

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-LD5-68SL-SLC-UNV-L850-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: 8SNLED-LD5-68SL-SLC-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

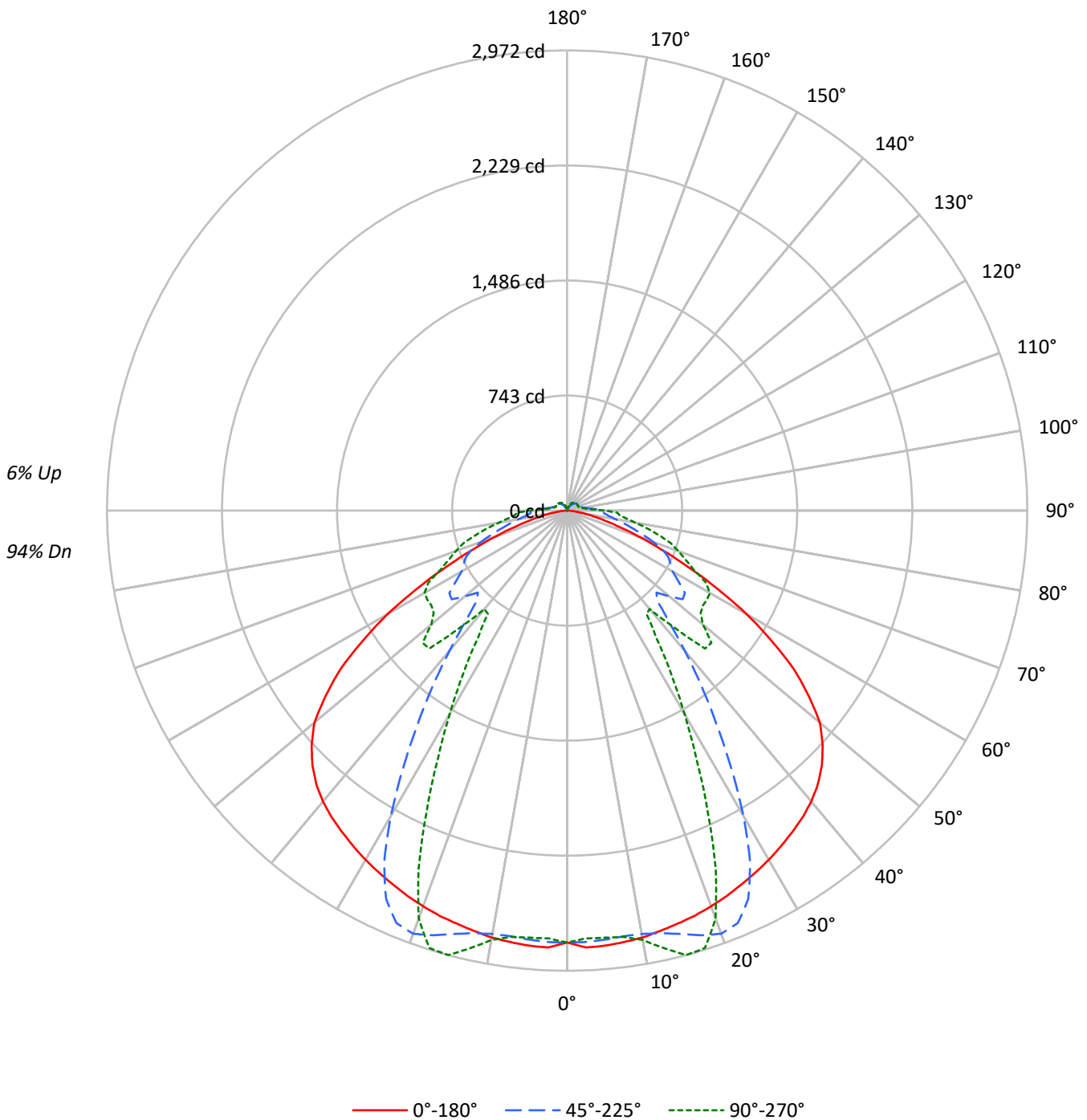
Lumens per Lamp: N/A
Luminaire Lumens: 7167.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 50
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



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Luminous Intensity Polar Plot





