

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: **8SNLED-LD5-83SL-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: 8SNLED-LD5-83SL-SLN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

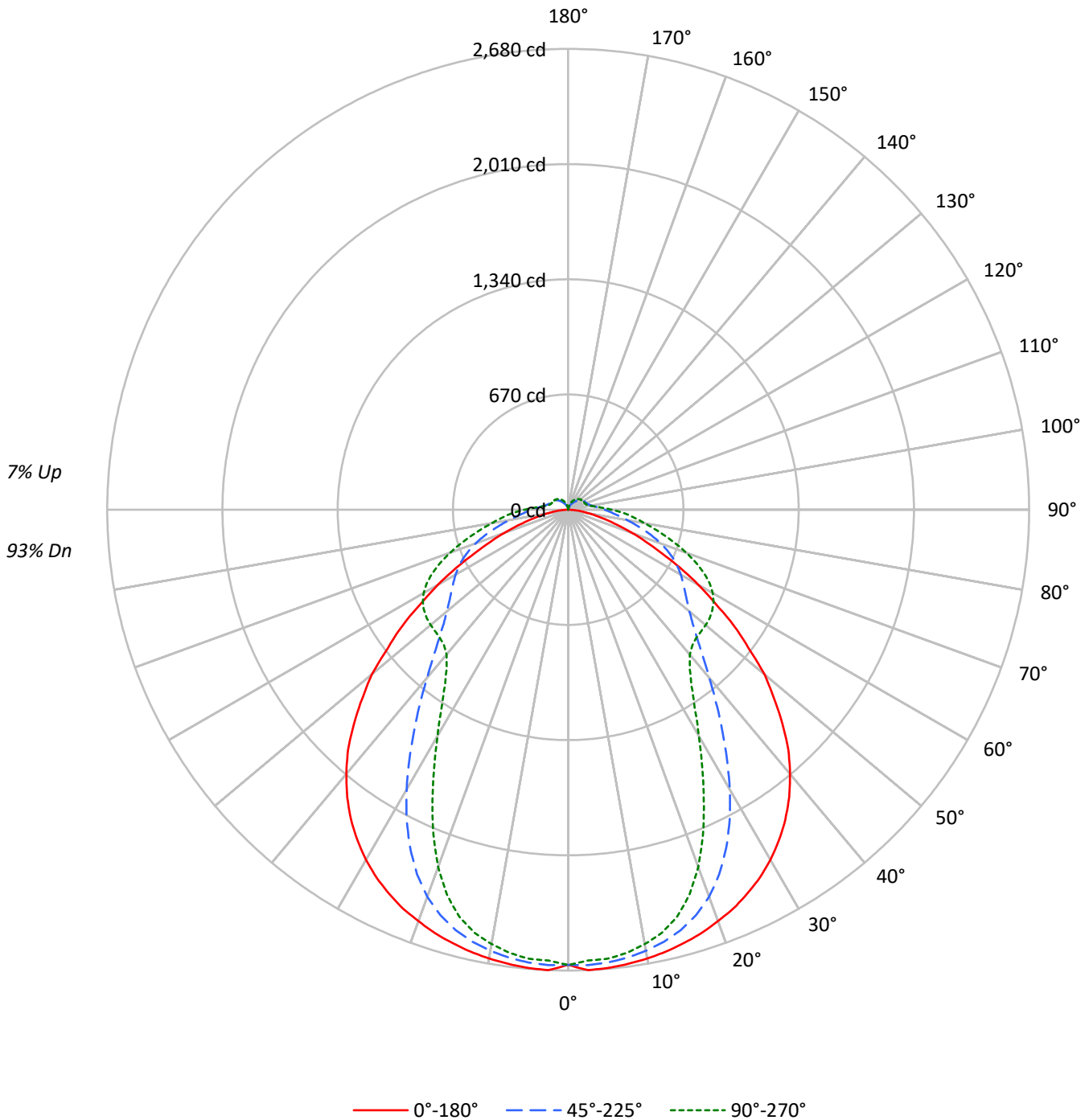
Lumens per Lamp: N/A
Luminaire Lumens: 6657.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
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: 8SNLED-LD5-83SL-SLN-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-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°	10696	10696	10696
5°	10834	10469	10296
10°	10845	10189	9872
15°	10864	9857	9309
20°	10885	9357	8360
25°	10906	8582	7080
30°	10873	7558	5823
35°	10738	6437	4880
40°	10445	5457	4411
45°	9916	4748	4378
50°	9186	4346	4532
55°	8117	4183	4690
60°	6879	4130	4755
65°	5566	4046	4607
70°	4508	3846	4248
75°	3444	3491	3770
80°	2606	3148	3354
85°	1857	2987	3084



