

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-SLC-UNV-L940-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-LD5-46SL-SLC-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

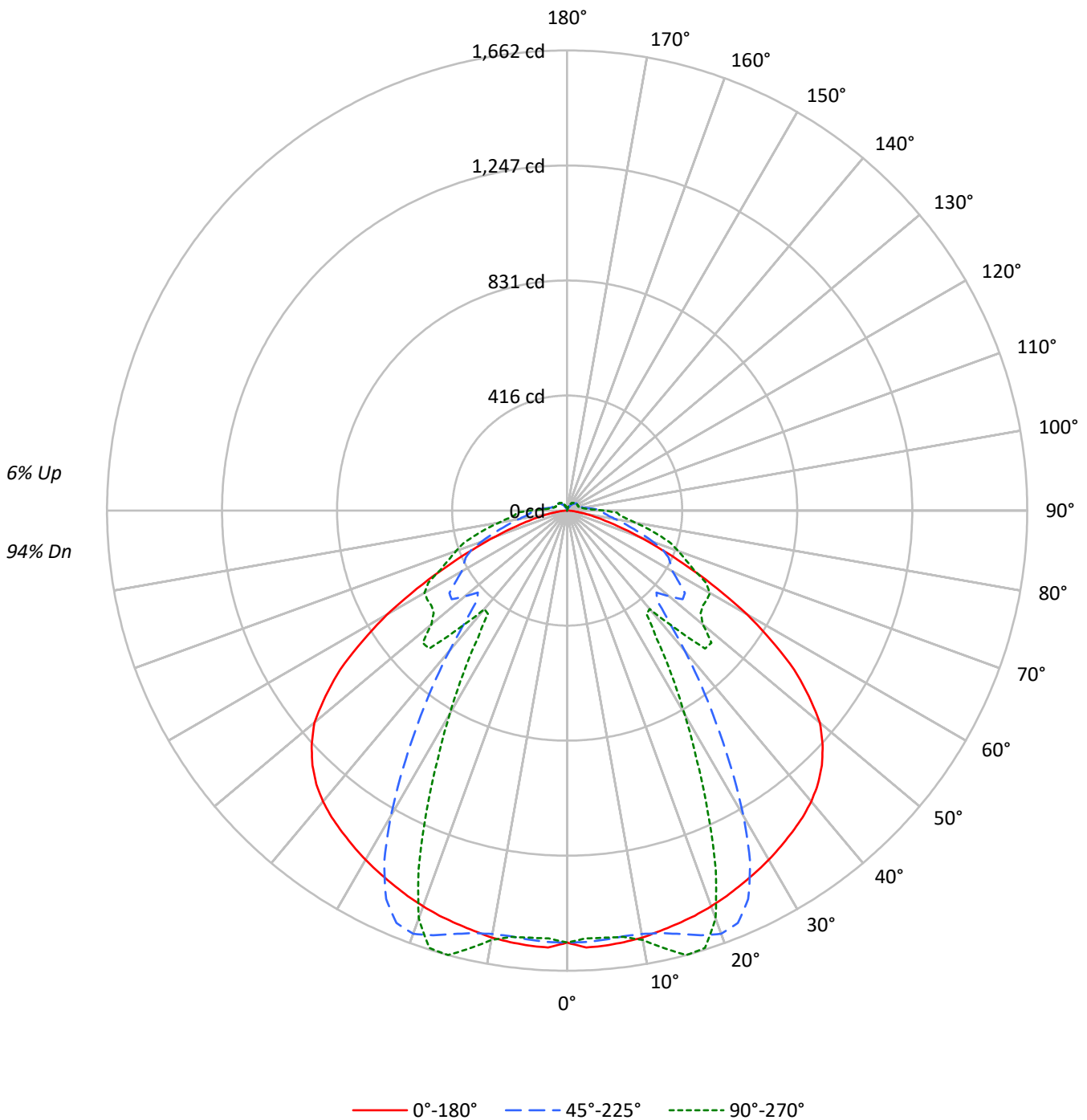
Lumens per Lamp: N/A  
Luminaire Lumens: 4008.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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	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	64	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°	12609	12609	12609
5°	12762	12313	12162
10°	12778	12126	12120
15°	12813	12297	12632
20°	12932	12663	11857
25°	13093	12169	9130
30°	13352	10192	6494
35°	13682	7719	4397
40°	14100	5612	3723
45°	14421	4071	5854
50°	14440	4508	5556
55°	13498	5188	5486
60°	11501	4747	5831
65°	8652	4787	5334
70°	6071	4359	4964
75°	3979	3651	4455
80°	2538	3128	3708
85°	1366	2972	3328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.4	3.7
10°-20°	448.3	11.2
20°-30°	651.2	16.2
30°-40°	622.2	15.5
40°-50°	569.1	14.2
50°-60°	525.5	13.1
60°-70°	417.4	10.4
70°-80°	257.6	6.4
80°-90°	140.3	3.5
90°-100°	70.9	1.8
100°-110°	44.6	1.1
110°-120°	37.7	0.9
120°-130°	30.8	0.8
130°-140°	22.1	0.6
140°-150°	13.6	0.3
150°-160°	6.5	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1247.9	31.1
0°-40°	1870.1	46.7
0°-60°	2964.7	74.0
0°-90°	3780.0	94.3
90°-120°	153.2	3.8
90°-150°	219.8	5.5
90°-180°	228.0	5.7
0°-180°	4008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1578	1553	1556	1548	1548	150
15°	1544	1524	1583	1642	1662	437
25°	1490	1519	1548	1310	1203	689
35°	1417	1394	940	647	563	889
45°	1301	908	459	585	704	1000
55°	1001	466	519	559	598	881
65°	483	302	405	492	504	488
75°	142	161	242	321	343	161
85°	20	68	137	187	190	26
90°	1	51	123	146	135	1
95°	0	48	85	75	71	0
105°	0	43	52	48	47	0
115°	0	35	50	45	43	0
125°	1	28	45	44	41	1
135°	1	20	36	39	38	1
145°	1	12	25	32	34	0
155°	1	8	15	20	24	1
165°	1	4	8	10	13	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°	1560.3	1560.3	1560.3	1560.3	1560.3
2.5°	1579.6	1556.8	1559.6	1554.8	1546.5
5°	1577.5	1553.4	1556.1	1547.8	1548.5
7.5°	1572.0	1547.2	1550.6	1549.2	1552.7
10°	1565.8	1539.6	1552.7	1564.4	1574.8
