

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: P566958

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-90HL-LC-UNV-L830-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

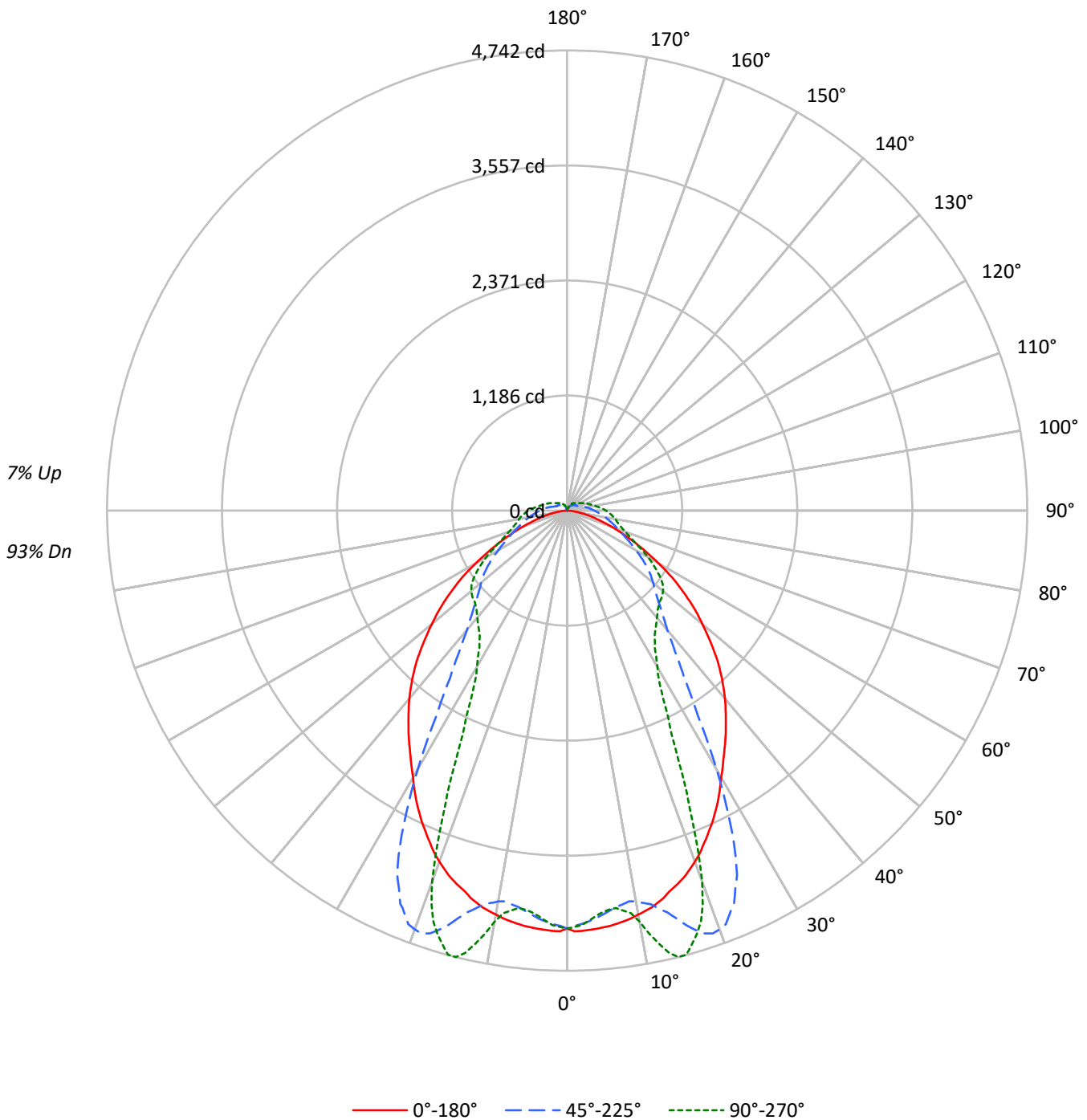
Lumens per Lamp: N/A
Luminaire Lumens: 9572.0 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46359	46359	46359
5°	46415	43267	42435
10°	45859	41082	42080
15°	44791	42732	44797
20°	43436	44503	37491
25°	41255	39890	23052
30°	38545	29688	16684
35°	36331	20473	14075
40°	34346	15876	12971
45°	32036	13504	12267
50°	29027	12107	12042
55°	25860	10936	11141
60°	21804	9451	9637
65°	17598	8219	8043
70°	13659	7375	7082
75°	10416	6843	6604
80°	7110	6462	6537
85°	3664	6147	6492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	4.2
10°-20°	1224.6	12.8
20°-30°	1649.0	17.2
30°-40°	1560.6	16.3
40°-50°	1377.4	14.4
50°-60°	1118.8	11.7
60°-70°	760.9	7.9
70°-80°	489.6	5.1
80°-90°	325.5	3.4
90°-100°	223.7	2.3
100°-110°	150.2	1.6
110°-120°	105.9	1.1
120°-130°	75.7	0.8
130°-140°	53.4	0.6
140°-150°	33.2	0.3
150°-160°	16.2	0.2
160°-170°	5.7	0.1
170°-180°	1.0	0.0
0°-30°	3274.3	34.2
0°-40°	4834.9	50.5
0°-60°	7331.1	76.6
0°-90°	8907.1	93.1
90°-120°	479.8	5.0
90°-150°	642.1	6.7
90°-180°	665.0	6.9
0°-180°	9572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4307	4307	4307	4307	4307	
5°	4311	4272	4180	4177	4156	409
15°	4064	4038	4349	4734	4738	1146
25°	3541	4199	4143	3009	2544	1625
35°	2846	3993	2104	1621	1571	1781
45°	2192	2686	1331	1315	1343	1683
55°	1460	1589	1000	1117	1159	1304
65°	753	856	669	744	767	756
75°	289	405	472	529	554	315
85°	44	172	335	424	453	57
90°	2	120	279	376	400	3
95°	2	92	235	319	340	1
105°	3	64	155	218	244	3
115°	3	56	114	162	183	3
125°	4	47	98	123	132	4
