

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-LD5-50HL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-50HL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

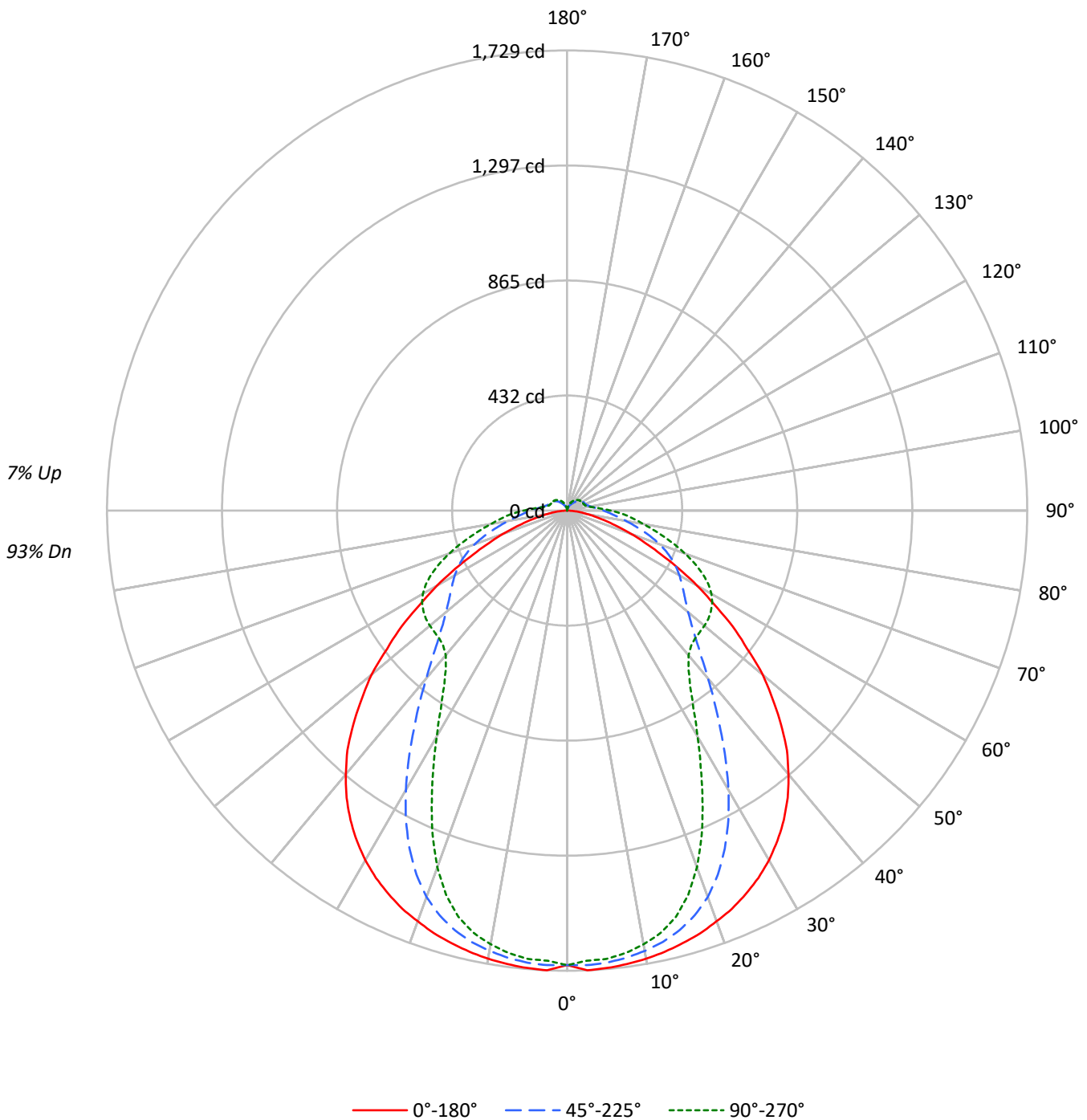
Lumens per Lamp: N/A
Luminaire Lumens: 4294.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
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: 4SNLED-LD5-50HL-SLN-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50HL-SLN-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	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°	13798	13798	13798
5°	13957	13493	13282
10°	13952	13120	12736
15°	13957	12681	12009
20°	13964	12028	10785
25°	13969	11021	9133
30°	13903	9698	7512
35°	13704	8250	6296
40°	13303	6988	5691
45°	12598	6073	5648
50°	11638	5552	5846
55°	10249	5336	6051
60°	8647	5260	6134
65°	6955	5143	5943
70°	5588	4877	5481
75°	4211	4414	4864
80°	3111	3964	4327
85°	2077	3740	3980



