

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-LD5-120SL-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: 8SNLED-LD5-120SL-SLN-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

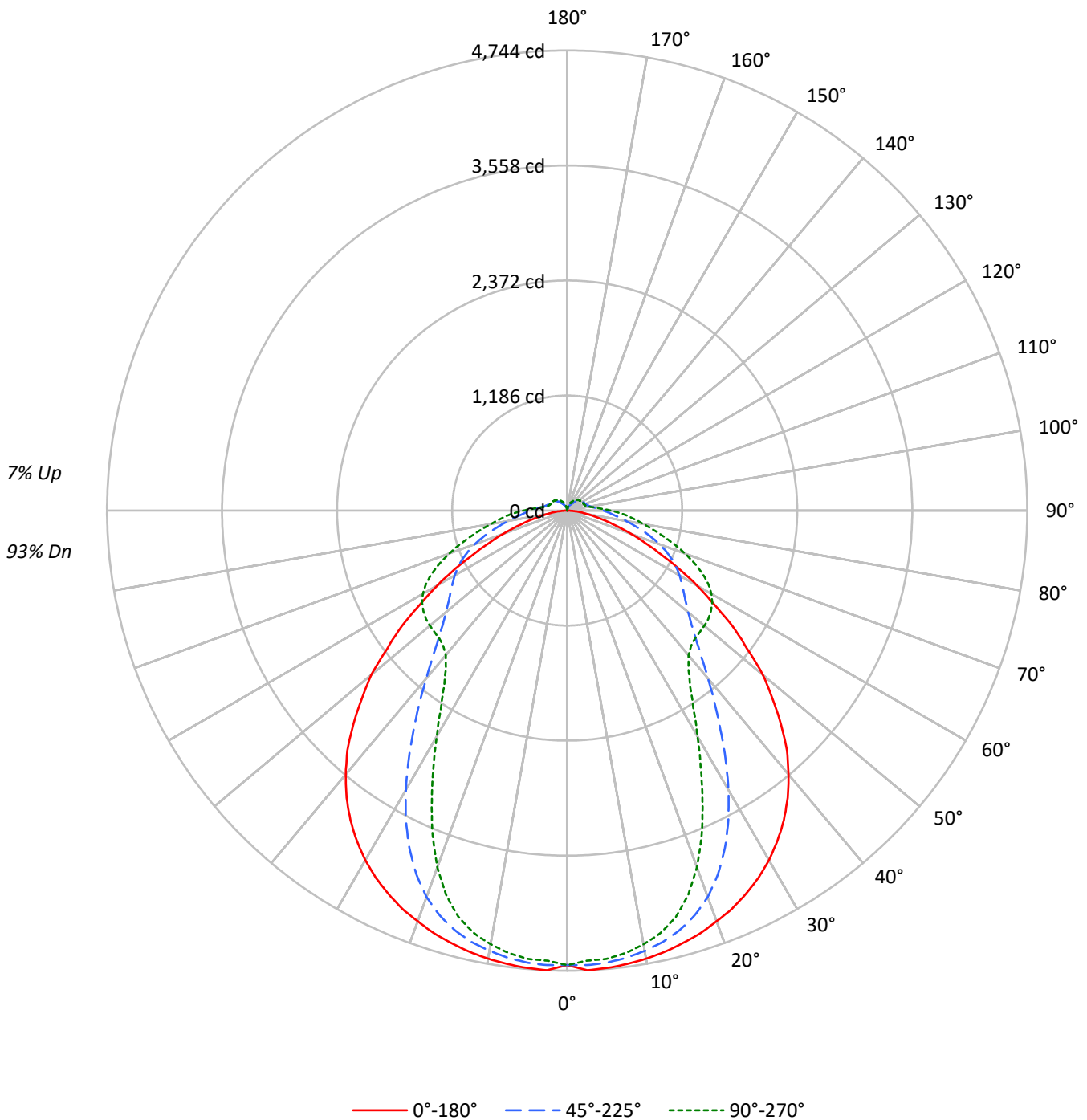
Lumens per Lamp: N/A
Luminaire Lumens: 11782.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 92
Input Voltage (V): NR
Input Current (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°	18930	18930	18930
5°	19174	18529	18222
10°	19194	18034	17472
15°	19228	17445	16476
20°	19265	16561	14796
25°	19303	15189	12530
30°	19243	13377	10306
35°	19004	11393	8637
40°	18487	9659	7808
45°	17550	8404	7748
50°	16259	7692	8020
55°	14366	7404	8301
60°	12175	7310	8415
65°	9851	7161	8153
70°	7980	6808	7519
75°	6097	6179	6673
80°	4613	5572	5935
85°	3284	5287	5459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	3.8
10°-20°	1252.8	10.6
20°-30°	1751.3	14.9
30°-40°	1816.6	15.4
40°-50°	1678.2	14.2
50°-60°	1498.3	12.7
60°-70°	1214.3	10.3
70°-80°	807.6	6.9
80°-90°	462.5	3.9
90°-100°	255.9	2.2
100°-110°	173.3	1.5
110°-120°	144.3	1.2
120°-130°	117.3	1.0
130°-140°	84.6	0.7
140°-150°	51.0	0.4
150°-160°	24.5	0.2
160°-170°	6.3	0.1
170°-180°	0.0	0.0
0°-30°	3447.3	29.3
0°-40°	5263.9	44.7
0°-60°	8440.4	71.6
0°-90°	10924.8	92.7
90°-120°	573.4	4.9
90°-150°	826.3	7.0
90°-180°	857.0	7.3
0°-180°	11782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4685	4685	4685	4685	4685	
5°	4734	4654	4679	4646	4640	450
15°	4616	4518	4479	4378	4335	1304
25°	4361	4168	3846	3443	3302	2010
35°	3895	3467	2757	2315	2211	2430
45°	3119	2472	1877	1810	1865	2398
55°	2085	1576	1466	1704	1810	1854
65°	1065	953	1193	1462	1539	1076
75°	413	517	804	986	1026	453
85°	84	240	474	607	623	96
90°	4	169	375	452	448	6
95°	4	142	297	318	307	3
105°	2	124	214	208	198	2
115°	2	112	189	187	181	2
125°	2	96	167	175	171	2
135°	4	71	132	155	155	3
145°	4	45	92	120	128	3
155°	4	28	57	75	92	2
165°	4	16	28	37	49	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4685.0	4685.0	4685.0	4685.0	4685.0
2.5°	4744.0	4666.7	4691.1	4670.7	4644.3
5°	4733.9	4654.5	4678.9	4646.3	4640.2
7.5°	4715.5	4636.1	4650.4	4611.7	4601.5
10°	4691.1	4607.6	4609.7	4554.7	4540.4
12.5°	4658.5	4566.9	4554.7	4479.4	4459.0
15°	4615.8	4518.0	4479.4	4377.5	4334.8
17.5°	4568.9	4454.9	4375.5	4218.7	4151.5
20°	4505.8	4377.5	4239.1	4000.9	3911.3
22.5°	4442.7	4283.9	4062.0	3744.3	3624.2
25°	4361.3	4167.8	3846.1	3443.0	3302.5
27.5°	4269.6	4031.4	3597.7	3133.5	2982.8
30°	4161.7	3866.5	3324.9	2830.1	2687.6
32.5°	4035.5	3681.2	3037.8	2557.3	2425.0
35°	3895.0	3467.4	2756.8	2315.0	2211.2
37.5°	3734.2	3233.3	2496.2	2119.5	2052.4
40°	3550.9	2978.8	2256.0	1968.9	1946.5
42.5°	3353.4	2730.4	2050.3	1871.1	1891.5
45°	3119.3	2471.8	1877.3	1810.1	1865.0
47.5°	2872.9	2219.3	1736.8	1775.5	1854.9
50°	2634.7	1985.2	1626.8	1753.1	1846.7
52.5°	2339.4	1775.5	1539.3	1732.7	1834.5
55°	2084.9	1575.9	1466.0	1704.2	1810.1
57.5°	1791.7	1396.7	1400.8	1667.5	1773.4
60°	1547.4	1233.9	1337.7	1616.6	1718.4
62.5°	1299.0	1087.3	1268.5	1549.4	1641.1
65°	1064.9	952.9	1193.1	1461.9	1539.3
67.5°	869.4	830.7	1107.6	1356.0	1421.2
70°	704.5	718.7	1014.0	1237.9	1292.9
72.5°	541.6	614.9	912.2	1111.7	1158.5
75°	413.3	517.2	804.2	985.5	1026.2
77.5°	305.4	431.6	706.5	871.4	906.1
80°	215.8	356.3	614.9	771.7	798.1
82.5°	144.6	293.2	539.6	682.1	706.5
85°	83.5	240.3	474.4	606.7	623.0
87.5°	34.6	199.5	421.5	529.4	537.5
90°	4.1	169.0	374.6	452.0	447.9
92.5°	4.1	152.7	333.9	378.7	368.5
95°	4.1	142.5	297.3	317.6	307.4
97.5°	4.1	136.4	264.7	272.8	262.7
100°	2.0	132.3	242.3	242.3	232.1
102.5°	2.0	128.3	226.0	219.9	211.8
105°	2.0	124.2	213.8	207.7	197.5
107.5°	2.0	122.2	205.6	199.5	189.4
110°	2.0	118.1	199.5	193.4	185.3



