
17.5°	2128.5	2138.3	2143.8	2177.2	2177.2
20°	2082.6	2097.9	2109.1	2145.2	2150.8
22.5°	2036.7	2054.8	2071.5	2109.1	2117.4
25°	1978.3	2006.1	2029.8	2074.3	2075.7
27.5°	1921.3	1951.9	1983.9	2027.0	2031.2
30°	1858.6	1897.6	1936.6	1978.3	1990.8
32.5°	1791.9	1835.0	1878.1	1933.8	1950.5
35°	1719.5	1765.4	1825.3	1883.7	1900.4
37.5°	1647.2	1698.7	1768.2	1828.0	1843.3
40°	1573.5	1630.5	1708.4	1769.6	1787.7
42.5°	1491.4	1560.9	1644.4	1709.8	1730.7
45°	1413.5	1487.2	1577.6	1648.6	1668.1
47.5°	1331.4	1409.3	1506.7	1581.8	1604.1
50°	1243.7	1332.8	1437.1	1512.2	1533.1
52.5°	1161.7	1252.1	1362.0	1439.9	1469.1
55°	1075.4	1171.4	1284.1	1364.8	1392.6
57.5°	994.7	1086.5	1207.6	1288.3	1323.0
60°	902.9	1004.4	1125.5	1213.1	1241.0
62.5°	816.6	919.6	1044.8	1135.2	1167.2
65°	727.6	831.9	961.3	1055.9	1085.1
67.5°	644.1	747.1	879.2	972.5	1010.0
70°	552.3	660.8	795.8	891.8	923.8
72.5°	461.9	574.6	712.3	815.2	851.4
75°	378.4	488.3	631.6	731.8	772.1
77.5°	297.7	409.0	553.7	656.6	691.4
80°	217.0	333.9	481.4	582.9	616.3
82.5°	143.3	265.7	411.8	513.4	549.5
85°	83.5	207.3	350.6	448.0	486.9
87.5°	36.2	157.2	293.5	389.5	421.5
90°	1.4	116.9	247.6	340.8	374.2
92.5°	1.4	114.1	242.1	333.9	365.9
95°	1.4	111.3	240.7	329.7	361.7
97.5°	1.4	109.9	237.9	326.9	357.5
100°	1.4	105.7	233.7	321.4	352.0
102.5°	1.4	100.2	229.5	315.8	345.0
105°	1.4	96.0	225.4	310.2	338.1
107.5°	1.4	91.8	218.4	303.3	331.1
110°	1.4	87.6	207.3	296.3	324.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	86.3	198.9	286.6	315.8
115°	2.8	83.5	190.6	275.5	306.1
117.5°	2.8	82.1	183.6	264.3	296.3
120°	2.8	77.9	176.7	254.6	285.2
122.5°	2.8	73.7	169.7	244.9	275.5
125°	2.8	71.0	162.8	235.1	264.3
127.5°	2.8	66.8	157.2	225.4	251.8
130°	2.8	64.0	150.3	214.2	240.7
132.5°	2.8	59.8	143.3	203.1	228.2
135°	2.8	55.6	136.3	193.4	217.0
137.5°	2.8	50.1	128.0	182.2	204.5
140°	2.8	45.9	116.9	171.1	192.0
142.5°	2.8	43.1	105.7	158.6	178.1
145°	2.8	40.3	94.6	146.1	164.2
147.5°	2.8	37.6	84.9	133.6	150.3
150°	2.8	33.4	75.1	122.4	136.3
152.5°	4.2	30.6	66.8	108.5	122.4
155°	4.2	27.8	58.4	93.2	108.5
157.5°	4.2	25.0	50.1	77.9	94.6
160°	4.2	22.3	43.1	64.0	80.7
162.5°	4.2	20.9	37.6	52.9	68.2
165°	4.2	18.1	32.0	43.1	55.6
167.5°	4.2	13.9	26.4	33.4	45.9
170°	4.2	11.1	20.9	23.7	34.8
172.5°	4.2	8.3	15.3	16.7	18.1
175°	4.2	7.0	9.7	9.7	5.6
177.5°	4.2	5.6	5.6	5.6	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)