

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-LD5-71SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-71SL-SLN-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

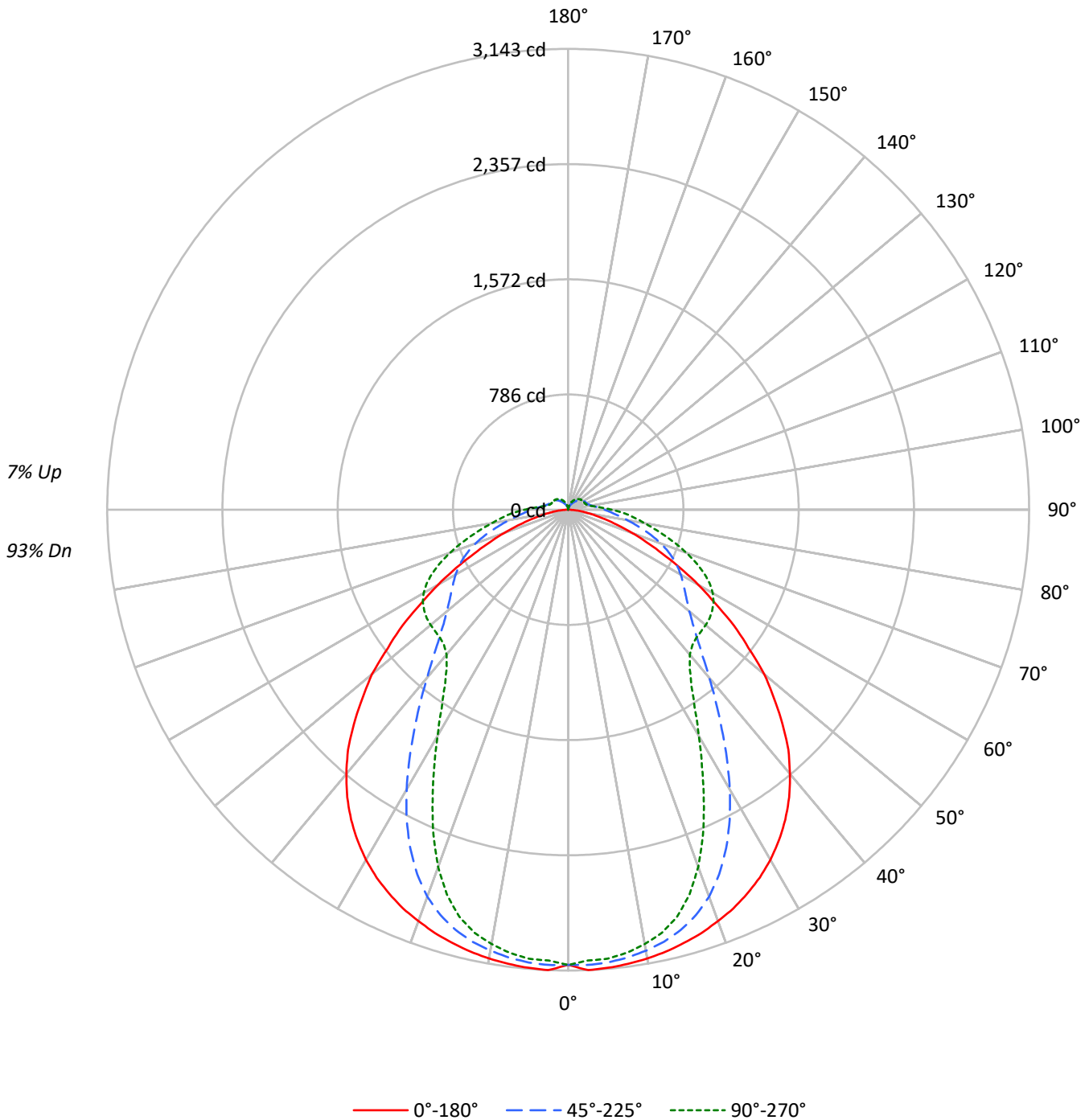
Lumens per Lamp: N/A
Luminaire Lumens: 7806.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25083	25083	25083
5°	25373	24529	24145
10°	25363	23852	23152
15°	25372	23052	21832
20°	25384	21865	19606
25°	25394	20035	16603
30°	25273	17629	13656
35°	24913	14999	11444
40°	24183	12703	10345
45°	22902	11039	10268
50°	21157	10092	10627
55°	18629	9701	10999
60°	15719	9562	11151
65°	12643	9350	10803
70°	10155	8868	9963
75°	7656	8025	8842
80°	5653	7207	7865
85°	3778	6799	7234



