

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-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 (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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

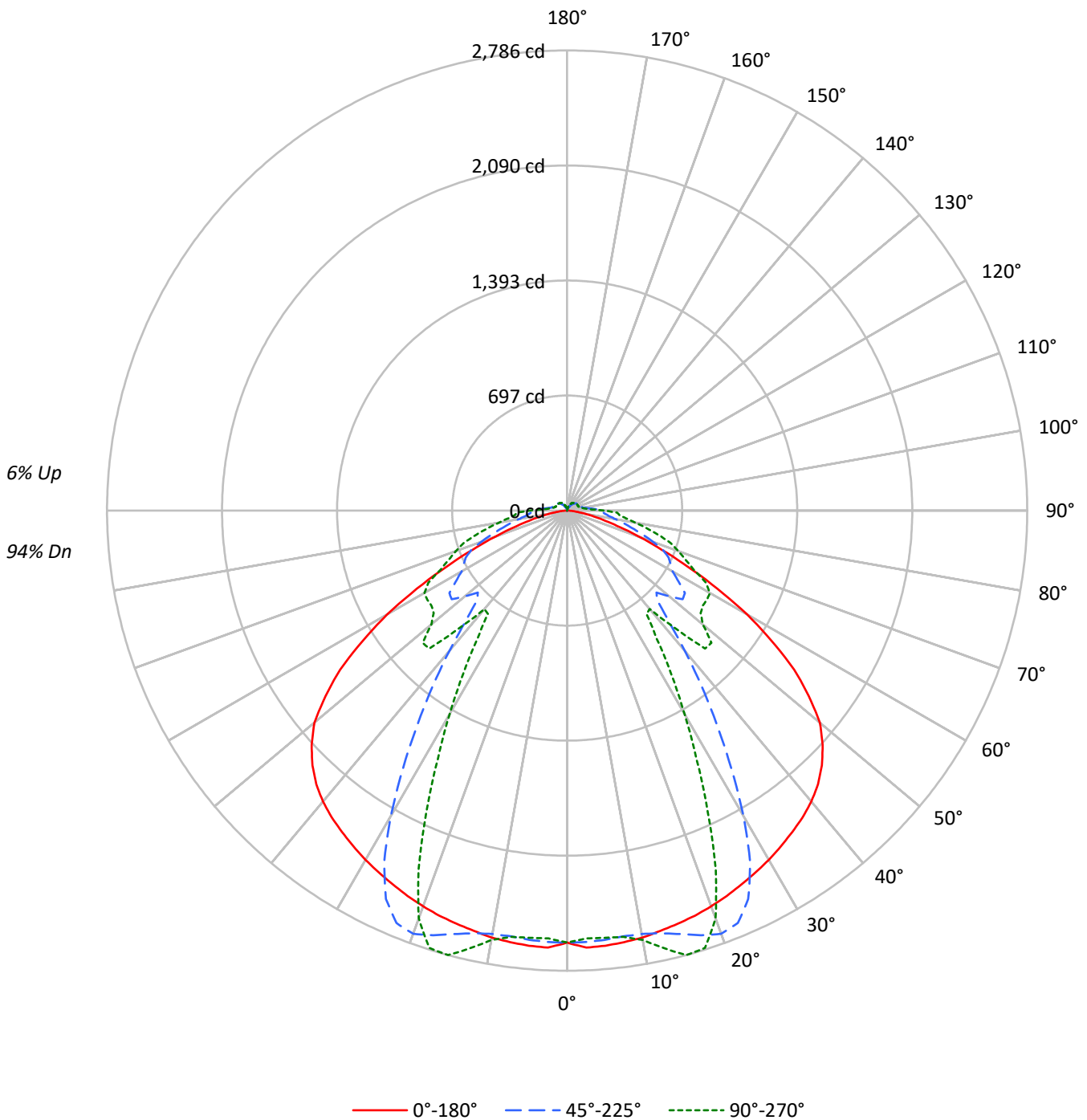
Lumens per Lamp: N/A
Luminaire Lumens: 6719.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	21137	21137	21137
5°	21394	20642	20389
10°	21421	20328	20318
15°	21480	20615	21177
20°	21679	21228	19877
25°	21949	20401	15305
30°	22383	17087	10887
35°	22938	12941	7372
40°	23638	9407	6242
45°	24174	6824	9813
50°	24208	7556	9313
55°	22628	8696	9197
60°	19280	7958	9776
65°	14505	8025	8942
70°	10179	7306	8323
75°	6669	6121	7468
80°	4257	5243	6217
85°	2295	4984	5580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	3.7
10°-20°	751.5	11.2
20°-30°	1091.7	16.2
30°-40°	1043.0	15.5
40°-50°	954.1	14.2
50°-60°	880.9	13.1
60°-70°	699.8	10.4
70°-80°	431.9	6.4
80°-90°	235.2	3.5
90°-100°	118.9	1.8
100°-110°	74.7	1.1
110°-120°	63.3	0.9
120°-130°	51.7	0.8
130°-140°	37.1	0.6
140°-150°	22.9	0.3
150°-160°	10.8	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	2092.0	31.1
0°-40°	3135.0	46.7
0°-60°	4970.0	74.0
0°-90°	6336.9	94.3
90°-120°	256.9	3.8
90°-150°	368.5	5.5
90°-180°	382.0	5.7
0°-180°	6719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2616	2616	2616	2616	2616	
5°	2645	2604	2609	2595	2596	252
15°	2589	2554	2654	2752	2786	733
25°	2498	2546	2595	2196	2017	1154
35°	2376	2338	1576	1085	944	1490
45°	2181	1521	769	981	1181	1676
55°	1678	780	871	937	1003	1478
65°	809	506	678	824	844	818
75°	238	270	406	538	574	270
85°	34	115	230	314	318	43
90°	1	86	206	244	226	2
95°	0	80	142	126	119	0
105°	0	72	88	80	79	0
115°	0	59	84	75	72	1
125°	1	48	75	73	70	1
135°	1	34	60	66	64	1
145°	1	21	42	53	57	1
155°	2	13	26	34	40	1
165°	2	7	13	16	22	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°	2615.6	2615.6	2615.6	2615.6	2615.6
2.5°	2648.1	2609.9	2614.5	2606.4	2592.5
5°	2644.6	2604.1	2608.7	2594.8	2596.0
7.5°	2635.3	2593.6	2599.4	2597.1	2602.9
10°	2624.9	2580.9	2602.9	2622.6	2640.0
12.5°	2606.4	2567.0	2620.3	2678.2	2714.1
15°	2589.0	2554.3	2653.9	2752.3	2785.9
