

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-LD5-41SL-SLC-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-41SL-SLC-UNV-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

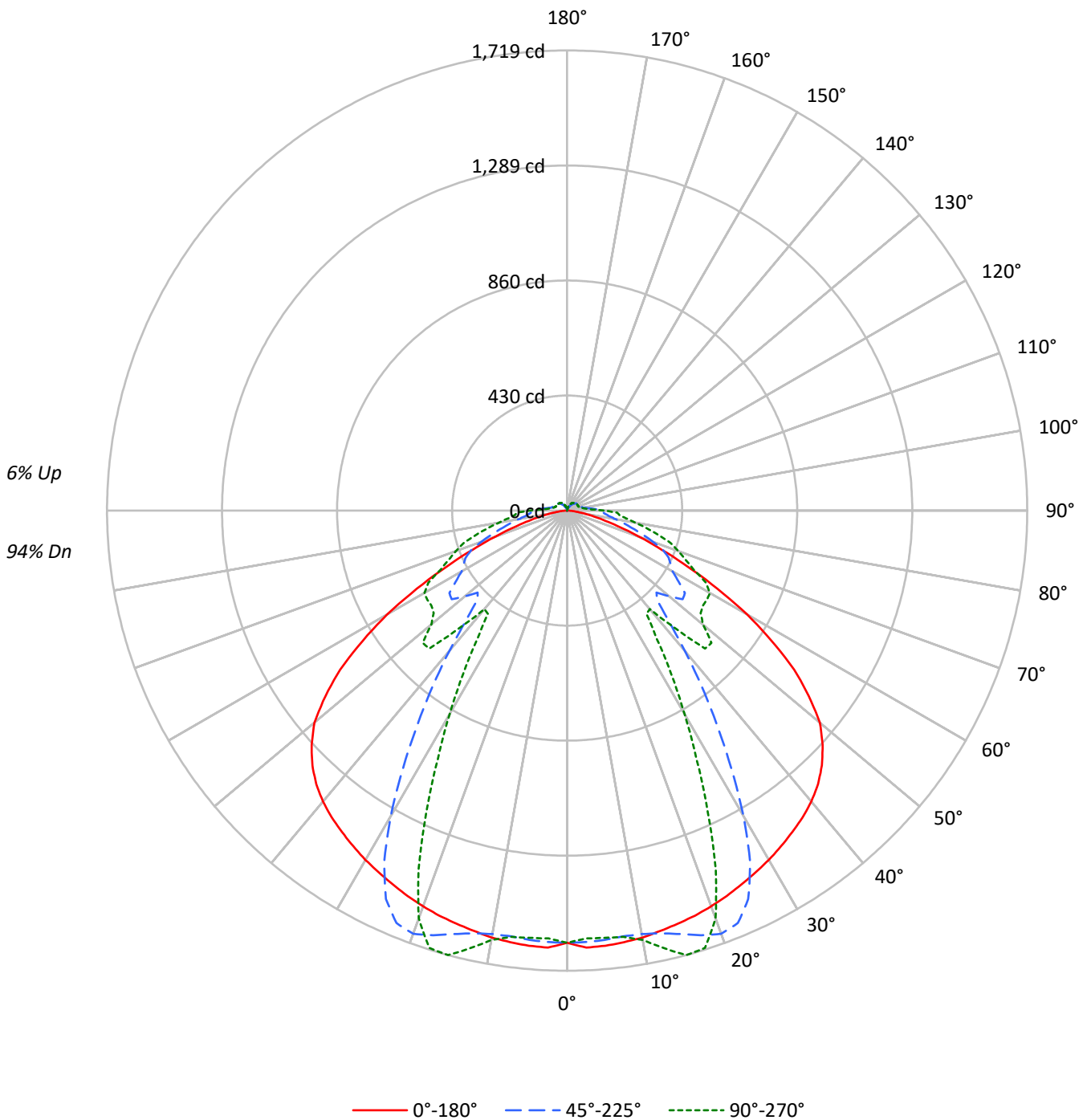
Lumens per Lamp: N/A  
Luminaire Lumens: 4146.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 31  
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	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°	13043	13043	13043
5°	13202	12737	12581
10°	13218	12543	12537
15°	13255	12720	13067
20°	13378	13099	12265
25°	13544	12588	9444
30°	13811	10544	6717
35°	14154	7985	4549
40°	14586	5805	3851
45°	14917	4211	6056
50°	14938	4663	5747
55°	13963	5366	5675
60°	11896	4910	6032
65°	8949	4952	5518
70°	6280	4508	5135
75°	4116	3777	4609
80°	2625	3236	3836
85°	1414	3076	3444



