

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-LD5-85SL-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: 4SNLED-LD5-85SL-SLC-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

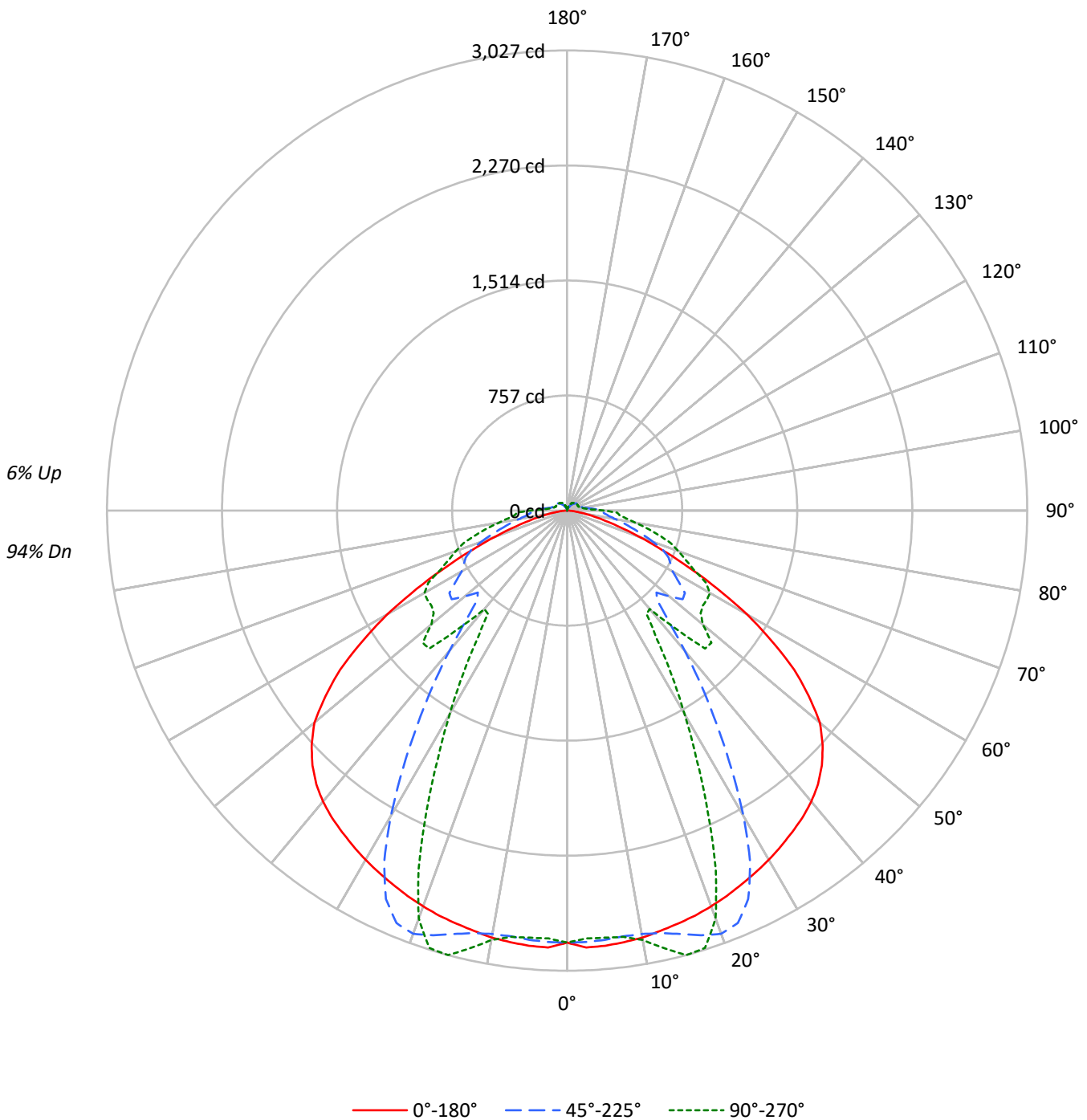
Lumens per Lamp: N/A  
Luminaire Lumens: 7300.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 85  
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-LD5-85SL-SLC-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L940-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	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°	22965	22965	22965
5°	23244	22427	22151
10°	23274	22086	22074
15°	23338	22396	23007
20°	23554	23064	21596
25°	23847	22165	16629
30°	24318	18565	11828
35°	24920	14059	8009
40°	25682	10220	6782
45°	26265	7414	10662
50°	26301	8210	10118
55°	24584	9448	9992
60°	20947	8645	10621
65°	15757	8720	9715
70°	11058	7937	9042
75°	7245	6651	8115
80°	4625	5696	6754
85°	2494	5414	6062



