

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: **8SNLED-LD5-112SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-112SL-SLC-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

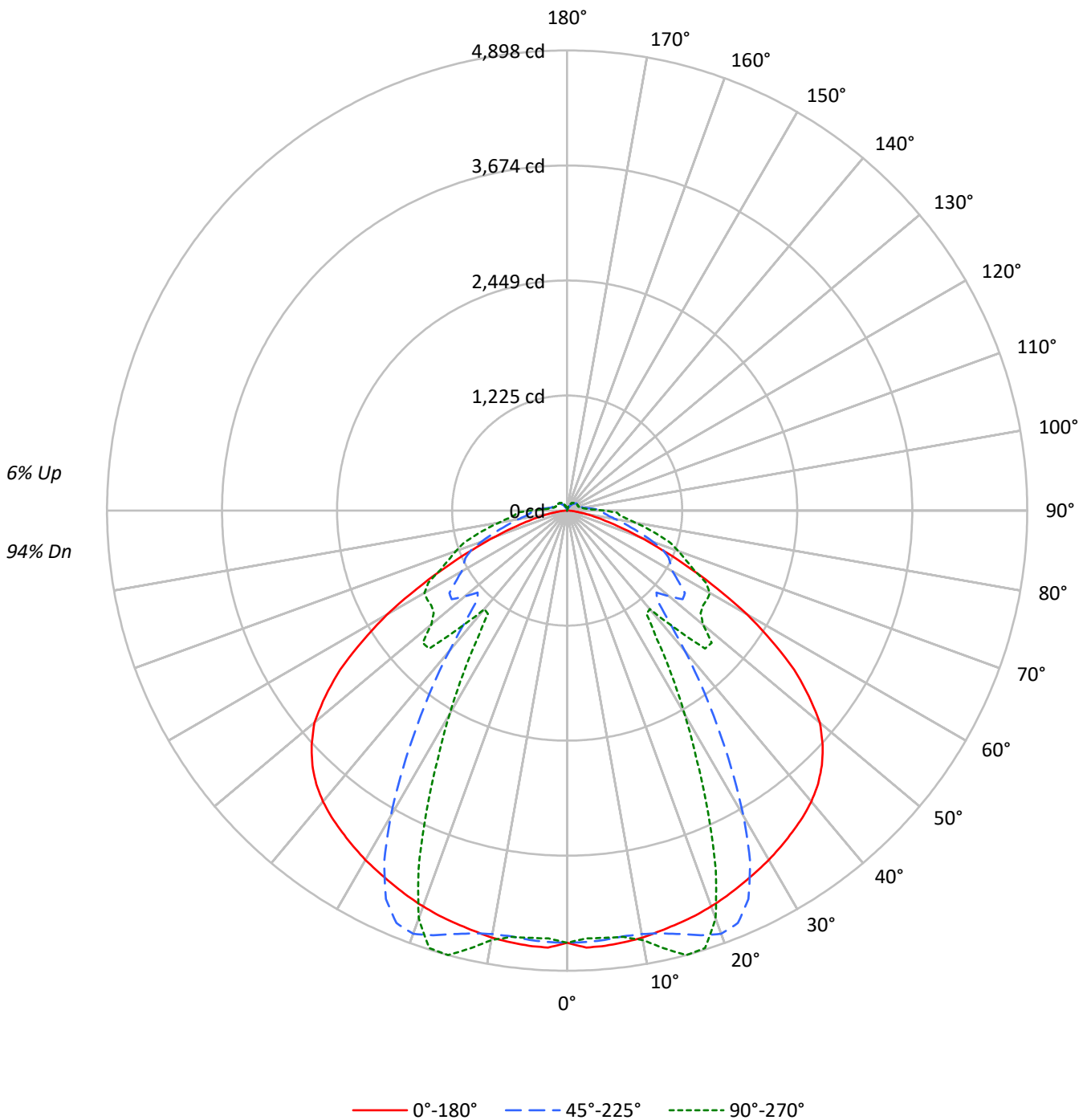
Lumens per Lamp: N/A
Luminaire Lumens: 11814.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 92
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	63	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°	18583	18583	18583
5°	18834	18165	17925
10°	18884	17905	17862
15°	18963	18173	18618
20°	19167	18731	17475
25°	19436	18017	13456
30°	19853	15104	9571
35°	20383	11450	6481
40°	21050	8333	5488
45°	21580	6051	8627
50°	21672	6709	8187
55°	20327	7732	8085
60°	17396	7087	8594
65°	13165	7160	7861
70°	9317	6534	7317
75°	6187	5491	6566
80°	4046	4723	5466
85°	2321	4514	4906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	3.7
10°-20°	1321.3	11.2
20°-30°	1919.5	16.2
30°-40°	1834.0	15.5
40°-50°	1677.6	14.2
50°-60°	1549.0	13.1
60°-70°	1230.4	10.4
70°-80°	759.4	6.4
80°-90°	413.5	3.5
90°-100°	209.0	1.8
100°-110°	131.3	1.1
110°-120°	111.2	0.9
120°-130°	90.9	0.8
130°-140°	65.2	0.6
140°-150°	40.2	0.3
150°-160°	19.1	0.2
160°-170°	5.0	0.0
170°-180°	0.0	0.0
0°-30°	3678.3	31.1
0°-40°	5512.3	46.7
0°-60°	8738.8	74.0
0°-90°	11142.1	94.3
90°-120°	451.6	3.8
90°-150°	647.8	5.5
90°-180°	672.0	5.7
0°-180°	11814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4599	4599	4599	4599	4599	
5°	4650	4579	4587	4562	4564	442
15°	4552	4491	4666	4839	4898	1288
25°	4391	4477	4562	3862	3546	2030
35°	4178	4110	2771	1908	1659	2620
45°	3836	2675	1352	1724	2077	2948
55°	2950	1372	1531	1647	1763	2598
65°	1423	890	1193	1450	1484	1439
75°	419	474	715	947	1010	475
85°	59	202	405	552	560	75
90°	2	151	362	430	397	3
95°	0	140	250	222	210	0
105°	0	126	155	140	138	0
115°	0	104	149	132	126	1
125°	2	84	132	128	122	2
135°	2	59	106	116	112	2
145°	2	37	73	94	100	1
155°	4	22	45	59	71	1
165°	4	12	22	28	39	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°	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4656.1	4588.9	4597.0	4582.8	4558.4
5°	4650.0	4578.7	4586.9	4562.4	4564.5
7.5°	4633.7	4560.4	4570.6	4566.5	4576.7
10°	4615.4	4538.0	4576.7	4611.3	4641.8
12.5°	4582.8	4513.6	4607.2	4709.0	4772.1
