

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-LD5-53SL-SLN-UNV-L930-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-LD5-53SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

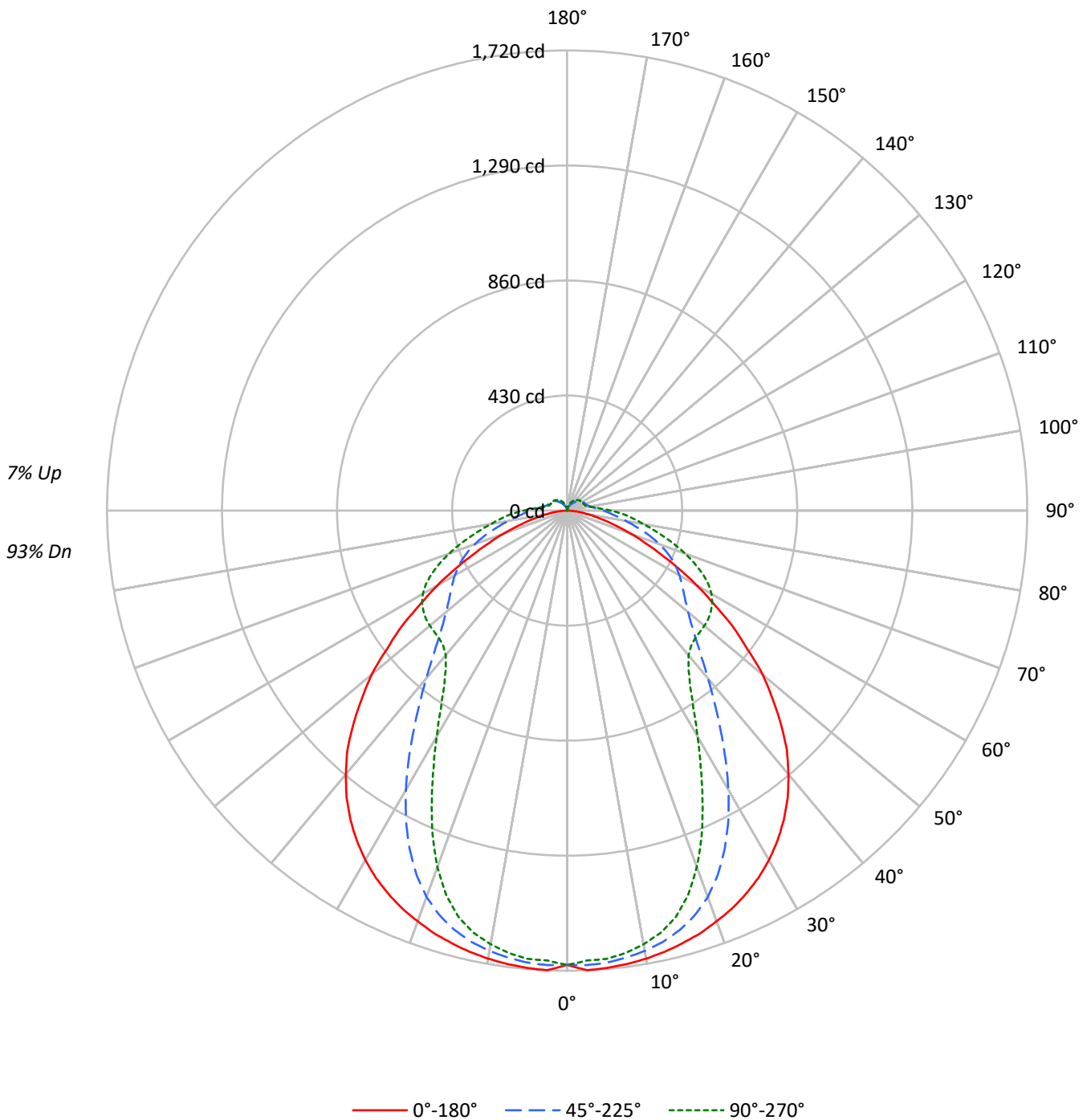
Lumens per Lamp: N/A
Luminaire Lumens: 4271.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L930-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°	13724	13724	13724
5°	13882	13421	13211
10°	13877	13050	12667
15°	13882	12613	11945
20°	13889	11963	10728
25°	13894	10962	9085
30°	13828	9646	7472
35°	13630	8207	6262
40°	13232	6950	5660
45°	12530	6040	5618
50°	11576	5522	5814
55°	10193	5307	6019
60°	8600	5232	6101
65°	6917	5116	5911
70°	5557	4852	5452
75°	4189	4390	4838
80°	3091	3943	4303
85°	2070	3720	3959



