

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: P566972

Luminaire Tested: **4SNX-90HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-90HL-LN-UNV-L940-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

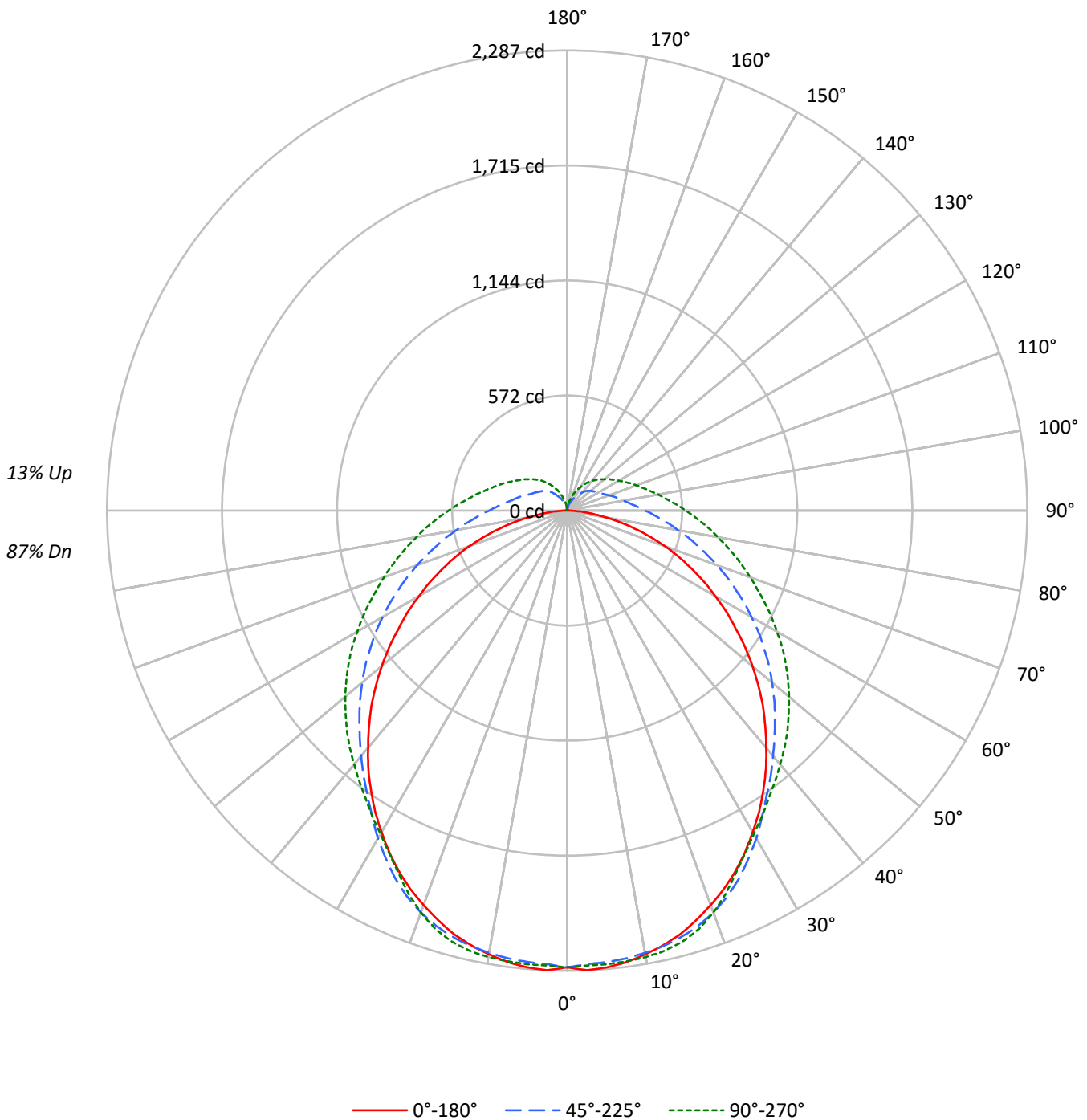
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8195.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 64.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24436	24436	24436
5°	24530	23312	23106
10°	24300	22409	22040
15°	24008	21554	20965
20°	23547	20595	19595
25°	23049	19436	17988
30°	22393	18137	16646
35°	21695	16814	15645
40°	20900	15752	14835
45°	20120	14810	14136
50°	19195	13942	13431
55°	18111	13072	12741
60°	17073	12204	12021
65°	15917	11328	11360
70°	14594	10507	10763
75°	12550	9707	10271
80°	9892	9014	9854
85°	6626	8521	9613



