

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-LD5-46SL-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-LD5-46SL-SLN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

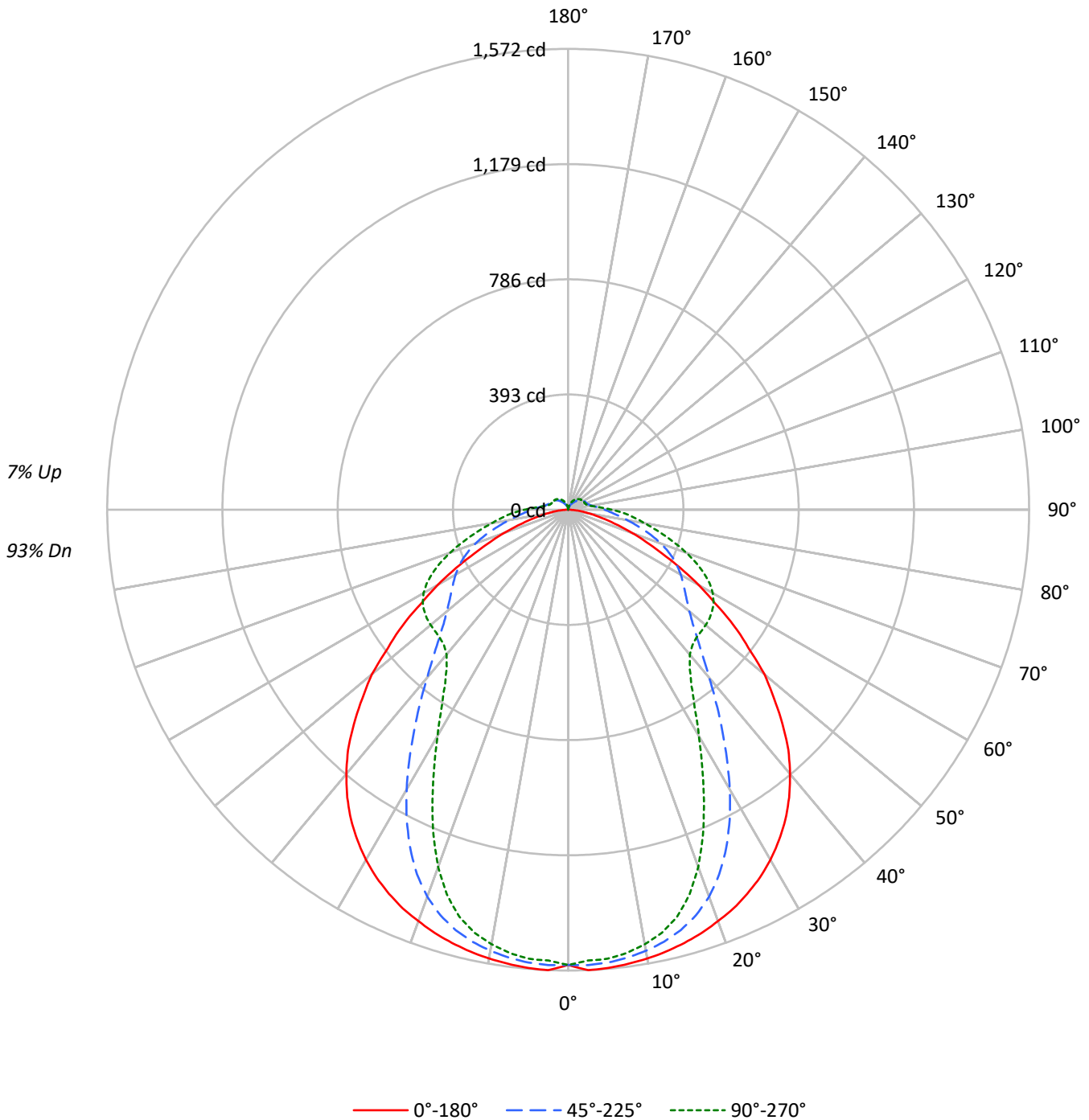
Lumens per Lamp: N/A  
Luminaire Lumens: 3905.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 35  
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°	12548	12548	12548
5°	12693	12271	12079
10°	12688	11932	11582
15°	12692	11532	10921
20°	12698	10938	9808
25°	12704	10023	8306
30°	12643	8819	6832
35°	12463	7503	5725
40°	12098	6354	5175
45°	11457	5523	5136
50°	10584	5049	5317
55°	9319	4853	5502
60°	7864	4784	5579
65°	6324	4678	5405
70°	5081	4436	4984
75°	3831	4015	4423
80°	2826	3605	3934
85°	1892	3400	3619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	3.8
10°-20°	415.2	10.6
20°-30°	580.4	14.9
30°-40°	602.1	15.4
40°-50°	556.2	14.2
50°-60°	496.6	12.7
60°-70°	402.4	10.3
70°-80°	267.7	6.9
80°-90°	153.3	3.9
90°-100°	84.8	2.2
100°-110°	57.4	1.5
110°-120°	47.8	1.2
120°-130°	38.9	1.0
130°-140°	28.0	0.7
140°-150°	16.9	0.4
150°-160°	8.1	0.2
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-30°	1142.6	29.3
0°-40°	1744.7	44.7
0°-60°	2797.5	71.6
0°-90°	3620.9	92.7
90°-120°	190.1	4.9
90°-150°	273.9	7.0
90°-180°	284.0	7.3
0°-180°	3905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1569	1543	1551	1540	1538	149
15°	1530	1497	1485	1451	1437	432
25°	1446	1381	1275	1141	1095	666
35°	1291	1149	914	767	733	805
45°	1034	819	622	600	618	795
55°	691	522	486	565	600	614
65°	353	316	396	484	510	357
75°	137	171	267	327	340	150
85°	28	80	157	201	206	32
90°	1	56	124	150	148	2
95°	1	47	98	105	102	1
105°	1	41	71	69	66	1
115°	1	37	63	62	60	1
125°	1	32	55	58	57	1
135°	1	24	44	51	51	1
145°	1	15	30	40	42	1
155°	1	9	19	25	30	1
165°	1	5	9	12	16	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°	1552.8	1552.8	1552.8	1552.8	1552.8
2.5°	1572.4	1546.7	1554.8	1548.1	1539.3
5°	1569.0	1542.7	1550.8	1540.0	1537.9
7.5°	1562.9	1536.6	1541.3	1528.5	1525.1
10°	1554.8	1527.1	1527.8	1509.6	1504.9
12.5°	1544.0	1513.6	1509.6	1484.6	1477.9
