

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-L835-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-L835-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

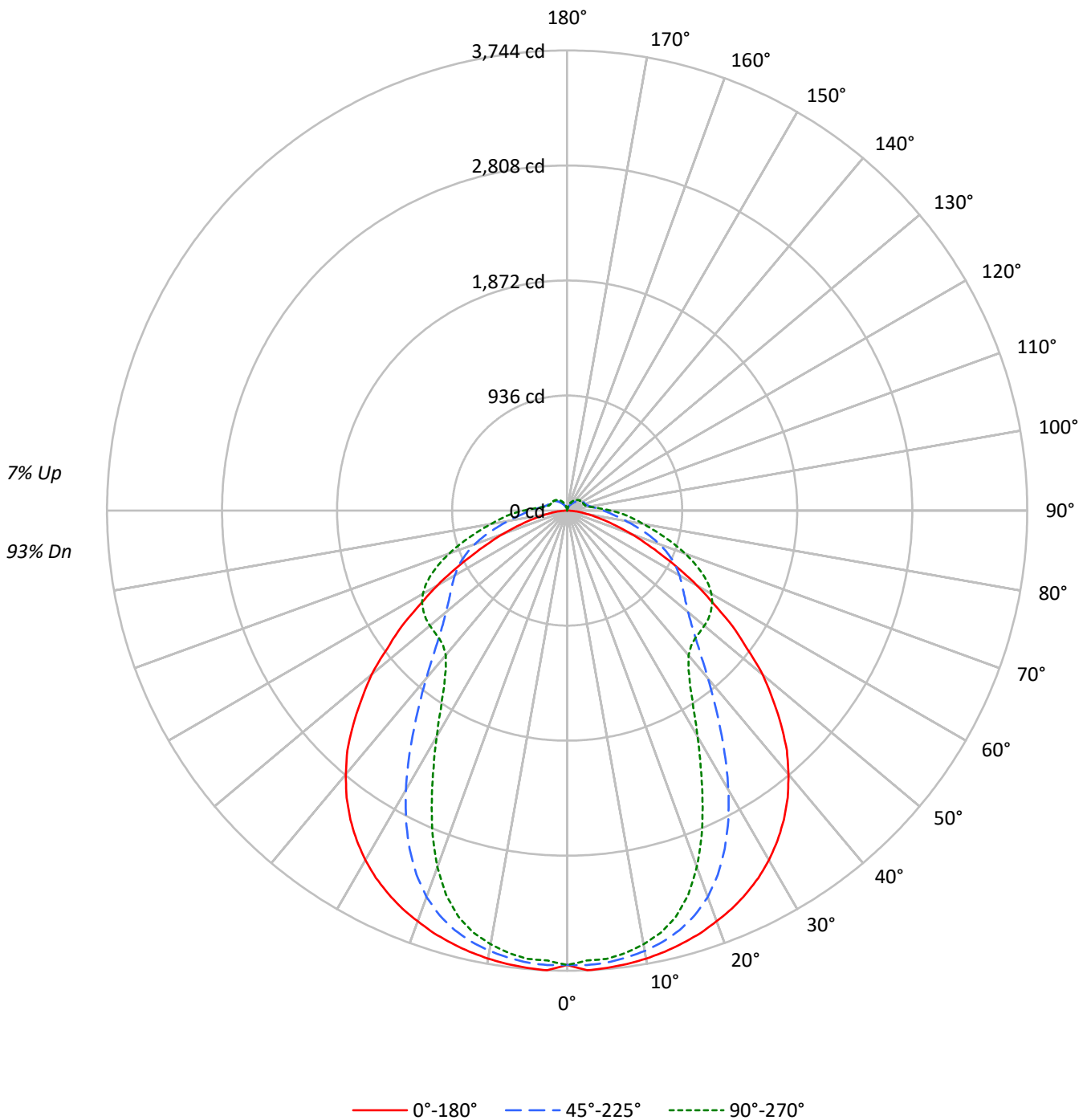
Lumens per Lamp: N/A
Luminaire Lumens: 9297.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
Input Voltage (V): NR
Input Current (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°	14937	14937	14937
5°	15130	14621	14379
10°	15146	14230	13787
15°	15172	13766	13000
20°	15202	13068	11675
25°	15231	11985	9887
30°	15185	10556	8132
35°	14996	8990	6815
40°	14588	7621	6161
45°	13848	6631	6114
50°	12830	6069	6329
55°	11336	5842	6550
60°	9607	5768	6640
65°	7773	5651	6433
70°	6297	5372	5933
75°	4810	4876	5265
80°	3640	4396	4684
85°	2592	4171	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.8	3.8
10°-20°	988.6	10.6
20°-30°	1381.9	14.9
30°-40°	1433.4	15.4
40°-50°	1324.3	14.2
50°-60°	1182.3	12.7
60°-70°	958.1	10.3
70°-80°	637.3	6.9
80°-90°	365.0	3.9
90°-100°	201.9	2.2
100°-110°	136.7	1.5
110°-120°	113.8	1.2
120°-130°	92.6	1.0
130°-140°	66.8	0.7
140°-150°	40.2	0.4
150°-160°	19.3	0.2
160°-170°	5.0	0.1
170°-180°	0.0	0.0
0°-30°	2720.3	29.3
0°-40°	4153.7	44.7
0°-60°	6660.2	71.6
0°-90°	8620.6	92.7
90°-120°	452.5	4.9
90°-150°	652.0	7.0
90°-180°	676.0	7.3
0°-180°	9297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3697	3697	3697	3697	3697	
5°	3735	3673	3692	3666	3662	355
15°	3642	3565	3535	3454	3420	1029
25°	3441	3289	3035	2717	2606	1586
35°	3074	2736	2175	1827	1745	1918
45°	2461	1950	1481	1428	1472	1893
55°	1645	1244	1157	1345	1428	1463
65°	840	752	942	1154	1215	849
75°	326	408	635	778	810	358
85°	66	190	374	479	492	76
90°	3	133	296	357	354	5
95°	3	112	235	251	243	2
105°	2	98	169	164	156	2
115°	2	88	149	148	143	2
125°	2	76	132	138	135	2
135°	3	56	104	122	122	2
145°	3	35	72	95	101	2
155°	3	22	45	59	72	1
165°	3	13	22	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°	3696.9	3696.9	3696.9	3696.9	3696.9
2.5°	3743.5	3682.4	3701.7	3685.6	3664.7
5°	3735.4	3672.8	3692.0	3666.3	3661.5
7.5°	3721.0	3658.3	3669.5	3639.0	3631.0
10°	3701.7	3635.8	3637.4	3594.0	3582.8
12.5°	3676.0	3603.7	3594.0	3534.6	3518.5
15°	3642.2	3565.1	3534.6	3454.3	3420.5
