

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-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-LD5-53SL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

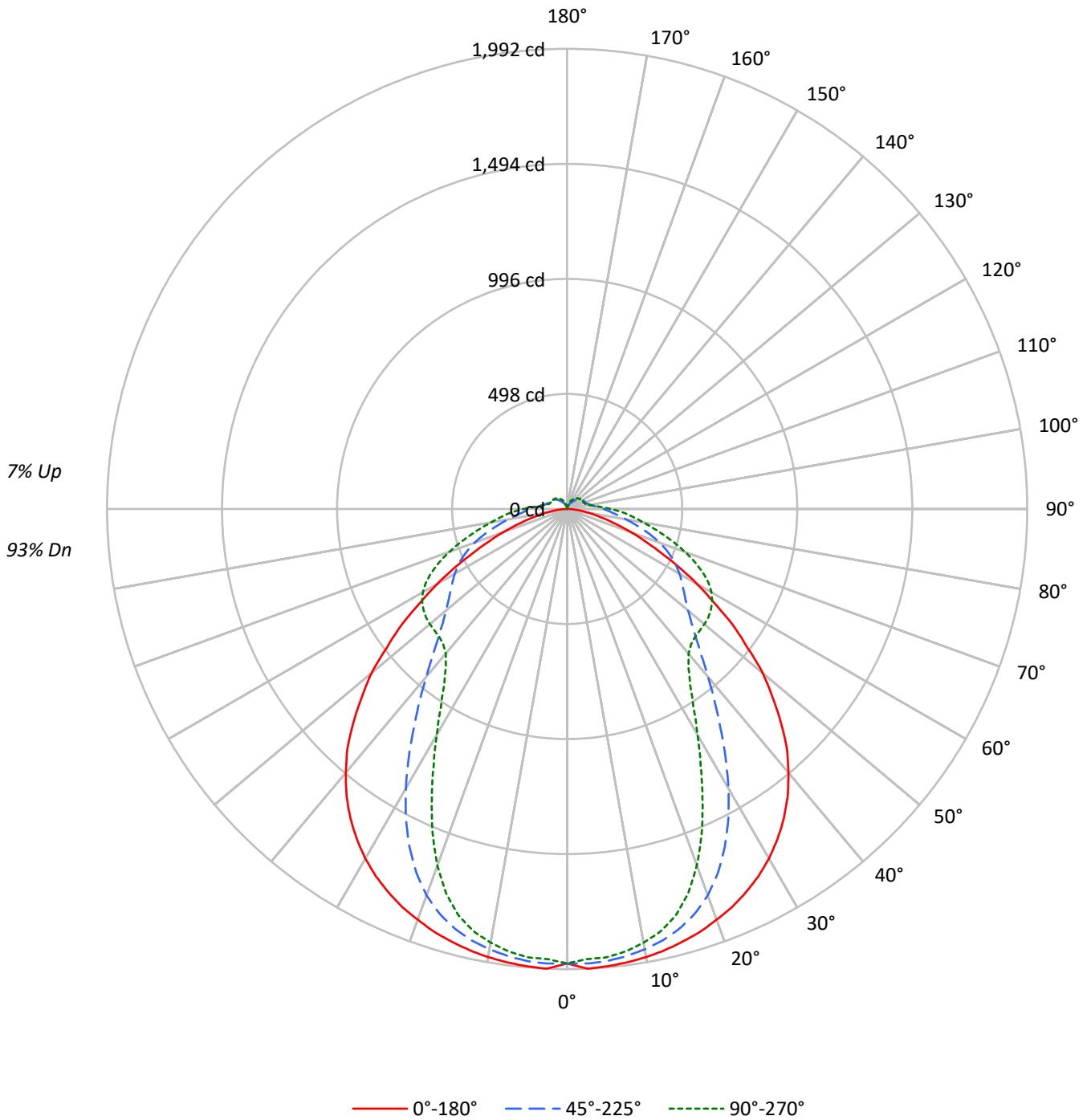
Lumens per Lamp: N/A
Luminaire Lumens: 4947.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	15896	15896	15896
5°	16079	15546	15302
10°	16074	15116	14672
15°	16080	14609	13836
20°	16087	13856	12426
25°	16093	12697	10522
30°	16016	11173	8655
35°	15788	9505	7253
40°	15326	8050	6557
45°	14514	6996	6507
50°	13408	6396	6735
55°	11806	6147	6971
60°	9961	6060	7066
65°	8012	5926	6847
70°	6436	5619	6315
75°	4851	5086	5604
80°	3581	4568	4984
85°	2398	4309	4585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.8
10°-20°	526.0	10.6
20°-30°	735.3	14.9
30°-40°	762.7	15.4
40°-50°	704.6	14.2
50°-60°	629.1	12.7
60°-70°	509.8	10.3
70°-80°	339.1	6.9
80°-90°	194.2	3.9
90°-100°	107.4	2.2
100°-110°	72.8	1.5
110°-120°	60.6	1.2
120°-130°	49.3	1.0
130°-140°	35.5	0.7
140°-150°	21.4	0.4
150°-160°	10.3	0.2
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-30°	1447.5	29.3
0°-40°	2210.2	44.7
0°-60°	3544.0	71.6
0°-90°	4587.1	92.7
90°-120°	240.8	4.9
90°-150°	347.0	7.0
90°-180°	360.0	7.3
0°-180°	4947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1988	1954	1965	1951	1948	189
15°	1938	1897	1881	1838	1820	548
25°	1831	1750	1615	1446	1387	844
35°	1635	1456	1158	972	928	1020
45°	1310	1038	788	760	783	1007
55°	875	662	616	716	760	778
65°	447	400	501	614	646	452
75°	174	217	338	414	431	190
85°	35	101	199	255	262	40
90°	2	71	157	190	188	3
95°	2	60	125	133	129	1
105°	1	52	90	87	83	1
115°	1	47	80	79	76	1
125°	1	40	70	74	72	1
135°	2	30	56	65	65	1
145°	2	19	38	50	54	1
155°	2	12	24	32	38	1
165°	2	7	12	15	20	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.1	1967.1	1967.1	1967.1	1967.1
2.5°	1991.9	1959.4	1969.7	1961.1	1950.0
5°	1987.6	1954.3	1964.6	1950.9	1948.3
7.5°	1979.9	1946.6	1952.6	1936.3	1932.1
10°	1969.7	1934.6	1935.5	1912.4	1906.4
12.5°	1956.0	1917.5	1912.4	1880.8	1872.2
15°	1938.1	1897.0	1880.8	1838.0	1820.1
17.5°	1918.4	1870.5	1837.2	1771.4	1743.1