15°	4552.3	4491.2	4666.3	4839.3	4898.4
17.5°	4521.7	4483.0	4739.6	4890.2	4882.1
20°	4483.0	4479.0	4794.5	4743.6	4619.4
22.5°	4440.3	4481.0	4751.8	4379.2	4134.9
25°	4391.4	4476.9	4562.4	3862.1	3546.5
27.5°	4342.6	4458.6	4218.4	3296.1	2984.6
30°	4293.7	4409.7	3754.2	2779.0	2496.0
32.5°	4236.7	4303.9	3249.3	2320.9	2060.3
35°	4177.6	4110.5	2770.8	1907.6	1659.3
37.5°	4116.6	3831.5	2341.3	1545.2	1386.4
40°	4043.3	3481.4	1946.3	1325.4	1368.1
42.5°	3951.7	3086.4	1598.2	1390.5	1687.8
45°	3835.6	2675.2	1351.8	1724.4	2076.6
47.5°	3689.0	2280.2	1290.8	1974.8	2084.8
50°	3511.9	1917.8	1419.0	1893.4	1885.2
52.5°	3243.2	1616.5	1549.3	1726.4	1791.6
55°	2950.0	1372.2	1531.0	1647.0	1763.1
57.5°	2579.5	1207.3	1404.8	1630.7	1765.1
60°	2211.0	1097.3	1296.9	1628.7	1754.9
62.5°	1803.8	997.6	1241.9	1590.0	1665.4
65°	1423.1	889.7	1193.0	1449.6	1484.2
67.5°	1091.2	779.7	1107.5	1292.8	1362.0
70°	822.5	671.8	973.2	1172.7	1258.2
72.5°	592.4	570.0	834.7	1066.8	1156.4
75°	419.4	474.4	714.6	946.7	1009.8
77.5°	289.1	386.8	612.8	814.4	865.3
80°	189.3	309.5	521.2	700.3	735.0
82.5°	114.0	248.4	452.0	612.8	631.1
85°	59.0	201.6	405.1	551.7	559.9
87.5°	18.3	169.0	378.7	523.2	533.4
90°	2.0	150.7	362.4	429.6	397.0
92.5°	0.0	142.5	313.5	293.2	262.6
95°	0.0	140.5	250.4	221.9	209.7
97.5°	0.0	136.4	205.6	185.3	179.2
100°	0.0	132.3	177.1	162.9	160.8
102.5°	0.0	130.3	160.8	148.6	146.6
105°	0.0	126.2	154.7	140.5	138.4
107.5°	0.0	120.1	150.7	136.4	132.3
110°	0.0	114.0	150.7	134.4	128.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	107.9	150.7	132.3	126.2
115°	0.0	103.8	148.6	132.3	126.2
117.5°	2.0	99.8	146.6	132.3	126.2
120°	0.0	95.7	142.5	132.3	124.2
122.5°	2.0	89.6	138.4	130.3	124.2
125°	2.0	83.5	132.3	128.3	122.2
127.5°	2.0	77.4	126.2	124.2	118.1
130°	2.0	71.3	120.1	122.2	116.0
132.5°	2.0	65.1	112.0	118.1	114.0
135°	2.0	59.0	105.9	116.0	112.0
137.5°	2.0	52.9	97.7	109.9	109.9
140°	2.0	46.8	89.6	105.9	107.9
142.5°	2.0	42.8	81.4	101.8	103.8
145°	2.0	36.6	73.3	93.7	99.8
147.5°	2.0	32.6	65.1	85.5	93.7
150°	2.0	28.5	57.0	77.4	85.5
152.5°	2.0	24.4	50.9	67.2	79.4
155°	4.1	22.4	44.8	59.0	71.3
157.5°	4.1	18.3	36.6	50.9	61.1
160°	4.1	16.3	32.6	42.8	55.0
162.5°	4.1	14.3	26.5	36.6	46.8
165°	4.1	12.2	22.4	28.5	38.7
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)