

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-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 (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-L950-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

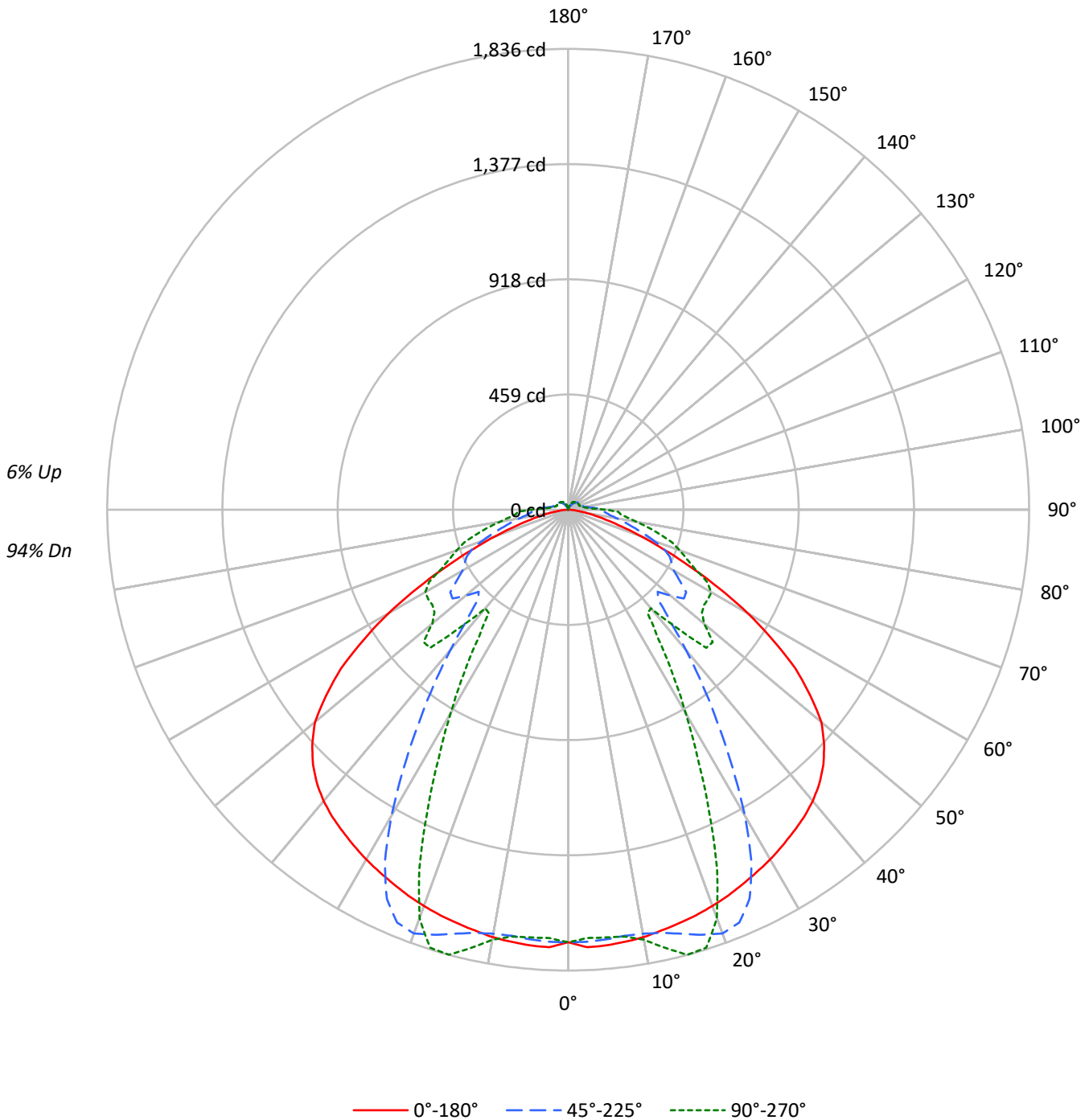
Lumens per Lamp: N/A  
Luminaire Lumens: 4427.0 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

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-L950-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L950-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°	27854	27854	27854
5°	28116	27150	26867
10°	28074	26688	26774
15°	28072	27016	27905
20°	28250	27771	26193
25°	28515	26642	20169
30°	28982	22273	14346
35°	29593	16836	9715
40°	30373	12214	8226
45°	30919	8842	12932
50°	30795	9765	12272
55°	28595	11209	12120
60°	24165	10226	12881
65°	17984	10275	11784
70°	12430	9312	10968
75°	7960	7758	9842
80°	4872	6596	8192
85°	2390	6202	7354



