

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

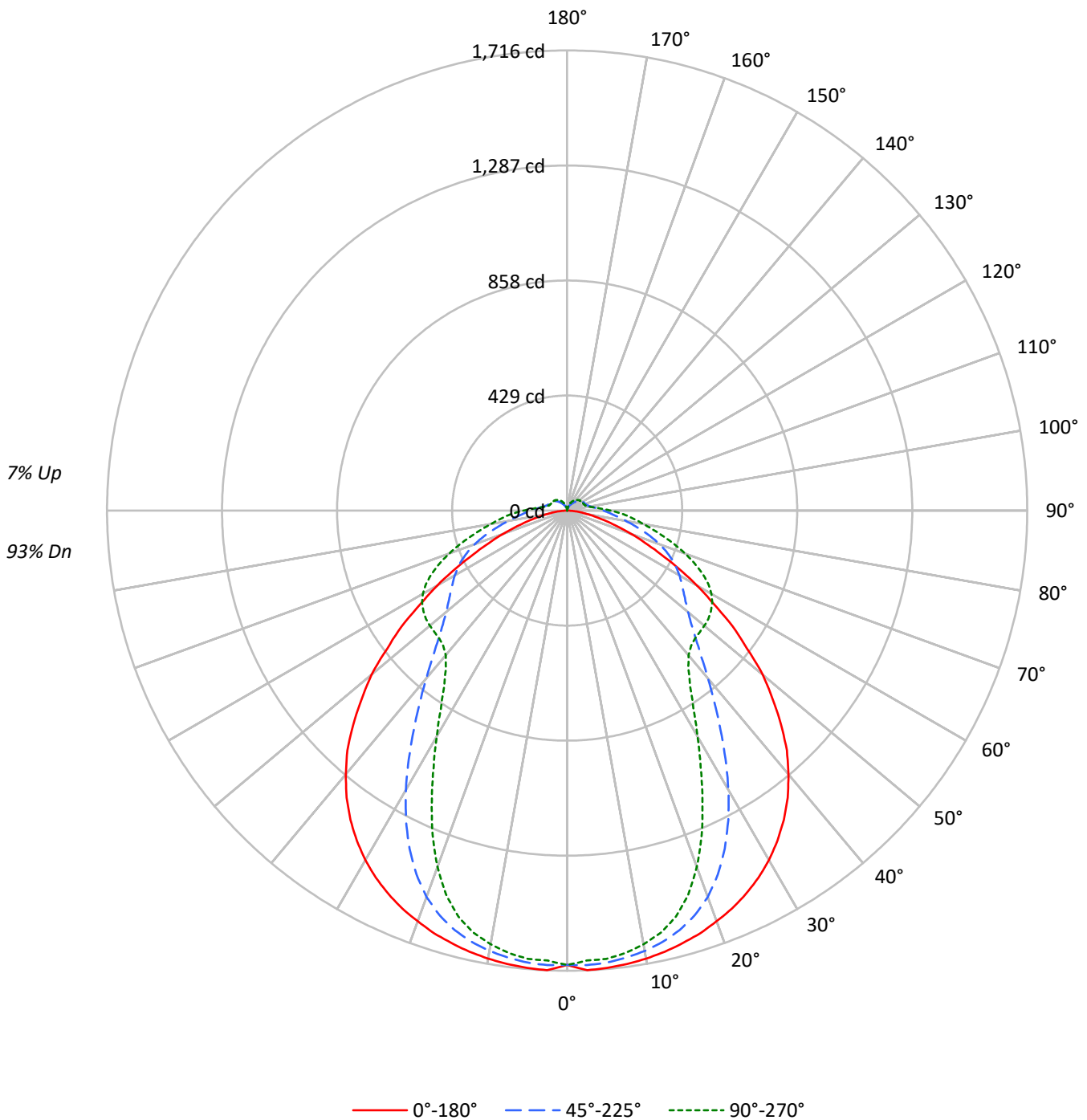
Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	13692	13692	13692
5°	13850	13389	13180
10°	13845	13020	12638
15°	13850	12584	11917
20°	13856	11935	10702
25°	13862	10936	9063
30°	13795	9623	7454
35°	13598	8187	6247
40°	13201	6934	5648
45°	12502	6026	5605
50°	11548	5508	5801
55°	10169	5295	6004
60°	8580	5220	6087
65°	6901	5104	5897
70°	5544	4840	5439
75°	4180	4381	4826
80°	3087	3934	4292
85°	2063	3712	3948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	3.8
10°-20°	453.1	10.6
20°-30°	633.4	14.9
30°-40°	657.0	15.4
40°-50°	606.9	14.2
50°-60°	541.9	12.7
60°-70°	439.1	10.3
70°-80°	292.1	6.9
80°-90°	167.3	3.9
90°-100°	92.5	2.2
100°-110°	62.7	1.5
110°-120°	52.2	1.2
120°-130°	42.4	1.0
130°-140°	30.6	0.7
140°-150°	18.4	0.4
150°-160°	8.9	0.2
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-30°	1246.7	29.3
0°-40°	1903.7	44.7
0°-60°	3052.5	71.6
0°-90°	3951.0	92.7
90°-120°	207.4	4.9
90°-150°	298.8	7.0
90°-180°	310.0	7.3
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1712	1683	1692	1680	1678	163
15°	1669	1634	1620	1583	1568	472
25°	1577	1507	1391	1245	1194	727
35°	1409	1254	997	837	800	879
45°	1128	894	679	655	674	867
55°	754	570	530	616	655	670
65°	385	345	432	529	557	389
75°	150	187	291	356	371	164
85°	30	87	172	219	225	35
90°	2	61	136	164	162	2
95°	2	52	108	115	111	1
105°	1	45	77	75	71	1
115°	1	40	68	68	66	1
125°	1	35	60	63	62	1
135°	2	26	48	56	56	1
145°	2	16	33	43	46	1
155°	2	10	21	27	33	1
165°	2	6	10	13	18	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-46SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1715.7	1687.7	1696.6	1689.2	1679.6
5°	1712.0	1683.3	1692.1	1680.4	1678.1
7.5°	1705.4	1676.7	1681.8	1667.8	1664.2
10°	1696.6	1666.4	1667.1	1647.2	1642.1
12.5°	1684.8	1651.6	1647.2	1620.0	1612.6
15°	1669.3	1634.0	1620.0	1583.2	1567.7
17.5°	1652.4	1611.1	1582.4	1525.7	1501.4
20°	1629.5	1583.2	1533.1	1446.9	1414.5