15°	1529.8	1497.4	1484.6	1450.9	1436.7
17.5°	1514.3	1476.5	1450.2	1398.2	1376.0
20°	1493.4	1450.9	1405.0	1326.0	1296.3
22.5°	1472.5	1419.8	1346.3	1241.0	1201.2
25°	1445.5	1381.4	1274.8	1141.1	1094.6
27.5°	1415.1	1336.2	1192.4	1038.6	988.6
30°	1379.4	1281.5	1102.0	938.0	890.8
32.5°	1337.5	1220.1	1006.8	847.6	803.7
35°	1291.0	1149.2	913.7	767.3	732.9
37.5°	1237.6	1071.6	827.3	702.5	680.2
40°	1176.9	987.3	747.7	652.6	645.1
42.5°	1111.4	904.9	679.6	620.2	626.9
45°	1033.8	819.2	622.2	599.9	618.1
47.5°	952.2	735.6	575.6	588.5	614.8
50°	873.2	658.0	539.2	581.0	612.1
52.5°	775.4	588.5	510.2	574.3	608.0
55°	691.0	522.3	485.9	564.8	599.9
57.5°	593.9	462.9	464.3	552.7	587.8
60°	512.9	408.9	443.4	535.8	569.6
62.5°	430.5	360.4	420.4	513.5	543.9
65°	352.9	315.8	395.5	484.5	510.2
67.5°	288.2	275.3	367.1	449.4	471.0
70°	233.5	238.2	336.1	410.3	428.5
72.5°	179.5	203.8	302.3	368.5	384.0
75°	137.0	171.4	266.6	326.6	340.1
77.5°	101.2	143.1	234.2	288.8	300.3
80°	71.5	118.1	203.8	255.8	264.5
82.5°	47.9	97.2	178.8	226.1	234.2
85°	27.7	79.6	157.2	201.1	206.5
87.5°	11.5	66.1	139.7	175.5	178.2
90°	1.3	56.0	124.2	149.8	148.5
92.5°	1.3	50.6	110.7	125.5	122.1
95°	1.3	47.2	98.5	105.3	101.9
97.5°	1.3	45.2	87.7	90.4	87.1
100°	0.7	43.9	80.3	80.3	76.9
102.5°	0.7	42.5	74.9	72.9	70.2
105°	0.7	41.2	70.9	68.8	65.5
107.5°	0.7	40.5	68.2	66.1	62.8
110°	0.7	39.1	66.1	64.1	61.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	38.5	64.8	63.4	60.1
115°	0.7	37.1	62.8	62.1	60.1
117.5°	0.7	35.8	61.4	61.4	59.4
120°	0.7	34.4	59.4	60.7	58.7
122.5°	0.7	33.1	57.4	59.4	57.4
125°	0.7	31.7	55.3	58.0	56.7
127.5°	1.3	29.7	52.6	56.7	55.3
130°	0.7	27.7	49.9	55.3	54.7
132.5°	1.3	25.6	47.2	53.3	53.3
135°	1.3	23.6	43.9	51.3	51.3
137.5°	1.3	20.9	40.5	48.6	49.3
140°	1.3	18.9	37.1	45.9	47.2
142.5°	1.3	16.9	33.7	43.2	45.2
145°	1.3	14.8	30.4	39.8	42.5
147.5°	1.3	13.5	27.0	35.8	39.8
150°	1.3	11.5	24.3	32.4	36.4
152.5°	1.3	10.1	21.6	29.0	33.7
155°	1.3	9.4	18.9	25.0	30.4
157.5°	1.3	8.1	16.2	21.6	27.0
160°	1.3	6.7	13.5	18.9	22.9
162.5°	1.3	6.1	11.5	15.5	20.2
165°	1.3	5.4	9.4	12.1	16.2
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)