

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-LD5-54HL-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-LD5-54HL-SLN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

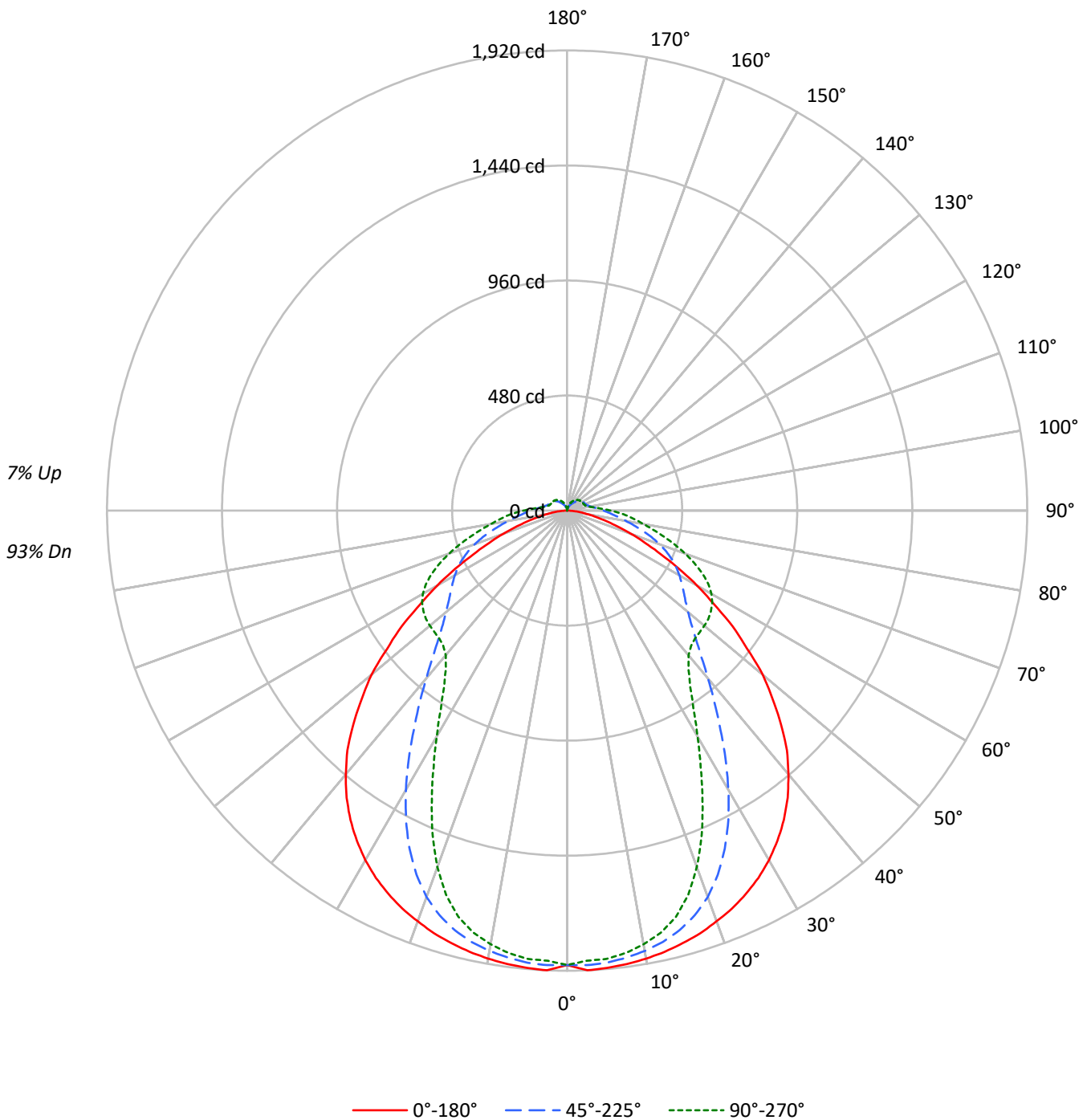
Lumens per Lamp: N/A  
Luminaire Lumens: 4768.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 39  
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-LD5-54HL-SLN-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-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°	15321	15321	15321
5°	15498	14983	14748
10°	15492	14569	14141
15°	15497	14080	13335
20°	15504	13355	11975
25°	15511	12238	10142
30°	15437	10768	8341
35°	15216	9162	6990
40°	14772	7759	6319
45°	13989	6743	6272
50°	12923	6164	6491
55°	11379	5926	6718
60°	9601	5840	6811
65°	7722	5711	6599
70°	6204	5416	6086
75°	4678	4902	5401
80°	3451	4401	4804
85°	2309	4153	4418