20°	1891.9	1838.0	1779.9	1679.9	1642.3
22.5°	1865.4	1798.7	1705.5	1572.2	1521.7
25°	1831.2	1750.0	1614.9	1445.6	1386.6
27.5°	1792.7	1692.7	1510.6	1315.7	1252.4
30°	1747.4	1623.5	1396.1	1188.3	1128.5
32.5°	1694.4	1545.7	1275.5	1073.8	1018.2
35°	1635.4	1455.9	1157.5	972.0	928.4
37.5°	1567.9	1357.6	1048.1	890.0	861.7
40°	1490.9	1250.7	947.2	826.7	817.3
42.5°	1408.0	1146.4	860.9	785.7	794.2
45°	1309.7	1037.8	788.2	760.0	783.1
47.5°	1206.3	931.8	729.2	745.5	778.8
50°	1106.2	833.5	683.1	736.1	775.4
52.5°	982.3	745.5	646.3	727.5	770.3
55°	875.4	661.7	615.5	715.6	760.0
57.5°	752.3	586.5	588.2	700.2	744.6
60°	649.7	518.1	561.7	678.8	721.5
62.5°	545.4	456.5	532.6	650.6	689.0
65°	447.1	400.1	501.0	613.8	646.3
67.5°	365.0	348.8	465.1	569.4	596.7
70°	295.8	301.8	425.7	519.8	542.9
72.5°	227.4	258.2	383.0	466.8	486.4
75°	173.5	217.1	337.7	413.8	430.9
77.5°	128.2	181.2	296.7	365.9	380.4
80°	90.6	149.6	258.2	324.0	335.1
82.5°	60.7	123.1	226.5	286.4	296.7
85°	35.1	100.9	199.2	254.8	261.6
87.5°	14.5	83.8	177.0	222.3	225.7
90°	1.7	71.0	157.3	189.8	188.1
92.5°	1.7	64.1	140.2	159.0	154.7
95°	1.7	59.8	124.8	133.4	129.1
97.5°	1.7	57.3	111.1	114.6	110.3
100°	0.9	55.6	101.7	101.7	97.5
102.5°	0.9	53.9	94.9	92.3	88.9
105°	0.9	52.1	89.8	87.2	82.9
107.5°	0.9	51.3	86.3	83.8	79.5
110°	0.9	49.6	83.8	81.2	77.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	48.7	82.1	80.4	76.1
115°	0.9	47.0	79.5	78.7	76.1
117.5°	0.9	45.3	77.8	77.8	75.2
120°	0.9	43.6	75.2	76.9	74.4
122.5°	0.9	41.9	72.7	75.2	72.7
125°	0.9	40.2	70.1	73.5	71.8
127.5°	1.7	37.6	66.7	71.8	70.1
130°	0.9	35.1	63.3	70.1	69.2
132.5°	1.7	32.5	59.8	67.5	67.5
135°	1.7	29.9	55.6	65.0	65.0
137.5°	1.7	26.5	51.3	61.6	62.4
140°	1.7	23.9	47.0	58.1	59.8
142.5°	1.7	21.4	42.7	54.7	57.3
145°	1.7	18.8	38.5	50.4	53.9
147.5°	1.7	17.1	34.2	45.3	50.4
150°	1.7	14.5	30.8	41.0	46.2
152.5°	1.7	12.8	27.4	36.8	42.7
155°	1.7	12.0	23.9	31.6	38.5
157.5°	1.7	10.3	20.5	27.4	34.2
160°	1.7	8.5	17.1	23.9	29.1
162.5°	1.7	7.7	14.5	19.7	25.6
165°	1.7	6.8	12.0	15.4	20.5
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)