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLN-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	3.8
10°-20°	707.9	10.6
20°-30°	989.5	14.9
30°-40°	1026.4	15.4
40°-50°	948.2	14.2
50°-60°	846.6	12.7
60°-70°	686.1	10.3
70°-80°	456.3	6.9
80°-90°	261.3	3.9
90°-100°	144.6	2.2
100°-110°	97.9	1.5
110°-120°	81.5	1.2
120°-130°	66.3	1.0
130°-140°	47.8	0.7
140°-150°	28.8	0.4
150°-160°	13.9	0.2
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-30°	1947.8	29.3
0°-40°	2974.2	44.7
0°-60°	4769.0	71.6
0°-90°	6172.7	92.7
90°-120°	324.0	4.9
90°-150°	466.9	7.0
90°-180°	484.0	7.3
0°-180°	6657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2675	2630	2644	2625	2622	254
15°	2608	2553	2531	2473	2449	737
25°	2464	2355	2173	1945	1866	1135
35°	2201	1959	1558	1308	1249	1373
45°	1762	1397	1061	1023	1054	1355
55°	1178	890	828	963	1023	1047
65°	602	538	674	826	870	608
75°	234	292	454	557	580	256
85°	47	136	268	343	352	54
90°	2	96	212	255	253	4
95°	2	80	168	180	174	2
105°	1	70	121	117	112	1
115°	1	63	107	106	102	1
125°	1	54	94	99	97	1
135°	2	40	75	87	87	2
145°	2	25	52	68	72	1
155°	2	16	32	43	52	1
165°	2	9	16	21	28	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.1	2647.1	2647.1	2647.1	2647.1
2.5°	2680.5	2636.7	2650.5	2639.0	2624.1
5°	2674.7	2629.8	2643.6	2625.2	2621.8
7.5°	2664.3	2619.5	2627.5	2605.7	2599.9
10°	2650.5	2603.4	2604.5	2573.5	2565.4
12.5°	2632.1	2580.4	2573.5	2530.9	2519.4
15°	2608.0	2552.8	2530.9	2473.4	2449.2
17.5°	2581.5	2517.1	2472.2	2383.6	2345.7
20°	2545.9	2473.4	2395.2	2260.6	2209.9
22.5°	2510.2	2420.5	2295.1	2115.6	2047.7
25°	2464.2	2354.9	2173.1	1945.3	1866.0
27.5°	2412.4	2277.8	2032.8	1770.5	1685.3
30°	2351.4	2184.6	1878.6	1599.1	1518.5
32.5°	2280.1	2079.9	1716.4	1444.9	1370.1
35°	2200.7	1959.1	1557.7	1308.0	1249.3
37.5°	2109.8	1826.8	1410.4	1197.6	1159.6
40°	2006.3	1683.0	1274.7	1112.4	1099.8
42.5°	1894.7	1542.7	1158.5	1057.2	1068.7
45°	1762.4	1396.6	1060.7	1022.7	1053.8
47.5°	1623.2	1253.9	981.3	1003.2	1048.0
50°	1488.6	1121.6	919.2	990.5	1043.4
52.5°	1321.8	1003.2	869.7	979.0	1036.5
55°	1178.0	890.4	828.3	962.9	1022.7
57.5°	1012.4	789.2	791.5	942.2	1002.0
60°	874.3	697.1	755.8	913.4	970.9
62.5°	734.0	614.3	716.7	875.5	927.2
65°	601.7	538.4	674.1	826.0	869.7
67.5°	491.2	469.4	625.8	766.2	803.0
70°	398.0	406.1	572.9	699.4	730.5
72.5°	306.0	347.4	515.4	628.1	654.6
75°	233.5	292.2	454.4	556.8	579.8
77.5°	172.6	243.9	399.2	492.4	511.9
80°	121.9	201.3	347.4	436.0	451.0
82.5°	81.7	165.7	304.9	385.4	399.2
85°	47.2	135.7	268.0	342.8	352.0
87.5°	19.6	112.7	238.1	299.1	303.7
90°	2.3	95.5	211.7	255.4	253.1
92.5°	2.3	86.3	188.7	214.0	208.2
95°	2.3	80.5	168.0	179.5	173.7
97.5°	2.3	77.1	149.6	154.2	148.4
100°	1.2	74.8	136.9	136.9	131.1
102.5°	1.2	72.5	127.7	124.2	119.6
105°	1.2	70.2	120.8	117.3	111.6
107.5°	1.2	69.0	116.2	112.7	107.0
110°	1.2	66.7	112.7	109.3	104.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	65.6	110.4	108.1	102.4
115°	1.2	63.3	107.0	105.8	102.4
117.5°	1.2	61.0	104.7	104.7	101.2
120°	1.2	58.7	101.2	103.5	100.1
122.5°	1.2	56.4	97.8	101.2	97.8
125°	1.2	54.1	94.3	98.9	96.6
127.5°	2.3	50.6	89.7	96.6	94.3
130°	1.2	47.2	85.1	94.3	93.2
132.5°	2.3	43.7	80.5	90.9	90.9
135°	2.3	40.3	74.8	87.4	87.4
137.5°	2.3	35.7	69.0	82.8	84.0
140°	2.3	32.2	63.3	78.2	80.5
142.5°	2.3	28.8	57.5	73.6	77.1
145°	2.3	25.3	51.8	67.9	72.5
147.5°	2.3	23.0	46.0	61.0	67.9
150°	2.3	19.6	41.4	55.2	62.1
152.5°	2.3	17.3	36.8	49.5	57.5
155°	2.3	16.1	32.2	42.6	51.8
157.5°	2.3	13.8	27.6	36.8	46.0
160°	2.3	11.5	23.0	32.2	39.1
162.5°	2.3	10.4	19.6	26.5	34.5
165°	2.3	9.2	16.1	20.7	27.6
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)