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.5	3.7
10°-20°	463.7	11.2
20°-30°	673.6	16.2
30°-40°	643.6	15.5
40°-50°	588.7	14.2
50°-60°	543.6	13.1
60°-70°	431.8	10.4
70°-80°	266.5	6.4
80°-90°	145.1	3.5
90°-100°	73.4	1.8
100°-110°	46.1	1.1
110°-120°	39.0	0.9
120°-130°	31.9	0.8
130°-140°	22.9	0.6
140°-150°	14.1	0.3
150°-160°	6.7	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1290.9	31.1
0°-40°	1934.5	46.7
0°-60°	3066.8	74.0
0°-90°	3910.2	94.3
90°-120°	158.5	3.8
90°-150°	227.4	5.5
90°-180°	236.0	5.7
0°-180°	4146.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1632	1607	1610	1601	1602	155
15°	1598	1576	1638	1698	1719	452
25°	1541	1571	1601	1355	1245	712
35°	1466	1442	972	670	582	919
45°	1346	939	474	605	729	1034
55°	1035	482	537	578	619	912
65°	499	312	419	509	521	505
75°	147	166	251	332	354	167
85°	21	71	142	194	196	26
90°	1	53	127	151	139	1
95°	0	49	88	78	74	0
105°	0	44	54	49	49	0
115°	0	36	52	46	44	0
125°	1	29	46	45	43	1
135°	1	21	37	41	39	1
145°	1	13	26	33	35	0
155°	1	8	16	21	25	1
165°	1	4	8	10	14	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1634.0	1610.4	1613.3	1608.3	1599.7
5°	1631.9	1606.9	1609.7	1601.1	1601.9
7.5°	1626.1	1600.4	1604.0	1602.6	1606.1
10°	1619.7	1592.6	1606.1	1618.3	1629.0
12.5°	1608.3	1584.0	1616.9	1652.6	1674.7
15°	1597.6	1576.1	1637.6	1698.3	1719.0
17.5°	1586.8	1573.3	1663.3	1716.2	1713.3
20°	1573.3	1571.8	1682.6	1664.7	1621.1
22.5°	1558.3	1572.6	1667.6	1536.8	1451.1
25°	1541.1	1571.1	1601.1	1355.4	1244.6
27.5°	1524.0	1564.7	1480.4	1156.7	1047.4
30°	1506.8	1547.6	1317.5	975.3	875.9
32.5°	1486.8	1510.4	1140.3	814.5	723.0
35°	1466.1	1442.5	972.4	669.5	582.3
37.5°	1444.7	1344.6	821.6	542.3	486.6
40°	1418.9	1221.8	683.0	465.1	480.1
42.5°	1386.8	1083.1	560.9	488.0	592.3
45°	1346.1	938.8	474.4	605.2	728.8
47.5°	1294.6	800.2	453.0	693.0	731.6
50°	1232.5	673.0	498.0	664.5	661.6
52.5°	1138.2	567.3	543.7	605.9	628.7
55°	1035.3	481.6	537.3	578.0	618.7
57.5°	905.2	423.7	493.0	572.3	619.4
60°	775.9	385.1	455.1	571.6	615.9
62.5°	633.0	350.1	435.8	558.0	584.4
65°	499.4	312.2	418.7	508.7	520.9
67.5°	383.0	273.6	388.7	453.7	478.0
70°	288.6	235.8	341.5	411.5	441.5
72.5°	207.9	200.1	292.9	374.4	405.8
75°	147.2	166.5	250.8	332.2	354.4
77.5°	101.5	135.8	215.1	285.8	303.7
80°	66.4	108.6	182.9	245.8	257.9
82.5°	40.0	87.2	158.6	215.1	221.5
85°	20.7	70.7	142.2	193.6	196.5
87.5°	6.4	59.3	132.9	183.6	187.2
90°	0.7	52.9	127.2	150.8	139.3
92.5°	0.0	50.0	110.0	102.9	92.2
95°	0.0	49.3	87.9	77.9	73.6
97.5°	0.0	47.9	72.2	65.0	62.9
100°	0.0	46.4	62.2	57.2	56.4
102.5°	0.0	45.7	56.4	52.2	51.4
105°	0.0	44.3	54.3	49.3	48.6
107.5°	0.0	42.2	52.9	47.9	46.4
110°	0.0	40.0	52.9	47.2	45.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.9	52.9	46.4	44.3
115°	0.0	36.4	52.2	46.4	44.3
117.5°	0.7	35.0	51.4	46.4	44.3
120°	0.0	33.6	50.0	46.4	43.6
122.5°	0.7	31.4	48.6	45.7	43.6
125°	0.7	29.3	46.4	45.0	42.9
127.5°	0.7	27.2	44.3	43.6	41.4
130°	0.7	25.0	42.2	42.9	40.7
132.5°	0.7	22.9	39.3	41.4	40.0
135°	0.7	20.7	37.2	40.7	39.3
137.5°	0.7	18.6	34.3	38.6	38.6
140°	0.7	16.4	31.4	37.2	37.9
142.5°	0.7	15.0	28.6	35.7	36.4
145°	0.7	12.9	25.7	32.9	35.0
147.5°	0.7	11.4	22.9	30.0	32.9
150°	0.7	10.0	20.0	27.2	30.0
152.5°	0.7	8.6	17.9	23.6	27.9
155°	1.4	7.9	15.7	20.7	25.0
157.5°	1.4	6.4	12.9	17.9	21.4
160°	1.4	5.7	11.4	15.0	19.3
162.5°	1.4	5.0	9.3	12.9	16.4
165°	1.4	4.3	7.9	10.0	13.6
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)