

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-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 (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-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

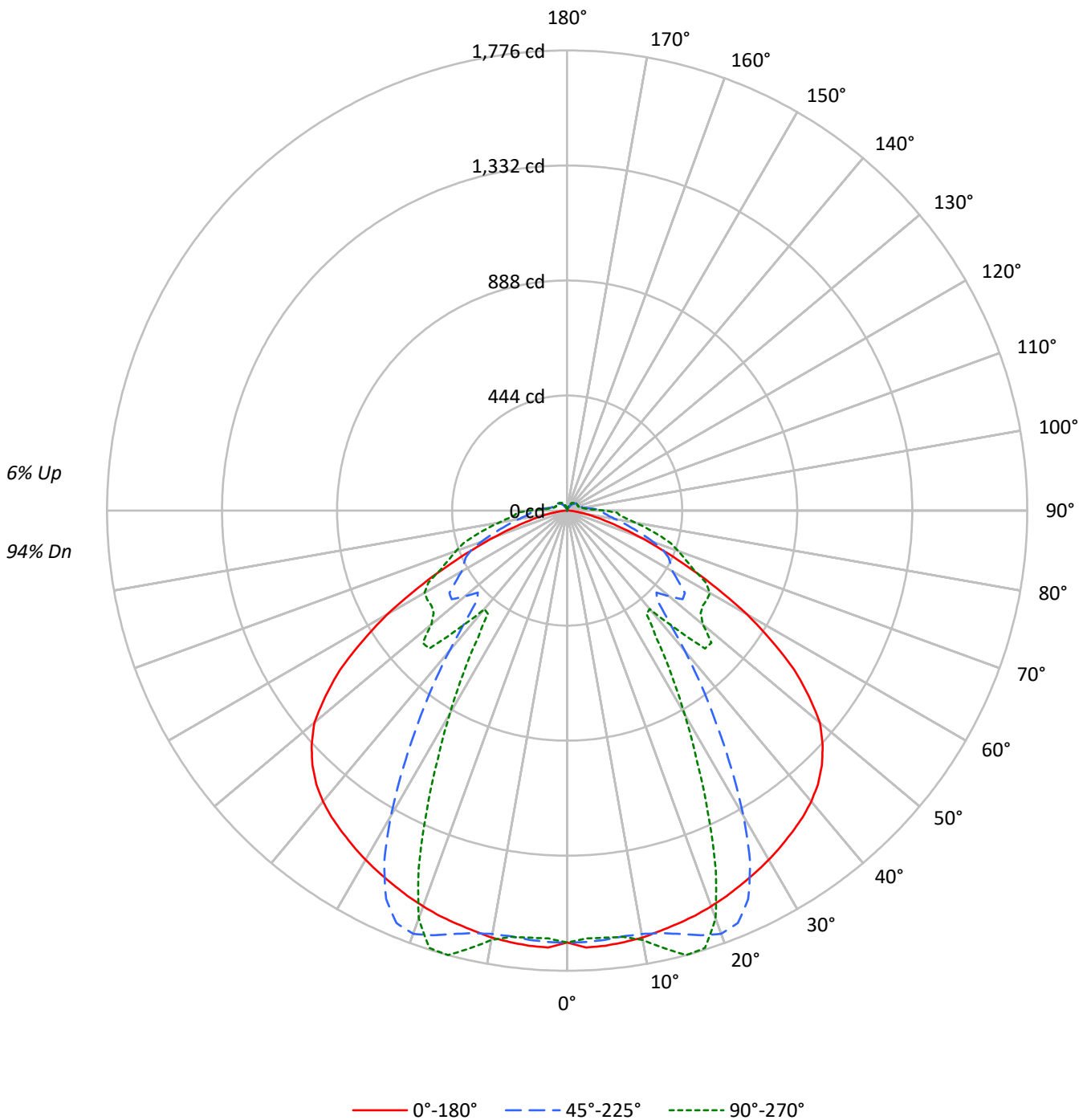
Lumens per Lamp: N/A  
Luminaire Lumens: 4283.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	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°	13473	13473	13473
5°	13638	13158	12997
10°	13655	12958	12951
15°	13693	13141	13499
20°	13820	13532	12671
25°	13991	13004	9756
30°	14267	10892	6940
35°	14621	8249	4699
40°	15068	5997	3979
45°	15409	4350	6255
50°	15432	4817	5937
55°	14424	5543	5863
60°	12290	5073	6231
65°	9245	5116	5700
70°	6489	4657	5305
75°	4250	3902	4761
80°	2712	3342	3962
85°	1462	3178	3558