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50HL-SLN-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.8
10°-20°	456.6	10.6
20°-30°	638.3	14.9
30°-40°	662.1	15.4
40°-50°	611.6	14.2
50°-60°	546.1	12.7
60°-70°	442.6	10.3
70°-80°	294.4	6.9
80°-90°	168.6	3.9
90°-100°	93.2	2.2
100°-110°	63.1	1.5
110°-120°	52.6	1.2
120°-130°	42.7	1.0
130°-140°	30.8	0.7
140°-150°	18.6	0.4
150°-160°	8.9	0.2
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-30°	1256.4	29.3
0°-40°	1918.5	44.7
0°-60°	3076.1	71.6
0°-90°	3981.6	92.7
90°-120°	208.9	4.9
90°-150°	301.1	7.0
90°-180°	312.0	7.3
0°-180°	4294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1725	1696	1705	1693	1691	164
15°	1682	1647	1632	1595	1580	475
25°	1590	1519	1402	1255	1204	732
35°	1420	1264	1005	844	806	886
45°	1137	901	684	660	680	874
55°	760	574	534	621	660	676
65°	388	347	435	533	561	392
75°	151	188	293	359	374	165
85°	30	88	173	221	227	35
90°	2	62	136	165	163	2
95°	2	52	108	116	112	1
105°	1	45	78	76	72	1
115°	1	41	69	68	66	1
125°	1	35	61	64	62	1
135°	2	26	48	56	56	1
145°	2	16	33	44	47	1
155°	2	10	21	28	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-LD5-50HL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.5	1707.5	1707.5	1707.5	1707.5
2.5°	1729.0	1700.8	1709.7	1702.3	1692.6
5°	1725.3	1696.3	1705.2	1693.4	1691.1
7.5°	1718.6	1689.7	1694.9	1680.8	1677.0
10°	1709.7	1679.3	1680.0	1660.0	1654.8
12.5°	1697.8	1664.4	1660.0	1632.5	1625.1
15°	1682.2	1646.6	1632.5	1595.4	1579.8
17.5°	1665.2	1623.6	1594.7	1537.5	1513.0
20°	1642.2	1595.4	1545.0	1458.1	1425.5
22.5°	1619.2	1561.3	1480.4	1364.6	1320.9
25°	1589.5	1519.0	1401.7	1254.8	1203.6
27.5°	1556.1	1469.3	1311.2	1142.0	1087.1
30°	1516.8	1409.2	1211.8	1031.5	979.5
32.5°	1470.8	1341.6	1107.1	932.0	883.8
35°	1419.5	1263.7	1004.7	843.7	805.9
37.5°	1360.9	1178.4	909.8	772.5	748.0
40°	1294.1	1085.6	822.2	717.6	709.4
42.5°	1222.2	995.1	747.2	681.9	689.4
45°	1136.8	900.9	684.2	659.7	679.7
47.5°	1047.0	808.8	633.0	647.1	676.0
50°	960.2	723.5	592.9	638.9	673.0
52.5°	852.6	647.1	561.0	631.5	668.6
55°	759.9	574.3	534.3	621.1	659.7
57.5°	653.0	509.0	510.5	607.7	646.3
60°	564.0	449.7	487.5	589.2	626.3
62.5°	473.4	396.3	462.3	564.7	598.1
65°	388.1	347.3	434.8	532.8	561.0
67.5°	316.9	302.8	403.7	494.2	518.0
70°	256.8	261.9	369.5	451.2	471.2
72.5°	197.4	224.1	332.4	405.2	422.2
75°	150.6	188.5	293.1	359.2	374.0
77.5°	111.3	157.3	257.5	317.6	330.2
80°	78.7	129.9	224.1	281.2	290.9
82.5°	52.7	106.9	196.6	248.6	257.5
85°	30.4	87.6	172.9	221.1	227.1
87.5°	12.6	72.7	153.6	192.9	195.9
90°	1.5	61.6	136.5	164.7	163.3
92.5°	1.5	55.7	121.7	138.0	134.3
95°	1.5	51.9	108.3	115.8	112.1
97.5°	1.5	49.7	96.5	99.4	95.7
100°	0.7	48.2	88.3	88.3	84.6
102.5°	0.7	46.7	82.4	80.1	77.2
105°	0.7	45.3	77.9	75.7	72.0
107.5°	0.7	44.5	74.9	72.7	69.0
110°	0.7	43.0	72.7	70.5	67.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50HL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	42.3	71.2	69.8	66.0
115°	0.7	40.8	69.0	68.3	66.0
117.5°	0.7	39.3	67.5	67.5	65.3
120°	0.7	37.8	65.3	66.8	64.6
122.5°	0.7	36.4	63.1	65.3	63.1
125°	0.7	34.9	60.8	63.8	62.3
127.5°	1.5	32.7	57.9	62.3	60.8
130°	0.7	30.4	54.9	60.8	60.1
132.5°	1.5	28.2	51.9	58.6	58.6
135°	1.5	26.0	48.2	56.4	56.4
137.5°	1.5	23.0	44.5	53.4	54.2
140°	1.5	20.8	40.8	50.5	51.9
142.5°	1.5	18.6	37.1	47.5	49.7
145°	1.5	16.3	33.4	43.8	46.7
147.5°	1.5	14.8	29.7	39.3	43.8
150°	1.5	12.6	26.7	35.6	40.1
152.5°	1.5	11.1	23.7	31.9	37.1
155°	1.5	10.4	20.8	27.5	33.4
157.5°	1.5	8.9	17.8	23.7	29.7
160°	1.5	7.4	14.8	20.8	25.2
162.5°	1.5	6.7	12.6	17.1	22.3
165°	1.5	5.9	10.4	13.4	17.8
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)