

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-L830-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-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

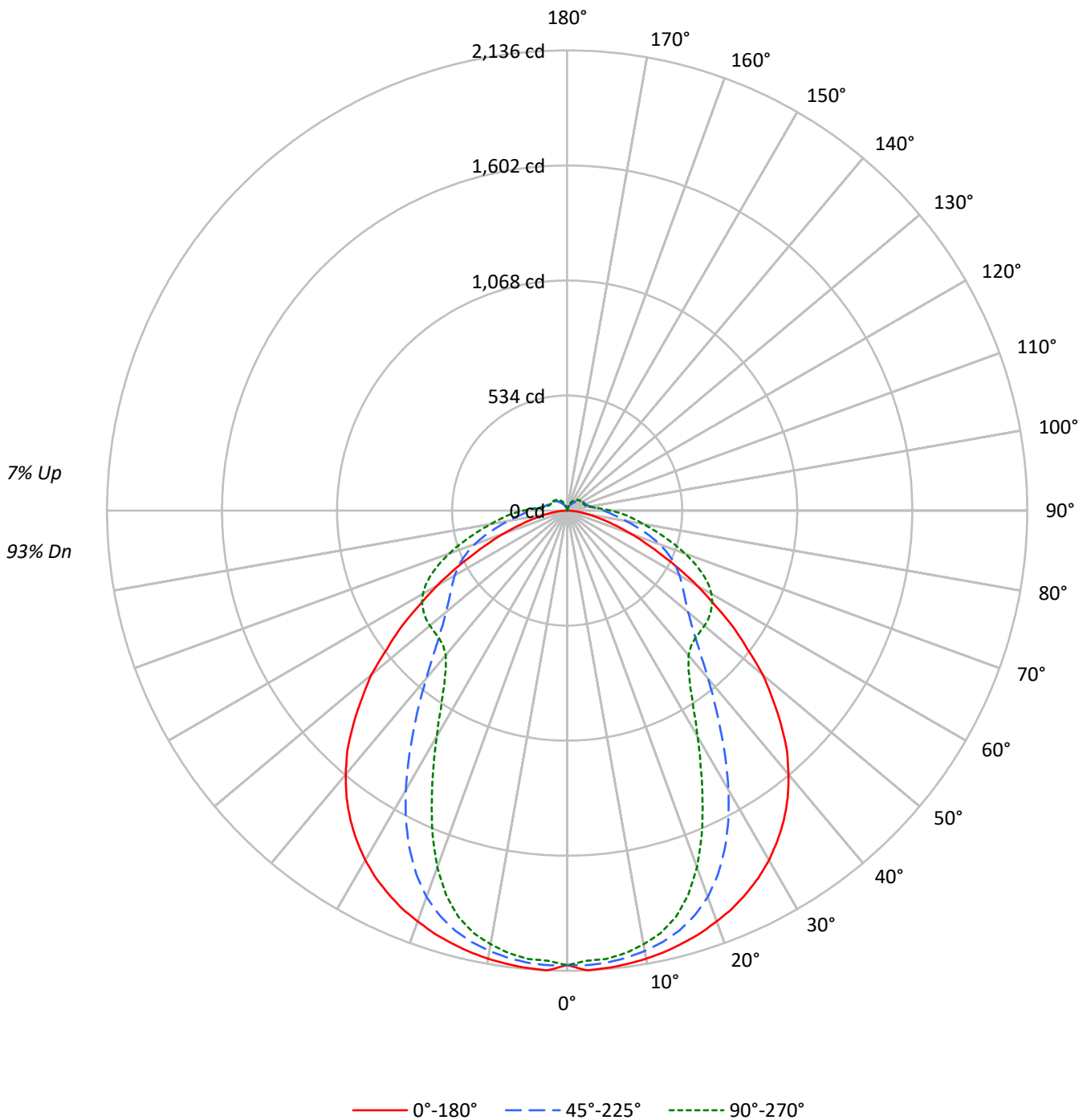
Lumens per Lamp: N/A  
Luminaire Lumens: 5305.0 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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°	17047	17047	17047
5°	17243	16670	16409
10°	17237	16210	15734
15°	17243	15667	14837
20°	17251	14859	13324
25°	17258	13616	11284
30°	17176	11981	9280
35°	16931	10193	7777
40°	16435	8633	7031
45°	15565	7503	6978
50°	14378	6859	7222
55°	12662	6593	7475
60°	10682	6498	7579
65°	8593	6354	7342
70°	6902	6026	6771
75°	5204	5454	6009
80°	3842	4898	5345
85°	2569	4620	4916



