

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-SLC-UNV-L940-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-LD5-83SL-SLC-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

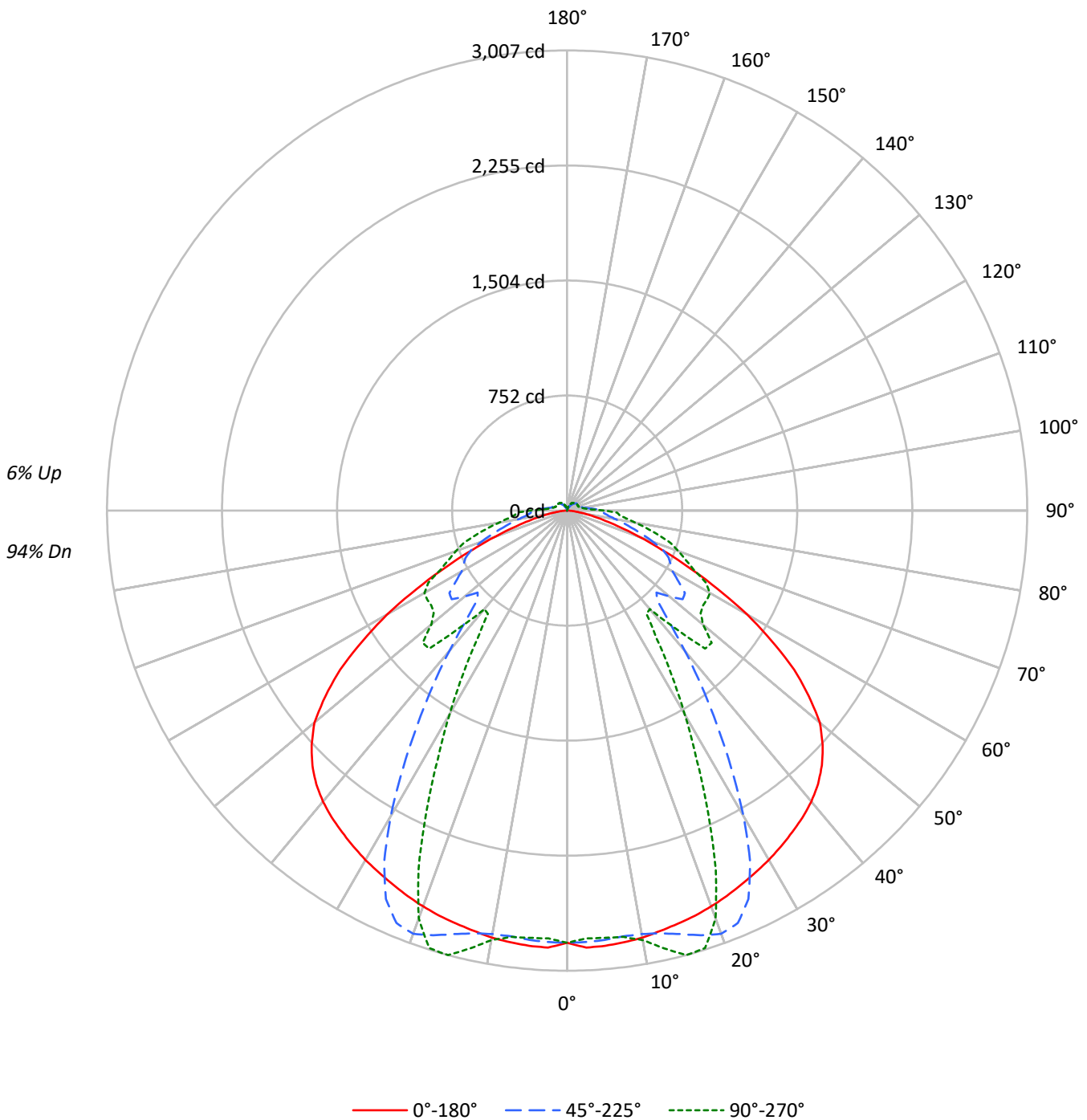
Lumens per Lamp: N/A  
Luminaire Lumens: 7252.9 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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-SLC-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L940-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	64	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°	11408	11408	11408
5°	11563	11152	11005
10°	11593	10992	10966
15°	11642	11157	11430
20°	11767	11499	10729
25°	11932	11061	8261
30°	12189	9273	5876
35°	12514	7030	3979
40°	12923	5116	3369
45°	13249	3715	5297
50°	13305	4119	5027
55°	12480	4747	4964
60°	10680	4351	5276
65°	8082	4396	4826
70°	5720	4011	4492
75°	3798	3371	4031
80°	2484	2899	3355
85°	1424	2771	3012



