

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: P#

Luminaire Tested: **4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

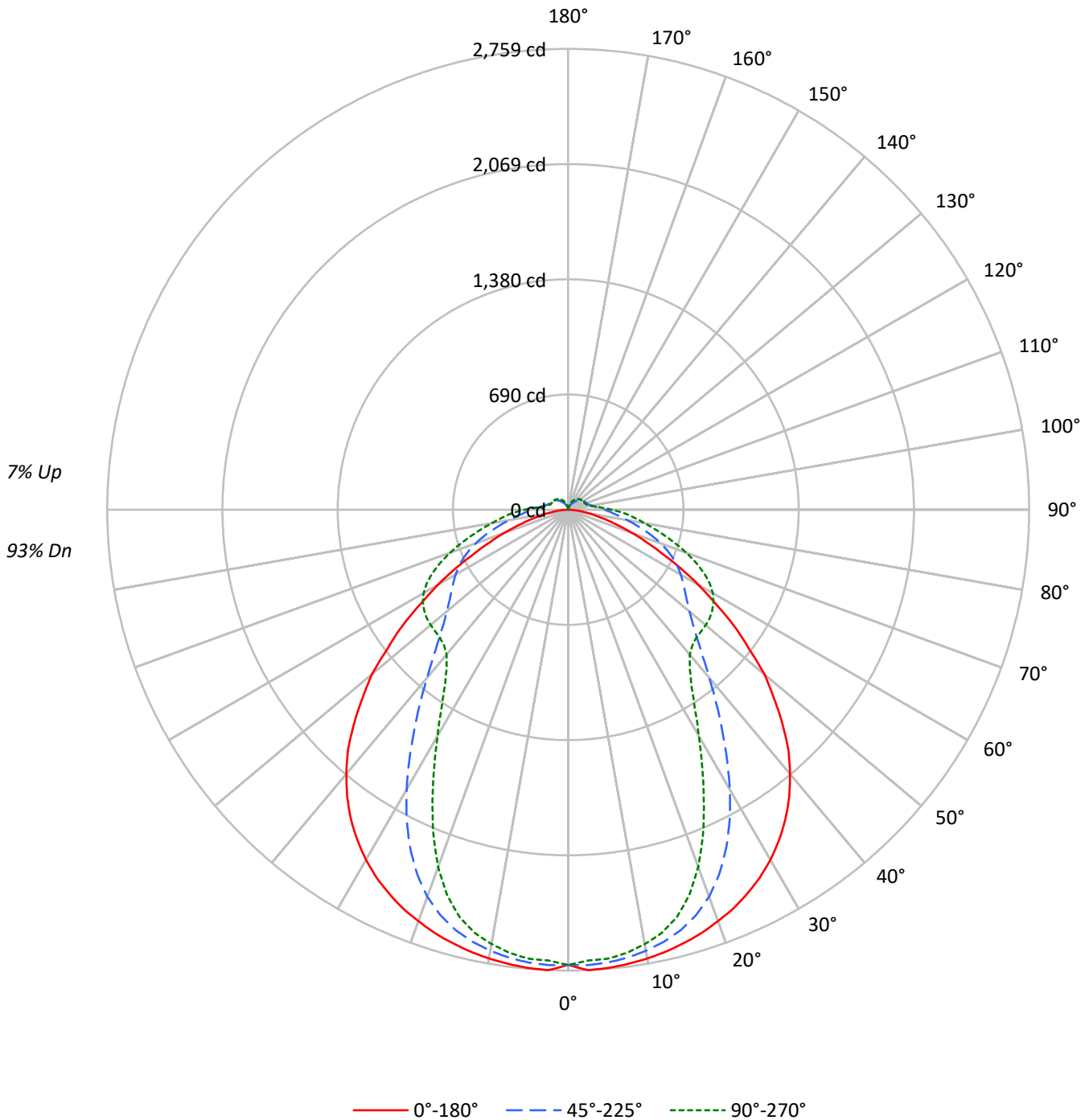
Lumens per Lamp: N/A  
Luminaire Lumens: 6853.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 62  
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: P#  
CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U

**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

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

	0°	45°	90°
0°	22021	22021	22021
5°	22274	21535	21198
10°	22267	20939	20325
15°	22275	20238	19166
20°	22284	19195	17213
25°	22293	17589	14576
30°	22188	15476	11988
35°	21871	13168	10047
40°	21231	11152	9083
45°	20106	9692	9014
50°	18575	8860	9330
55°	16356	8516	9656
60°	13800	8395	9789
65°	11100	8209	9484
70°	8917	7785	8747
75°	6722	7046	7762
80°	4961	6328	6904
85°	3320	5968	6351



