

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: P566967

Luminaire Tested: **4SNX-90HL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566967  
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-L835-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

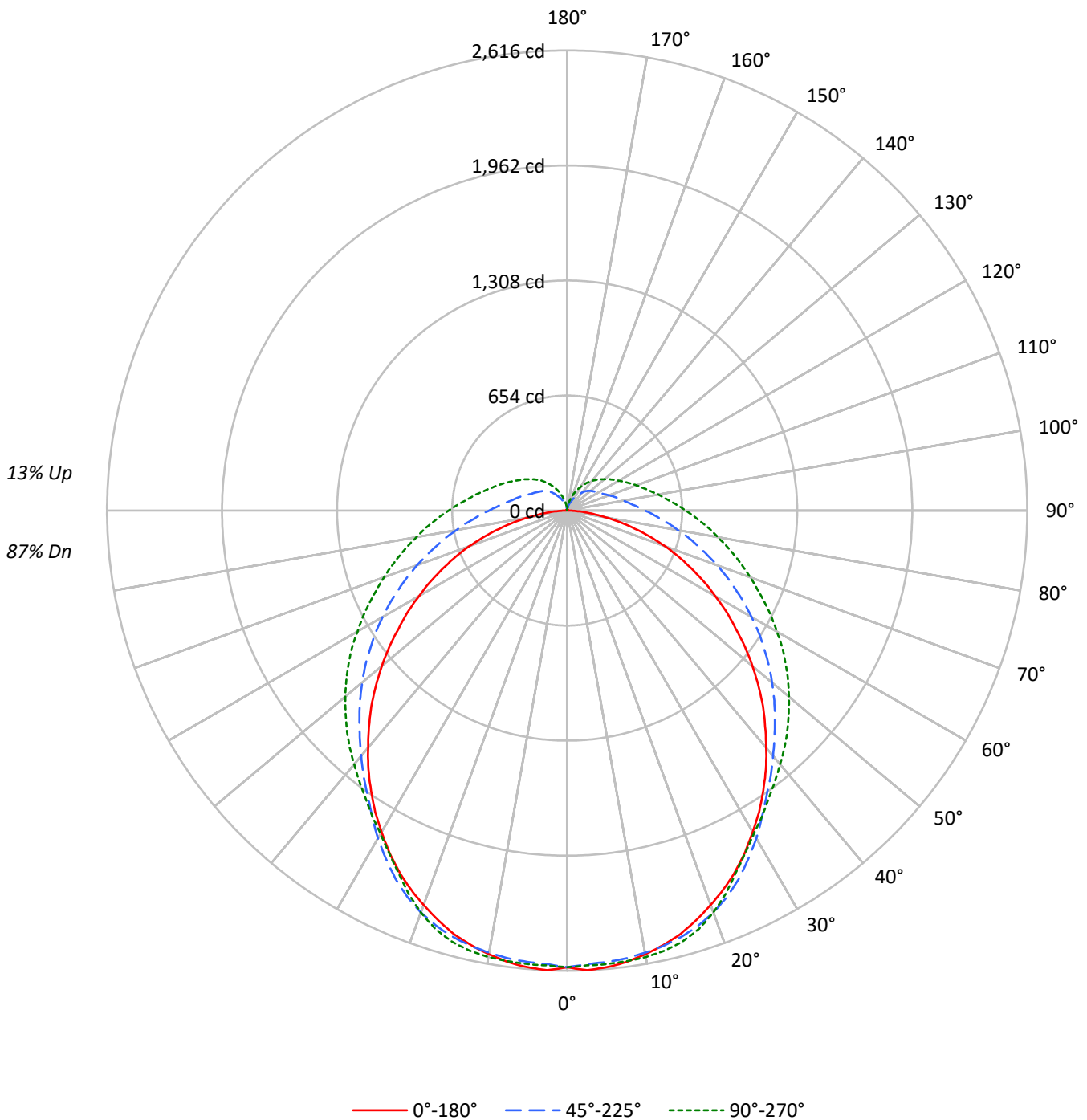
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9373.0 lumens  
Efficiency: N/A  
Efficacy: 145.5 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 (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	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°	27949	27949	27949
5°	28056	26663	26427
10°	27793	25630	25208
15°	27459	24652	23978
20°	26931	23555	22411
25°	26362	22230	20573
30°	25612	20744	19039
35°	24813	19231	17894
40°	23904	18016	16967
45°	23012	16939	16168
50°	21954	15946	15362
55°	20715	14951	14573
60°	19527	13958	13749
65°	18204	12956	12993
70°	16692	12017	12310
75°	14353	11101	11747
80°	11311	10310	11270
85°	7579	9746	10996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	2.6
10°-20°	709.2	7.6
20°-30°	1056.0	11.3
30°-40°	1246.1	13.3
40°-50°	1299.5	13.9
50°-60°	1221.2	13.0
60°-70°	1031.3	11.0
70°-80°	779.2	8.3
80°-90°	537.1	5.7
90°-100°	375.9	4.0
100°-110°	280.5	3.0
110°-120°	211.5	2.3
120°-130°	157.7	1.7
130°-140°	110.7	1.2
140°-150°	66.9	0.7
150°-160°	32.0	0.3
160°-170°	10.3	0.1
170°-180°	1.2	0.0
0°-30°	2011.9	21.5
0°-40°	3257.9	34.8
0°-60°	5778.6	61.7
0°-90°	8126.3	86.7
90°-120°	867.9	9.3
90°-150°	1203.2	12.8
90°-180°	1247.0	13.3
0°-180°	9373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2596	2596	2596	2596	2596	
5°	2606	2601	2576	2595	2588	247
15°	2492	2503	2509	2541	2536	702
25°	2263	2309	2309	2288	2271	1041
35°	1943	2015	1977	1993	1997	1215
45°	1575	1653	1670	1738	1770	1213
55°	1170	1270	1367	1476	1516	1049
65°	779	903	1055	1193	1240	773
75°	399	553	766	926	985	425
85°	91	284	531	706	768	102
90°	2	202	443	613	674	6
95°	2	157	375	537	593	1
105°	3	113	289	420	467	3
115°	3	97	224	334	377	3
125°	5	83	189	273	308	4
135°	5	64	157	222	250	4
145°	6	46	110	170	191	4
155°	6	30	67	108	126	3
165°	8	19	35	48	64	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2596.5	2596.5	2596.5	2596.5	2596.5
2.5°	2615.6	2609.2	2580.6	2596.5	2588.5
5°	2606.0	2601.3	2575.8	2594.9	2588.5
7.5°	2588.5	2587.0	2567.9	2590.1	2583.8
10°	2561.5	2566.3	2552.0	2582.2	2577.4
12.5°	2529.8	2539.3	2534.5	2567.9	2563.1
