

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-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 (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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

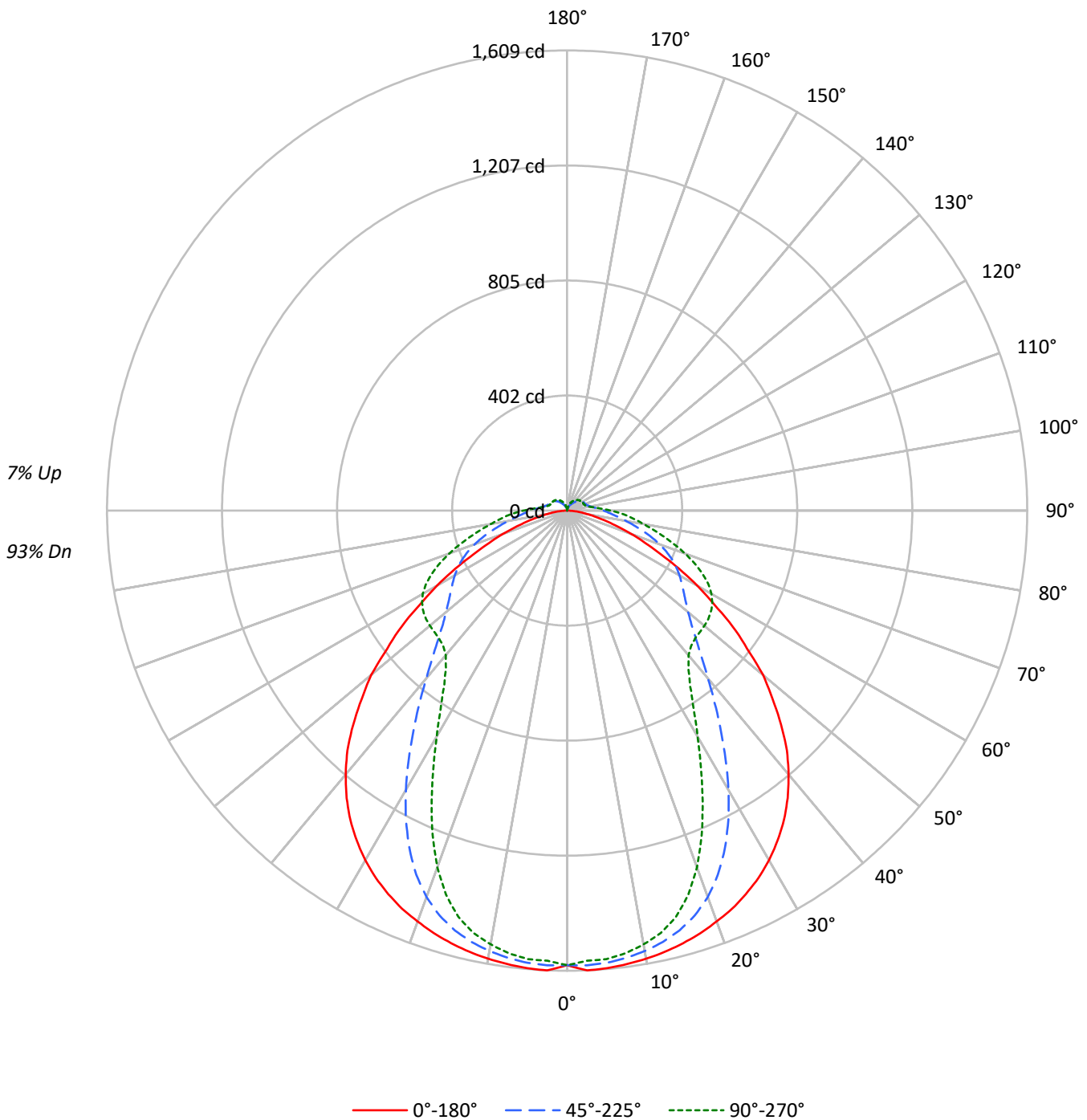
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12844	12844	12844
5°	12991	12560	12364
10°	12987	12213	11855
15°	12992	11804	11179
20°	12998	11196	10039
25°	13002	10259	8502
30°	12940	9027	6993
35°	12757	7680	5860
40°	12383	6504	5297
45°	11727	5653	5257
50°	10833	5168	5442
55°	9539	4967	5632
60°	8049	4896	5710
65°	6475	4788	5532
70°	5200	4541	5102
75°	3920	4109	4527
80°	2894	3690	4028
85°	1933	3480	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.8
10°-20°	425.0	10.6
20°-30°	594.1	14.9
30°-40°	616.3	15.4
40°-50°	569.3	14.2
50°-60°	508.3	12.7
60°-70°	411.9	10.3
70°-80°	274.0	6.9
80°-90°	156.9	3.9
90°-100°	86.8	2.2
100°-110°	58.8	1.5
110°-120°	48.9	1.2
120°-130°	39.8	1.0
130°-140°	28.7	0.7
140°-150°	17.3	0.4
150°-160°	8.3	0.2
160°-170°	2.2	0.1
170°-180°	0.0	0.0
0°-30°	1169.5	29.3
0°-40°	1785.8	44.7
0°-60°	2863.4	71.6
0°-90°	3706.2	92.7
90°-120°	194.5	4.9
90°-150°	280.3	7.0
90°-180°	291.0	7.3
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1606	1579	1587	1576	1574	153
15°	1566	1533	1520	1485	1471	442
25°	1480	1414	1305	1168	1120	682
35°	1321	1176	935	785	750	824
45°	1058	838	637	614	633	814
55°	707	535	497	578	614	629
65°	361	323	405	496	522	365
75°	140	175	273	334	348	154
85°	28	82	161	206	211	33
90°	1	57	127	153	152	2
95°	1	48	101	108	104	1
105°	1	42	72	70	67	1
115°	1	38	64	64	62	1
125°	1	32	57	59	58	1
135°	1	24	45	52	52	1
145°	1	15	31	41	44	1
155°	1	10	19	26	31	1
165°	1	6	10	12	17	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-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.4	1589.4	1589.4	1589.4	1589.4
2.5°	1609.4	1583.2	1591.4	1584.5	1575.6
5°	1605.9	1579.0	1587.3	1576.2	1574.2
7.5°	1599.7	1572.8	1577.6	1564.5	1561.0
10°	1591.4	1563.1	1563.8	1545.2	1540.3
12.5°	1580.4	1549.3	1545.2	1519.6	1512.7
15°	1565.9	1532.7	1519.6	1485.1	1470.6
