

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

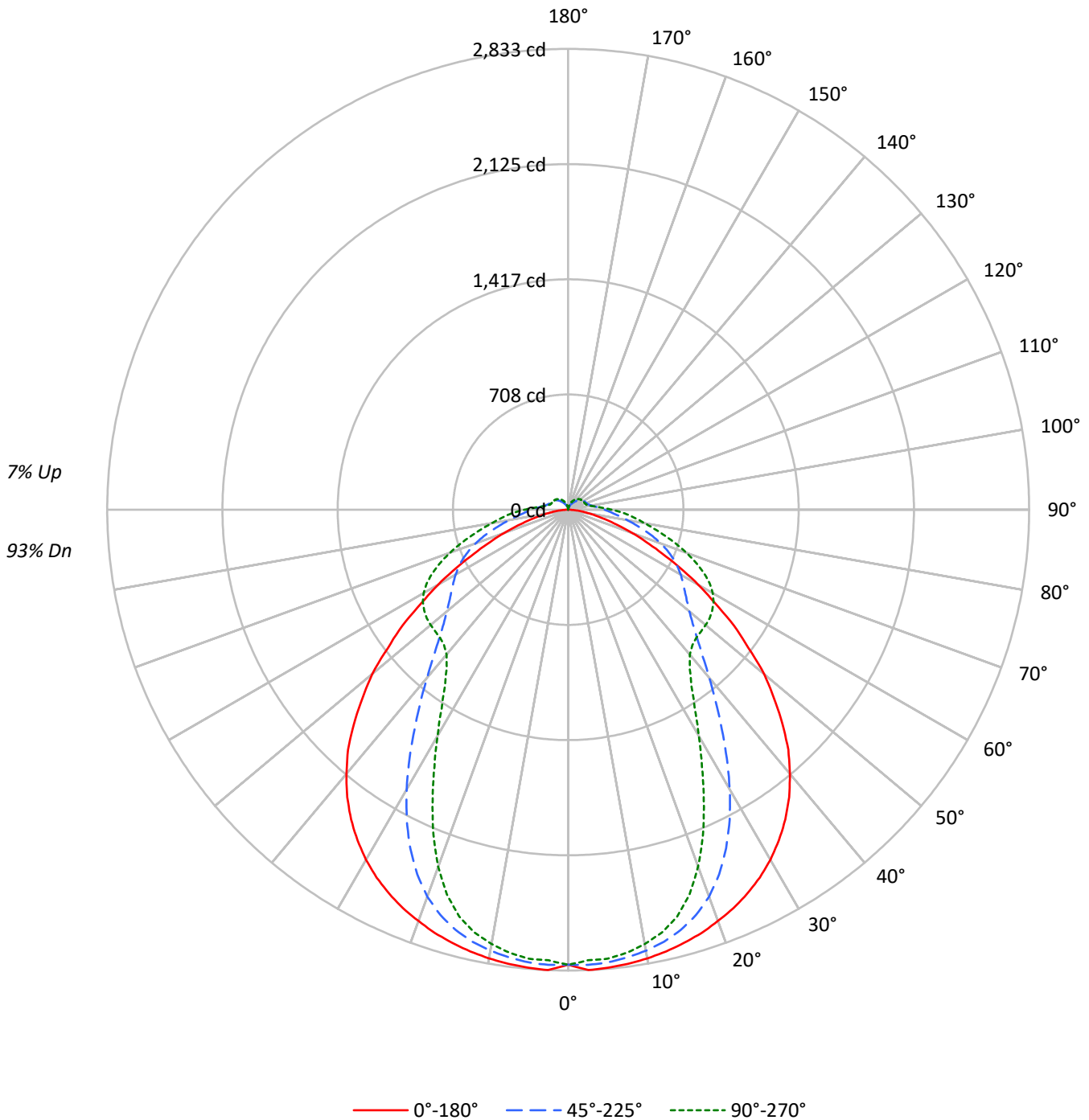
Lumens per Lamp: N/A
Luminaire Lumens: 7035.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	22606	22606	22606
5°	22867	22107	21761
10°	22858	21496	20865
15°	22866	20775	19675
20°	22876	19705	17669
25°	22886	18056	14963
30°	22777	15888	12307
35°	22452	13517	10314
40°	21795	11448	9323
45°	20640	9949	9253
50°	19068	9096	9578
55°	16790	8742	9913
60°	14167	8617	10050
65°	11394	8426	9737
70°	9152	7991	8979
75°	6901	7232	7968
80°	5096	6496	7089
85°	3402	6128	6519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	3.8
10°-20°	748.0	10.6
20°-30°	1045.7	14.9
30°-40°	1084.7	15.4
40°-50°	1002.0	14.2
50°-60°	894.6	12.7
60°-70°	725.0	10.3
70°-80°	482.3	6.9
80°-90°	276.2	3.9
90°-100°	152.8	2.2
100°-110°	103.5	1.5
110°-120°	86.1	1.2
120°-130°	70.0	1.0
130°-140°	50.5	0.7
140°-150°	30.5	0.4
150°-160°	14.6	0.2
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-30°	2058.4	29.3
0°-40°	3143.1	44.7
0°-60°	5039.8	71.6
0°-90°	6523.2	92.7
90°-120°	342.4	4.9
90°-150°	493.4	7.0
90°-180°	512.0	7.3
0°-180°	7035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2797	2797	2797	2797	2797	
5°	2827	2779	2794	2774	2771	269
15°	2756	2698	2675	2614	2588	779
25°	2604	2489	2296	2056	1972	1200
35°	2326	2070	1646	1382	1320	1451
45°	1862	1476	1121	1081	1114	1432
55°	1245	941	875	1018	1081	1107
65°	636	569	712	873	919	643
75°	247	309	480	588	613	271
85°	50	144	283	362	372	57
90°	2	101	224	270	268	4
95°	2	85	178	190	184	2
105°	1	74	128	124	118	1
115°	1	67	113	112	108	1
125°	1	57	100	105	102	1
135°	2	43	79	92	92	2
145°	2	27	55	72	77	2
155°	2	17	34	45	55	1
165°	2	10	17	22	29	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-71SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2797.4	2797.4	2797.4	2797.4	2797.4
2.5°	2832.7	2786.5	2801.0	2788.9	2773.1
5°	2826.6	2779.2	2793.8	2774.3	2770.7
7.5°	2815.6	2768.2	2776.7	2753.6	2747.6
10°	2801.0	2751.2	2752.4	2719.6	2711.1
12.5°	2781.6	2726.9	2719.6	2674.6	2662.5
15°	2756.1	2697.7	2674.6	2613.8	2588.3
17.5°	2728.1	2660.0	2612.6	2519.0	2478.9
20°	2690.4	2613.8	2531.2	2388.9	2335.4