22.5°	1606.7	1549.3	1469.0	1354.1	1310.7
25°	1577.3	1507.3	1391.0	1245.2	1194.4
27.5°	1544.1	1458.0	1301.1	1133.2	1078.8
30°	1505.1	1398.3	1202.5	1023.5	972.0
32.5°	1459.4	1331.3	1098.6	924.9	877.0
35°	1408.6	1254.0	997.0	837.2	799.7
37.5°	1350.5	1169.3	902.8	766.5	742.2
40°	1284.2	1077.3	815.9	712.1	704.0
42.5°	1212.8	987.4	741.5	676.7	684.1
45°	1128.1	893.9	678.9	654.6	674.5
47.5°	1039.0	802.6	628.1	642.1	670.8
50°	952.8	717.9	588.3	634.0	667.9
52.5°	846.1	642.1	556.7	626.6	663.5
55°	754.0	569.9	530.2	616.3	654.6
57.5°	648.0	505.1	506.6	603.1	641.4
60°	559.6	446.2	483.8	584.7	621.5
62.5°	469.8	393.2	458.7	560.4	593.5
65°	385.1	344.6	431.5	528.7	556.7
67.5°	314.4	300.4	400.6	490.4	514.0
70°	254.8	259.9	366.7	447.7	467.6
72.5°	195.9	222.4	329.9	402.0	419.0
75°	149.5	187.0	290.9	356.4	371.1
77.5°	110.5	156.1	255.5	315.2	327.7
80°	78.1	128.9	222.4	279.1	288.6
82.5°	52.3	106.0	195.1	246.7	255.5
85°	30.2	86.9	171.6	219.4	225.3
87.5°	12.5	72.2	152.4	191.5	194.4
90°	1.5	61.1	135.5	163.5	162.0
92.5°	1.5	55.2	120.8	137.0	133.3
95°	1.5	51.5	107.5	114.9	111.2
97.5°	1.5	49.3	95.7	98.7	95.0
100°	0.7	47.9	87.6	87.6	83.9
102.5°	0.7	46.4	81.7	79.5	76.6
105°	0.7	44.9	77.3	75.1	71.4
107.5°	0.7	44.2	74.4	72.2	68.5
110°	0.7	42.7	72.2	70.0	67.0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	42.0	70.7	69.2	65.5
115°	0.7	40.5	68.5	67.7	65.5
117.5°	0.7	39.0	67.0	67.0	64.8
120°	0.7	37.6	64.8	66.3	64.1
122.5°	0.7	36.1	62.6	64.8	62.6
125°	0.7	34.6	60.4	63.3	61.9
127.5°	1.5	32.4	57.4	61.9	60.4
130°	0.7	30.2	54.5	60.4	59.6
132.5°	1.5	28.0	51.5	58.2	58.2
135°	1.5	25.8	47.9	56.0	56.0
137.5°	1.5	22.8	44.2	53.0	53.8
140°	1.5	20.6	40.5	50.1	51.5
142.5°	1.5	18.4	36.8	47.1	49.3
145°	1.5	16.2	33.1	43.4	46.4
147.5°	1.5	14.7	29.5	39.0	43.4
150°	1.5	12.5	26.5	35.3	39.8
152.5°	1.5	11.0	23.6	31.7	36.8
155°	1.5	10.3	20.6	27.2	33.1
157.5°	1.5	8.8	17.7	23.6	29.5
160°	1.5	7.4	14.7	20.6	25.0
162.5°	1.5	6.6	12.5	16.9	22.1
165°	1.5	5.9	10.3	13.3	17.7
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)