

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-LD5-52SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52SL-SLC-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

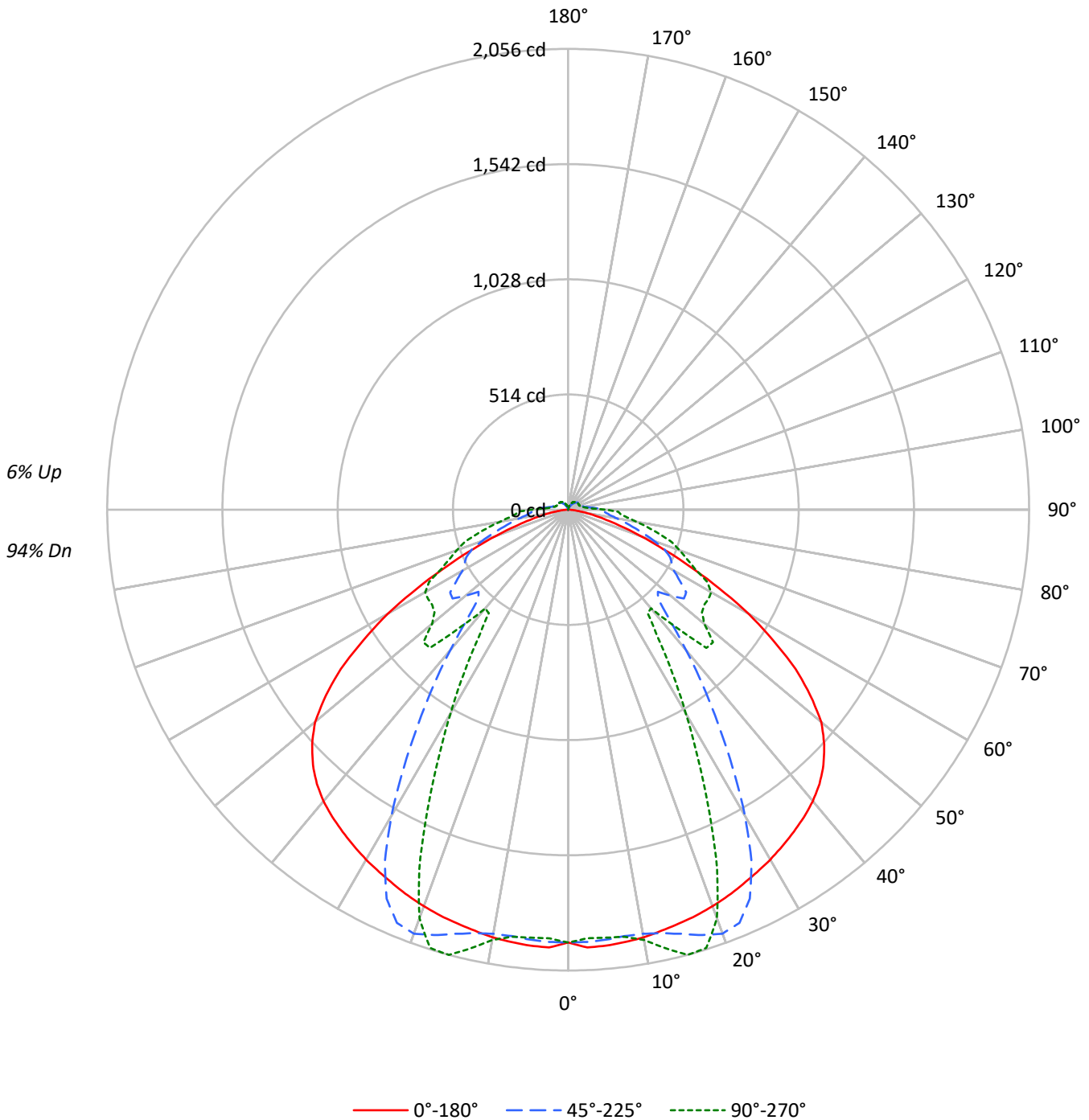
Lumens per Lamp: N/A
Luminaire Lumens: 4960.1 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 41
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15604	15604	15604
5°	15793	15239	15051
10°	15813	15006	14998
15°	15856	15218	15633
20°	16004	15670	14673
25°	16203	15060	11299
30°	16523	12614	8036
35°	16932	9553	5442
40°	17449	6944	4608
45°	17845	5038	7244
50°	17870	5579	6875
55°	16704	6420	6789
60°	14233	5875	7216
65°	10707	5925	6601
70°	7513	5393	6144
75°	4924	4518	5514
80°	3143	3871	4590
85°	1694	3679	4120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	3.7
10°-20°	554.8	11.2
20°-30°	805.9	16.2
30°-40°	770.0	15.5
40°-50°	704.3	14.2
50°-60°	650.3	13.1
60°-70°	516.6	10.4
70°-80°	318.8	6.4
80°-90°	173.6	3.5
90°-100°	87.8	1.8
100°-110°	55.1	1.1
110°-120°	46.7	0.9
120°-130°	38.1	0.8
130°-140°	27.4	0.6
140°-150°	16.9	0.3
150°-160°	8.0	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1544.3	31.1
0°-40°	2314.3	46.7
0°-60°	3668.9	74.0
0°-90°	4677.9	94.3
90°-120°	189.6	3.8
90°-150°	272.0	5.5
90°-180°	282.0	5.7
0°-180°	4960.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1952	1922	1926	1916	1916	186
15°	1911	1886	1959	2032	2056	541
25°	1844	1880	1916	1622	1489	852
35°	1754	1726	1163	801	697	1100
45°	1610	1123	568	724	872	1238
55°	1238	576	643	692	740	1091
65°	598	374	501	609	623	604
75°	176	199	300	398	424	200
85°	25	85	170	232	235	32
90°	1	63	152	180	167	1
95°	0	59	105	93	88	0
105°	0	53	65	59	58	0
115°	0	44	62	56	53	0
125°	1	35	56	54	51	1
135°	1	25	44	49	47	1
145°	1	15	31	39	42	1
155°	2	9	19	25	30	1
165°	2	5	9	12	16	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°	1930.9	1930.9	1930.9	1930.9	1930.9
2.5°	1954.8	1926.6	1930.0	1924.0	1913.8
5°	1952.2	1922.3	1925.8	1915.5	1916.3
7.5°	1945.4	1914.6	1918.9	1917.2	1921.5
10°	1937.7	1905.2	1921.5	1936.0	1948.8
12.5°	1924.0	1895.0	1934.3	1977.0	2003.5
15°	1911.2	1885.6	1959.1	2031.7	2056.5