135°	6	36	80	102	108	4
145°	6	26	57	79	86	4
155°	7	16	35	53	60	3
165°	7	10	19	26	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4306.9	4306.9	4306.9	4306.9	4306.9
1°	4336.2	4323.0	4279.2	4302.5	4290.9
2°	4334.7	4312.8	4263.1	4289.4	4274.8
3°	4327.4	4304.0	4239.7	4255.8	4233.9
4°	4320.1	4292.3	4214.9	4214.9	4190.0
5°	4311.3	4271.9	4179.8	4176.9	4156.4
6°	4301.1	4255.8	4149.1	4146.2	4134.5
7°	4286.5	4228.0	4115.5	4135.9	4127.2
8°	4268.9	4201.7	4097.9	4149.1	4162.2
9°	4252.9	4169.6	4077.5	4190.0	4200.2
10°	4226.5	4140.3	4090.6	4271.9	4302.5
11°	4204.6	4115.5	4119.9	4352.2	4444.3
12°	4182.7	4089.2	4147.6	4453.1	4565.6
13°	4146.2	4068.7	4209.0	4562.7	4678.1
14°	4114.0	4052.6	4268.9	4673.8	4742.4
15°	4064.3	4038.0	4349.3	4733.7	4738.1
16°	4030.7	4027.8	4442.8	4738.1	4656.2
17°	3992.7	4023.4	4518.8	4662.1	4565.6
18°	3950.3	4032.2	4581.7	4567.1	4456.0
19°	3902.1	4040.9	4608.0	4435.5	4292.3
20°	3849.5	4054.1	4593.4	4298.2	4067.2
21°	3796.9	4071.6	4565.6	4153.5	3772.0
22.5°	3699.0	4114.0	4434.1	3747.2	3283.9
23°	3671.2	4122.8	4403.4	3620.0	3156.8
24°	3602.5	4159.3	4263.1	3323.4	2820.6
25°	3541.1	4198.8	4143.2	3009.2	2544.4
26°	3472.4	4228.0	3962.0	2719.8	2374.9
27°	3405.2	4245.5	3756.0	2494.7	2184.9
28°	3327.7	4264.5	3532.4	2300.3	2041.7
29°	3254.7	4267.5	3311.7	2145.4	1929.1
30°	3175.8	4252.9	3079.3	2021.2	1859.0
32.5°	3003.3	4172.5	2510.8	1784.4	1683.6
35°	2845.5	3992.7	2104.5	1620.8	1571.1
37.5°	2686.2	3709.2	1819.5	1518.5	1502.4
40°	2529.8	3373.1	1604.7	1436.6	1439.5
42.5°	2364.6	3026.7	1457.1	1369.4	1382.5
45°	2192.2	2686.2	1331.4	1315.3	1343.1
47.5°	2000.7	2374.9	1232.0	1280.2	1322.6
50°	1819.5	2066.5	1154.6	1246.6	1290.5
52.5°	1647.1	1813.7	1084.4	1189.6	1240.8
