

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

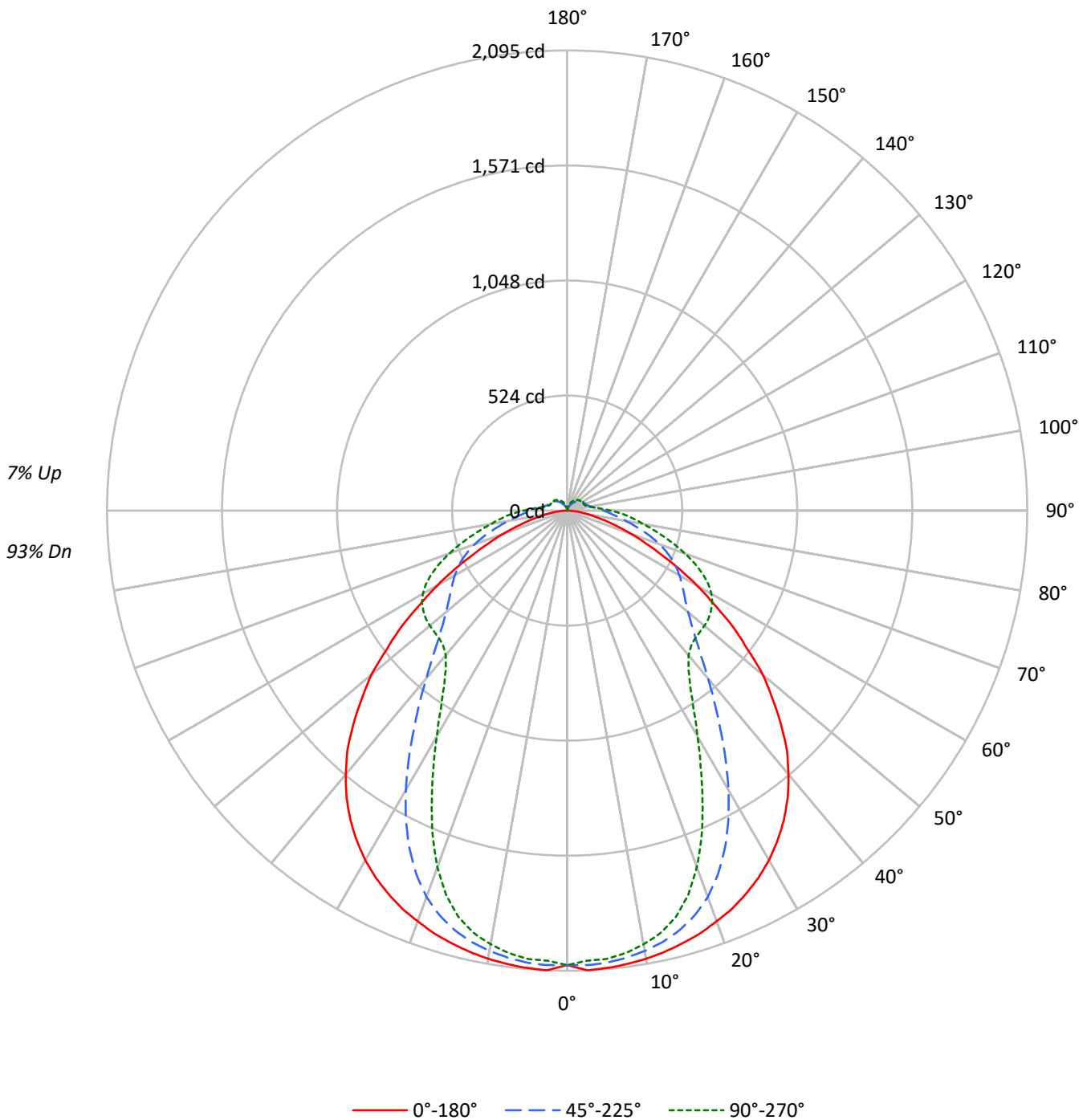
Lumens per Lamp: N/A
Luminaire Lumens: 5203.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



