

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-LD5-78SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-78SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

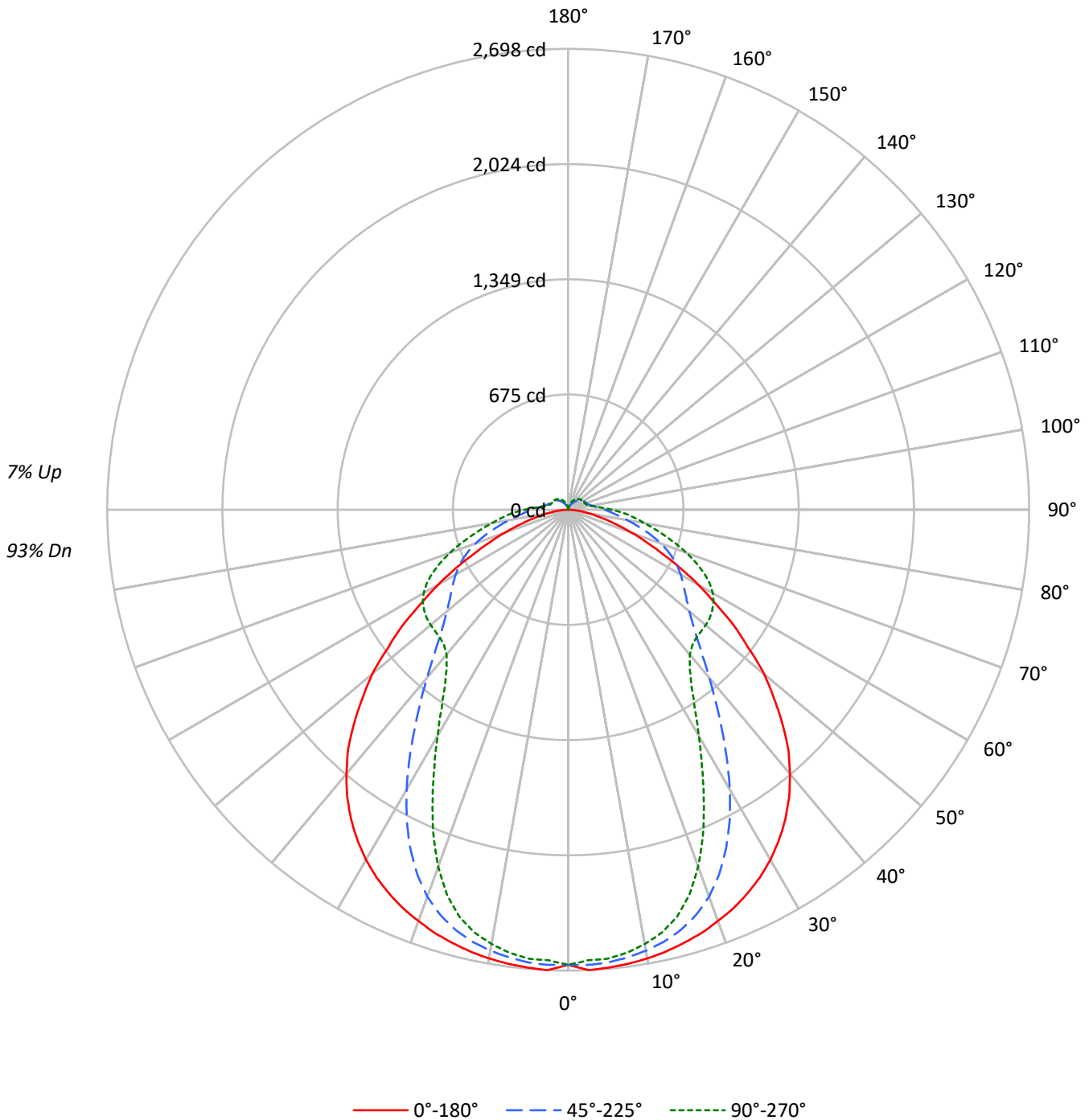
Lumens per Lamp: N/A
Luminaire Lumens: 6700.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	21529	21529	21529
5°	21778	21054	20724
10°	21770	20472	19872
15°	21777	19786	18738
20°	21787	18766	16828
25°	21796	17196	14251
30°	21692	15131	11721
35°	21382	12874	9823
40°	20757	10903	8880
45°	19657	9475	8813
50°	18159	8662	9122
55°	15990	8326	9441
60°	13492	8207	9571
65°	10851	8025	9273
70°	8717	7611	8551
75°	6571	6887	7589
80°	4850	6186	6751
85°	3245	5836	6209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	3.8
10°-20°	712.4	10.6
20°-30°	995.9	14.9
30°-40°	1033.0	15.4
40°-50°	954.3	14.2
50°-60°	852.0	12.7
60°-70°	690.5	10.3
70°-80°	459.3	6.9
80°-90°	263.0	3.9
90°-100°	145.5	2.2
100°-110°	98.5	1.5
110°-120°	82.1	1.2
120°-130°	66.7	1.0
130°-140°	48.1	0.7
140°-150°	29.0	0.4
150°-160°	13.9	0.2
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-30°	1960.4	29.3
0°-40°	2993.4	44.7
0°-60°	4799.8	71.6
0°-90°	6212.6	92.7
90°-120°	326.1	4.9
90°-150°	469.9	7.0
90°-180°	487.0	7.3
0°-180°	6700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2692	2647	2661	2642	2639	256
15°	2625	2569	2547	2489	2465	742
25°	2480	2370	2187	1958	1878	1143
35°	2215	1972	1568	1316	1257	1382
45°	1774	1406	1068	1029	1061	1364
55°	1186	896	834	969	1029	1054
65°	606	542	678	831	875	612
75°	235	294	457	560	584	258
85°	48	137	270	345	354	55
90°	2	96	213	257	255	4
95°	2	81	169	181	175	2
105°	1	71	122	118	112	1
115°	1	64	108	106	103	1
125°	1	54	95	100	97	1
135°	2	40	75	88	88	2
145°	2	26	52	68	73	1
155°	2	16	32	43	52	1
165°	2	9	16	21	28	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°	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	2697.8	2653.8	2667.7	2656.1	2641.0
5°	2692.0	2646.8	2660.7	2642.2	2638.7
7.5°	2681.6	2636.4	2644.5	2622.5	2616.7
10°	2667.7	2620.2	2621.3	2590.1	2582.0
12.5°	2649.1	2597.0	2590.1	2547.2	2535.7
15°	2624.8	2569.2	2547.2	2489.4	2465.0
17.5°	2598.2	2533.4	2488.2	2399.0	2360.8