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.4	3.7
10°-20°	816.5	11.2
20°-30°	1186.1	16.2
30°-40°	1133.2	15.5
40°-50°	1036.6	14.2
50°-60°	957.1	13.1
60°-70°	760.3	10.4
70°-80°	469.2	6.4
80°-90°	255.5	3.5
90°-100°	129.2	1.8
100°-110°	81.1	1.1
110°-120°	68.8	0.9
120°-130°	56.2	0.8
130°-140°	40.3	0.6
140°-150°	24.8	0.3
150°-160°	11.8	0.2
160°-170°	3.1	0.0
170°-180°	0.0	0.0
0°-30°	2272.9	31.1
0°-40°	3406.1	46.7
0°-60°	5399.8	74.0
0°-90°	6884.8	94.3
90°-120°	279.1	3.8
90°-150°	400.3	5.5
90°-180°	415.0	5.7
0°-180°	7300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2842	2842	2842	2842	2842	
5°	2873	2829	2834	2819	2820	273
15°	2813	2775	2883	2990	3027	796
25°	2714	2766	2819	2386	2191	1254
35°	2581	2540	1712	1179	1025	1619
45°	2370	1653	835	1066	1283	1821
55°	1823	848	946	1018	1089	1605
65°	879	550	737	896	917	889
75°	259	293	442	585	624	294
85°	36	124	250	341	346	46
90°	1	93	224	265	245	2
95°	0	87	155	137	130	0
105°	0	78	96	87	86	0
115°	0	64	92	82	78	1
125°	1	52	82	79	76	1
135°	1	36	65	72	69	1
145°	1	23	45	58	62	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: 4SNLED-LD5-85SL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2841.8	2841.8	2841.8	2841.8	2841.8
2.5°	2877.0	2835.5	2840.6	2831.8	2816.7
5°	2873.3	2829.2	2834.3	2819.2	2820.4
7.5°	2863.2	2817.9	2824.2	2821.7	2828.0
10°	2851.9	2804.1	2828.0	2849.4	2868.2
12.5°	2831.8	2789.0	2846.9	2909.8	2948.8
15°	2812.9	2775.1	2883.3	2990.3	3026.7
17.5°	2794.0	2770.1	2928.6	3021.7	3016.7
20°	2770.1	2767.6	2962.6	2931.1	2854.4
22.5°	2743.7	2768.9	2936.2	2706.0	2555.0
25°	2713.5	2766.3	2819.2	2386.4	2191.4
27.5°	2683.3	2755.0	2606.6	2036.7	1844.2
30°	2653.1	2724.8	2319.8	1717.2	1542.3
32.5°	2617.9	2659.4	2007.8	1434.1	1273.1
35°	2581.4	2539.9	1712.1	1178.7	1025.3
37.5°	2543.7	2367.6	1446.7	954.8	856.7
40°	2498.4	2151.2	1202.6	819.0	845.4
42.5°	2441.8	1907.1	987.5	859.2	1042.9
45°	2370.1	1653.0	835.3	1065.5	1283.2
47.5°	2279.5	1409.0	797.6	1220.3	1288.2
50°	2170.0	1185.0	876.8	1169.9	1164.9
52.5°	2004.0	998.9	957.3	1066.8	1107.0
55°	1822.8	847.9	946.0	1017.7	1089.4
57.5°	1593.9	746.0	868.0	1007.7	1090.7
60°	1366.2	678.1	801.3	1006.4	1084.4
62.5°	1114.6	616.4	767.4	982.5	1029.0
65°	879.3	549.7	737.2	895.7	917.1
67.5°	674.3	481.8	684.4	798.8	841.6
70°	508.2	415.1	601.3	724.6	777.4
72.5°	366.1	352.2	515.8	659.2	714.5
75°	259.1	293.1	441.6	585.0	624.0
77.5°	178.6	239.0	378.7	503.2	534.6
80°	117.0	191.2	322.0	432.8	454.1
82.5°	70.4	153.5	279.3	378.7	390.0
85°	36.5	124.5	250.3	340.9	345.9
87.5°	11.3	104.4	234.0	323.3	329.6
90°	1.3	93.1	223.9	265.4	245.3
92.5°	0.0	88.1	193.7	181.2	162.3
95°	0.0	86.8	154.7	137.1	129.6
97.5°	0.0	84.3	127.1	114.5	110.7
100°	0.0	81.8	109.4	100.6	99.4
102.5°	0.0	80.5	99.4	91.8	90.6
105°	0.0	78.0	95.6	86.8	85.5
107.5°	0.0	74.2	93.1	84.3	81.8
110°	0.0	70.4	93.1	83.0	79.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	66.7	93.1	81.8	78.0
115°	0.0	64.2	91.8	81.8	78.0
117.5°	1.3	61.6	90.6	81.8	78.0
120°	0.0	59.1	88.1	81.8	76.7
122.5°	1.3	55.4	85.5	80.5	76.7
125°	1.3	51.6	81.8	79.3	75.5
127.5°	1.3	47.8	78.0	76.7	73.0
130°	1.3	44.0	74.2	75.5	71.7
132.5°	1.3	40.3	69.2	73.0	70.4
135°	1.3	36.5	65.4	71.7	69.2
137.5°	1.3	32.7	60.4	67.9	67.9
140°	1.3	28.9	55.4	65.4	66.7
142.5°	1.3	26.4	50.3	62.9	64.2
145°	1.3	22.6	45.3	57.9	61.6
147.5°	1.3	20.1	40.3	52.8	57.9
150°	1.3	17.6	35.2	47.8	52.8
152.5°	1.3	15.1	31.4	41.5	49.1
155°	2.5	13.8	27.7	36.5	44.0
157.5°	2.5	11.3	22.6	31.4	37.7
160°	2.5	10.1	20.1	26.4	34.0
162.5°	2.5	8.8	16.4	22.6	28.9
165°	2.5	7.5	13.8	17.6	23.9
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)