

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-LD5-30SL-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: 4SNLED-LD5-30SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

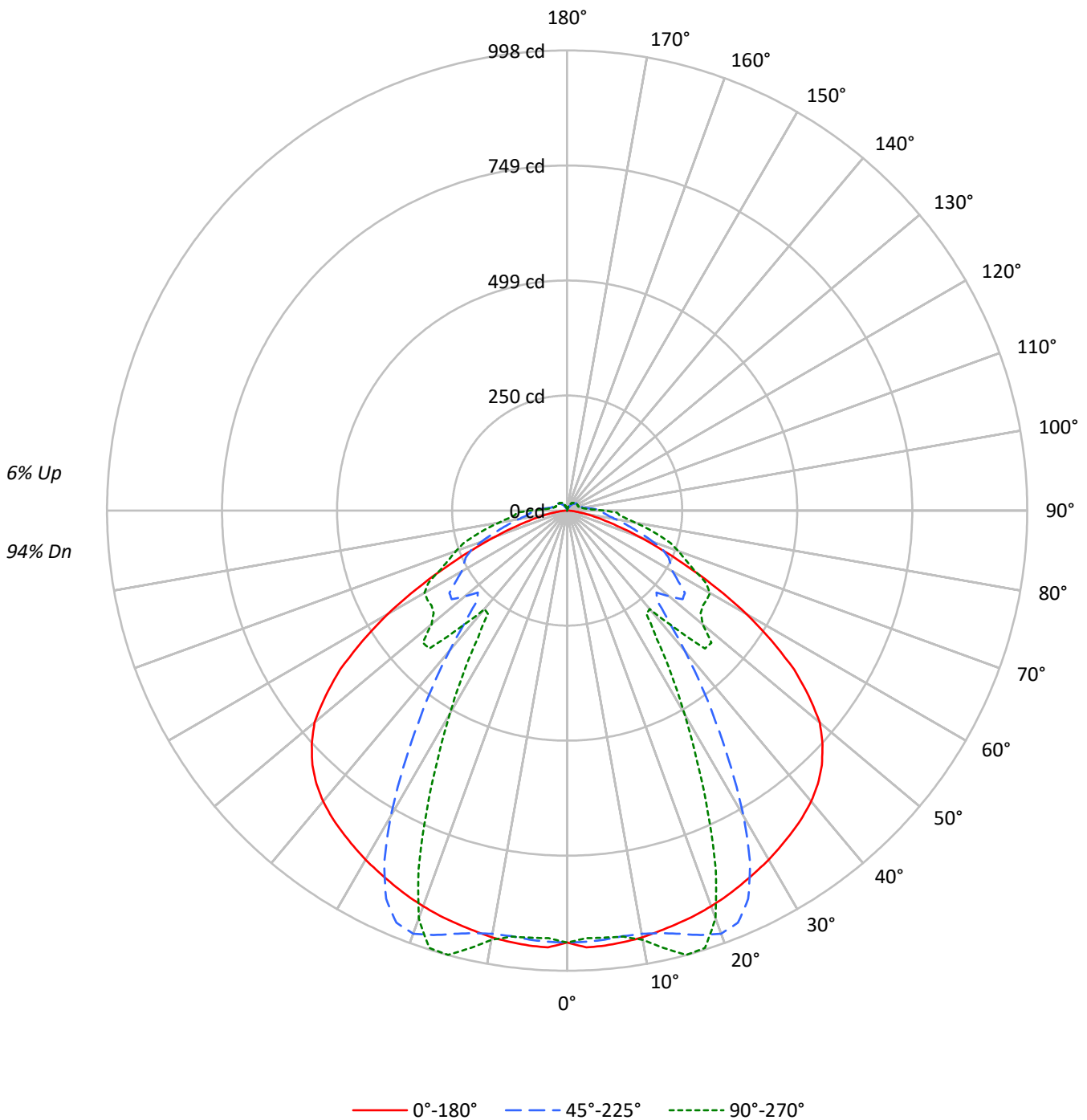
Lumens per Lamp: N/A
Luminaire Lumens: 2406.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): 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-LD5-30SL-SLC-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-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°	7569	7569	7569
5°	7661	7391	7301
10°	7670	7279	7275
15°	7692	7382	7583
20°	7763	7601	7118
25°	7859	7306	5481
30°	8015	6119	3898
35°	8214	4634	2640
40°	8464	3369	2235
45°	8656	2444	3514
50°	8669	2706	3335
55°	8103	3114	3294
60°	6904	2849	3500
65°	5193	2874	3202
70°	3645	2616	2980
75°	2388	2191	2675
80°	1526	1877	2227
85°	820	1785	1998



