

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-LD5-91SL-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-LD5-91SL-SLN-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

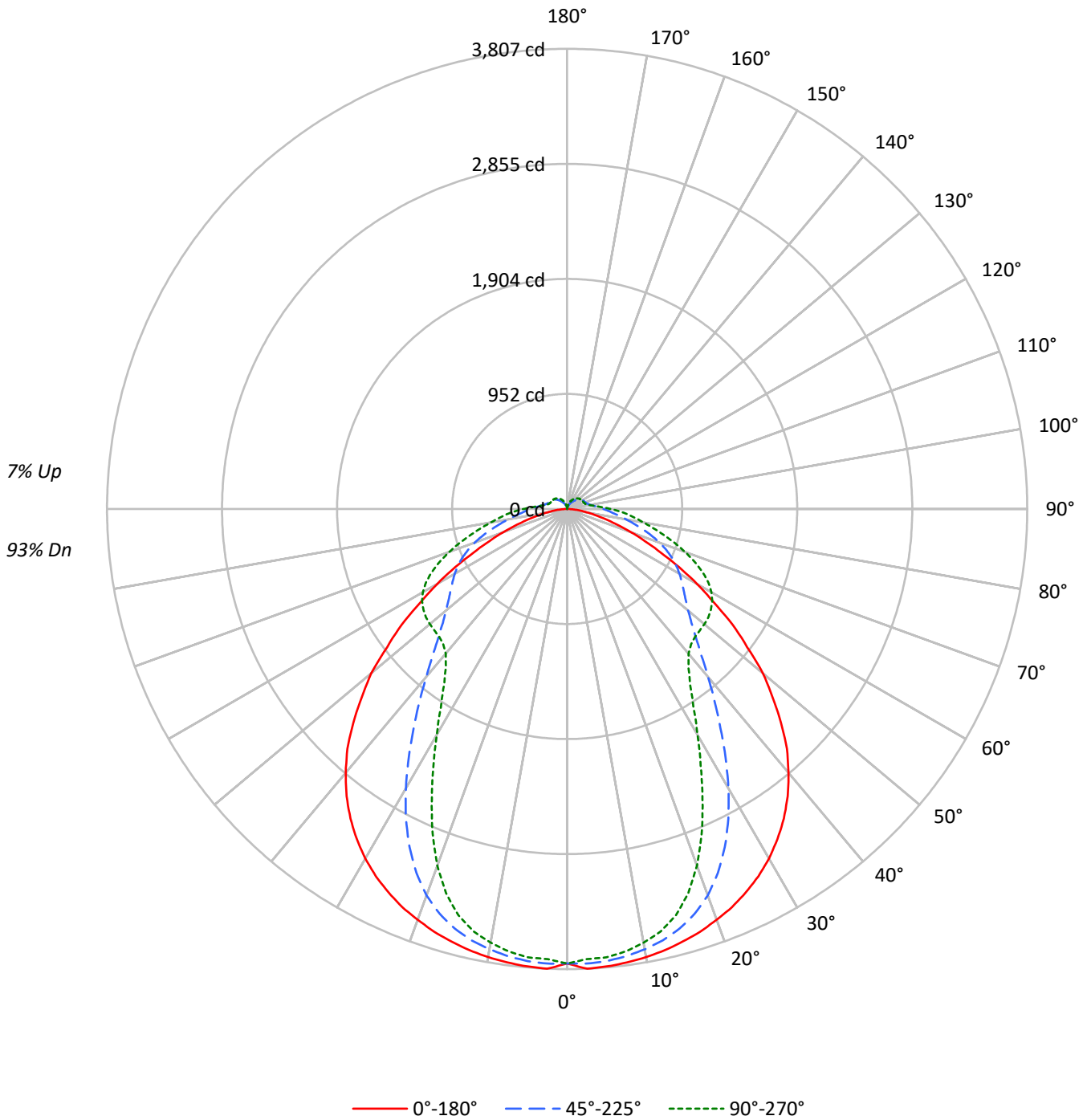
Lumens per Lamp: N/A
Luminaire Lumens: 9455.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
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°	15191	15191	15191
5°	15387	14870	14623
10°	15403	14472	14021
15°	15430	14000	13221
20°	15460	13290	11874
25°	15490	12189	10055
30°	15443	10735	8270
35°	15251	9142	6931
40°	14836	7751	6265
45°	14084	6744	6218
50°	13047	6172	6436
55°	11529	5941	6662
60°	9771	5866	6753
65°	7905	5747	6543
70°	6403	5463	6034
75°	4893	4959	5355
80°	3702	4471	4763
85°	2635	4242	4381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.7	3.8
10°-20°	1005.4	10.6
20°-30°	1405.4	14.9
30°-40°	1457.8	15.4
40°-50°	1346.7	14.2
50°-60°	1202.4	12.7
60°-70°	974.4	10.3
70°-80°	648.1	6.9
80°-90°	371.1	3.9
90°-100°	205.3	2.2
100°-110°	139.1	1.5
110°-120°	115.8	1.2
120°-130°	94.1	1.0
130°-140°	67.9	0.7
140°-150°	40.9	0.4
150°-160°	19.7	0.2
160°-170°	5.1	0.1
170°-180°	0.0	0.0
0°-30°	2766.5	29.3
0°-40°	4224.3	44.7
0°-60°	6773.4	71.6
0°-90°	8767.1	92.7
90°-120°	460.2	4.9
90°-150°	663.1	7.0
90°-180°	688.0	7.3
0°-180°	9455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3760	3760	3760	3760	3760	
5°	3799	3735	3755	3729	3724	361
15°	3704	3626	3595	3513	3479	1047
25°	3500	3345	3086	2763	2650	1613
35°	3126	2783	2212	1858	1774	1950
45°	2503	1984	1506	1453	1497	1925
55°	1673	1265	1176	1368	1453	1488
65°	854	765	958	1173	1235	864
75°	332	415	645	791	824	364
85°	67	193	381	487	500	77
90°	3	136	301	363	360	5
95°	3	114	239	255	247	2
105°	2	100	172	167	158	2
115°	2	90	152	150	145	2
125°	2	77	134	140	137	2
135°	3	57	106	124	124	2
145°	3	36	74	96	103	2
155°	3	23	46	60	74	2
165°	3	13	23	29	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°	3759.7	3759.7	3759.7	3759.7	3759.7
2.5°	3807.1	3745.0	3764.6	3748.2	3727.0
5°	3798.9	3735.2	3754.8	3728.6	3723.7
7.5°	3784.2	3720.5	3731.9	3700.9	3692.7
10°	3764.6	3697.6	3699.2	3655.1	3643.7
12.5°	3738.4	3664.9	3655.1	3594.7	3578.3
15°	3704.1	3625.7	3594.7	3513.0	3478.6