17.5°	1550.0	1511.3	1484.4	1431.2	1408.4
20°	1528.6	1485.1	1438.1	1357.3	1326.9
22.5°	1507.2	1453.3	1378.0	1270.3	1229.5
25°	1479.5	1413.9	1304.8	1168.0	1120.4
27.5°	1448.5	1367.6	1220.5	1063.0	1011.9
30°	1411.8	1311.7	1128.0	960.1	911.8
32.5°	1369.0	1248.8	1030.6	867.6	822.7
35°	1321.4	1176.3	935.2	785.4	750.1
37.5°	1266.8	1096.9	846.8	719.0	696.3
40°	1204.6	1010.5	765.3	667.9	660.3
42.5°	1137.6	926.3	695.6	634.8	641.7
45°	1058.2	838.5	636.9	614.1	632.7
47.5°	974.6	752.9	589.2	602.3	629.3
50°	893.8	673.5	551.9	594.7	626.5
52.5°	793.6	602.3	522.2	587.8	622.3
55°	707.3	534.6	497.3	578.1	614.1
57.5°	607.8	473.8	475.2	565.7	601.6
60°	525.0	418.6	453.8	548.4	583.0
62.5°	440.7	368.8	430.3	525.6	556.7
65°	361.3	323.3	404.8	495.9	522.2
67.5°	294.9	281.8	375.8	460.0	482.1
70°	239.0	243.8	344.0	420.0	438.6
72.5°	183.7	208.6	309.4	377.1	393.0
75°	140.2	175.4	272.8	334.3	348.1
77.5°	103.6	146.4	239.7	295.6	307.4
80°	73.2	120.9	208.6	261.8	270.8
82.5°	49.0	99.5	183.0	231.4	239.7
85°	28.3	81.5	160.9	205.8	211.4
87.5°	11.7	67.7	143.0	179.6	182.4
90°	1.4	57.3	127.1	153.3	152.0
92.5°	1.4	51.8	113.3	128.5	125.0
95°	1.4	48.4	100.8	107.8	104.3
97.5°	1.4	46.3	89.8	92.6	89.1
100°	0.7	44.9	82.2	82.2	78.7
102.5°	0.7	43.5	76.7	74.6	71.8
105°	0.7	42.1	72.5	70.5	67.0
107.5°	0.7	41.4	69.8	67.7	64.2
110°	0.7	40.1	67.7	65.6	62.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	39.4	66.3	64.9	61.5
115°	0.7	38.0	64.2	63.5	61.5
117.5°	0.7	36.6	62.9	62.9	60.8
120°	0.7	35.2	60.8	62.2	60.1
122.5°	0.7	33.8	58.7	60.8	58.7
125°	0.7	32.5	56.6	59.4	58.0
127.5°	1.4	30.4	53.9	58.0	56.6
130°	0.7	28.3	51.1	56.6	55.9
132.5°	1.4	26.2	48.4	54.6	54.6
135°	1.4	24.2	44.9	52.5	52.5
137.5°	1.4	21.4	41.4	49.7	50.4
140°	1.4	19.3	38.0	47.0	48.4
142.5°	1.4	17.3	34.5	44.2	46.3
145°	1.4	15.2	31.1	40.8	43.5
147.5°	1.4	13.8	27.6	36.6	40.8
150°	1.4	11.7	24.9	33.2	37.3
152.5°	1.4	10.4	22.1	29.7	34.5
155°	1.4	9.7	19.3	25.6	31.1
157.5°	1.4	8.3	16.6	22.1	27.6
160°	1.4	6.9	13.8	19.3	23.5
162.5°	1.4	6.2	11.7	15.9	20.7
165°	1.4	5.5	9.7	12.4	16.6
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)