

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: **2SNLED-LD5-46HL-SLC-UNV-L930-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: 2SNLED-LD5-46HL-SLC-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

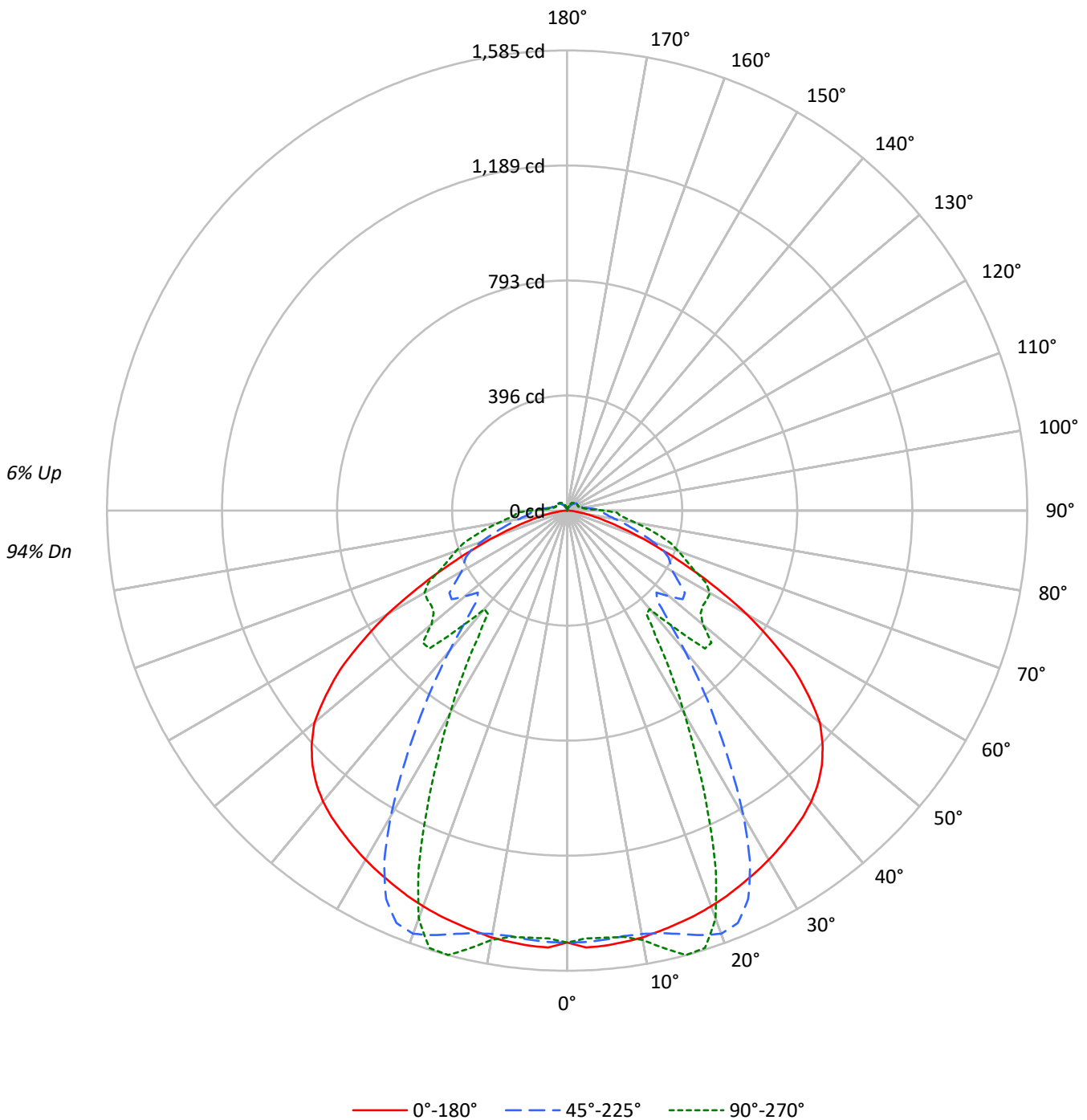
Lumens per Lamp: N/A
Luminaire Lumens: 3822.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
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



TEST NUMBER: P#
CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L930-CD1-U

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°	24047	24047	24047
5°	24273	23440	23196
10°	24237	23041	23115
15°	24236	23324	24092
20°	24389	23976	22615
25°	24618	23000	17413
30°	25021	19228	12386
35°	25547	14535	8387
40°	26223	10546	7101
45°	26694	7632	11164
50°	26588	8432	10595
55°	24689	9677	10463
60°	20863	8829	11120
65°	15526	8871	10172
70°	10732	8038	9468
75°	6871	6698	8497
80°	4212	5694	7074
85°	2066	5356	6348