17.5°	3666.6	3575.1	3511.3	3385.5	3331.6
20°	3615.9	3513.0	3401.9	3210.7	3138.8
22.5°	3565.2	3437.8	3259.7	3004.8	2908.4
25°	3499.9	3344.7	3086.5	2763.0	2650.2
27.5°	3426.4	3235.2	2887.2	2514.6	2393.7
30°	3339.8	3102.8	2668.2	2271.2	2156.8
32.5°	3238.5	2954.2	2437.8	2052.2	1946.0
35°	3125.7	2782.6	2212.3	1857.8	1774.5
37.5°	2996.6	2594.7	2003.2	1700.9	1647.0
40°	2849.6	2390.4	1810.4	1580.0	1562.0
42.5°	2691.1	2191.1	1645.4	1501.6	1517.9
45°	2503.2	1983.6	1506.5	1452.6	1496.7
47.5°	2305.5	1781.0	1393.7	1424.8	1488.5
50°	2114.3	1593.1	1305.5	1406.8	1482.0
52.5°	1877.4	1424.8	1235.3	1390.5	1472.2
55°	1673.2	1264.7	1176.4	1367.6	1452.6
57.5°	1437.9	1120.9	1124.1	1338.2	1423.2
60°	1241.8	990.2	1073.5	1297.3	1379.0
62.5°	1042.5	872.5	1017.9	1243.4	1317.0
65°	854.5	764.7	957.5	1173.2	1235.3
67.5°	697.7	666.6	888.9	1088.2	1140.5
70°	565.3	576.8	813.7	993.4	1037.5
72.5°	434.6	493.4	732.0	892.1	929.7
75°	331.7	415.0	645.4	790.8	823.5
77.5°	245.1	346.4	567.0	699.3	727.1
80°	173.2	285.9	493.4	619.3	640.5
82.5°	116.0	235.3	433.0	547.4	567.0
85°	67.0	192.8	380.7	486.9	500.0
87.5°	27.8	160.1	338.2	424.8	431.4
90°	3.3	135.6	300.6	362.7	359.5
92.5°	3.3	122.5	268.0	303.9	295.7
95°	3.3	114.4	238.6	254.9	246.7
97.5°	3.3	109.5	212.4	218.9	210.8
100°	1.6	106.2	194.4	194.4	186.3
102.5°	1.6	102.9	181.4	176.5	169.9
105°	1.6	99.7	171.6	166.7	158.5
107.5°	1.6	98.0	165.0	160.1	152.0
110°	1.6	94.8	160.1	155.2	148.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	93.1	156.9	153.6	145.4
115°	1.6	89.9	152.0	150.3	145.4
117.5°	1.6	86.6	148.7	148.7	143.8
120°	1.6	83.3	143.8	147.1	142.2
122.5°	1.6	80.1	138.9	143.8	138.9
125°	1.6	76.8	134.0	140.5	137.3
127.5°	3.3	71.9	127.4	137.3	134.0
130°	1.6	67.0	120.9	134.0	132.3
132.5°	3.3	62.1	114.4	129.1	129.1
135°	3.3	57.2	106.2	124.2	124.2
137.5°	3.3	50.7	98.0	117.6	119.3
140°	3.3	45.8	89.9	111.1	114.4
142.5°	3.3	40.8	81.7	104.6	109.5
145°	3.3	35.9	73.5	96.4	102.9
147.5°	3.3	32.7	65.4	86.6	96.4
150°	3.3	27.8	58.8	78.4	88.2
152.5°	3.3	24.5	52.3	70.3	81.7
155°	3.3	22.9	45.8	60.5	73.5
157.5°	3.3	19.6	39.2	52.3	65.4
160°	3.3	16.3	32.7	45.8	55.6
162.5°	3.3	14.7	27.8	37.6	49.0
165°	3.3	13.1	22.9	29.4	39.2
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)