

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: P566965

Luminaire Tested: **4SNX-90HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

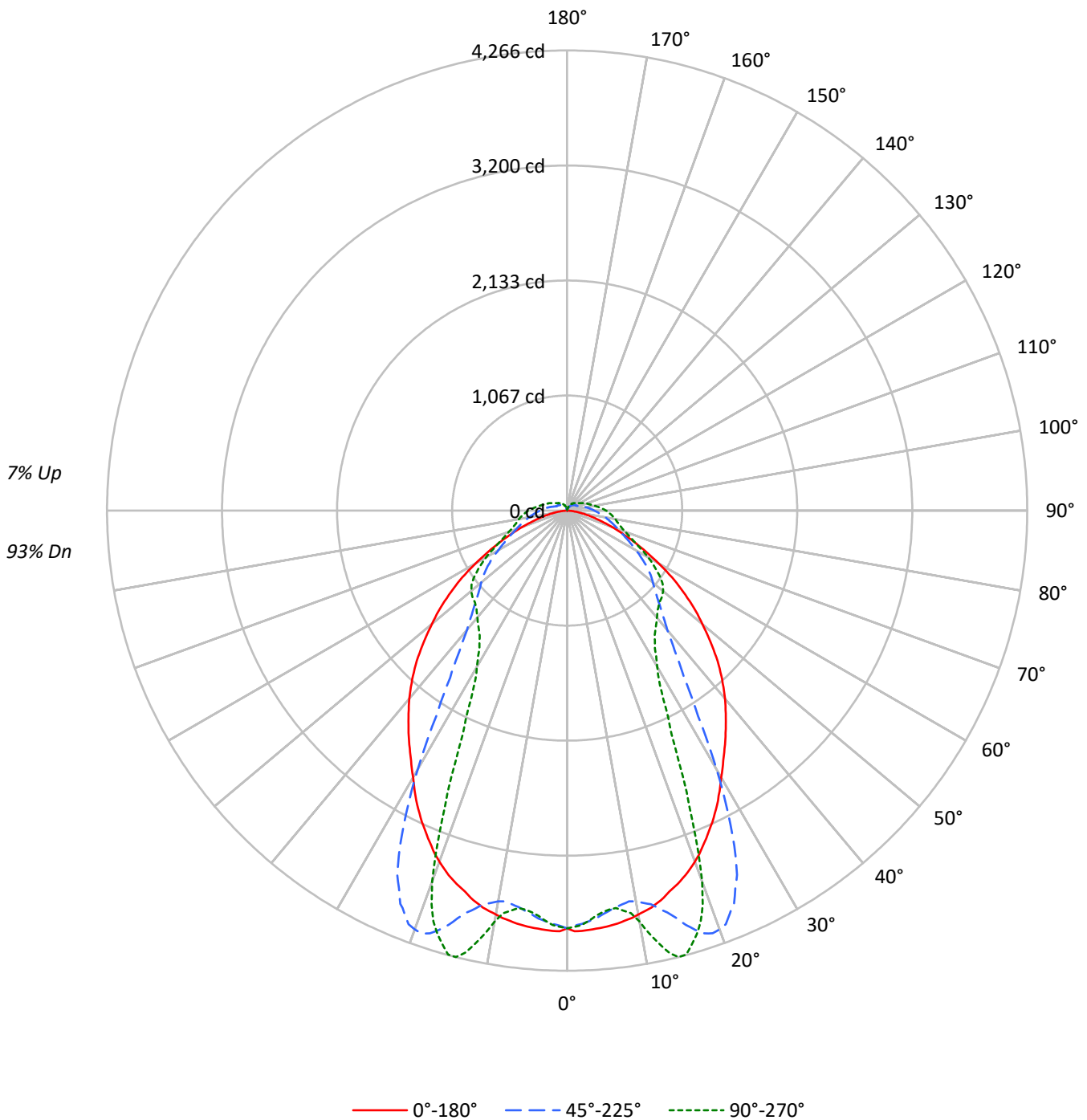
Test Method: LM-79-08  
Report Number: P566965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-90HL-LC-UNV-L950-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8610.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 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 (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

TEST NUMBER: P566965  
CATALOG NUMBER: 4SNX-90HL-LC-UNV-L950-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566965

