

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-L940-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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

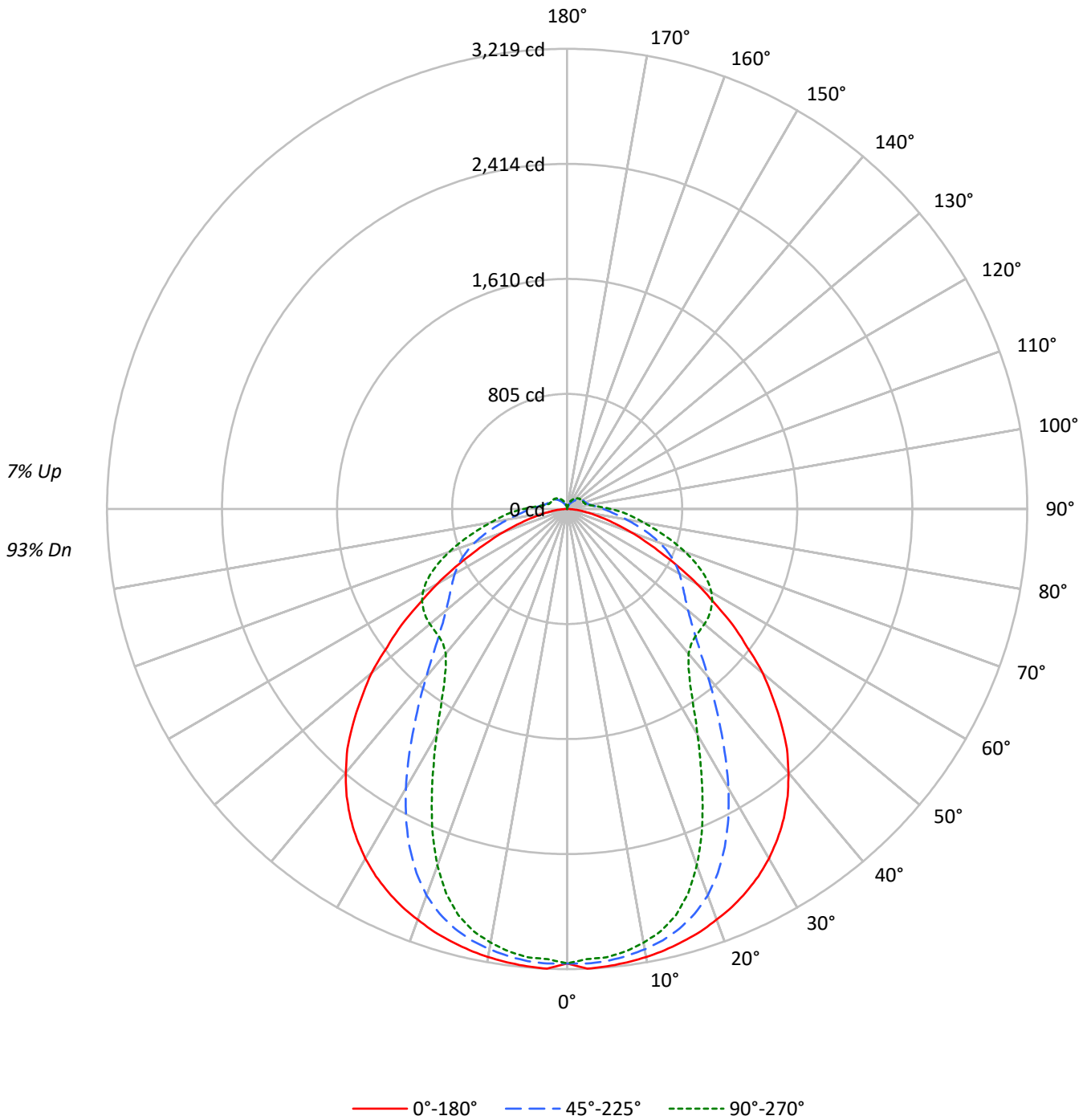
Lumens per Lamp: N/A
Luminaire Lumens: 7994.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	12844	12844	12844
5°	13009	12572	12363
10°	13023	12236	11855
15°	13046	11836	11178
20°	13071	11236	10039
25°	13097	10306	8501
30°	13056	9076	6992
35°	12894	7730	5860
40°	12543	6553	5297
45°	11907	5702	5257
50°	11031	5219	5442
55°	9748	5023	5632
60°	8261	4959	5710
65°	6684	4859	5532
70°	5414	4619	5102
75°	4136	4193	4528
80°	3129	3780	4027
85°	2226	3587	3704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	3.8
10°-20°	850.0	10.6
20°-30°	1188.2	14.9
30°-40°	1232.5	15.4
40°-50°	1138.6	14.2
50°-60°	1016.6	12.7
60°-70°	823.9	10.3
70°-80°	548.0	6.9
80°-90°	313.8	3.9
90°-100°	173.6	2.2
100°-110°	117.6	1.5
110°-120°	97.9	1.2
120°-130°	79.6	1.0
130°-140°	57.4	0.7
140°-150°	34.6	0.4
150°-160°	16.6	0.2
160°-170°	4.3	0.1
170°-180°	0.0	0.0
0°-30°	2339.0	29.3
0°-40°	3571.5	44.7
0°-60°	5726.8	71.6
0°-90°	7412.4	92.7
90°-120°	389.1	4.9
90°-150°	560.7	7.0
90°-180°	582.0	7.3
0°-180°	7994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3212	3158	3175	3152	3148	306
15°	3132	3066	3039	2970	2941	885
25°	2959	2828	2610	2336	2241	1364
35°	2643	2353	1870	1571	1500	1649
45°	2116	1677	1274	1228	1265	1627
55°	1415	1069	995	1156	1228	1258
65°	722	646	810	992	1044	730
75°	280	351	546	669	696	307
85°	57	163	322	412	423	65
90°	3	115	254	307	304	4
95°	3	97	202	216	209	2
105°	1	84	145	141	134	1
115°	1	76	128	127	123	1
125°	1	65	113	119	116	2
135°	3	48	90	105	105	2
145°	3	30	62	82	87	2
155°	3	19	39	51	62	1
165°	3	11	19	25	33	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3218.8	3166.3	3182.9	3169.1	3151.1
5°	3211.9	3158.0	3174.6	3152.5	3148.3
7.5°	3199.5	3145.6	3155.2	3129.0	3122.1
10°	3182.9	3126.2	3127.6	3090.3	3080.7
12.5°	3160.8	3098.6	3090.3	3039.2	3025.4
15°	3131.8	3065.5	3039.2	2970.1	2941.1
17.5°	3100.0	3022.6	2968.8	2862.4	2816.8
20°	3057.2	2970.1	2876.2	2714.6	2653.8
