

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-LD5-73SL-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-LD5-73SL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

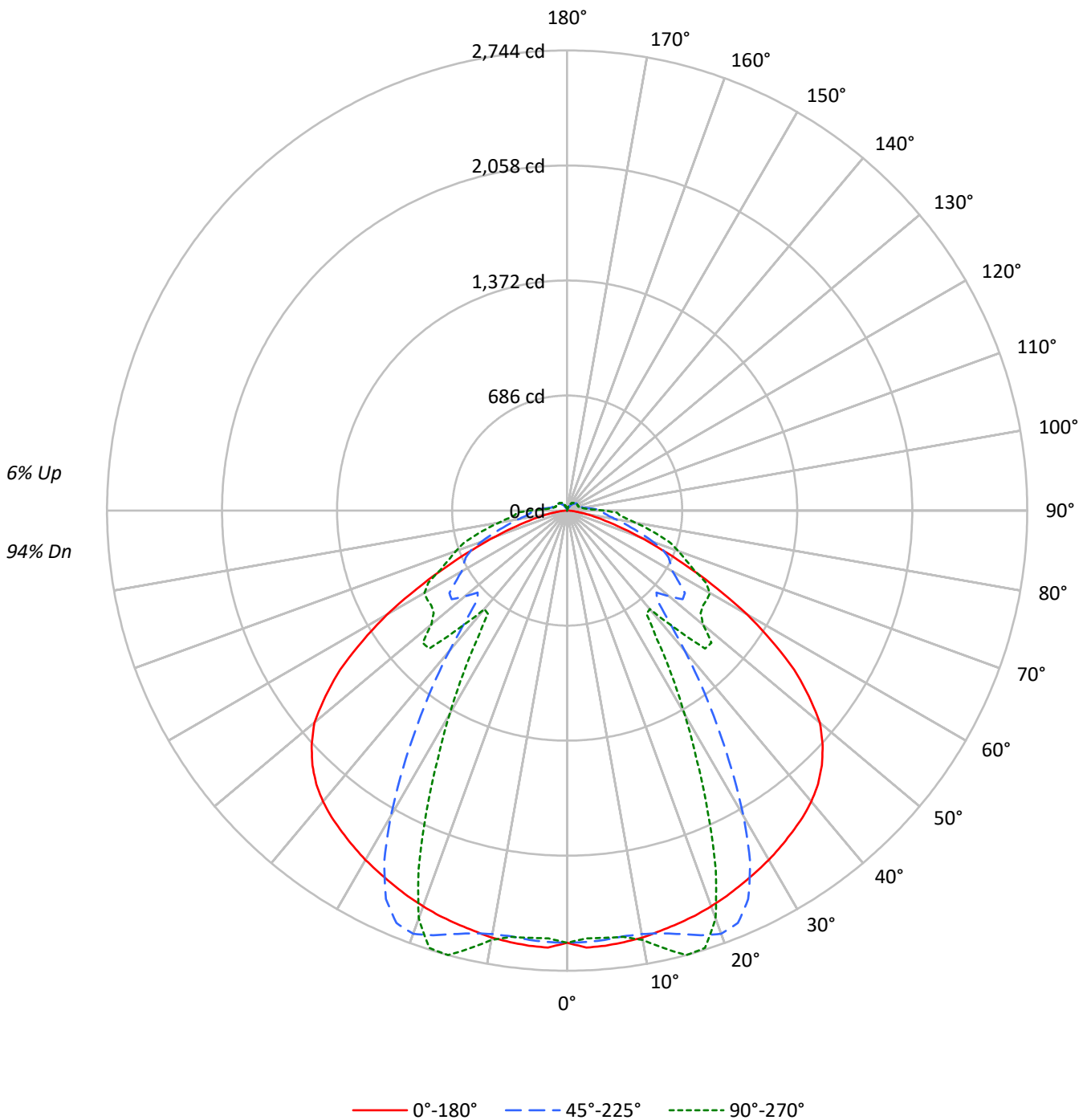
Lumens per Lamp: N/A
Luminaire Lumens: 6618.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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	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°	20819	20819	20819
5°	21072	20332	20082
10°	21099	20023	20013
15°	21157	20305	20859
20°	21353	20909	19578
25°	21619	20094	15075
30°	22046	16830	10723
35°	22592	12746	7261
40°	23283	9266	6148
45°	23811	6722	9666
50°	23845	7443	9173
55°	22287	8565	9058
60°	18990	7838	9629
65°	14286	7905	8807
70°	10027	7195	8198
75°	6568	6029	7357
80°	4194	5166	6123
85°	2261	4910	5496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	3.7
10°-20°	740.2	11.2
20°-30°	1075.3	16.2
30°-40°	1027.4	15.5
40°-50°	939.8	14.2
50°-60°	867.7	13.1
60°-70°	689.2	10.4
70°-80°	425.4	6.4
80°-90°	231.7	3.5
90°-100°	117.1	1.8
100°-110°	73.6	1.1
110°-120°	62.3	0.9
120°-130°	50.9	0.8
130°-140°	36.5	0.6
140°-150°	22.5	0.3
150°-160°	10.7	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	2060.5	31.1
0°-40°	3087.9	46.7
0°-60°	4895.3	74.0
0°-90°	6241.6	94.3
90°-120°	253.0	3.8
90°-150°	362.9	5.5
90°-180°	376.0	5.7
0°-180°	6618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2576	2576	2576	2576	2576	
5°	2605	2565	2570	2556	2557	248
15°	2550	2516	2614	2711	2744	722
25°	2460	2508	2556	2164	1987	1137
35°	2340	2303	1552	1069	930	1467
45°	2149	1499	757	966	1163	1651
55°	1652	769	858	923	988	1455
65°	797	498	668	812	831	806
75°	235	266	400	530	566	266
85°	33	113	227	309	314	42
90°	1	84	203	241	222	2
95°	0	79	140	124	118	0
105°	0	71	87	79	78	0
115°	0	58	83	74	71	1
125°	1	47	74	72	68	1
135°	1	33	59	65	63	1
145°	1	20	41	52	56	1
155°	2	12	25	33	40	1
165°	2	7	12	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°	2576.3	2576.3	2576.3	2576.3	2576.3
2.5°	2608.3	2570.6	2575.2	2567.2	2553.5
5°	2604.8	2564.9	2569.5	2555.8	2556.9
7.5°	2595.7	2554.7	2560.4	2558.1	2563.8
10°	2585.4	2542.1	2563.8	2583.2	2600.3
12.5°	2567.2	2528.4	2580.9	2637.9	2673.3