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.6	3.7
10°-20°	811.2	11.2
20°-30°	1178.4	16.2
30°-40°	1125.9	15.5
40°-50°	1029.9	14.2
50°-60°	951.0	13.1
60°-70°	755.4	10.4
70°-80°	466.2	6.4
80°-90°	253.9	3.5
90°-100°	128.3	1.8
100°-110°	80.6	1.1
110°-120°	68.3	0.9
120°-130°	55.8	0.8
130°-140°	40.0	0.6
140°-150°	24.7	0.3
150°-160°	11.7	0.2
160°-170°	3.0	0.0
170°-180°	0.0	0.0
0°-30°	2258.3	31.1
0°-40°	3384.2	46.7
0°-60°	5365.1	74.0
0°-90°	6840.5	94.3
90°-120°	277.2	3.8
90°-150°	397.6	5.5
90°-180°	412.0	5.7
0°-180°	7252.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2855	2811	2816	2801	2802	272
15°	2795	2757	2865	2971	3007	791
25°	2696	2748	2801	2371	2177	1246
35°	2565	2524	1701	1171	1019	1608
45°	2355	1642	830	1059	1275	1810
55°	1811	842	940	1011	1082	1595
65°	874	546	732	890	911	883
75°	258	291	439	581	620	292
85°	36	124	249	339	344	46
90°	1	92	222	264	244	2
95°	0	86	154	136	129	0
105°	0	78	95	86	85	0
115°	0	64	91	81	78	1
125°	1	51	81	79	75	1
135°	1	36	65	71	69	1
145°	1	22	45	58	61	1
155°	2	14	28	36	44	1
165°	2	8	14	18	24	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2823.5	2823.5	2823.5	2823.5	2823.5
2.5°	2858.5	2817.3	2822.3	2813.5	2798.5
5°	2854.8	2811.0	2816.0	2801.0	2802.3
7.5°	2844.8	2799.8	2806.0	2803.5	2809.8
10°	2833.5	2786.0	2809.8	2831.0	2849.8
12.5°	2813.5	2771.0	2828.5	2891.0	2929.8
15°	2794.8	2757.3	2864.8	2971.0	3007.3
17.5°	2776.0	2752.3	2909.8	3002.3	2997.3
20°	2752.3	2749.8	2943.5	2912.3	2836.0
22.5°	2726.0	2751.0	2917.3	2688.5	2538.5
25°	2696.0	2748.5	2801.0	2371.1	2177.3
27.5°	2666.0	2737.3	2589.8	2023.6	1832.4
30°	2636.0	2707.3	2304.8	1706.1	1532.4
32.5°	2601.0	2642.3	1994.8	1424.9	1264.9
35°	2564.8	2523.5	1701.1	1171.2	1018.7
37.5°	2527.3	2352.3	1437.4	948.7	851.2
40°	2482.3	2137.3	1194.9	813.7	839.9
42.5°	2426.1	1894.8	981.2	853.7	1036.2
45°	2354.8	1642.4	829.9	1058.7	1274.9
47.5°	2264.8	1399.9	792.4	1212.4	1279.9
50°	2156.1	1177.4	871.2	1162.4	1157.4
52.5°	1991.1	992.4	951.2	1059.9	1099.9
55°	1811.1	842.4	939.9	1011.2	1082.4
57.5°	1583.6	741.2	862.4	1001.2	1083.7
60°	1357.4	673.7	796.2	999.9	1077.4
62.5°	1107.4	612.5	762.4	976.2	1022.4
65°	873.7	546.2	732.4	889.9	911.2
67.5°	669.9	478.7	679.9	793.7	836.2
70°	505.0	412.5	597.5	719.9	772.4
72.5°	363.7	350.0	512.5	654.9	709.9
75°	257.5	291.2	438.7	581.2	620.0
77.5°	177.5	237.5	376.2	500.0	531.2
80°	116.2	190.0	320.0	430.0	451.2
82.5°	70.0	152.5	277.5	376.2	387.5
85°	36.2	123.7	248.7	338.7	343.7
87.5°	11.2	103.7	232.5	321.2	327.5
90°	1.2	92.5	222.5	263.7	243.7
92.5°	0.0	87.5	192.5	180.0	161.2
95°	0.0	86.2	153.7	136.2	128.7
97.5°	0.0	83.7	126.2	113.7	110.0
100°	0.0	81.2	108.7	100.0	98.7
102.5°	0.0	80.0	98.7	91.2	90.0
105°	0.0	77.5	95.0	86.2	85.0
107.5°	0.0	73.7	92.5	83.7	81.2
110°	0.0	70.0	92.5	82.5	78.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	66.2	92.5	81.2	77.5
115°	0.0	63.7	91.2	81.2	77.5
117.5°	1.2	61.2	90.0	81.2	77.5
120°	0.0	58.7	87.5	81.2	76.2
122.5°	1.2	55.0	85.0	80.0	76.2
125°	1.2	51.2	81.2	78.7	75.0
127.5°	1.2	47.5	77.5	76.2	72.5
130°	1.2	43.7	73.7	75.0	71.2
132.5°	1.2	40.0	68.7	72.5	70.0
135°	1.2	36.2	65.0	71.2	68.7
137.5°	1.2	32.5	60.0	67.5	67.5
140°	1.2	28.7	55.0	65.0	66.2
142.5°	1.2	26.2	50.0	62.5	63.7
145°	1.2	22.5	45.0	57.5	61.2
147.5°	1.2	20.0	40.0	52.5	57.5
150°	1.2	17.5	35.0	47.5	52.5
152.5°	1.2	15.0	31.2	41.2	48.7
155°	2.5	13.7	27.5	36.2	43.7
157.5°	2.5	11.2	22.5	31.2	37.5
160°	2.5	10.0	20.0	26.2	33.7
162.5°	2.5	8.7	16.2	22.5	28.7
165°	2.5	7.5	13.7	17.5	23.7
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)