

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-L830-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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

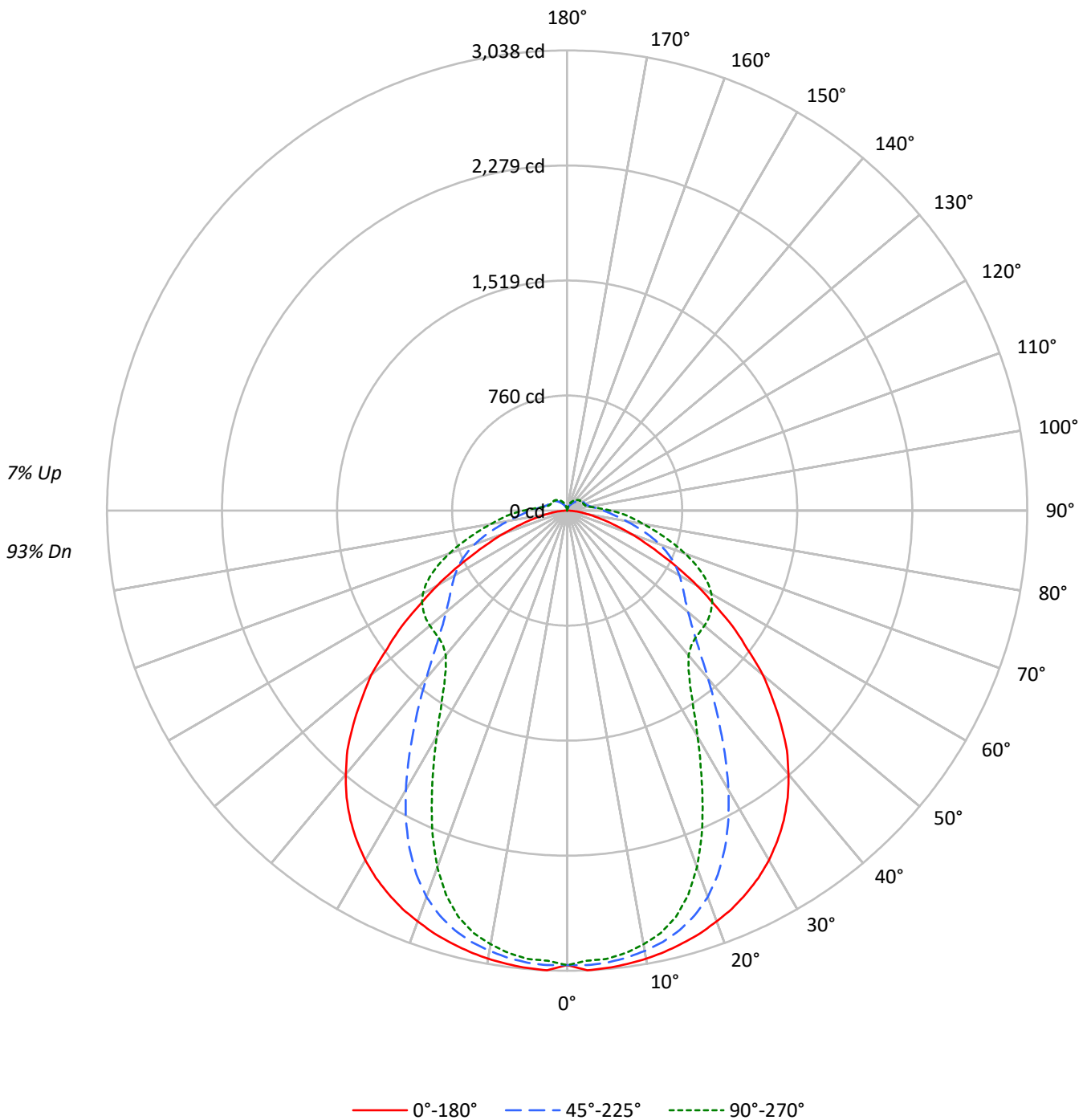
Lumens per Lamp: N/A
Luminaire Lumens: 7545.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): 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°	24245	24245	24245
5°	24524	23709	23338
10°	24516	23054	22378
15°	24524	22281	21101
20°	24535	21133	18950
25°	24545	19365	16048
30°	24428	17039	13199
35°	24080	14497	11062
40°	23374	12278	10000
45°	22136	10671	9924
50°	20450	9755	10272
55°	18008	9376	10631
60°	15193	9242	10778
65°	12220	9038	10442
70°	9816	8571	9631
75°	7401	7756	8545
80°	5463	6966	7602
85°	3655	6571	6993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	3.8
10°-20°	802.3	10.6
20°-30°	1121.5	14.9
30°-40°	1163.3	15.4
40°-50°	1074.7	14.2
50°-60°	959.5	12.7
60°-70°	777.6	10.3
70°-80°	517.2	6.9
80°-90°	296.2	3.9
90°-100°	163.9	2.2
100°-110°	111.0	1.5
110°-120°	92.4	1.2
120°-130°	75.1	1.0
130°-140°	54.2	0.7
140°-150°	32.7	0.4
150°-160°	15.7	0.2
160°-170°	4.1	0.1
170°-180°	0.0	0.0
0°-30°	2207.6	29.3
0°-40°	3370.9	44.7
0°-60°	5405.1	71.6
0°-90°	6996.1	92.7
90°-120°	367.2	4.9
90°-150°	529.2	7.0
90°-180°	549.0	7.3
0°-180°	7545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	3032	2981	2996	2975	2972	288
15°	2956	2893	2868	2803	2776	835
25°	2793	2669	2463	2205	2115	1287
35°	2494	2220	1765	1482	1416	1556
45°	1998	1583	1202	1159	1194	1536
55°	1335	1009	939	1091	1159	1187
65°	682	610	764	936	986	689
75°	265	331	515	631	657	290
85°	54	154	304	389	399	62
90°	3	108	240	290	287	4
95°	3	91	190	203	197	2
105°	1	80	137	133	126	1
115°	1	72	121	120	116	1
125°	1	61	107	112	110	1
135°	3	46	85	99	99	2
145°	3	29	59	77	82	2
155°	3	18	36	48	59	1
165°	3	10	18	24	31	1
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°	3000.2	3000.2	3000.2	3000.2	3000.2
2.5°	3038.0	2988.5	3004.1	2991.1	2974.1
5°	3031.5	2980.6	2996.3	2975.4	2971.5
7.5°	3019.8	2968.9	2978.0	2953.3	2946.7
10°	3004.1	2950.6	2952.0	2916.7	2907.6
12.5°	2983.2	2924.6	2916.7	2868.5	2855.5
15°	2955.9	2893.3	2868.5	2803.3	2775.9
17.5°	2925.9	2852.9	2802.0	2701.6	2658.6