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLN-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	3.8
10°-20°	507.0	10.6
20°-30°	708.7	14.9
30°-40°	735.1	15.4
40°-50°	679.1	14.2
50°-60°	606.3	12.7
60°-70°	491.4	10.3
70°-80°	326.8	6.9
80°-90°	187.2	3.9
90°-100°	103.5	2.2
100°-110°	70.1	1.5
110°-120°	58.4	1.2
120°-130°	47.5	1.0
130°-140°	34.2	0.7
140°-150°	20.6	0.4
150°-160°	9.9	0.2
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-30°	1395.1	29.3
0°-40°	2130.2	44.7
0°-60°	3415.7	71.6
0°-90°	4421.1	92.7
90°-120°	232.0	4.9
90°-150°	334.4	7.0
90°-180°	347.0	7.3
0°-180°	4768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1916	1884	1894	1880	1878	182
15°	1868	1828	1813	1772	1754	528
25°	1765	1687	1556	1393	1336	813
35°	1576	1403	1116	937	895	983
45°	1262	1000	760	732	755	971
55°	844	638	593	690	732	750
65°	431	386	483	592	623	436
75°	167	209	326	399	415	183
85°	34	97	192	246	252	39
90°	2	68	152	183	181	3
95°	2	58	120	128	124	1
105°	1	50	86	84	80	1
115°	1	45	77	76	73	1
125°	1	39	68	71	69	1
135°	2	29	54	63	63	1
145°	2	18	37	49	52	1
155°	2	12	23	30	37	1
165°	2	7	12	15	20	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1895.9	1895.9	1895.9	1895.9	1895.9
2.5°	1919.8	1888.5	1898.4	1890.2	1879.5
5°	1915.7	1883.6	1893.5	1880.3	1877.8
7.5°	1908.3	1876.2	1881.9	1866.3	1862.2
10°	1898.4	1864.6	1865.5	1843.2	1837.4
12.5°	1885.2	1848.2	1843.2	1812.7	1804.5
15°	1867.9	1828.4	1812.7	1771.5	1754.2
17.5°	1849.0	1802.8	1770.7	1707.3	1680.1
20°	1823.4	1771.5	1715.5	1619.1	1582.8
22.5°	1797.9	1733.6	1643.8	1515.3	1466.7
25°	1764.9	1686.7	1556.5	1393.3	1336.5
27.5°	1727.9	1631.5	1455.9	1268.1	1207.1
30°	1684.2	1564.7	1345.5	1145.3	1087.6
32.5°	1633.1	1489.7	1229.4	1034.9	981.3
35°	1576.2	1403.2	1115.7	936.9	894.8
37.5°	1511.2	1308.5	1010.2	857.7	830.6
40°	1437.0	1205.5	913.0	796.8	787.7
42.5°	1357.1	1104.9	829.7	757.2	765.5
45°	1262.3	1000.3	759.7	732.5	754.8
47.5°	1162.6	898.1	702.8	718.5	750.6
50°	1066.2	803.4	658.3	709.4	747.3
52.5°	946.7	718.5	622.9	701.2	742.4
55°	843.7	637.8	593.3	689.7	732.5
57.5°	725.1	565.2	566.9	674.8	717.7
60°	626.2	499.3	541.3	654.2	695.4
62.5°	525.7	440.0	513.3	627.0	664.1
65°	430.9	385.6	482.8	591.6	622.9
67.5°	351.8	336.2	448.2	548.8	575.1
70°	285.1	290.9	410.3	501.0	523.2
72.5°	219.2	248.8	369.1	449.9	468.8
75°	167.3	209.3	325.5	398.8	415.3
77.5°	123.6	174.7	285.9	352.7	366.7
80°	87.3	144.2	248.8	312.3	323.0
82.5°	58.5	118.7	218.4	276.0	285.9
85°	33.8	97.2	192.0	245.5	252.1
87.5°	14.0	80.7	170.6	214.2	217.5
90°	1.6	68.4	151.6	182.9	181.3
92.5°	1.6	61.8	135.1	153.3	149.1
95°	1.6	57.7	120.3	128.5	124.4
97.5°	1.6	55.2	107.1	110.4	106.3
100°	0.8	53.6	98.1	98.1	93.9
102.5°	0.8	51.9	91.5	89.0	85.7
105°	0.8	50.3	86.5	84.0	79.9
107.5°	0.8	49.4	83.2	80.7	76.6
110°	0.8	47.8	80.7	78.3	75.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.0	79.1	77.5	73.3
115°	0.8	45.3	76.6	75.8	73.3
117.5°	0.8	43.7	75.0	75.0	72.5
120°	0.8	42.0	72.5	74.2	71.7
122.5°	0.8	40.4	70.0	72.5	70.0
125°	0.8	38.7	67.6	70.9	69.2
127.5°	1.6	36.3	64.3	69.2	67.6
130°	0.8	33.8	61.0	67.6	66.7
132.5°	1.6	31.3	57.7	65.1	65.1
135°	1.6	28.8	53.6	62.6	62.6
137.5°	1.6	25.5	49.4	59.3	60.1
140°	1.6	23.1	45.3	56.0	57.7
142.5°	1.6	20.6	41.2	52.7	55.2
145°	1.6	18.1	37.1	48.6	51.9
147.5°	1.6	16.5	33.0	43.7	48.6
150°	1.6	14.0	29.7	39.6	44.5
152.5°	1.6	12.4	26.4	35.4	41.2
155°	1.6	11.5	23.1	30.5	37.1
157.5°	1.6	9.9	19.8	26.4	33.0
160°	1.6	8.2	16.5	23.1	28.0
162.5°	1.6	7.4	14.0	19.0	24.7
165°	1.6	6.6	11.5	14.8	19.8
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)