20°	2562.3	2489.4	2410.6	2275.2	2224.2
22.5°	2526.4	2436.1	2309.9	2129.3	2061.0
25°	2480.1	2370.1	2187.2	1957.9	1878.0
27.5°	2428.0	2292.5	2045.9	1781.9	1696.2
30°	2366.6	2198.7	1890.8	1609.4	1528.3
32.5°	2294.8	2093.4	1727.5	1454.2	1379.0
35°	2214.9	1971.8	1567.7	1316.5	1257.4
37.5°	2123.5	1838.6	1419.5	1205.3	1167.1
40°	2019.3	1693.9	1282.9	1119.6	1106.9
42.5°	1907.0	1552.7	1165.9	1064.1	1075.6
45°	1773.8	1405.6	1067.5	1029.3	1060.6
47.5°	1633.7	1262.0	987.6	1009.6	1054.8
50°	1498.2	1128.9	925.1	996.9	1050.2
52.5°	1330.4	1009.6	875.3	985.3	1043.2
55°	1185.6	896.2	833.6	969.1	1029.3
57.5°	1018.9	794.3	796.6	948.3	1008.5
60°	880.0	701.7	760.7	919.3	977.2
62.5°	738.7	618.3	721.3	881.1	933.2
65°	605.5	541.9	678.5	831.3	875.3
67.5°	494.4	472.4	629.9	771.1	808.2
70°	400.6	408.7	576.6	704.0	735.2
72.5°	308.0	349.7	518.7	632.2	658.8
75°	235.0	294.1	457.3	560.4	583.6
77.5°	173.7	245.5	401.8	495.6	515.2
80°	122.7	202.6	349.7	438.8	453.9
82.5°	82.2	166.7	306.8	387.9	401.8
85°	47.5	136.6	269.8	345.0	354.3
87.5°	19.7	113.5	239.7	301.0	305.7
90°	2.3	96.1	213.0	257.0	254.7
92.5°	2.3	86.8	189.9	215.4	209.6
95°	2.3	81.0	169.0	180.6	174.8
97.5°	2.3	77.6	150.5	155.2	149.4
100°	1.2	75.3	137.8	137.8	132.0
102.5°	1.2	72.9	128.5	125.0	120.4
105°	1.2	70.6	121.6	118.1	112.3
107.5°	1.2	69.5	116.9	113.5	107.7
110°	1.2	67.2	113.5	110.0	105.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	66.0	111.2	108.8	103.0
115°	1.2	63.7	107.7	106.5	103.0
117.5°	1.2	61.4	105.4	105.4	101.9
120°	1.2	59.0	101.9	104.2	100.7
122.5°	1.2	56.7	98.4	101.9	98.4
125°	1.2	54.4	94.9	99.6	97.3
127.5°	2.3	50.9	90.3	97.3	94.9
130°	1.2	47.5	85.7	94.9	93.8
132.5°	2.3	44.0	81.0	91.5	91.5
135°	2.3	40.5	75.3	88.0	88.0
137.5°	2.3	35.9	69.5	83.4	84.5
140°	2.3	32.4	63.7	78.7	81.0
142.5°	2.3	28.9	57.9	74.1	77.6
145°	2.3	25.5	52.1	68.3	72.9
147.5°	2.3	23.2	46.3	61.4	68.3
150°	2.3	19.7	41.7	55.6	62.5
152.5°	2.3	17.4	37.1	49.8	57.9
155°	2.3	16.2	32.4	42.8	52.1
157.5°	2.3	13.9	27.8	37.1	46.3
160°	2.3	11.6	23.2	32.4	39.4
162.5°	2.3	10.4	19.7	26.6	34.7
165°	2.3	9.3	16.2	20.8	27.8
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)