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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	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°	16719	16719	16719
5°	16912	16349	16094
10°	16906	15898	15432
15°	16912	15365	14552
20°	16919	14573	13068
25°	16926	13354	11067
30°	16845	11750	9102
35°	16606	9997	7628
40°	16119	8466	6896
45°	15265	7358	6843
50°	14102	6727	7083
55°	12417	6466	7331
60°	10476	6373	7433
65°	8428	6232	7200
70°	6769	5911	6642
75°	5103	5350	5894
80°	3767	4803	5243
85°	2521	4532	4821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	3.8
10°-20°	553.2	10.6
20°-30°	773.4	14.9
30°-40°	802.2	15.4
40°-50°	741.1	14.2
50°-60°	661.7	12.7
60°-70°	536.2	10.3
70°-80°	356.7	6.9
80°-90°	204.2	3.9
90°-100°	113.0	2.2
100°-110°	76.5	1.5
110°-120°	63.7	1.2
120°-130°	51.8	1.0
130°-140°	37.3	0.7
140°-150°	22.5	0.4
150°-160°	10.8	0.2
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-30°	1522.4	29.3
0°-40°	2324.6	44.7
0°-60°	3727.3	71.6
0°-90°	4824.5	92.7
90°-120°	253.2	4.9
90°-150°	364.9	7.0
90°-180°	379.0	7.3
0°-180°	5203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2069	2069	2069	2069	2069	
5°	2090	2055	2066	2052	2049	199
15°	2038	1995	1978	1933	1914	576
25°	1926	1840	1698	1520	1458	887
35°	1720	1531	1217	1022	976	1073
45°	1378	1092	829	799	824	1059
55°	921	696	647	753	799	819
65°	470	421	527	646	680	475
75°	182	228	355	435	453	200
85°	37	106	210	268	275	42
90°	2	75	165	200	198	3
95°	2	63	131	140	136	1
105°	1	55	94	92	87	1
115°	1	50	84	83	80	1
125°	1	42	74	77	76	1
135°	2	32	58	68	68	1
145°	2	20	40	53	57	1
155°	2	13	25	33	40	1
165°	2	7	13	16	22	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.9	2068.9	2068.9	2068.9	2068.9
2.5°	2095.0	2060.8	2071.6	2062.6	2050.9
5°	2090.5	2055.4	2066.2	2051.8	2049.1
7.5°	2082.4	2047.3	2053.6	2036.6	2032.1
10°	2071.6	2034.8	2035.7	2011.4	2005.1
12.5°	2057.2	2016.8	2011.4	1978.1	1969.1
15°	2038.4	1995.2	1978.1	1933.2	1914.3
17.5°	2017.7	1967.3	1932.3	1863.0	1833.3
20°	1989.8	1933.2	1872.0	1766.8	1727.2
22.5°	1961.9	1891.8	1793.8	1653.5	1600.5
25°	1926.0	1840.5	1698.5	1520.4	1458.4
27.5°	1885.5	1780.3	1588.8	1383.8	1317.2
30°	1837.8	1707.5	1468.3	1249.8	1186.9
32.5°	1782.1	1625.6	1341.5	1129.3	1070.9
35°	1720.1	1531.2	1217.4	1022.3	976.5
37.5°	1649.0	1427.8	1102.3	936.0	906.3
40°	1568.1	1315.4	996.2	869.5	859.6
42.5°	1480.9	1205.7	905.4	826.3	835.3
45°	1377.5	1091.6	829.0	799.3	823.6
47.5°	1268.7	980.1	767.0	784.1	819.1
50°	1163.5	876.7	718.4	774.2	815.5
52.5°	1033.1	784.1	679.7	765.2	810.1
55°	920.7	695.9	647.4	752.6	799.3
57.5°	791.2	616.8	618.6	736.4	783.2
60°	683.3	544.9	590.7	713.9	758.9
62.5°	573.7	480.1	560.2	684.2	724.7
65°	470.3	420.8	526.9	645.6	679.7
67.5°	383.9	366.8	489.1	598.8	627.6
70°	311.1	317.4	447.8	546.7	571.0
72.5°	239.2	271.5	402.8	490.9	511.6
75°	182.5	228.4	355.2	435.2	453.2
77.5°	134.9	190.6	312.0	384.8	400.1
80°	95.3	157.3	271.5	340.8	352.5
82.5°	63.8	129.5	238.3	301.2	312.0
85°	36.9	106.1	209.5	267.9	275.1
87.5°	15.3	88.1	186.1	233.8	237.4
90°	1.8	74.6	165.4	199.6	197.8
92.5°	1.8	67.4	147.5	167.2	162.7
95°	1.8	62.9	131.3	140.3	135.8
97.5°	1.8	60.2	116.9	120.5	116.0
100°	0.9	58.4	107.0	107.0	102.5
102.5°	0.9	56.6	99.8	97.1	93.5
105°	0.9	54.8	94.4	91.7	87.2
107.5°	0.9	53.9	90.8	88.1	83.6
110°	0.9	52.2	88.1	85.4	81.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	51.3	86.3	84.5	80.0
115°	0.9	49.5	83.6	82.7	80.0
117.5°	0.9	47.7	81.8	81.8	79.1
120°	0.9	45.9	79.1	80.9	78.2
122.5°	0.9	44.1	76.4	79.1	76.4
125°	0.9	42.3	73.7	77.3	75.5
127.5°	1.8	39.6	70.1	75.5	73.7
130°	0.9	36.9	66.5	73.7	72.8
132.5°	1.8	34.2	62.9	71.0	71.0
135°	1.8	31.5	58.4	68.3	68.3
137.5°	1.8	27.9	53.9	64.7	65.6
140°	1.8	25.2	49.5	61.1	62.9
142.5°	1.8	22.5	45.0	57.5	60.2
145°	1.8	19.8	40.5	53.0	56.6
147.5°	1.8	18.0	36.0	47.7	53.0
150°	1.8	15.3	32.4	43.2	48.6
152.5°	1.8	13.5	28.8	38.7	45.0
155°	1.8	12.6	25.2	33.3	40.5
157.5°	1.8	10.8	21.6	28.8	36.0
160°	1.8	9.0	18.0	25.2	30.6
162.5°	1.8	8.1	15.3	20.7	27.0
165°	1.8	7.2	12.6	16.2	21.6
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)