CATALOG NUMBER: 4SNX-90HL-LC-UNV-L950-CD

**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	37	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°	41700	41700	41700
5°	41750	38918	38170
10°	41250	36953	37851
15°	40290	38437	40295
20°	39071	40030	33724
25°	37109	35881	20736
30°	34671	26704	15007
35°	32679	18416	12660
40°	30894	14280	11668
45°	28816	12147	11034
50°	26111	10890	10832
55°	23262	9838	10022
60°	19611	8501	8668
65°	15829	7394	7235
70°	12287	6634	6371
75°	9369	6154	5940
80°	6393	5814	5880
85°	3296	5528	5838



TEST NUMBER: P566965

CATALOG NUMBER: 4SNX-90HL-LC-UNV-L950-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.5	4.2
10°-20°	1101.5	12.8
20°-30°	1483.2	17.2
30°-40°	1403.7	16.3
40°-50°	1239.0	14.4
50°-60°	1006.3	11.7
60°-70°	684.4	7.9
70°-80°	440.4	5.1
80°-90°	292.8	3.4
90°-100°	201.2	2.3
100°-110°	135.1	1.6
110°-120°	95.3	1.1
120°-130°	68.1	0.8
130°-140°	48.0	0.6
140°-150°	29.8	0.3
150°-160°	14.5	0.2
160°-170°	5.1	0.1
170°-180°	0.9	0.0
0°-30°	2945.3	34.2
0°-40°	4349.0	50.5
0°-60°	6594.3	76.6
0°-90°	8011.9	93.1
90°-120°	431.6	5.0
90°-150°	577.5	6.7
90°-180°	598.0	6.9
0°-180°	8610.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3874	3874	3874	3874	3874	
5°	3878	3842	3760	3757	3739	368
15°	3656	3632	3912	4258	4262	1031
25°	3185	3777	3727	2707	2289	1462
35°	2560	3591	1893	1458	1413	1602
45°	1972	2416	1198	1183	1208	1514
55°	1313	1429	899	1004	1042	1173
65°	677	770	602	669	690	680
75°	260	364	425	476	498	283
85°	39	155	301	381	408	52
90°	1	108	251	338	360	2
95°	1	83	212	287	306	1
105°	3	58	139	196	220	3
115°	3	50	102	146	164	3
125°	4	42	88	110	118	4
135°	5	33	72	92	97	4
145°	5	24	51	71	78	4
155°	7	14	32	47	54	3
165°	7	9	17	24	29	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566965

CATALOG NUMBER: 4SNX-90HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3874.1	3874.1	3874.1	3874.1	3874.1
1°	3900.4	3888.5	3849.1	3870.1	3859.6
2°	3899.1	3879.3	3834.6	3858.3	3845.2
3°	3892.5	3871.4	3813.6	3828.1	3808.3
4°	3885.9	3860.9	3791.3	3791.3	3768.9
5°	3878.0	3842.5	3759.7	3757.1	3738.7
6°	3868.8	3828.1	3732.1	3729.5	3719.0
7°	3855.7	3803.1	3701.9	3720.3	3712.4
8°	3839.9	3779.4	3686.1	3732.1	3743.9
9°	3825.4	3750.5	3667.7	3768.9	3778.1
10°	3801.8	3724.2	3679.5	3842.5	3870.1
11°	3782.1	3701.9	3705.8	3914.8	3997.6
12°	3762.3	3678.2	3730.8	4005.5	4106.8
13°	3729.5	3659.8	3786.0	4104.1	4208.0
14°	3700.6	3645.3	3839.9	4204.0	4265.8
15°	3655.9	3632.2	3912.2	4257.9	4261.9
16°	3625.6	3623.0	3996.3	4261.9	4188.3
17°	3591.4	3619.0	4064.7	4193.5	4106.8
18°	3553.3	3626.9	4121.2	4108.1	4008.2
19°	3509.9	3634.8	4144.9	3989.8	3860.9
20°	3462.6	3646.7	4131.7	3866.2	3658.5
21°	3415.3	3662.4	4106.8	3736.0	3392.9
22.5°	3327.2	3700.6	3988.4	3370.6	2953.9
23°	3302.2	3708.4	3960.8	3256.2	2839.5
24°	3240.4	3741.3	3834.6	2989.4	2537.1
25°	3185.2	3776.8	3726.8	2706.7	2288.7
26°	3123.4	3803.1	3563.8	2446.4	2136.2
27°	3063.0	3818.9	3378.5	2244.0	1965.3
28°	2993.3	3836.0	3177.3	2069.2	1836.5
29°	2927.6	3838.6	2978.8	1929.8	1735.2
30°	2856.6	3825.4	2769.8	1818.1	1672.1
32.5°	2701.5	3753.1	2258.5	1605.1	1514.4
35°	2559.5	3591.4	1893.0	1457.9	1413.2
37.5°	2416.2	3336.4	1636.7	1365.9	1351.4
40°	2275.5	3034.1	1443.4	1292.2	1294.9
42.5°	2127.0	2722.5	1310.6	1231.8	1243.6
45°	1971.9	2416.2	1197.6	1183.1	1208.1
47.5°	1799.7	2136.2	1108.2	1151.6	1189.7
50°	1636.7	1858.8	1038.5	1121.3	1160.8
52.5°	1481.5	1631.4	975.4	1070.1	1116.1
55°	1313.3	1429.0	899.2	1004.3	1042.5
57.5°	1152.9	1246.2	819.0	922.8	957.0
60°	976.7	1066.1	737.5	834.8	867.6
62.5°	817.7	912.3	667.8	746.7	773.0
65°	677.0	770.3	602.1	669.1	690.2



