

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-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: 4SNLED-LD5-85SL-SLC-UNV-L850-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

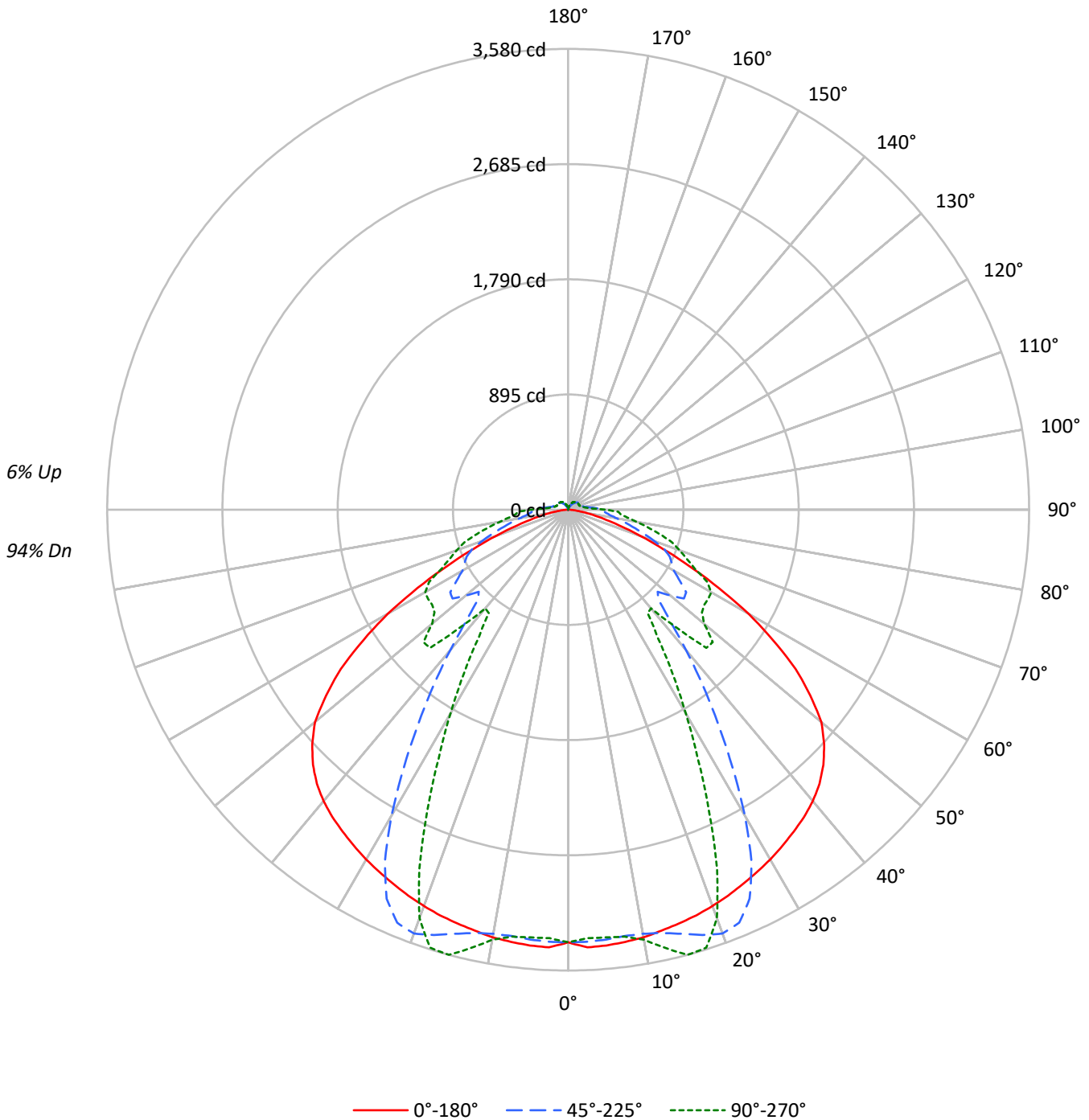
Lumens per Lamp: N/A  
Luminaire Lumens: 8634.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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



