

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-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-LD5-53SL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

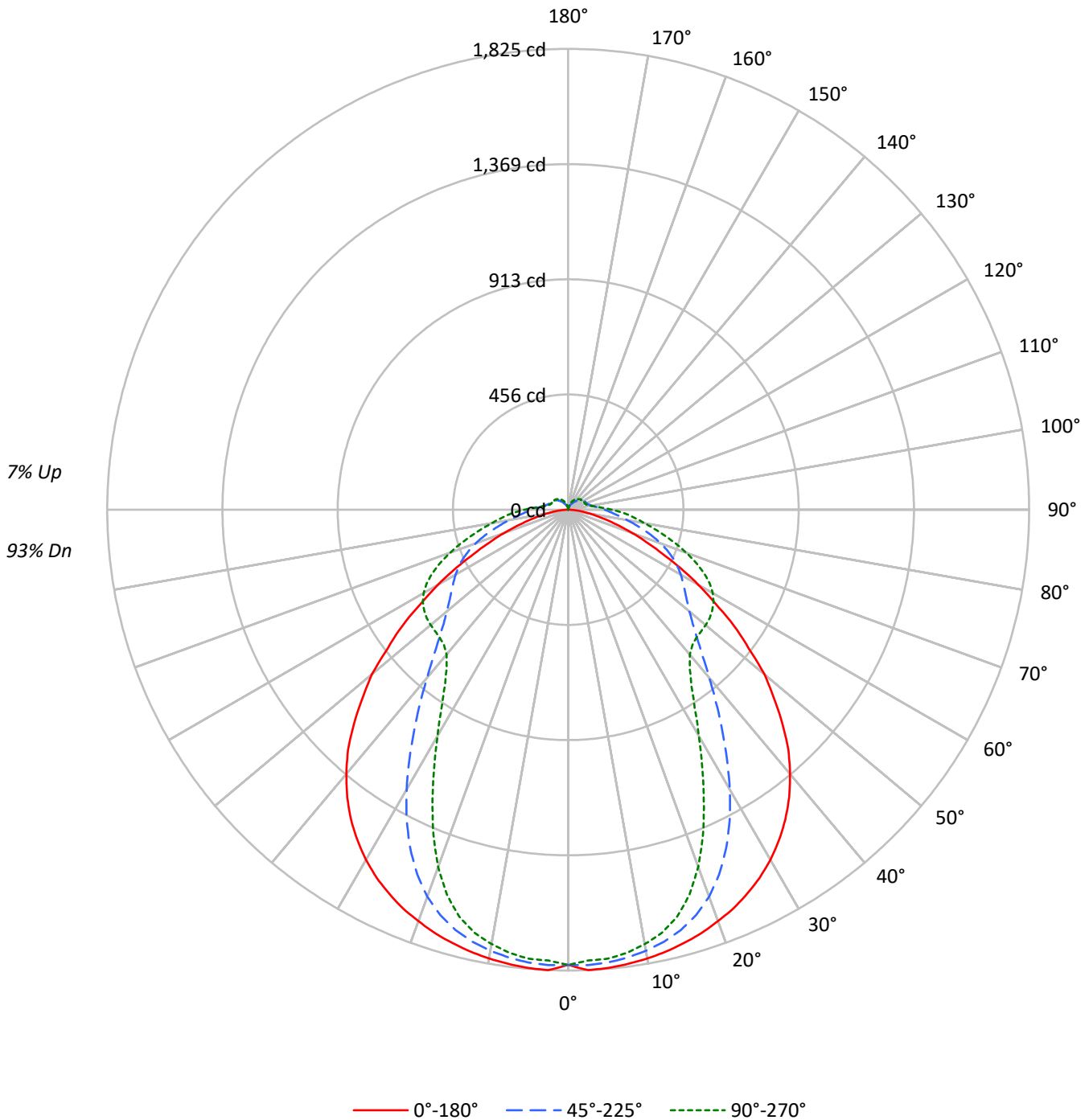
Lumens per Lamp: N/A
Luminaire Lumens: 4533.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