TEST NUMBER: P566965

CATALOG NUMBER: 4SNX-90HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	552.1	652.0	548.2	604.7	624.4
70°	435.1	540.3	500.9	552.1	573.2
72.5°	340.5	447.0	461.4	508.7	529.8
75°	260.3	364.1	424.6	475.9	498.2
77.5°	193.2	297.1	390.4	449.6	473.2
80°	127.5	236.6	360.2	425.9	453.5
82.5°	80.2	190.6	330.0	402.3	431.2
85°	39.4	155.1	301.0	381.2	407.5
87.5°	13.1	128.8	274.7	360.2	382.5
90°	1.3	107.8	251.1	337.8	360.2
92.5°	1.3	93.3	231.4	311.6	333.9
95°	1.3	82.8	211.6	286.6	306.3
97.5°	1.3	74.9	193.2	260.3	281.3
100°	1.3	67.0	173.5	235.3	257.7
102.5°	2.6	61.8	156.4	214.3	237.9
105°	2.6	57.8	139.3	195.9	219.5
107.5°	2.6	55.2	124.9	181.4	203.8
110°	2.6	52.6	114.4	168.3	191.9
112.5°	2.6	51.3	107.8	156.4	178.8
115°	2.6	50.0	102.5	145.9	164.3
117.5°	3.9	48.6	98.6	135.4	149.9
120°	3.9	46.0	96.0	126.2	138.0
122.5°	3.9	43.4	92.0	118.3	127.5
125°	3.9	42.1	88.1	110.4	118.3
127.5°	3.9	39.4	84.1	103.9	111.7
130°	5.3	36.8	80.2	98.6	105.2
132.5°	5.3	34.2	76.2	96.0	101.2
135°	5.3	32.9	72.3	92.0	97.3
137.5°	5.3	30.2	68.4	88.1	93.3
140°	5.3	27.6	63.1	82.8	88.1
142.5°	5.3	26.3	57.8	77.6	82.8
145°	5.3	23.7	51.3	71.0	77.6
147.5°	6.6	22.3	46.0	65.7	71.0
150°	6.6	19.7	40.8	60.5	65.7
152.5°	6.6	17.1	35.5	53.9	59.2
155°	6.6	14.5	31.5	47.3	53.9
157.5°	6.6	13.1	27.6	39.4	47.3
160°	6.6	11.8	23.7	34.2	40.8
162.5°	6.6	10.5	21.0	28.9	35.5
165°	6.6	9.2	17.1	23.7	28.9
167.5°	7.9	9.2	14.5	18.4	23.7
170°	7.9	9.2	11.8	14.5	18.4
172.5°	7.9	7.9	9.2	10.5	11.8
175°	7.9	7.9	7.9	7.9	6.6
177.5°	7.9	7.9	7.9	6.6	6.6



TEST NUMBER: P566965

CATALOG NUMBER: 4SNX-90HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	6.6	6.6	6.6	6.6	6.6

(END OF REPORT)