17.5°	1898.4	1882.2	1989.9	2053.1	2049.7
20°	1882.2	1880.5	2012.9	1991.6	1939.4
22.5°	1864.2	1881.3	1995.0	1838.6	1736.0
25°	1843.7	1879.6	1915.5	1621.5	1489.0
27.5°	1823.2	1871.9	1771.0	1383.8	1253.1
30°	1802.7	1851.4	1576.2	1166.7	1047.9
32.5°	1778.7	1806.9	1364.2	974.4	865.0
35°	1753.9	1725.7	1163.3	800.9	696.6
37.5°	1728.3	1608.6	983.0	648.8	582.1
40°	1697.5	1461.6	817.1	556.4	574.4
42.5°	1659.1	1295.8	671.0	583.8	708.6
45°	1610.3	1123.1	567.6	724.0	871.8
47.5°	1548.8	957.3	541.9	829.1	875.3
50°	1474.4	805.2	595.8	794.9	791.5
52.5°	1361.6	678.7	650.5	724.8	752.2
55°	1238.5	576.1	642.8	691.5	740.2
57.5°	1083.0	506.9	589.8	684.7	741.1
60°	928.3	460.7	544.5	683.8	736.8
62.5°	757.3	418.8	521.4	667.6	699.2
65°	597.5	373.5	500.9	608.6	623.1
67.5°	458.1	327.4	465.0	542.8	571.8
70°	345.3	282.1	408.6	492.3	528.2
72.5°	248.7	239.3	350.4	447.9	485.5
75°	176.1	199.2	300.0	397.5	424.0
77.5°	121.4	162.4	257.3	341.9	363.3
80°	79.5	129.9	218.8	294.0	308.6
82.5°	47.9	104.3	189.8	257.3	265.0
85°	24.8	84.6	170.1	231.6	235.1
87.5°	7.7	70.9	159.0	219.7	223.9
90°	0.9	63.3	152.1	180.4	166.7
92.5°	0.0	59.8	131.6	123.1	110.3
95°	0.0	59.0	105.1	93.2	88.0
97.5°	0.0	57.3	86.3	77.8	75.2
100°	0.0	55.6	74.4	68.4	67.5
102.5°	0.0	54.7	67.5	62.4	61.5
105°	0.0	53.0	65.0	59.0	58.1
107.5°	0.0	50.4	63.3	57.3	55.6
110°	0.0	47.9	63.3	56.4	53.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.3	63.3	55.6	53.0
115°	0.0	43.6	62.4	55.6	53.0
117.5°	0.9	41.9	61.5	55.6	53.0
120°	0.0	40.2	59.8	55.6	52.1
122.5°	0.9	37.6	58.1	54.7	52.1
125°	0.9	35.0	55.6	53.8	51.3
127.5°	0.9	32.5	53.0	52.1	49.6
130°	0.9	29.9	50.4	51.3	48.7
132.5°	0.9	27.4	47.0	49.6	47.9
135°	0.9	24.8	44.4	48.7	47.0
137.5°	0.9	22.2	41.0	46.2	46.2
140°	0.9	19.7	37.6	44.4	45.3
142.5°	0.9	17.9	34.2	42.7	43.6
145°	0.9	15.4	30.8	39.3	41.9
147.5°	0.9	13.7	27.4	35.9	39.3
150°	0.9	12.0	23.9	32.5	35.9
152.5°	0.9	10.3	21.4	28.2	33.3
155°	1.7	9.4	18.8	24.8	29.9
157.5°	1.7	7.7	15.4	21.4	25.6
160°	1.7	6.8	13.7	17.9	23.1
162.5°	1.7	6.0	11.1	15.4	19.7
165°	1.7	5.1	9.4	12.0	16.2
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)