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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°	14566	14566	14566
5°	14734	14245	14022
10°	14729	13851	13445
15°	14734	13387	12678
20°	14741	12696	11385
25°	14746	11635	9642
30°	14676	10237	7930
35°	14467	8710	6646
40°	14044	7377	6008
45°	13299	6411	5963
50°	12286	5861	6171
55°	10819	5633	6387
60°	9129	5553	6476
65°	7342	5429	6274
70°	5897	5149	5785
75°	4446	4660	5134
80°	3281	4186	4568
85°	2193	3948	4201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.8
10°-20°	482.0	10.6
20°-30°	673.8	14.9
30°-40°	698.9	15.4
40°-50°	645.7	14.2
50°-60°	576.5	12.7
60°-70°	467.2	10.3
70°-80°	310.7	6.9
80°-90°	177.9	3.9
90°-100°	98.4	2.2
100°-110°	66.7	1.5
110°-120°	55.5	1.2
120°-130°	45.1	1.0
130°-140°	32.5	0.7
140°-150°	19.6	0.4
150°-160°	9.4	0.2
160°-170°	2.4	0.1
170°-180°	0.0	0.0
0°-30°	1326.3	29.3
0°-40°	2025.2	44.7
0°-60°	3247.4	71.6
0°-90°	4203.2	92.7
90°-120°	220.6	4.9
90°-150°	317.9	7.0
90°-180°	330.0	7.3
0°-180°	4533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1821	1791	1800	1788	1785	173
15°	1776	1738	1723	1684	1668	502
25°	1678	1604	1480	1325	1271	773
35°	1499	1334	1061	891	851	935
45°	1200	951	722	696	718	923
55°	802	606	564	656	696	713
65°	410	367	459	562	592	414
75°	159	199	309	379	395	174
85°	32	92	182	233	240	37
90°	2	65	144	174	172	2
95°	2	55	114	122	118	1
105°	1	48	82	80	76	1
115°	1	43	73	72	70	1
125°	1	37	64	67	66	1
135°	2	27	51	60	60	1
145°	2	17	35	46	49	1
155°	2	11	22	29	35	1
165°	2	6	11	14	19	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°	1802.5	1802.5	1802.5	1802.5	1802.5
2.5°	1825.2	1795.5	1804.9	1797.0	1786.8
5°	1821.3	1790.8	1800.2	1787.6	1785.3
7.5°	1814.3	1783.7	1789.2	1774.3	1770.4
10°	1804.9	1772.7	1773.5	1752.4	1746.9
12.5°	1792.3	1757.1	1752.4	1723.4	1715.5
15°	1775.9	1738.3	1723.4	1684.2	1667.8
17.5°	1757.9	1714.0	1683.4	1623.1	1597.3
20°	1733.6	1684.2	1630.9	1539.3	1504.8
22.5°	1709.3	1648.2	1562.8	1440.6	1394.4
25°	1677.9	1603.5	1479.8	1324.7	1270.6
27.5°	1642.7	1551.0	1384.2	1205.6	1147.6
30°	1601.2	1487.6	1279.2	1088.9	1034.0
32.5°	1552.6	1416.3	1168.8	983.9	933.0
35°	1498.6	1334.1	1060.7	890.7	850.7
37.5°	1436.7	1244.0	960.4	815.5	789.6
40°	1366.2	1146.0	868.0	757.5	748.9
42.5°	1290.2	1050.5	788.8	719.9	727.7
45°	1200.1	951.0	722.3	696.4	717.6
47.5°	1105.3	853.9	668.2	683.1	713.6
50°	1013.7	763.8	625.9	674.5	710.5
52.5°	900.1	683.1	592.2	666.6	705.8
55°	802.2	606.3	564.0	655.7	696.4
57.5°	689.4	537.4	538.9	641.6	682.3
60°	595.4	474.7	514.7	622.0	661.2
62.5°	499.8	418.3	488.0	596.1	631.4
65°	409.7	366.6	459.0	562.4	592.2
67.5°	334.5	319.6	426.1	521.7	546.8
70°	271.0	276.5	390.1	476.3	497.4
72.5°	208.4	236.6	350.9	427.7	445.7
75°	159.0	199.0	309.4	379.1	394.8
77.5°	117.5	166.1	271.8	335.3	348.6
80°	83.0	137.1	236.6	296.9	307.1
82.5°	55.6	112.8	207.6	262.4	271.8
85°	32.1	92.4	182.5	233.4	239.7
87.5°	13.3	76.8	162.2	203.7	206.8
90°	1.6	65.0	144.1	173.9	172.3
92.5°	1.6	58.8	128.5	145.7	141.8
95°	1.6	54.8	114.4	122.2	118.3
97.5°	1.6	52.5	101.8	105.0	101.1
100°	0.8	50.9	93.2	93.2	89.3
102.5°	0.8	49.4	87.0	84.6	81.5
105°	0.8	47.8	82.3	79.9	76.0
107.5°	0.8	47.0	79.1	76.8	72.9
110°	0.8	45.4	76.8	74.4	71.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	44.7	75.2	73.6	69.7
115°	0.8	43.1	72.9	72.1	69.7
117.5°	0.8	41.5	71.3	71.3	68.9
120°	0.8	40.0	68.9	70.5	68.2
122.5°	0.8	38.4	66.6	68.9	66.6
125°	0.8	36.8	64.2	67.4	65.8
127.5°	1.6	34.5	61.1	65.8	64.2
130°	0.8	32.1	58.0	64.2	63.5
132.5°	1.6	29.8	54.8	61.9	61.9
135°	1.6	27.4	50.9	59.5	59.5
137.5°	1.6	24.3	47.0	56.4	57.2
140°	1.6	21.9	43.1	53.3	54.8
142.5°	1.6	19.6	39.2	50.1	52.5
145°	1.6	17.2	35.3	46.2	49.4
147.5°	1.6	15.7	31.3	41.5	46.2
150°	1.6	13.3	28.2	37.6	42.3
152.5°	1.6	11.8	25.1	33.7	39.2
155°	1.6	11.0	21.9	29.0	35.3
157.5°	1.6	9.4	18.8	25.1	31.3
160°	1.6	7.8	15.7	21.9	26.6
162.5°	1.6	7.1	13.3	18.0	23.5
165°	1.6	6.3	11.0	14.1	18.8
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)