55°	1460.0	1588.6	999.6	1116.6	1158.9
57.5°	1281.7	1385.5	910.5	1025.9	1063.9
60°	1085.9	1185.2	819.9	928.0	964.6
62.5°	909.0	1014.3	742.4	830.1	859.3
65°	752.7	856.4	669.3	743.9	767.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	613.8	724.9	609.4	672.3	694.2
70°	483.7	600.7	556.8	613.8	637.2
72.5°	378.5	496.9	513.0	565.6	589.0
75°	289.4	404.8	472.1	529.0	553.9
77.5°	214.8	330.3	434.1	499.8	526.1
80°	141.8	263.1	400.4	473.5	504.2
82.5°	89.1	211.9	366.8	447.2	479.4
85°	43.8	172.5	334.7	423.8	453.1
87.5°	14.6	143.2	305.4	400.4	425.3
90°	1.5	119.8	279.1	375.6	400.4
92.5°	1.5	103.8	257.2	346.4	371.2
95°	1.5	92.1	235.3	318.6	340.5
97.5°	1.5	83.3	214.8	289.4	312.8
100°	1.5	74.5	192.9	261.6	286.4
102.5°	2.9	68.7	173.9	238.2	264.5
105°	2.9	64.3	154.9	217.8	244.1
107.5°	2.9	61.4	138.8	201.7	226.5
110°	2.9	58.5	127.1	187.1	213.4
112.5°	2.9	57.0	119.8	173.9	198.8
115°	2.9	55.5	114.0	162.2	182.7
117.5°	4.4	54.1	109.6	150.5	166.6
120°	4.4	51.2	106.7	140.3	153.5
122.5°	4.4	48.2	102.3	131.5	141.8
125°	4.4	46.8	97.9	122.8	131.5
127.5°	4.4	43.8	93.5	115.5	124.2
130°	5.8	40.9	89.1	109.6	116.9
132.5°	5.8	38.0	84.8	106.7	112.5
135°	5.8	36.5	80.4	102.3	108.1
137.5°	5.8	33.6	76.0	97.9	103.8
140°	5.8	30.7	70.2	92.1	97.9
142.5°	5.8	29.2	64.3	86.2	92.1
145°	5.8	26.3	57.0	78.9	86.2
147.5°	7.3	24.8	51.2	73.1	78.9
150°	7.3	21.9	45.3	67.2	73.1
152.5°	7.3	19.0	39.5	59.9	65.8
155°	7.3	16.1	35.1	52.6	59.9
157.5°	7.3	14.6	30.7	43.8	52.6
160°	7.3	13.2	26.3	38.0	45.3
162.5°	7.3	11.7	23.4	32.2	39.5
165°	7.3	10.2	19.0	26.3	32.2
167.5°	8.8	10.2	16.1	20.5	26.3
170°	8.8	10.2	13.2	16.1	20.5
172.5°	8.8	8.8	10.2	11.7	13.2
175°	8.8	8.8	8.8	8.8	7.3
177.5°	8.8	8.8	8.8	7.3	7.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)