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	3.8
10°-20°	830.0	10.6
20°-30°	1160.3	14.9
30°-40°	1203.5	15.4
40°-50°	1111.9	14.2
50°-60°	992.7	12.7
60°-70°	804.5	10.3
70°-80°	535.1	6.9
80°-90°	306.4	3.9
90°-100°	169.5	2.2
100°-110°	114.8	1.5
110°-120°	95.6	1.2
120°-130°	77.7	1.0
130°-140°	56.0	0.7
140°-150°	33.8	0.4
150°-160°	16.2	0.2
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-30°	2284.0	29.3
0°-40°	3487.5	44.7
0°-60°	5592.1	71.6
0°-90°	7238.1	92.7
90°-120°	379.9	4.9
90°-150°	547.4	7.0
90°-180°	568.0	7.3
0°-180°	7806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3104	3104	3104	3104	3104	
5°	3136	3084	3100	3078	3074	298
15°	3058	2993	2968	2900	2872	864
25°	2890	2761	2548	2281	2188	1331
35°	2581	2297	1826	1534	1465	1610
45°	2067	1638	1244	1199	1236	1589
55°	1381	1044	971	1129	1199	1228
65°	706	631	790	969	1020	713
75°	274	343	533	653	680	300
85°	55	159	314	402	413	64
90°	3	112	248	300	297	4
95°	3	94	197	210	204	2
105°	1	82	142	138	131	1
115°	1	74	126	124	120	1
125°	1	63	111	116	113	1
135°	3	47	88	102	102	2
145°	3	30	61	80	85	2
155°	3	19	38	50	61	1
165°	3	11	19	24	32	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-71SL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3104.0	3104.0	3104.0	3104.0	3104.0
2.5°	3143.1	3091.8	3108.0	3094.5	3077.0
5°	3136.4	3083.7	3099.9	3078.3	3074.3
7.5°	3124.2	3071.6	3081.0	3055.4	3048.7
10°	3108.0	3052.7	3054.1	3017.6	3008.2
12.5°	3086.4	3025.7	3017.6	2967.7	2954.2
15°	3058.1	2993.4	2967.7	2900.3	2872.0
17.5°	3027.1	2951.5	2898.9	2795.1	2750.5
20°	2985.3	2900.3	2808.6	2650.7	2591.4
22.5°	2943.5	2838.2	2691.2	2480.8	2401.2
25°	2889.5	2761.3	2548.2	2281.1	2188.0
27.5°	2828.8	2671.0	2383.6	2076.1	1976.2
30°	2757.3	2561.7	2202.9	1875.1	1780.6
32.5°	2673.7	2438.9	2012.7	1694.3	1606.6
35°	2580.6	2297.3	1826.5	1533.8	1465.0
37.5°	2474.0	2142.2	1653.8	1404.3	1359.8
40°	2352.6	1973.5	1494.7	1304.5	1289.6
42.5°	2221.8	1809.0	1358.4	1239.7	1253.2
45°	2066.6	1637.6	1243.7	1199.2	1235.7
47.5°	1903.4	1470.4	1150.7	1176.3	1228.9
50°	1745.6	1315.2	1077.8	1161.5	1223.5
52.5°	1550.0	1176.3	1019.8	1148.0	1215.4
55°	1381.3	1044.1	971.3	1129.1	1199.2
57.5°	1187.1	925.4	928.1	1104.8	1175.0
60°	1025.2	817.5	886.3	1071.1	1138.5
62.5°	860.6	720.3	840.4	1026.6	1087.3
65°	705.5	631.3	790.5	968.6	1019.8
67.5°	576.0	550.4	733.8	898.4	941.6
70°	466.7	476.2	671.8	820.2	856.6
72.5°	358.8	407.4	604.3	736.5	767.6
75°	273.8	342.6	532.8	652.9	679.9
77.5°	202.3	286.0	468.1	577.4	600.3
80°	143.0	236.1	407.4	511.3	528.8
82.5°	95.8	194.3	357.5	451.9	468.1
85°	55.3	159.2	314.3	402.0	412.8
87.5°	22.9	132.2	279.2	350.7	356.1
90°	2.7	112.0	248.2	299.5	296.8
92.5°	2.7	101.2	221.2	250.9	244.2
95°	2.7	94.4	196.9	210.4	203.7
97.5°	2.7	90.4	175.4	180.8	174.0
100°	1.3	87.7	160.5	160.5	153.8
102.5°	1.3	85.0	149.7	145.7	140.3
105°	1.3	82.3	141.6	137.6	130.9
107.5°	1.3	80.9	136.2	132.2	125.5
110°	1.3	78.2	132.2	128.2	122.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	76.9	129.5	126.8	120.1
115°	1.3	74.2	125.5	124.1	120.1
117.5°	1.3	71.5	122.8	122.8	118.7
120°	1.3	68.8	118.7	121.4	117.4
122.5°	1.3	66.1	114.7	118.7	114.7
125°	1.3	63.4	110.6	116.0	113.3
127.5°	2.7	59.4	105.2	113.3	110.6
130°	1.3	55.3	99.8	110.6	109.3
132.5°	2.7	51.3	94.4	106.6	106.6
135°	2.7	47.2	87.7	102.5	102.5
137.5°	2.7	41.8	80.9	97.1	98.5
140°	2.7	37.8	74.2	91.7	94.4
142.5°	2.7	33.7	67.4	86.3	90.4
145°	2.7	29.7	60.7	79.6	85.0
147.5°	2.7	27.0	54.0	71.5	79.6
150°	2.7	22.9	48.6	64.8	72.8
152.5°	2.7	20.2	43.2	58.0	67.4
155°	2.7	18.9	37.8	49.9	60.7
157.5°	2.7	16.2	32.4	43.2	54.0
160°	2.7	13.5	27.0	37.8	45.9
162.5°	2.7	12.1	22.9	31.0	40.5
165°	2.7	10.8	18.9	24.3	32.4
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)