17.5°	2571.6	2549.6	2695.5	2781.2	2776.6
20°	2549.6	2547.3	2726.8	2697.9	2627.2
22.5°	2525.3	2548.5	2702.5	2490.6	2351.6
25°	2497.5	2546.2	2594.8	2196.5	2017.0
27.5°	2469.8	2535.7	2399.1	1874.6	1697.4
30°	2442.0	2508.0	2135.1	1580.5	1419.6
32.5°	2409.5	2447.8	1848.0	1320.0	1171.8
35°	2376.0	2337.8	1575.9	1084.9	943.7
37.5°	2341.2	2179.1	1331.6	878.8	788.5
40°	2299.5	1980.0	1106.9	753.8	778.1
42.5°	2247.4	1755.3	908.9	790.8	959.9
45°	2181.4	1521.4	768.8	980.7	1181.0
47.5°	2098.1	1296.8	734.1	1123.1	1185.7
50°	1997.3	1090.7	807.0	1076.8	1072.2
52.5°	1844.5	919.4	881.1	981.9	1018.9
55°	1677.8	780.4	870.7	936.7	1002.7
57.5°	1467.0	686.6	798.9	927.5	1003.9
60°	1257.5	624.1	737.6	926.3	998.1
62.5°	1025.9	567.4	706.3	904.3	947.1
65°	809.4	506.0	678.5	824.4	844.1
67.5°	620.6	443.5	629.9	735.3	774.6
70°	467.8	382.1	553.5	666.9	715.6
72.5°	336.9	324.2	474.7	606.7	657.7
75°	238.5	269.8	406.4	538.4	574.3
77.5°	164.4	220.0	348.5	463.2	492.1
80°	107.7	176.0	296.4	398.3	418.0
82.5°	64.8	141.3	257.0	348.5	358.9
85°	33.6	114.6	230.4	313.8	318.4
87.5°	10.4	96.1	215.4	297.6	303.4
90°	1.2	85.7	206.1	244.3	225.8
92.5°	0.0	81.1	178.3	166.7	149.4
95°	0.0	79.9	142.4	126.2	119.3
97.5°	0.0	77.6	116.9	105.4	101.9
100°	0.0	75.3	100.7	92.6	91.5
102.5°	0.0	74.1	91.5	84.5	83.4
105°	0.0	71.8	88.0	79.9	78.7
107.5°	0.0	68.3	85.7	77.6	75.3
110°	0.0	64.8	85.7	76.4	72.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	61.4	85.7	75.3	71.8
115°	0.0	59.1	84.5	75.3	71.8
117.5°	1.2	56.7	83.4	75.3	71.8
120°	0.0	54.4	81.1	75.3	70.6
122.5°	1.2	50.9	78.7	74.1	70.6
125°	1.2	47.5	75.3	72.9	69.5
127.5°	1.2	44.0	71.8	70.6	67.2
130°	1.2	40.5	68.3	69.5	66.0
132.5°	1.2	37.1	63.7	67.2	64.8
135°	1.2	33.6	60.2	66.0	63.7
137.5°	1.2	30.1	55.6	62.5	62.5
140°	1.2	26.6	50.9	60.2	61.4
142.5°	1.2	24.3	46.3	57.9	59.1
145°	1.2	20.8	41.7	53.3	56.7
147.5°	1.2	18.5	37.1	48.6	53.3
150°	1.2	16.2	32.4	44.0	48.6
152.5°	1.2	13.9	28.9	38.2	45.2
155°	2.3	12.7	25.5	33.6	40.5
157.5°	2.3	10.4	20.8	28.9	34.7
160°	2.3	9.3	18.5	24.3	31.3
162.5°	2.3	8.1	15.1	20.8	26.6
165°	2.3	6.9	12.7	16.2	22.0
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)