22.5°	3014.3	2906.6	2756.0	2540.5	2459.0
25°	2959.1	2827.8	2609.6	2336.0	2240.7
27.5°	2896.9	2735.3	2441.0	2126.1	2023.8
30°	2823.7	2623.4	2255.9	1920.2	1823.5
32.5°	2738.0	2497.7	2061.1	1735.1	1645.3
35°	2642.7	2352.6	1870.5	1570.7	1500.3
37.5°	2533.6	2193.8	1693.7	1438.1	1392.5
40°	2409.3	2021.1	1530.7	1335.9	1320.7
42.5°	2275.3	1852.5	1391.1	1269.6	1283.4
45°	2116.4	1677.1	1273.7	1228.1	1265.4
47.5°	1949.2	1505.8	1178.4	1204.6	1258.5
50°	1787.6	1346.9	1103.8	1189.4	1253.0
52.5°	1587.3	1204.6	1044.4	1175.6	1244.7
55°	1414.6	1069.2	994.6	1156.3	1228.1
57.5°	1215.7	947.7	950.4	1131.4	1203.2
60°	1049.9	837.2	907.6	1096.9	1166.0
62.5°	881.4	737.7	860.6	1051.3	1113.5
65°	722.5	646.5	809.5	991.9	1044.4
67.5°	589.9	563.6	751.5	920.1	964.3
70°	478.0	487.7	688.0	839.9	877.2
72.5°	367.5	417.2	618.9	754.3	786.0
75°	280.4	350.9	545.7	668.6	696.3
77.5°	207.2	292.9	479.4	591.3	614.7
80°	146.4	241.8	417.2	523.6	541.5
82.5°	98.1	198.9	366.1	462.8	479.4
85°	56.6	163.0	321.9	411.7	422.7
87.5°	23.5	135.4	286.0	359.2	364.7
90°	2.8	114.7	254.2	306.7	303.9
92.5°	2.8	103.6	226.6	257.0	250.0
95°	2.8	96.7	201.7	215.5	208.6
97.5°	2.8	92.6	179.6	185.1	178.2
100°	1.4	89.8	164.4	164.4	157.5
102.5°	1.4	87.0	153.3	149.2	143.7
105°	1.4	84.3	145.1	140.9	134.0
107.5°	1.4	82.9	139.5	135.4	128.5
110°	1.4	80.1	135.4	131.2	125.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	78.7	132.6	129.9	122.9
115°	1.4	76.0	128.5	127.1	122.9
117.5°	1.4	73.2	125.7	125.7	121.6
120°	1.4	70.5	121.6	124.3	120.2
122.5°	1.4	67.7	117.4	121.6	117.4
125°	1.4	64.9	113.3	118.8	116.0
127.5°	2.8	60.8	107.8	116.0	113.3
130°	1.4	56.6	102.2	113.3	111.9
132.5°	2.8	52.5	96.7	109.1	109.1
135°	2.8	48.4	89.8	105.0	105.0
137.5°	2.8	42.8	82.9	99.5	100.8
140°	2.8	38.7	76.0	93.9	96.7
142.5°	2.8	34.5	69.1	88.4	92.6
145°	2.8	30.4	62.2	81.5	87.0
147.5°	2.8	27.6	55.3	73.2	81.5
150°	2.8	23.5	49.7	66.3	74.6
152.5°	2.8	20.7	44.2	59.4	69.1
155°	2.8	19.3	38.7	51.1	62.2
157.5°	2.8	16.6	33.2	44.2	55.3
160°	2.8	13.8	27.6	38.7	47.0
162.5°	2.8	12.4	23.5	31.8	41.4
165°	2.8	11.1	19.3	24.9	33.2
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)