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	3.8
10°-20°	454.1	10.6
20°-30°	634.9	14.9
30°-40°	658.5	15.4
40°-50°	608.3	14.2
50°-60°	543.1	12.7
60°-70°	440.2	10.3
70°-80°	292.8	6.9
80°-90°	167.7	3.9
90°-100°	92.8	2.2
100°-110°	62.8	1.5
110°-120°	52.3	1.2
120°-130°	42.5	1.0
130°-140°	30.7	0.7
140°-150°	18.5	0.4
150°-160°	8.9	0.2
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-30°	1249.7	29.3
0°-40°	1908.2	44.7
0°-60°	3059.7	71.6
0°-90°	3960.3	92.7
90°-120°	207.9	4.9
90°-150°	299.5	7.0
90°-180°	311.0	7.3
0°-180°	4271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1716	1687	1696	1684	1682	163
15°	1673	1638	1624	1587	1571	473
25°	1581	1511	1394	1248	1197	729
35°	1412	1257	999	839	802	881
45°	1131	896	680	656	676	869
55°	756	571	531	618	656	672
65°	386	345	432	530	558	390
75°	150	188	292	357	372	164
85°	30	87	172	220	226	35
90°	2	61	136	164	162	2
95°	2	52	108	115	111	1
105°	1	45	78	75	72	1
115°	1	41	69	68	66	1
125°	1	35	60	64	62	1
135°	2	26	48	56	56	1
145°	2	16	33	44	46	1
155°	2	10	21	27	33	1
165°	2	6	10	13	18	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.3	1698.3	1698.3	1698.3	1698.3
2.5°	1719.7	1691.7	1700.5	1693.2	1683.6
5°	1716.0	1687.2	1696.1	1684.3	1682.1
7.5°	1709.4	1680.6	1685.8	1671.7	1668.1
10°	1700.5	1670.3	1671.0	1651.1	1645.9
12.5°	1688.7	1655.5	1651.1	1623.8	1616.4
15°	1673.2	1637.8	1623.8	1586.9	1571.4
17.5°	1656.2	1614.9	1586.1	1529.3	1504.9
20°	1633.4	1586.9	1536.7	1450.3	1417.9
22.5°	1610.5	1552.9	1472.5	1357.3	1313.8
25°	1581.0	1510.8	1394.2	1248.1	1197.2
27.5°	1547.8	1461.4	1304.2	1135.9	1081.3
30°	1508.6	1401.6	1205.3	1025.9	974.3
32.5°	1462.9	1334.4	1101.2	927.0	879.1
35°	1411.9	1256.9	999.4	839.2	801.6
37.5°	1353.6	1172.1	904.9	768.3	744.0
40°	1287.2	1079.8	817.8	713.7	705.6
42.5°	1215.6	989.8	743.2	678.3	685.7
45°	1130.7	896.0	680.5	656.2	676.1
47.5°	1041.4	804.5	629.6	643.6	672.4
50°	955.1	719.6	589.7	635.5	669.4
52.5°	848.1	643.6	558.0	628.1	665.0
55°	755.8	571.3	531.4	617.8	656.2
57.5°	649.5	506.3	507.8	604.5	642.9
60°	560.9	447.3	484.9	586.0	622.9
62.5°	470.9	394.1	459.8	561.7	594.9
65°	386.0	345.4	432.5	529.9	558.0
67.5°	315.2	301.1	401.5	491.6	515.2
70°	255.4	260.5	367.6	448.8	468.7
72.5°	196.3	222.9	330.7	403.0	420.0
75°	149.8	187.5	291.5	357.2	372.0
77.5°	110.7	156.5	256.1	315.9	328.4
80°	78.2	129.2	222.9	279.7	289.3
82.5°	52.4	106.3	195.6	247.3	256.1
85°	30.3	87.1	172.0	219.9	225.9
87.5°	12.5	72.3	152.8	191.9	194.9
90°	1.5	61.3	135.8	163.9	162.4
92.5°	1.5	55.4	121.0	137.3	133.6
95°	1.5	51.7	107.8	115.1	111.4
97.5°	1.5	49.5	96.0	98.9	95.2
100°	0.7	48.0	87.8	87.8	84.1
102.5°	0.7	46.5	81.9	79.7	76.8
105°	0.7	45.0	77.5	75.3	71.6
107.5°	0.7	44.3	74.5	72.3	68.6
110°	0.7	42.8	72.3	70.1	67.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	42.1	70.9	69.4	65.7
115°	0.7	40.6	68.6	67.9	65.7
117.5°	0.7	39.1	67.2	67.2	65.0
120°	0.7	37.6	65.0	66.4	64.2
122.5°	0.7	36.2	62.7	65.0	62.7
125°	0.7	34.7	60.5	63.5	62.0
127.5°	1.5	32.5	57.6	62.0	60.5
130°	0.7	30.3	54.6	60.5	59.8
132.5°	1.5	28.0	51.7	58.3	58.3
135°	1.5	25.8	48.0	56.1	56.1
137.5°	1.5	22.9	44.3	53.1	53.9
140°	1.5	20.7	40.6	50.2	51.7
142.5°	1.5	18.5	36.9	47.2	49.5
145°	1.5	16.2	33.2	43.5	46.5
147.5°	1.5	14.8	29.5	39.1	43.5
150°	1.5	12.5	26.6	35.4	39.9
152.5°	1.5	11.1	23.6	31.7	36.9
155°	1.5	10.3	20.7	27.3	33.2
157.5°	1.5	8.9	17.7	23.6	29.5
160°	1.5	7.4	14.8	20.7	25.1
162.5°	1.5	6.6	12.5	17.0	22.1
165°	1.5	5.9	10.3	13.3	17.7
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)