22.5°	2652.7	2557.9	2425.4	2235.7	2164.0
25°	2604.1	2488.6	2296.5	2055.8	1971.9
27.5°	2549.4	2407.1	2148.2	1871.0	1781.0
30°	2485.0	2308.7	1985.3	1689.9	1604.8
32.5°	2409.6	2198.0	1813.9	1527.0	1447.9
35°	2325.7	2070.4	1646.1	1382.3	1320.3
37.5°	2229.7	1930.6	1490.5	1265.6	1225.5
40°	2120.2	1778.6	1347.0	1175.6	1162.2
42.5°	2002.3	1630.3	1224.2	1117.3	1129.4
45°	1862.5	1475.9	1120.9	1080.8	1113.6
47.5°	1715.4	1325.1	1037.0	1060.1	1107.5
50°	1573.2	1185.3	971.4	1046.7	1102.7
52.5°	1396.9	1060.1	919.1	1034.6	1095.4
55°	1244.9	941.0	875.3	1017.6	1080.8
57.5°	1069.8	834.0	836.4	995.7	1058.9
60°	924.0	736.7	798.7	965.3	1026.1
62.5°	775.6	649.2	757.4	925.2	979.9
65°	635.8	569.0	712.4	872.9	919.1
67.5°	519.1	496.0	661.4	809.7	848.6
70°	420.6	429.2	605.4	739.2	772.0
72.5°	323.4	367.2	544.6	663.8	691.8
75°	246.8	308.8	480.2	588.4	612.7
77.5°	182.4	257.7	421.9	520.3	541.0
80°	128.9	212.8	367.2	460.8	476.6
82.5°	86.3	175.1	322.2	407.3	421.9
85°	49.8	143.5	283.3	362.3	372.0
87.5°	20.7	119.1	251.7	316.1	321.0
90°	2.4	100.9	223.7	269.9	267.5
92.5°	2.4	91.2	199.4	226.1	220.0
95°	2.4	85.1	177.5	189.7	183.6
97.5°	2.4	81.5	158.0	162.9	156.8
100°	1.2	79.0	144.7	144.7	138.6
102.5°	1.2	76.6	134.9	131.3	126.4
105°	1.2	74.2	127.7	124.0	117.9
107.5°	1.2	72.9	122.8	119.1	113.1
110°	1.2	70.5	119.1	115.5	110.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-71SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	69.3	116.7	114.3	108.2
115°	1.2	66.9	113.1	111.8	108.2
117.5°	1.2	64.4	110.6	110.6	107.0
120°	1.2	62.0	107.0	109.4	105.8
122.5°	1.2	59.6	103.3	107.0	103.3
125°	1.2	57.1	99.7	104.6	102.1
127.5°	2.4	53.5	94.8	102.1	99.7
130°	1.2	49.8	90.0	99.7	98.5
132.5°	2.4	46.2	85.1	96.0	96.0
135°	2.4	42.6	79.0	92.4	92.4
137.5°	2.4	37.7	72.9	87.5	88.7
140°	2.4	34.0	66.9	82.7	85.1
142.5°	2.4	30.4	60.8	77.8	81.5
145°	2.4	26.7	54.7	71.7	76.6
147.5°	2.4	24.3	48.6	64.4	71.7
150°	2.4	20.7	43.8	58.4	65.6
152.5°	2.4	18.2	38.9	52.3	60.8
155°	2.4	17.0	34.0	45.0	54.7
157.5°	2.4	14.6	29.2	38.9	48.6
160°	2.4	12.2	24.3	34.0	41.3
162.5°	2.4	10.9	20.7	28.0	36.5
165°	2.4	9.7	17.0	21.9	29.2
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)