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.7	2.6
10°-20°	620.1	7.6
20°-30°	923.3	11.3
30°-40°	1089.5	13.3
40°-50°	1136.2	13.9
50°-60°	1067.7	13.0
60°-70°	901.7	11.0
70°-80°	681.3	8.3
80°-90°	469.6	5.7
90°-100°	328.6	4.0
100°-110°	245.3	3.0
110°-120°	184.9	2.3
120°-130°	137.9	1.7
130°-140°	96.8	1.2
140°-150°	58.5	0.7
150°-160°	28.0	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1759.0	21.5
0°-40°	2848.5	34.8
0°-60°	5052.4	61.7
0°-90°	7105.0	86.7
90°-120°	758.8	9.3
90°-150°	1052.0	12.8
90°-180°	1090.0	13.3
0°-180°	8195.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2278	2274	2252	2269	2263	216
15°	2178	2188	2194	2222	2217	613
25°	1978	2019	2019	2001	1985	910
35°	1699	1762	1728	1742	1746	1063
45°	1377	1445	1460	1520	1548	1060
55°	1022	1110	1195	1291	1325	917
65°	681	789	922	1043	1084	676
75°	349	484	670	810	861	371
85°	79	249	464	617	671	89
90°	1	176	388	536	589	6
95°	1	138	328	470	518	1
105°	3	99	253	367	408	3
115°	3	85	196	292	329	3
125°	4	72	165	239	270	4
135°	4	56	138	194	218	3
145°	6	40	96	149	167	3
155°	6	26	58	94	110	3
165°	7	17	31	42	56	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2270.2	2270.2	2270.2	2270.2	2270.2
2.5°	2286.8	2281.3	2256.3	2270.2	2263.2
5°	2278.5	2274.3	2252.1	2268.8	2263.2
7.5°	2263.2	2261.8	2245.2	2264.6	2259.1
10°	2239.6	2243.8	2231.3	2257.7	2253.5
12.5°	2211.8	2220.2	2216.0	2245.2	2241.0
15°	2178.5	2188.2	2193.8	2221.5	2217.4
17.5°	2134.0	2152.1	2164.6	2186.8	2179.9
20°	2086.8	2111.8	2125.7	2136.8	2125.7
22.5°	2035.4	2068.7	2077.1	2071.5	2060.4
25°	1978.4	2018.7	2018.7	2000.6	1985.4
27.5°	1914.5	1964.5	1950.6	1929.8	1917.3
30°	1845.0	1904.8	1881.2	1857.5	1854.8
32.5°	1775.6	1838.1	1803.4	1797.8	1802.0
35°	1699.2	1761.7	1728.3	1742.2	1746.4
37.5°	1622.7	1685.3	1663.0	1683.9	1696.4
40°	1539.4	1606.1	1592.2	1629.7	1646.4
42.5°	1457.4	1526.9	1525.5	1574.1	1599.1
45°	1376.8	1444.9	1460.2	1519.9	1547.7
47.5°	1289.3	1358.8	1396.3	1465.7	1493.5
50°	1203.2	1278.2	1329.6	1407.4	1439.3
52.5°	1114.2	1193.4	1264.3	1350.4	1383.8
55°	1022.5	1110.1	1194.8	1290.7	1325.4
57.5°	940.6	1029.5	1129.5	1228.2	1268.5
60°	850.3	948.9	1058.7	1162.9	1203.2
62.5°	768.3	869.7	992.0	1101.7	1144.8
65°	680.8	789.1	922.5	1043.4	1083.7
67.5°	600.2	711.3	857.2	979.5	1023.9
70°	516.8	634.9	793.3	922.5	968.4
72.5°	430.7	555.7	729.4	866.9	914.2
75°	348.7	483.5	669.7	810.0	861.4
77.5°	272.3	414.0	615.5	760.0	810.0
80°	197.3	351.5	558.5	708.6	760.0
82.5°	130.6	297.3	512.7	662.7	716.9
85°	79.2	248.7	464.0	616.9	671.0
87.5°	36.1	208.4	425.1	576.6	629.4
90°	1.4	176.4	387.6	536.3	589.1
92.5°	1.4	154.2	357.1	501.5	553.0
95°	1.4	137.5	327.9	469.6	518.2
97.5°	1.4	126.4	305.7	439.0	486.3
100°	1.4	115.3	283.4	411.2	459.9
102.5°	2.8	105.6	266.8	386.2	432.1
105°	2.8	98.6	252.9	366.8	408.5
107.5°	2.8	94.5	237.6	347.3	386.2
110°	2.8	90.3	220.9	327.9	366.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	87.5	208.4	311.2	348.7
115°	2.8	84.7	195.9	291.8	329.3
117.5°	2.8	83.4	188.9	276.5	312.6
120°	4.2	79.2	180.6	262.6	297.3
122.5°	4.2	75.0	172.3	251.5	282.0
125°	4.2	72.2	165.3	239.0	269.5
127.5°	4.2	68.1	158.4	227.9	255.6
130°	4.2	63.9	152.8	216.7	243.1
132.5°	4.2	59.7	145.9	205.6	230.6
135°	4.2	55.6	137.5	194.5	218.1
137.5°	4.2	51.4	129.2	183.4	205.6
140°	4.2	47.2	118.1	172.3	193.1
142.5°	4.2	43.1	107.0	161.2	179.2
145°	5.6	40.3	95.9	148.7	166.7
147.5°	5.6	36.1	84.7	136.2	151.4
150°	5.6	33.3	76.4	123.7	137.5
152.5°	5.6	29.2	68.1	109.8	123.7
155°	5.6	26.4	58.4	94.5	109.8
157.5°	5.6	23.6	50.0	79.2	95.9
160°	5.6	22.2	43.1	65.3	82.0
162.5°	6.9	19.5	36.1	52.8	68.1
165°	6.9	16.7	30.6	41.7	55.6
167.5°	6.9	13.9	25.0	32.0	43.1
170°	6.9	11.1	19.5	22.2	33.3
172.5°	6.9	8.3	13.9	15.3	16.7
175°	6.9	6.9	8.3	8.3	4.2
177.5°	6.9	6.9	5.6	4.2	1.4
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)