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLC-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.7
10°-20°	269.1	11.2
20°-30°	390.9	16.2
30°-40°	373.5	15.5
40°-50°	341.7	14.2
50°-60°	315.5	13.1
60°-70°	250.6	10.4
70°-80°	154.7	6.4
80°-90°	84.2	3.5
90°-100°	42.6	1.8
100°-110°	26.8	1.1
110°-120°	22.7	0.9
120°-130°	18.5	0.8
130°-140°	13.3	0.6
140°-150°	8.2	0.3
150°-160°	3.9	0.2
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	749.1	31.1
0°-40°	1122.6	46.7
0°-60°	1779.7	74.0
0°-90°	2269.2	94.3
90°-120°	92.0	3.8
90°-150°	132.0	5.5
90°-180°	137.0	5.7
0°-180°	2406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	947	932	934	929	930	90
15°	927	915	950	986	998	262
25°	894	912	929	786	722	413
35°	851	837	564	388	338	533
45°	781	545	275	351	423	600
55°	601	280	312	335	359	529
65°	290	181	243	295	302	293
75°	85	97	146	193	206	97
85°	12	41	82	112	114	15
90°	0	31	74	88	81	1
95°	0	29	51	45	43	0
105°	0	26	32	29	28	0
115°	0	21	30	27	26	0
125°	0	17	27	26	25	0
135°	0	12	22	24	23	0
145°	0	8	15	19	20	0
155°	1	5	9	12	14	0
165°	1	2	5	6	8	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.6	936.6	936.6	936.6	936.6
2.5°	948.2	934.6	936.2	933.3	928.3
5°	947.0	932.5	934.1	929.2	929.6
7.5°	943.7	928.8	930.8	930.0	932.1
10°	939.9	924.2	932.1	939.1	945.3
12.5°	933.3	919.2	938.3	959.0	971.9
15°	927.1	914.7	950.3	985.6	997.6
17.5°	920.9	913.0	965.2	995.9	994.3
20°	913.0	912.2	976.4	966.1	940.8
22.5°	904.3	912.6	967.7	891.9	842.1
25°	894.3	911.8	929.2	786.5	722.3
27.5°	884.4	908.0	859.1	671.3	607.8
30°	874.4	898.1	764.6	566.0	508.3
32.5°	862.8	876.5	661.7	472.7	419.6
35°	850.8	837.1	564.3	388.5	337.9
37.5°	838.4	780.3	476.8	314.7	282.4
40°	823.4	709.0	396.4	269.9	278.6
42.5°	804.8	628.6	325.5	283.2	343.7
45°	781.1	544.8	275.3	351.2	422.9
47.5°	751.3	464.4	262.9	402.2	424.6
50°	715.2	390.6	289.0	385.6	383.9
52.5°	660.5	329.2	315.5	351.6	364.9
55°	600.8	279.5	311.8	335.4	359.1
57.5°	525.3	245.9	286.1	332.1	359.5
60°	450.3	223.5	264.1	331.7	357.4
62.5°	367.4	203.2	252.9	323.8	339.2
65°	289.8	181.2	243.0	295.2	302.3
67.5°	222.2	158.8	225.6	263.3	277.4
70°	167.5	136.8	198.2	238.8	256.2
72.5°	120.7	116.1	170.0	217.3	235.5
75°	85.4	96.6	145.5	192.8	205.7
77.5°	58.9	78.8	124.8	165.8	176.2
80°	38.6	63.0	106.1	142.6	149.7
82.5°	23.2	50.6	92.0	124.8	128.5
85°	12.0	41.0	82.5	112.4	114.0
87.5°	3.7	34.4	77.1	106.6	108.6
90°	0.4	30.7	73.8	87.5	80.9
92.5°	0.0	29.0	63.9	59.7	53.5
95°	0.0	28.6	51.0	45.2	42.7
97.5°	0.0	27.8	41.9	37.7	36.5
100°	0.0	27.0	36.1	33.2	32.8
102.5°	0.0	26.5	32.8	30.3	29.9
105°	0.0	25.7	31.5	28.6	28.2
107.5°	0.0	24.5	30.7	27.8	27.0
110°	0.0	23.2	30.7	27.4	26.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.0	30.7	27.0	25.7
115°	0.0	21.1	30.3	27.0	25.7
117.5°	0.4	20.3	29.9	27.0	25.7
120°	0.0	19.5	29.0	27.0	25.3
122.5°	0.4	18.2	28.2	26.5	25.3
125°	0.4	17.0	27.0	26.1	24.9
127.5°	0.4	15.8	25.7	25.3	24.0
130°	0.4	14.5	24.5	24.9	23.6
132.5°	0.4	13.3	22.8	24.0	23.2
135°	0.4	12.0	21.6	23.6	22.8
137.5°	0.4	10.8	19.9	22.4	22.4
140°	0.4	9.5	18.2	21.6	22.0
142.5°	0.4	8.7	16.6	20.7	21.1
145°	0.4	7.5	14.9	19.1	20.3
147.5°	0.4	6.6	13.3	17.4	19.1
150°	0.4	5.8	11.6	15.8	17.4
152.5°	0.4	5.0	10.4	13.7	16.2
155°	0.8	4.6	9.1	12.0	14.5
157.5°	0.8	3.7	7.5	10.4	12.4
160°	0.8	3.3	6.6	8.7	11.2
162.5°	0.8	2.9	5.4	7.5	9.5
165°	0.8	2.5	4.6	5.8	7.9
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)