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.6	3.8
10°-20°	564.1	10.6
20°-30°	788.5	14.9
30°-40°	817.9	15.4
40°-50°	755.6	14.2
50°-60°	674.6	12.7
60°-70°	546.7	10.3
70°-80°	363.7	6.9
80°-90°	208.2	3.9
90°-100°	115.2	2.2
100°-110°	78.0	1.5
110°-120°	65.0	1.2
120°-130°	52.8	1.0
130°-140°	38.1	0.7
140°-150°	23.0	0.4
150°-160°	11.0	0.2
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-30°	1552.2	29.3
0°-40°	2370.1	44.7
0°-60°	3800.4	71.6
0°-90°	4919.1	92.7
90°-120°	258.2	4.9
90°-150°	372.0	7.0
90°-180°	386.0	7.3
0°-180°	5305.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2132	2096	2107	2092	2089	203
15°	2078	2034	2017	1971	1952	587
25°	1964	1877	1732	1550	1487	905
35°	1754	1561	1241	1042	996	1094
45°	1404	1113	845	815	840	1080
55°	939	710	660	767	815	835
65°	480	429	537	658	693	485
75°	186	233	362	444	462	204
85°	38	108	214	273	280	43
90°	2	76	169	204	202	3
95°	2	64	134	143	138	1
105°	1	56	96	94	89	1
115°	1	50	85	84	82	1
125°	1	43	75	79	77	1
135°	2	32	60	70	70	1
145°	2	20	41	54	58	1
155°	2	13	26	34	41	1
165°	2	7	13	16	22	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-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2109.5	2109.5	2109.5	2109.5	2109.5
2.5°	2136.1	2101.2	2112.2	2103.1	2091.1
5°	2131.5	2095.7	2106.7	2092.1	2089.3
7.5°	2123.2	2087.5	2093.9	2076.5	2071.9
10°	2112.2	2074.6	2075.6	2050.8	2044.4
12.5°	2097.6	2056.3	2050.8	2016.9	2007.7
15°	2078.3	2034.3	2016.9	1971.0	1951.8
17.5°	2057.2	2005.9	1970.1	1899.5	1869.3
20°	2028.8	1971.0	1908.7	1801.4	1761.1
22.5°	2000.4	1928.9	1828.9	1685.9	1631.8
25°	1963.7	1876.6	1731.8	1550.3	1487.0
27.5°	1922.5	1815.2	1619.9	1410.9	1343.1
30°	1873.9	1740.9	1497.1	1274.3	1210.1
32.5°	1817.0	1657.5	1367.8	1151.5	1091.9
35°	1753.8	1561.3	1241.3	1042.4	995.6
37.5°	1681.4	1455.8	1124.0	954.4	924.1
40°	1598.8	1341.2	1015.8	886.5	876.4
42.5°	1509.9	1229.4	923.2	842.5	851.7
45°	1404.5	1113.0	845.3	815.0	839.8
47.5°	1293.6	999.3	782.0	799.4	835.2
50°	1186.3	893.8	732.5	789.3	831.5
52.5°	1053.4	799.4	693.1	780.2	826.0
55°	938.8	709.6	660.1	767.3	815.0
57.5°	806.8	628.9	630.7	750.8	798.5
60°	696.7	555.6	602.3	727.9	773.8
62.5°	584.9	489.6	571.1	697.7	738.9
65°	479.5	429.0	537.2	658.2	693.1
67.5°	391.5	374.0	498.7	610.6	639.9
70°	317.2	323.6	456.5	557.4	582.1
72.5°	243.9	276.9	410.7	500.6	521.6
75°	186.1	232.9	362.1	443.7	462.1
77.5°	137.5	194.4	318.1	392.4	408.0
80°	97.2	160.4	276.9	347.5	359.4
82.5°	65.1	132.0	242.9	307.1	318.1
85°	37.6	108.2	213.6	273.2	280.5
87.5°	15.6	89.8	189.8	238.4	242.0
90°	1.8	76.1	168.7	203.5	201.7
92.5°	1.8	68.8	150.3	170.5	165.9
95°	1.8	64.2	133.8	143.0	138.4
97.5°	1.8	61.4	119.2	122.8	118.3
100°	0.9	59.6	109.1	109.1	104.5
102.5°	0.9	57.8	101.8	99.0	95.3
105°	0.9	55.9	96.3	93.5	88.9
107.5°	0.9	55.0	92.6	89.8	85.3
110°	0.9	53.2	89.8	87.1	83.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	52.3	88.0	86.2	81.6
115°	0.9	50.4	85.3	84.3	81.6
117.5°	0.9	48.6	83.4	83.4	80.7
120°	0.9	46.8	80.7	82.5	79.8
122.5°	0.9	44.9	77.9	80.7	77.9
125°	0.9	43.1	75.2	78.8	77.0
127.5°	1.8	40.3	71.5	77.0	75.2
130°	0.9	37.6	67.8	75.2	74.3
132.5°	1.8	34.8	64.2	72.4	72.4
135°	1.8	32.1	59.6	69.7	69.7
137.5°	1.8	28.4	55.0	66.0	66.9
140°	1.8	25.7	50.4	62.3	64.2
142.5°	1.8	22.9	45.8	58.7	61.4
145°	1.8	20.2	41.3	54.1	57.8
147.5°	1.8	18.3	36.7	48.6	54.1
150°	1.8	15.6	33.0	44.0	49.5
152.5°	1.8	13.8	29.3	39.4	45.8
155°	1.8	12.8	25.7	33.9	41.3
157.5°	1.8	11.0	22.0	29.3	36.7
160°	1.8	9.2	18.3	25.7	31.2
162.5°	1.8	8.3	15.6	21.1	27.5
165°	1.8	7.3	12.8	16.5	22.0
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)