17.5°	3605.3	3515.3	3452.7	3328.9	3275.9
20°	3555.5	3454.3	3345.0	3157.0	3086.3
22.5°	3505.7	3380.4	3205.2	2954.6	2859.8
25°	3441.4	3288.8	3034.9	2716.8	2606.0
27.5°	3369.1	3181.1	2838.9	2472.6	2353.7
30°	3284.0	3051.0	2623.6	2233.2	2120.8
32.5°	3184.3	2904.8	2397.1	2017.9	1913.5
35°	3073.5	2736.1	2175.4	1826.7	1744.8
37.5°	2946.6	2551.3	1969.7	1672.5	1619.5
40°	2802.0	2350.5	1780.1	1553.6	1535.9
42.5°	2646.1	2154.5	1617.9	1476.5	1492.6
45°	2461.4	1950.5	1481.3	1428.3	1471.7
47.5°	2267.0	1751.2	1370.5	1401.0	1463.6
50°	2079.0	1566.5	1283.7	1383.3	1457.2
52.5°	1846.0	1401.0	1214.6	1367.2	1447.6
55°	1645.2	1243.5	1156.8	1344.8	1428.3
57.5°	1413.8	1102.1	1105.4	1315.8	1399.4
60°	1221.0	973.6	1055.6	1275.7	1356.0
62.5°	1025.0	857.9	1000.9	1222.6	1294.9
65°	840.3	751.9	941.5	1153.6	1214.6
67.5°	686.0	655.5	874.0	1070.0	1121.4
70°	555.9	567.1	800.1	976.8	1020.2
72.5°	427.4	485.2	719.8	877.2	914.2
75°	326.1	408.1	634.6	777.6	809.7
77.5°	241.0	340.6	557.5	687.6	715.0
80°	170.3	281.2	485.2	608.9	629.8
82.5°	114.1	231.4	425.8	538.2	557.5
85°	65.9	189.6	374.3	478.8	491.6
87.5°	27.3	157.4	332.6	417.7	424.2
90°	3.2	133.4	295.6	356.7	353.5
92.5°	3.2	120.5	263.5	298.8	290.8
95°	3.2	112.5	234.6	250.6	242.6
97.5°	3.2	107.6	208.9	215.3	207.3
100°	1.6	104.4	191.2	191.2	183.2
102.5°	1.6	101.2	178.3	173.5	167.1
105°	1.6	98.0	168.7	163.9	155.8
107.5°	1.6	96.4	162.3	157.4	149.4
110°	1.6	93.2	157.4	152.6	146.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	91.6	154.2	151.0	143.0
115°	1.6	88.4	149.4	147.8	143.0
117.5°	1.6	85.2	146.2	146.2	141.4
120°	1.6	81.9	141.4	144.6	139.8
122.5°	1.6	78.7	136.6	141.4	136.6
125°	1.6	75.5	131.7	138.2	135.0
127.5°	3.2	70.7	125.3	135.0	131.7
130°	1.6	65.9	118.9	131.7	130.1
132.5°	3.2	61.1	112.5	126.9	126.9
135°	3.2	56.2	104.4	122.1	122.1
137.5°	3.2	49.8	96.4	115.7	117.3
140°	3.2	45.0	88.4	109.3	112.5
142.5°	3.2	40.2	80.3	102.8	107.6
145°	3.2	35.3	72.3	94.8	101.2
147.5°	3.2	32.1	64.3	85.2	94.8
150°	3.2	27.3	57.8	77.1	86.8
152.5°	3.2	24.1	51.4	69.1	80.3
155°	3.2	22.5	45.0	59.4	72.3
157.5°	3.2	19.3	38.6	51.4	64.3
160°	3.2	16.1	32.1	45.0	54.6
162.5°	3.2	14.5	27.3	37.0	48.2
165°	3.2	12.9	22.5	28.9	38.6
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)