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L950-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.0	3.7
10°-20°	495.1	11.2
20°-30°	719.3	16.2
30°-40°	687.2	15.5
40°-50°	628.6	14.2
50°-60°	580.4	13.1
60°-70°	461.1	10.4
70°-80°	284.6	6.4
80°-90°	155.0	3.5
90°-100°	78.3	1.8
100°-110°	49.2	1.1
110°-120°	41.7	0.9
120°-130°	34.1	0.8
130°-140°	24.4	0.6
140°-150°	15.1	0.3
150°-160°	7.2	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1378.4	31.1
0°-40°	2065.6	46.7
0°-60°	3274.7	74.0
0°-90°	4175.2	94.3
90°-120°	169.2	3.8
90°-150°	242.8	5.5
90°-180°	252.0	5.7
0°-180°	4427.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1742	1716	1719	1710	1710	166
15°	1706	1683	1749	1813	1836	483
25°	1646	1678	1710	1447	1329	761
35°	1566	1540	1038	715	622	982
45°	1437	1002	507	646	778	1105
55°	1105	514	574	617	661	974
65°	533	333	447	543	556	539
75°	157	178	268	355	378	178
85°	22	76	152	207	210	28
90°	1	56	136	161	149	1
95°	0	53	94	83	79	0
105°	0	47	58	53	52	0
115°	0	39	56	50	47	0
125°	1	31	50	48	46	1
135°	1	22	40	44	42	1
145°	1	14	28	35	37	1
155°	2	8	17	22	27	1
165°	2	5	8	11	14	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-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1723.4	1723.4	1723.4	1723.4	1723.4
2.5°	1744.7	1719.6	1722.6	1717.3	1708.1
5°	1742.5	1715.8	1718.8	1709.7	1710.4
7.5°	1736.4	1708.9	1712.7	1711.2	1715.0
10°	1729.5	1700.5	1715.0	1728.0	1739.4
12.5°	1717.3	1691.3	1726.4	1764.6	1788.2
15°	1705.8	1683.0	1748.6	1813.4	1835.5
17.5°	1694.4	1679.9	1776.0	1832.5	1829.4
20°	1679.9	1678.4	1796.6	1777.6	1731.0
22.5°	1663.9	1679.1	1780.6	1641.0	1549.4
25°	1645.6	1677.6	1709.7	1447.2	1329.0
27.5°	1627.3	1670.7	1580.7	1235.1	1118.4
30°	1609.0	1652.4	1406.8	1041.4	935.3
32.5°	1587.6	1612.8	1217.6	869.7	772.1
35°	1565.5	1540.3	1038.3	714.8	621.8
37.5°	1542.6	1435.8	877.3	579.0	519.5
40°	1515.1	1304.6	729.3	496.6	512.7
42.5°	1480.8	1156.6	598.9	521.1	632.4
45°	1437.3	1002.4	506.6	646.2	778.2
47.5°	1382.4	854.4	483.7	740.0	781.2
50°	1316.0	718.7	531.7	709.5	706.4
52.5°	1215.3	605.7	580.6	646.9	671.4
55°	1105.4	514.2	573.7	617.2	660.7
57.5°	966.6	452.4	526.4	611.1	661.4
60°	828.5	411.2	486.0	610.3	657.6
62.5°	675.9	373.8	465.4	595.8	624.1
65°	533.3	333.4	447.1	543.2	556.2
67.5°	408.9	292.2	415.0	484.4	510.4
70°	308.2	251.8	364.7	439.4	471.5
72.5°	222.0	213.6	312.8	399.8	433.3
75°	157.2	177.8	267.8	354.7	378.4
77.5°	108.3	145.0	229.6	305.2	324.2
80°	70.9	116.0	195.3	262.4	275.4
82.5°	42.7	93.1	169.4	229.6	236.5
85°	22.1	75.5	151.8	206.7	209.8
87.5°	6.9	63.3	141.9	196.1	199.9
90°	0.8	56.5	135.8	161.0	148.8
92.5°	0.0	53.4	117.5	109.9	98.4
95°	0.0	52.6	93.8	83.2	78.6
97.5°	0.0	51.1	77.1	69.4	67.1
100°	0.0	49.6	66.4	61.0	60.3
102.5°	0.0	48.8	60.3	55.7	54.9
105°	0.0	47.3	58.0	52.6	51.9
107.5°	0.0	45.0	56.5	51.1	49.6
110°	0.0	42.7	56.5	50.4	48.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	40.4	56.5	49.6	47.3
115°	0.0	38.9	55.7	49.6	47.3
117.5°	0.8	37.4	54.9	49.6	47.3
120°	0.0	35.9	53.4	49.6	46.5
122.5°	0.8	33.6	51.9	48.8	46.5
125°	0.8	31.3	49.6	48.1	45.8
127.5°	0.8	29.0	47.3	46.5	44.2
130°	0.8	26.7	45.0	45.8	43.5
132.5°	0.8	24.4	42.0	44.2	42.7
135°	0.8	22.1	39.7	43.5	42.0
137.5°	0.8	19.8	36.6	41.2	41.2
140°	0.8	17.5	33.6	39.7	40.4
142.5°	0.8	16.0	30.5	38.1	38.9
145°	0.8	13.7	27.5	35.1	37.4
147.5°	0.8	12.2	24.4	32.0	35.1
150°	0.8	10.7	21.4	29.0	32.0
152.5°	0.8	9.2	19.1	25.2	29.8
155°	1.5	8.4	16.8	22.1	26.7
157.5°	1.5	6.9	13.7	19.1	22.9
160°	1.5	6.1	12.2	16.0	20.6
162.5°	1.5	5.3	9.9	13.7	17.5
165°	1.5	4.6	8.4	10.7	14.5
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)