20°	2885.5	2803.3	2714.6	2562.1	2504.7
22.5°	2845.0	2743.3	2601.2	2397.8	2320.9
25°	2792.9	2669.0	2463.0	2204.8	2114.9
27.5°	2734.2	2581.7	2303.9	2006.6	1910.2
30°	2665.1	2476.0	2129.2	1812.4	1721.1
32.5°	2584.3	2357.4	1945.4	1637.7	1552.9
35°	2494.3	2220.5	1765.4	1482.5	1416.0
37.5°	2391.3	2070.5	1598.5	1357.3	1314.3
40°	2273.9	1907.6	1444.7	1260.8	1246.5
42.5°	2147.5	1748.5	1313.0	1198.3	1211.3
45°	1997.5	1582.9	1202.2	1159.1	1194.3
47.5°	1839.8	1421.2	1112.2	1137.0	1187.8
50°	1687.2	1271.3	1041.8	1122.6	1182.6
52.5°	1498.1	1137.0	985.7	1109.6	1174.8
55°	1335.2	1009.2	938.8	1091.3	1159.1
57.5°	1147.4	894.5	897.1	1067.9	1135.7
60°	990.9	790.1	856.6	1035.3	1100.5
62.5°	831.9	696.3	812.3	992.2	1050.9
65°	681.9	610.2	764.1	936.2	985.7
67.5°	556.8	532.0	709.3	868.4	910.1
70°	451.1	460.3	649.3	792.8	828.0
72.5°	346.8	393.8	584.1	711.9	741.9
75°	264.7	331.2	515.0	631.1	657.1
77.5°	195.6	276.4	452.4	558.1	580.2
80°	138.2	228.2	393.8	494.2	511.1
82.5°	92.6	187.8	345.5	436.8	452.4
85°	53.5	153.9	303.8	388.6	399.0
87.5°	22.2	127.8	269.9	339.0	344.2
90°	2.6	108.2	239.9	289.5	286.9
92.5°	2.6	97.8	213.8	242.5	236.0
95°	2.6	91.3	190.4	203.4	196.9
97.5°	2.6	87.4	169.5	174.7	168.2
100°	1.3	84.8	155.2	155.2	148.6
102.5°	1.3	82.1	144.7	140.8	135.6
105°	1.3	79.5	136.9	133.0	126.5
107.5°	1.3	78.2	131.7	127.8	121.3
110°	1.3	75.6	127.8	123.9	118.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	74.3	125.2	122.6	116.0
115°	1.3	71.7	121.3	120.0	116.0
117.5°	1.3	69.1	118.7	118.7	114.7
120°	1.3	66.5	114.7	117.3	113.4
122.5°	1.3	63.9	110.8	114.7	110.8
125°	1.3	61.3	106.9	112.1	109.5
127.5°	2.6	57.4	101.7	109.5	106.9
130°	1.3	53.5	96.5	106.9	105.6
132.5°	2.6	49.5	91.3	103.0	103.0
135°	2.6	45.6	84.8	99.1	99.1
137.5°	2.6	40.4	78.2	93.9	95.2
140°	2.6	36.5	71.7	88.7	91.3
142.5°	2.6	32.6	65.2	83.4	87.4
145°	2.6	28.7	58.7	76.9	82.1
147.5°	2.6	26.1	52.2	69.1	76.9
150°	2.6	22.2	46.9	62.6	70.4
152.5°	2.6	19.6	41.7	56.1	65.2
155°	2.6	18.3	36.5	48.2	58.7
157.5°	2.6	15.6	31.3	41.7	52.2
160°	2.6	13.0	26.1	36.5	44.3
162.5°	2.6	11.7	22.2	30.0	39.1
165°	2.6	10.4	18.3	23.5	31.3
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)