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.7
10°-20°	427.5	11.2
20°-30°	621.0	16.2
30°-40°	593.3	15.5
40°-50°	542.7	14.2
50°-60°	501.1	13.1
60°-70°	398.0	10.4
70°-80°	245.7	6.4
80°-90°	133.8	3.5
90°-100°	67.6	1.8
100°-110°	42.5	1.1
110°-120°	36.0	0.9
120°-130°	29.4	0.8
130°-140°	21.1	0.6
140°-150°	13.0	0.3
150°-160°	6.2	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1190.0	31.1
0°-40°	1783.3	46.7
0°-60°	2827.1	74.0
0°-90°	3604.7	94.3
90°-120°	146.1	3.8
90°-150°	209.6	5.5
90°-180°	217.0	5.7
0°-180°	3822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1504	1481	1484	1476	1477	143
15°	1473	1453	1510	1566	1585	417
25°	1421	1448	1476	1249	1147	657
35°	1352	1330	896	617	537	847
45°	1241	866	437	558	672	954
55°	954	444	495	533	570	841
65°	460	288	386	469	480	466
75°	136	154	231	306	327	154
85°	19	65	131	178	181	24
90°	1	49	117	139	128	1
95°	0	45	81	72	68	0
105°	0	41	50	45	45	0
115°	0	34	48	43	41	0
125°	1	27	43	42	40	1
135°	1	19	34	38	36	1
145°	1	12	24	30	32	0
155°	1	7	14	19	23	0
165°	1	4	7	9	12	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.9	1487.9	1487.9	1487.9	1487.9
2.5°	1506.3	1484.6	1487.2	1482.6	1474.7
5°	1504.3	1481.3	1483.9	1476.0	1476.7
7.5°	1499.1	1475.4	1478.6	1477.3	1480.6
10°	1493.1	1468.1	1480.6	1491.8	1501.7
12.5°	1482.6	1460.2	1490.5	1523.4	1543.9
15°	1472.7	1453.0	1509.6	1565.6	1584.7
17.5°	1462.8	1450.3	1533.3	1582.1	1579.4
20°	1450.3	1449.0	1551.1	1534.6	1494.5
22.5°	1436.5	1449.7	1537.3	1416.7	1337.7
25°	1420.7	1448.3	1476.0	1249.4	1147.4
27.5°	1404.9	1442.4	1364.7	1066.3	965.6
30°	1389.1	1426.6	1214.5	899.0	807.5
32.5°	1370.6	1392.4	1051.2	750.8	666.5
35°	1351.5	1329.8	896.4	617.1	536.8
37.5°	1331.8	1239.6	757.4	499.9	448.5
40°	1308.1	1126.3	629.7	428.8	442.6
42.5°	1278.4	998.5	517.0	449.9	546.0
45°	1240.9	865.5	437.3	557.9	671.8
47.5°	1193.5	737.7	417.6	638.9	674.4
50°	1136.2	620.4	459.1	612.5	609.9
52.5°	1049.2	523.0	501.2	558.5	579.6
55°	954.4	443.9	495.3	532.8	570.4
57.5°	834.5	390.6	454.5	527.6	571.0
60°	715.3	355.0	419.6	526.9	567.7
62.5°	583.6	322.7	401.8	514.4	538.8
65°	460.4	287.8	386.0	469.0	480.1
67.5°	353.0	252.3	358.3	418.2	440.6
70°	266.1	217.4	314.8	379.4	407.0
72.5°	191.7	184.4	270.0	345.1	374.1
75°	135.7	153.5	231.2	306.3	326.7
77.5°	93.5	125.1	198.3	263.5	279.9
80°	61.3	100.1	168.6	226.6	237.8
82.5°	36.9	80.4	146.2	198.3	204.2
85°	19.1	65.2	131.1	178.5	181.1
87.5°	5.9	54.7	122.5	169.3	172.6
90°	0.7	48.7	117.2	139.0	128.4
92.5°	0.0	46.1	101.4	94.8	85.0
95°	0.0	45.4	81.0	71.8	67.8
97.5°	0.0	44.1	66.5	59.9	58.0
100°	0.0	42.8	57.3	52.7	52.0
102.5°	0.0	42.2	52.0	48.1	47.4
105°	0.0	40.8	50.1	45.4	44.8
107.5°	0.0	38.9	48.7	44.1	42.8
110°	0.0	36.9	48.7	43.5	41.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.9	48.7	42.8	40.8
115°	0.0	33.6	48.1	42.8	40.8
117.5°	0.7	32.3	47.4	42.8	40.8
120°	0.0	31.0	46.1	42.8	40.2
122.5°	0.7	29.0	44.8	42.2	40.2
125°	0.7	27.0	42.8	41.5	39.5
127.5°	0.7	25.0	40.8	40.2	38.2
130°	0.7	23.1	38.9	39.5	37.5
132.5°	0.7	21.1	36.2	38.2	36.9
135°	0.7	19.1	34.2	37.5	36.2
137.5°	0.7	17.1	31.6	35.6	35.6
140°	0.7	15.1	29.0	34.2	34.9
142.5°	0.7	13.8	26.3	32.9	33.6
145°	0.7	11.9	23.7	30.3	32.3
147.5°	0.7	10.5	21.1	27.7	30.3
150°	0.7	9.2	18.4	25.0	27.7
152.5°	0.7	7.9	16.5	21.7	25.7
155°	1.3	7.2	14.5	19.1	23.1
157.5°	1.3	5.9	11.9	16.5	19.8
160°	1.3	5.3	10.5	13.8	17.8
162.5°	1.3	4.6	8.6	11.9	15.1
165°	1.3	4.0	7.2	9.2	12.5
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)