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	3.7
10°-20°	479.0	11.2
20°-30°	695.9	16.2
30°-40°	664.9	15.5
40°-50°	608.2	14.2
50°-60°	561.6	13.1
60°-70°	446.0	10.4
70°-80°	275.3	6.4
80°-90°	149.9	3.5
90°-100°	75.8	1.8
100°-110°	47.6	1.1
110°-120°	40.3	0.9
120°-130°	32.9	0.8
130°-140°	23.6	0.6
140°-150°	14.6	0.3
150°-160°	6.9	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1333.5	31.1
0°-40°	1998.4	46.7
0°-60°	3168.1	74.0
0°-90°	4039.4	94.3
90°-120°	163.7	3.8
90°-150°	234.9	5.5
90°-180°	244.0	5.7
0°-180°	4283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1686	1660	1663	1654	1655	160
15°	1650	1628	1692	1754	1776	467
25°	1592	1623	1654	1400	1286	736
35°	1514	1490	1004	692	602	950
45°	1390	970	490	625	753	1069
55°	1070	498	555	597	639	942
65°	516	322	432	526	538	522
75°	152	172	259	343	366	172
85°	21	73	147	200	203	27
90°	1	55	131	156	144	1
95°	0	51	91	80	76	0
105°	0	46	56	51	50	0
115°	0	38	54	48	46	0
125°	1	30	48	46	44	1
135°	1	21	38	42	41	1
145°	1	13	27	34	36	0
155°	2	8	16	21	26	1
165°	2	4	8	10	14	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°	1667.3	1667.3	1667.3	1667.3	1667.3
2.5°	1688.0	1663.6	1666.6	1661.4	1652.6
5°	1685.8	1660.0	1662.9	1654.0	1654.8
7.5°	1679.9	1653.3	1657.0	1655.5	1659.2
10°	1673.2	1645.2	1659.2	1671.8	1682.8
12.5°	1661.4	1636.3	1670.3	1707.2	1730.1
15°	1650.4	1628.2	1691.7	1754.4	1775.8
17.5°	1639.3	1625.3	1718.3	1772.9	1769.9
20°	1625.3	1623.8	1738.2	1719.7	1674.7
22.5°	1609.8	1624.5	1722.7	1587.6	1499.0
25°	1592.0	1623.0	1654.0	1400.1	1285.7
27.5°	1574.3	1616.4	1529.3	1195.0	1082.0
30°	1556.6	1598.7	1361.0	1007.5	904.9
32.5°	1536.0	1560.3	1178.0	841.4	746.9
35°	1514.5	1490.2	1004.5	691.6	601.5
37.5°	1492.4	1389.1	848.8	560.2	502.6
40°	1465.8	1262.1	705.6	480.5	496.0
42.5°	1432.6	1118.9	579.4	504.1	611.9
45°	1390.5	969.8	490.1	625.2	752.8
47.5°	1337.4	826.7	467.9	715.9	755.8
50°	1273.2	695.3	514.4	686.4	683.5
52.5°	1175.8	586.0	561.7	625.9	649.5
55°	1069.5	497.5	555.0	597.1	639.2
57.5°	935.2	437.7	509.3	591.2	639.9
60°	801.6	397.8	470.2	590.5	636.2
62.5°	653.9	361.7	450.2	576.4	603.8
65°	515.9	322.5	432.5	525.5	538.1
67.5°	395.6	282.7	401.5	468.7	493.8
70°	298.2	243.6	352.8	425.1	456.1
72.5°	214.8	206.7	302.6	386.8	419.2
75°	152.0	172.0	259.1	343.2	366.1
77.5°	104.8	140.2	222.2	295.2	313.7
80°	68.6	112.2	188.9	253.9	266.4
82.5°	41.3	90.0	163.9	222.2	228.8
85°	21.4	73.1	146.9	200.0	203.0
87.5°	6.6	61.3	137.3	189.7	193.4
90°	0.7	54.6	131.4	155.7	143.9
92.5°	0.0	51.7	113.7	106.3	95.2
95°	0.0	50.9	90.8	80.5	76.0
97.5°	0.0	49.5	74.5	67.2	65.0
100°	0.0	48.0	64.2	59.0	58.3
102.5°	0.0	47.2	58.3	53.9	53.1
105°	0.0	45.8	56.1	50.9	50.2
107.5°	0.0	43.5	54.6	49.5	48.0
110°	0.0	41.3	54.6	48.7	46.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.1	54.6	48.0	45.8
115°	0.0	37.6	53.9	48.0	45.8
117.5°	0.7	36.2	53.1	48.0	45.8
120°	0.0	34.7	51.7	48.0	45.0
122.5°	0.7	32.5	50.2	47.2	45.0
125°	0.7	30.3	48.0	46.5	44.3
127.5°	0.7	28.0	45.8	45.0	42.8
130°	0.7	25.8	43.5	44.3	42.1
132.5°	0.7	23.6	40.6	42.8	41.3
135°	0.7	21.4	38.4	42.1	40.6
137.5°	0.7	19.2	35.4	39.9	39.9
140°	0.7	17.0	32.5	38.4	39.1
142.5°	0.7	15.5	29.5	36.9	37.6
145°	0.7	13.3	26.6	34.0	36.2
147.5°	0.7	11.8	23.6	31.0	34.0
150°	0.7	10.3	20.7	28.0	31.0
152.5°	0.7	8.9	18.5	24.4	28.8
155°	1.5	8.1	16.2	21.4	25.8
157.5°	1.5	6.6	13.3	18.5	22.1
160°	1.5	5.9	11.8	15.5	19.9
162.5°	1.5	5.2	9.6	13.3	17.0
165°	1.5	4.4	8.1	10.3	14.0
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)