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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°	11273	11273	11273
5°	11426	11020	10874
10°	11456	10862	10836
15°	11504	11025	11294
20°	11628	11363	10601
25°	11791	10930	8163
30°	12044	9163	5806
35°	12366	6946	3932
40°	12770	5055	3329
45°	13092	3671	5234
50°	13147	4070	4967
55°	12332	4691	4905
60°	10553	4299	5213
65°	7986	4344	4769
70°	5652	3964	4439
75°	3753	3331	3983
80°	2456	2865	3316
85°	1408	2739	2976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	3.7
10°-20°	801.6	11.2
20°-30°	1164.5	16.2
30°-40°	1112.6	15.5
40°-50°	1017.7	14.2
50°-60°	939.7	13.1
60°-70°	746.4	10.4
70°-80°	460.7	6.4
80°-90°	250.9	3.5
90°-100°	126.8	1.8
100°-110°	79.7	1.1
110°-120°	67.5	0.9
120°-130°	55.1	0.8
130°-140°	39.5	0.6
140°-150°	24.4	0.3
150°-160°	11.6	0.2
160°-170°	3.0	0.0
170°-180°	0.0	0.0
0°-30°	2231.5	31.1
0°-40°	3344.1	46.7
0°-60°	5301.4	74.0
0°-90°	6759.4	94.3
90°-120°	274.0	3.8
90°-150°	393.0	5.5
90°-180°	408.0	5.7
0°-180°	7167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2790	2790	2790	2790	2790	
5°	2821	2778	2783	2768	2769	268
15°	2762	2725	2831	2936	2972	782
25°	2664	2716	2768	2343	2152	1231
35°	2534	2494	1681	1157	1007	1589
45°	2327	1623	820	1046	1260	1788
55°	1790	832	929	999	1070	1576
65°	863	540	724	879	900	873
75°	254	288	434	574	613	288
85°	36	122	246	335	340	46
90°	1	91	220	261	241	2
95°	0	85	152	135	127	0
105°	0	77	94	85	84	0
115°	0	63	90	80	77	1
125°	1	51	80	78	74	1
135°	1	36	64	70	68	1
145°	1	22	44	57	60	1
155°	2	14	27	36	43	1
165°	2	7	14	17	24	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2790.0	2790.0	2790.0	2790.0	2790.0
2.5°	2824.6	2783.9	2788.8	2780.2	2765.3
5°	2820.9	2777.7	2782.6	2767.8	2769.0
7.5°	2811.0	2766.6	2772.8	2770.3	2776.5
10°	2799.9	2753.0	2776.5	2797.5	2816.0
12.5°	2780.2	2738.2	2795.0	2856.7	2895.0
15°	2761.6	2724.6	2830.8	2935.8	2971.6
17.5°	2743.1	2719.6	2875.3	2966.7	2961.7
20°	2719.6	2717.2	2908.6	2877.7	2802.4
22.5°	2693.7	2718.4	2882.7	2656.7	2508.4
25°	2664.1	2715.9	2767.8	2342.9	2151.5
27.5°	2634.4	2704.8	2559.1	1999.6	1810.6
30°	2604.8	2675.2	2277.5	1685.9	1514.2
32.5°	2570.2	2611.0	1971.2	1408.0	1249.9
35°	2534.4	2493.6	1680.9	1157.3	1006.6
37.5°	2497.3	2324.4	1420.3	937.4	841.1
40°	2452.9	2112.0	1180.7	804.0	830.0
42.5°	2397.3	1872.4	969.5	843.6	1023.9
45°	2326.9	1622.9	820.1	1046.1	1259.8
47.5°	2238.0	1383.3	783.0	1198.0	1264.7
50°	2130.5	1163.4	860.9	1148.6	1143.7
52.5°	1967.5	980.7	939.9	1047.3	1086.9
55°	1789.6	832.4	928.8	999.2	1069.6
57.5°	1564.8	732.4	852.2	989.3	1070.8
60°	1341.3	665.7	786.7	988.1	1064.6
62.5°	1094.3	605.2	753.4	964.6	1010.3
65°	863.3	539.7	723.8	879.4	900.4
67.5°	662.0	473.0	671.9	784.3	826.3
70°	499.0	407.6	590.4	711.4	763.3
72.5°	359.4	345.8	506.4	647.2	701.5
75°	254.4	287.8	433.5	574.3	612.6
77.5°	175.4	234.7	371.8	494.0	524.9
80°	114.9	187.7	316.2	424.9	445.9
82.5°	69.2	150.7	274.2	371.8	382.9
85°	35.8	122.3	245.8	334.7	339.6
87.5°	11.1	102.5	229.7	317.4	323.6
90°	1.2	91.4	219.8	260.6	240.8
92.5°	0.0	86.5	190.2	177.9	159.3
95°	0.0	85.2	151.9	134.6	127.2
97.5°	0.0	82.8	124.7	112.4	108.7
100°	0.0	80.3	107.5	98.8	97.6
102.5°	0.0	79.0	97.6	90.2	88.9
105°	0.0	76.6	93.9	85.2	84.0
107.5°	0.0	72.9	91.4	82.8	80.3
110°	0.0	69.2	91.4	81.5	77.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	65.5	91.4	80.3	76.6
115°	0.0	63.0	90.2	80.3	76.6
117.5°	1.2	60.5	88.9	80.3	76.6
120°	0.0	58.0	86.5	80.3	75.3
122.5°	1.2	54.3	84.0	79.0	75.3
125°	1.2	50.6	80.3	77.8	74.1
127.5°	1.2	46.9	76.6	75.3	71.6
130°	1.2	43.2	72.9	74.1	70.4
132.5°	1.2	39.5	67.9	71.6	69.2
135°	1.2	35.8	64.2	70.4	67.9
137.5°	1.2	32.1	59.3	66.7	66.7
140°	1.2	28.4	54.3	64.2	65.5
142.5°	1.2	25.9	49.4	61.8	63.0
145°	1.2	22.2	44.5	56.8	60.5
147.5°	1.2	19.8	39.5	51.9	56.8
150°	1.2	17.3	34.6	46.9	51.9
152.5°	1.2	14.8	30.9	40.8	48.2
155°	2.5	13.6	27.2	35.8	43.2
157.5°	2.5	11.1	22.2	30.9	37.1
160°	2.5	9.9	19.8	25.9	33.3
162.5°	2.5	8.6	16.1	22.2	28.4
165°	2.5	7.4	13.6	17.3	23.5
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)