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.8	3.8
10°-20°	728.7	10.6
20°-30°	1018.6	14.9
30°-40°	1056.6	15.4
40°-50°	976.1	14.2
50°-60°	871.5	12.7
60°-70°	706.3	10.3
70°-80°	469.8	6.9
80°-90°	269.0	3.9
90°-100°	148.8	2.2
100°-110°	100.8	1.5
110°-120°	83.9	1.2
120°-130°	68.2	1.0
130°-140°	49.2	0.7
140°-150°	29.7	0.4
150°-160°	14.3	0.2
160°-170°	3.7	0.1
170°-180°	0.0	0.0
0°-30°	2005.1	29.3
0°-40°	3061.7	44.7
0°-60°	4909.4	71.6
0°-90°	6354.4	92.7
90°-120°	333.5	4.9
90°-150°	480.6	7.0
90°-180°	499.0	7.3
0°-180°	6853.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2725	2725	2725	2725	2725	
5°	2753	2707	2722	2702	2699	262
15°	2685	2628	2605	2546	2521	759
25°	2537	2424	2237	2003	1921	1169
35°	2266	2017	1604	1346	1286	1413
45°	1814	1438	1092	1053	1085	1395
55°	1213	917	853	991	1053	1078
65°	619	554	694	850	895	626
75°	240	301	468	573	597	264
85°	49	140	276	353	362	56
90°	2	98	218	263	260	4
95°	2	83	173	185	179	2
105°	1	72	124	121	115	1
115°	1	65	110	109	105	1
125°	1	56	97	102	100	1
135°	2	41	77	90	90	2
145°	2	26	53	70	75	2
155°	2	17	33	44	53	1
165°	2	10	17	21	28	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2725.0	2725.0	2725.0	2725.0	2725.0
2.5°	2759.4	2714.4	2728.6	2716.7	2701.3
5°	2753.4	2707.3	2721.5	2702.5	2699.0
7.5°	2742.8	2696.6	2704.9	2682.4	2676.5
10°	2728.6	2680.0	2681.2	2649.2	2640.9
12.5°	2709.6	2656.3	2649.2	2605.4	2593.6
15°	2684.8	2627.9	2605.4	2546.2	2521.3
17.5°	2657.5	2591.2	2545.0	2453.8	2414.7
20°	2620.8	2546.2	2465.7	2327.1	2275.0
22.5°	2584.1	2491.7	2362.6	2177.9	2108.0
25°	2536.7	2424.2	2237.1	2002.6	1920.9
27.5°	2483.4	2344.9	2092.6	1822.6	1735.0
30°	2420.7	2248.9	1933.9	1646.1	1563.2
32.5°	2347.2	2141.2	1766.9	1487.5	1410.5
35°	2265.5	2016.8	1603.5	1346.5	1286.1
37.5°	2172.0	1880.6	1451.9	1232.8	1193.8
40°	2065.4	1732.6	1312.2	1145.2	1132.2
42.5°	1950.5	1588.1	1192.6	1088.4	1100.2
45°	1814.3	1437.7	1091.9	1052.8	1084.8
47.5°	1671.0	1290.9	1010.2	1032.7	1078.9
50°	1532.5	1154.7	946.2	1019.7	1074.1
52.5°	1360.7	1032.7	895.3	1007.8	1067.0
55°	1212.7	916.6	852.7	991.2	1052.8
57.5°	1042.2	812.4	814.8	969.9	1031.5
60°	900.1	717.7	778.1	940.3	999.5
62.5°	755.6	632.4	737.8	901.2	954.5
65°	619.4	554.2	694.0	850.3	895.3
67.5°	505.7	483.2	644.2	788.7	826.6
70°	409.8	418.1	589.8	720.0	752.0
72.5°	315.0	357.7	530.6	646.6	673.9
75°	240.4	300.8	467.8	573.2	596.9
77.5°	177.6	251.1	410.9	506.9	527.0
80°	125.5	207.2	357.7	448.8	464.2
82.5°	84.1	170.5	313.8	396.7	410.9
85°	48.6	139.7	275.9	352.9	362.4
87.5°	20.1	116.1	245.1	307.9	312.6
90°	2.4	98.3	217.9	262.9	260.5
92.5°	2.4	88.8	194.2	220.3	214.4
95°	2.4	82.9	172.9	184.7	178.8
97.5°	2.4	79.3	154.0	158.7	152.8
100°	1.2	77.0	140.9	140.9	135.0
102.5°	1.2	74.6	131.5	127.9	123.2
105°	1.2	72.2	124.3	120.8	114.9
107.5°	1.2	71.1	119.6	116.1	110.1
110°	1.2	68.7	116.1	112.5	107.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	67.5	113.7	111.3	105.4
115°	1.2	65.1	110.1	109.0	105.4
117.5°	1.2	62.8	107.8	107.8	104.2
120°	1.2	60.4	104.2	106.6	103.0
122.5°	1.2	58.0	100.7	104.2	100.7
125°	1.2	55.7	97.1	101.8	99.5
127.5°	2.4	52.1	92.4	99.5	97.1
130°	1.2	48.6	87.6	97.1	95.9
132.5°	2.4	45.0	82.9	93.6	93.6
135°	2.4	41.4	77.0	90.0	90.0
137.5°	2.4	36.7	71.1	85.3	86.5
140°	2.4	33.2	65.1	80.5	82.9
142.5°	2.4	29.6	59.2	75.8	79.3
145°	2.4	26.1	53.3	69.9	74.6
147.5°	2.4	23.7	47.4	62.8	69.9
150°	2.4	20.1	42.6	56.8	64.0
152.5°	2.4	17.8	37.9	50.9	59.2
155°	2.4	16.6	33.2	43.8	53.3
157.5°	2.4	14.2	28.4	37.9	47.4
160°	2.4	11.8	23.7	33.2	40.3
162.5°	2.4	10.7	20.1	27.2	35.5
165°	2.4	9.5	16.6	21.3	28.4
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)