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CATALOG NUMBER: 8SNLED-LD5-120SL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	116.1	195.5	191.4	181.2
115°	2.0	112.0	189.4	187.3	181.2
117.5°	2.0	107.9	185.3	185.3	179.2
120°	2.0	103.8	179.2	183.2	177.1
122.5°	2.0	99.8	173.1	179.2	173.1
125°	2.0	95.7	167.0	175.1	171.0
127.5°	4.1	89.6	158.8	171.0	167.0
130°	2.0	83.5	150.7	167.0	164.9
132.5°	4.1	77.4	142.5	160.8	160.8
135°	4.1	71.3	132.3	154.7	154.7
137.5°	4.1	63.1	122.2	146.6	148.6
140°	4.1	57.0	112.0	138.5	142.5
142.5°	4.1	50.9	101.8	130.3	136.4
145°	4.1	44.8	91.6	120.1	128.3
147.5°	4.1	40.7	81.4	107.9	120.1
150°	4.1	34.6	73.3	97.7	109.9
152.5°	4.1	30.5	65.2	87.6	101.8
155°	4.1	28.5	57.0	75.3	91.6
157.5°	4.1	24.4	48.9	65.2	81.4
160°	4.1	20.4	40.7	57.0	69.2
162.5°	4.1	18.3	34.6	46.8	61.1
165°	4.1	16.3	28.5	36.6	48.9
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)