12.5°	1554.8	1531.3	1563.0	1597.6	1619.0
15°	1544.4	1523.7	1583.1	1641.8	1661.8
17.5°	1534.0	1520.9	1607.9	1659.0	1656.3
20°	1520.9	1519.5	1626.6	1609.3	1567.2
22.5°	1506.4	1520.2	1612.1	1485.7	1402.8
25°	1489.8	1518.8	1547.8	1310.2	1203.2
27.5°	1473.2	1512.6	1431.1	1118.2	1012.6
30°	1456.7	1496.0	1273.6	942.8	846.8
32.5°	1437.3	1460.1	1102.3	787.4	699.0
35°	1417.3	1394.5	940.0	647.2	562.9
37.5°	1396.6	1299.9	794.3	524.2	470.4
40°	1371.7	1181.1	660.3	449.6	464.1
42.5°	1340.6	1047.1	542.2	471.7	572.6
45°	1301.3	907.6	458.6	585.0	704.5
47.5°	1251.5	773.6	437.9	670.0	707.3
50°	1191.4	650.6	481.4	642.3	639.6
52.5°	1100.3	548.4	525.6	585.7	607.8
55°	1000.8	465.5	519.4	558.8	598.1
57.5°	875.1	409.6	476.6	553.2	598.8
60°	750.1	372.3	440.0	552.6	595.4
62.5°	612.0	338.4	421.3	539.4	565.0
65°	482.8	301.8	404.7	491.8	503.5
67.5°	370.2	264.5	375.7	438.6	462.1
70°	279.0	227.9	330.2	397.8	426.8
72.5°	201.0	193.4	283.2	361.9	392.3
75°	142.3	160.9	242.4	321.2	342.6
77.5°	98.1	131.2	207.9	276.3	293.5
80°	64.2	105.0	176.8	237.6	249.3
82.5°	38.7	84.3	153.3	207.9	214.1
85°	20.0	68.4	137.4	187.2	189.9
87.5°	6.2	57.3	128.5	177.5	181.0
90°	0.7	51.1	122.9	145.7	134.7
92.5°	0.0	48.3	106.4	99.5	89.1
95°	0.0	47.7	85.0	75.3	71.1
97.5°	0.0	46.3	69.8	62.9	60.8
100°	0.0	44.9	60.1	55.3	54.6
102.5°	0.0	44.2	54.6	50.4	49.7
105°	0.0	42.8	52.5	47.7	47.0
107.5°	0.0	40.8	51.1	46.3	44.9
110°	0.0	38.7	51.1	45.6	43.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	36.6	51.1	44.9	42.8
115°	0.0	35.2	50.4	44.9	42.8
117.5°	0.7	33.8	49.7	44.9	42.8
120°	0.0	32.5	48.3	44.9	42.1
122.5°	0.7	30.4	47.0	44.2	42.1
125°	0.7	28.3	44.9	43.5	41.4
127.5°	0.7	26.2	42.8	42.1	40.1
130°	0.7	24.2	40.8	41.4	39.4
132.5°	0.7	22.1	38.0	40.1	38.7
135°	0.7	20.0	35.9	39.4	38.0
137.5°	0.7	18.0	33.2	37.3	37.3
140°	0.7	15.9	30.4	35.9	36.6
142.5°	0.7	14.5	27.6	34.5	35.2
145°	0.7	12.4	24.9	31.8	33.8
147.5°	0.7	11.1	22.1	29.0	31.8
150°	0.7	9.7	19.3	26.2	29.0
152.5°	0.7	8.3	17.3	22.8	26.9
155°	1.4	7.6	15.2	20.0	24.2
157.5°	1.4	6.2	12.4	17.3	20.7
160°	1.4	5.5	11.1	14.5	18.6
162.5°	1.4	4.8	9.0	12.4	15.9
165°	1.4	4.1	7.6	9.7	13.1
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)