15°	2491.6	2502.7	2509.1	2540.9	2536.1
17.5°	2440.8	2461.4	2475.7	2501.2	2493.2
20°	2386.7	2415.3	2431.2	2443.9	2431.2
22.5°	2327.9	2366.1	2375.6	2369.3	2356.5
25°	2262.8	2308.9	2308.9	2288.2	2270.7
27.5°	2189.7	2246.9	2231.0	2207.2	2192.9
30°	2110.2	2178.6	2151.6	2124.5	2121.4
32.5°	2030.8	2102.3	2062.6	2056.2	2061.0
35°	1943.4	2014.9	1976.8	1992.7	1997.4
37.5°	1856.0	1927.5	1902.1	1925.9	1940.2
40°	1760.7	1836.9	1821.0	1863.9	1883.0
42.5°	1666.9	1746.4	1744.8	1800.4	1829.0
45°	1574.7	1652.6	1670.1	1738.4	1770.2
47.5°	1474.6	1554.1	1597.0	1676.4	1708.2
50°	1376.1	1461.9	1520.7	1609.7	1646.2
52.5°	1274.4	1365.0	1446.0	1544.5	1582.7
55°	1169.5	1269.6	1366.6	1476.2	1515.9
57.5°	1075.8	1177.5	1291.9	1404.7	1450.8
60°	972.5	1085.3	1210.9	1330.0	1376.1
62.5°	878.7	994.7	1134.6	1260.1	1309.4
65°	778.6	902.6	1055.1	1193.4	1239.5
67.5°	686.5	813.6	980.4	1120.3	1171.1
70°	591.1	726.2	907.3	1055.1	1107.6
72.5°	492.6	635.6	834.2	991.6	1045.6
75°	398.8	553.0	765.9	926.4	985.2
77.5°	311.5	473.5	703.9	869.2	926.4
80°	225.6	402.0	638.8	810.4	869.2
82.5°	149.4	340.1	586.4	758.0	819.9
85°	90.6	284.4	530.7	705.5	767.5
87.5°	41.3	238.4	486.2	659.5	719.8
90°	1.6	201.8	443.3	613.4	673.8
92.5°	1.6	176.4	408.4	573.6	632.4
95°	1.6	157.3	375.0	537.1	592.7
97.5°	1.6	144.6	349.6	502.1	556.2
100°	1.6	131.9	324.2	470.4	526.0
102.5°	3.2	120.8	305.1	441.8	494.2
105°	3.2	112.8	289.2	419.5	467.2
107.5°	3.2	108.1	271.7	397.3	441.8
110°	3.2	103.3	252.7	375.0	419.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	100.1	238.4	355.9	398.8
115°	3.2	96.9	224.1	333.7	376.6
117.5°	3.2	95.3	216.1	316.2	357.5
120°	4.8	90.6	206.6	300.3	340.1
122.5°	4.8	85.8	197.0	287.6	322.6
125°	4.8	82.6	189.1	273.3	308.3
127.5°	4.8	77.9	181.2	260.6	292.4
130°	4.8	73.1	174.8	247.9	278.1
132.5°	4.8	68.3	166.8	235.2	263.8
135°	4.8	63.6	157.3	222.5	249.5
137.5°	4.8	58.8	147.8	209.8	235.2
140°	4.8	54.0	135.1	197.0	220.9
142.5°	4.8	49.3	122.4	184.3	205.0
145°	6.4	46.1	109.6	170.0	190.7
147.5°	6.4	41.3	96.9	155.7	173.2
150°	6.4	38.1	87.4	141.4	157.3
152.5°	6.4	33.4	77.9	125.5	141.4
155°	6.4	30.2	66.7	108.1	125.5
157.5°	6.4	27.0	57.2	90.6	109.6
160°	6.4	25.4	49.3	74.7	93.8
162.5°	7.9	22.2	41.3	60.4	77.9
165°	7.9	19.1	35.0	47.7	63.6
167.5°	7.9	15.9	28.6	36.5	49.3
170°	7.9	12.7	22.2	25.4	38.1
172.5°	7.9	9.5	15.9	17.5	19.1
175°	7.9	7.9	9.5	9.5	4.8
177.5°	7.9	7.9	6.4	4.8	1.6
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)