15°	2550.1	2515.9	2614.0	2710.9	2744.0
17.5°	2533.0	2511.3	2655.0	2739.4	2734.8
20°	2511.3	2509.0	2685.8	2657.3	2587.7
22.5°	2487.4	2510.2	2661.9	2453.2	2316.3
25°	2460.0	2507.9	2555.8	2163.5	1986.7
27.5°	2432.6	2497.6	2363.1	1846.4	1671.9
30°	2405.3	2470.3	2103.0	1556.7	1398.2
32.5°	2373.3	2411.0	1820.2	1300.1	1154.2
35°	2340.2	2302.6	1552.2	1068.6	929.5
37.5°	2306.0	2146.4	1311.5	865.6	776.7
40°	2265.0	1950.2	1090.3	742.4	766.4
42.5°	2213.7	1729.0	895.3	778.9	945.5
45°	2148.6	1498.6	757.3	966.0	1163.3
47.5°	2066.5	1277.3	723.1	1106.3	1167.8
50°	1967.3	1074.3	794.9	1060.6	1056.1
52.5°	1816.8	905.5	867.9	967.1	1003.6
55°	1652.5	768.7	857.6	922.6	987.6
57.5°	1445.0	676.3	786.9	913.5	988.8
60°	1238.6	614.7	726.5	912.4	983.1
62.5°	1010.5	558.8	695.7	890.7	932.9
65°	797.2	498.4	668.3	812.0	831.4
67.5°	611.3	436.8	620.4	724.2	763.0
70°	460.8	376.4	545.1	656.9	704.8
72.5°	331.9	319.3	467.6	597.6	647.8
75°	234.9	265.7	400.3	530.3	565.7
77.5°	161.9	216.7	343.3	456.2	484.7
80°	106.1	173.4	292.0	392.3	411.7
82.5°	63.9	139.1	253.2	343.3	353.5
85°	33.1	112.9	227.0	309.1	313.6
87.5°	10.3	94.7	212.1	293.1	298.8
90°	1.1	84.4	203.0	240.6	222.4
92.5°	0.0	79.8	175.6	164.2	147.1
95°	0.0	78.7	140.3	124.3	117.5
97.5°	0.0	76.4	115.2	103.8	100.4
100°	0.0	74.1	99.2	91.2	90.1
102.5°	0.0	73.0	90.1	83.3	82.1
105°	0.0	70.7	86.7	78.7	77.6
107.5°	0.0	67.3	84.4	76.4	74.1
110°	0.0	63.9	84.4	75.3	71.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	60.4	84.4	74.1	70.7
115°	0.0	58.2	83.3	74.1	70.7
117.5°	1.1	55.9	82.1	74.1	70.7
120°	0.0	53.6	79.8	74.1	69.6
122.5°	1.1	50.2	77.6	73.0	69.6
125°	1.1	46.8	74.1	71.8	68.4
127.5°	1.1	43.3	70.7	69.6	66.1
130°	1.1	39.9	67.3	68.4	65.0
132.5°	1.1	36.5	62.7	66.1	63.9
135°	1.1	33.1	59.3	65.0	62.7
137.5°	1.1	29.7	54.7	61.6	61.6
140°	1.1	26.2	50.2	59.3	60.4
142.5°	1.1	23.9	45.6	57.0	58.2
145°	1.1	20.5	41.1	52.5	55.9
147.5°	1.1	18.2	36.5	47.9	52.5
150°	1.1	16.0	31.9	43.3	47.9
152.5°	1.1	13.7	28.5	37.6	44.5
155°	2.3	12.5	25.1	33.1	39.9
157.5°	2.3	10.3	20.5	28.5	34.2
160°	2.3	9.1	18.2	23.9	30.8
162.5°	2.3	8.0	14.8	20.5	26.2
165°	2.3	6.8	12.5	16.0	21.7
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)