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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°	27161	27161	27161
5°	27491	26525	26199
10°	27526	26122	26109
15°	27602	26489	27213
20°	27858	27278	25543
25°	28205	26216	19668
30°	28762	21957	13989
35°	29474	16629	9473
40°	30375	12088	8021
45°	31065	8770	12610
50°	31108	9711	11968
55°	29076	11175	11818
60°	24774	10226	12562
65°	18637	10313	11491
70°	13079	9388	10695
75°	8570	7865	9597
80°	5471	6738	7988
85°	2944	6405	7171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.8	3.7
10°-20°	965.7	11.2
20°-30°	1402.8	16.2
30°-40°	1340.3	15.5
40°-50°	1226.0	14.2
50°-60°	1132.0	13.1
60°-70°	899.2	10.4
70°-80°	555.0	6.4
80°-90°	302.2	3.5
90°-100°	152.8	1.8
100°-110°	96.0	1.1
110°-120°	81.3	0.9
120°-130°	66.4	0.8
130°-140°	47.6	0.6
140°-150°	29.4	0.3
150°-160°	13.9	0.2
160°-170°	3.6	0.0
170°-180°	0.0	0.0
0°-30°	2688.2	31.1
0°-40°	4028.5	46.7
0°-60°	6386.6	74.0
0°-90°	8143.0	94.3
90°-120°	330.0	3.8
90°-150°	473.4	5.5
90°-180°	491.0	5.7
0°-180°	8634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3361	3361	3361	3361	3361	
5°	3398	3346	3352	3334	3336	323
15°	3327	3282	3410	3537	3580	942
25°	3209	3272	3334	2822	2592	1483
35°	3053	3004	2025	1394	1213	1914
45°	2803	1955	988	1260	1518	2154
55°	2156	1003	1119	1204	1288	1899
65°	1040	650	872	1059	1085	1052
75°	306	347	522	692	738	347
85°	43	147	296	403	409	55
90°	2	110	265	314	290	2
95°	0	103	183	162	153	0
105°	0	92	113	103	101	0
115°	0	76	109	97	92	1
125°	2	61	97	94	89	1
135°	2	43	77	85	82	1
145°	2	27	54	68	73	1
155°	3	16	33	43	52	1
165°	3	9	16	21	28	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3361.1	3361.1	3361.1	3361.1	3361.1
2.5°	3402.8	3353.7	3359.6	3349.2	3331.4
5°	3398.3	3346.3	3352.2	3334.4	3335.8
7.5°	3386.4	3332.9	3340.3	3337.3	3344.8
10°	3373.0	3316.5	3344.8	3370.1	3392.4
12.5°	3349.2	3298.6	3367.1	3441.5	3487.6
15°	3326.9	3282.3	3410.2	3536.7	3579.9
17.5°	3304.6	3276.3	3463.8	3573.9	3567.9
20°	3276.3	3273.3	3504.0	3466.8	3376.0
22.5°	3245.1	3274.8	3472.7	3200.4	3021.9
25°	3209.4	3271.9	3334.4	2822.5	2591.9
27.5°	3173.7	3258.5	3082.9	2408.9	2181.2
30°	3138.0	3222.8	2743.7	2031.0	1824.1
32.5°	3096.3	3145.4	2374.7	1696.2	1505.7
35°	3053.1	3004.0	2025.0	1394.1	1212.6
37.5°	3008.5	2800.2	1711.1	1129.3	1013.3
40°	2954.9	2544.3	1422.4	968.6	999.9
42.5°	2888.0	2255.6	1168.0	1016.2	1233.5
45°	2803.2	1955.1	988.0	1260.2	1517.6
47.5°	2696.0	1666.4	943.3	1443.2	1523.6
50°	2566.6	1401.6	1037.1	1383.7	1377.8
52.5°	2370.2	1181.4	1132.3	1261.7	1309.3
55°	2155.9	1002.8	1118.9	1203.7	1288.5
57.5°	1885.2	882.3	1026.6	1191.8	1290.0
60°	1615.8	802.0	947.8	1190.3	1282.6
62.5°	1318.3	729.1	907.6	1162.0	1217.1
65°	1040.0	650.2	871.9	1059.4	1084.7
67.5°	797.5	569.9	809.4	944.8	995.4
70°	601.1	491.0	711.2	857.0	919.5
72.5°	433.0	416.6	610.0	779.7	845.1
75°	306.5	346.7	522.2	691.9	738.0
77.5°	211.3	282.7	447.9	595.2	632.4
80°	138.4	226.2	380.9	511.8	537.1
82.5°	83.3	181.5	330.3	447.9	461.2
85°	43.1	147.3	296.1	403.2	409.2
87.5°	13.4	123.5	276.7	382.4	389.8
90°	1.5	110.1	264.8	313.9	290.1
92.5°	0.0	104.2	229.1	214.3	191.9
95°	0.0	102.7	183.0	162.2	153.3
97.5°	0.0	99.7	150.3	135.4	130.9
100°	0.0	96.7	129.4	119.0	117.5
102.5°	0.0	95.2	117.5	108.6	107.1
105°	0.0	92.2	113.1	102.7	101.2
107.5°	0.0	87.8	110.1	99.7	96.7
110°	0.0	83.3	110.1	98.2	93.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	78.9	110.1	96.7	92.2
115°	0.0	75.9	108.6	96.7	92.2
117.5°	1.5	72.9	107.1	96.7	92.2
120°	0.0	69.9	104.2	96.7	90.8
122.5°	1.5	65.5	101.2	95.2	90.8
125°	1.5	61.0	96.7	93.7	89.3
127.5°	1.5	56.5	92.2	90.8	86.3
130°	1.5	52.1	87.8	89.3	84.8
132.5°	1.5	47.6	81.8	86.3	83.3
135°	1.5	43.1	77.4	84.8	81.8
137.5°	1.5	38.7	71.4	80.3	80.3
140°	1.5	34.2	65.5	77.4	78.9
142.5°	1.5	31.2	59.5	74.4	75.9
145°	1.5	26.8	53.6	68.4	72.9
147.5°	1.5	23.8	47.6	62.5	68.4
150°	1.5	20.8	41.7	56.5	62.5
152.5°	1.5	17.9	37.2	49.1	58.0
155°	3.0	16.4	32.7	43.1	52.1
157.5°	3.0	13.4	26.8	37.2	44.6
160°	3.0	11.9	23.8	31.2	40.2
162.5°	3.0	10.4	19.3	26.8	34.2
165°	3.0	8.9	16.4	20.8	28.3
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)