

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-L830-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-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

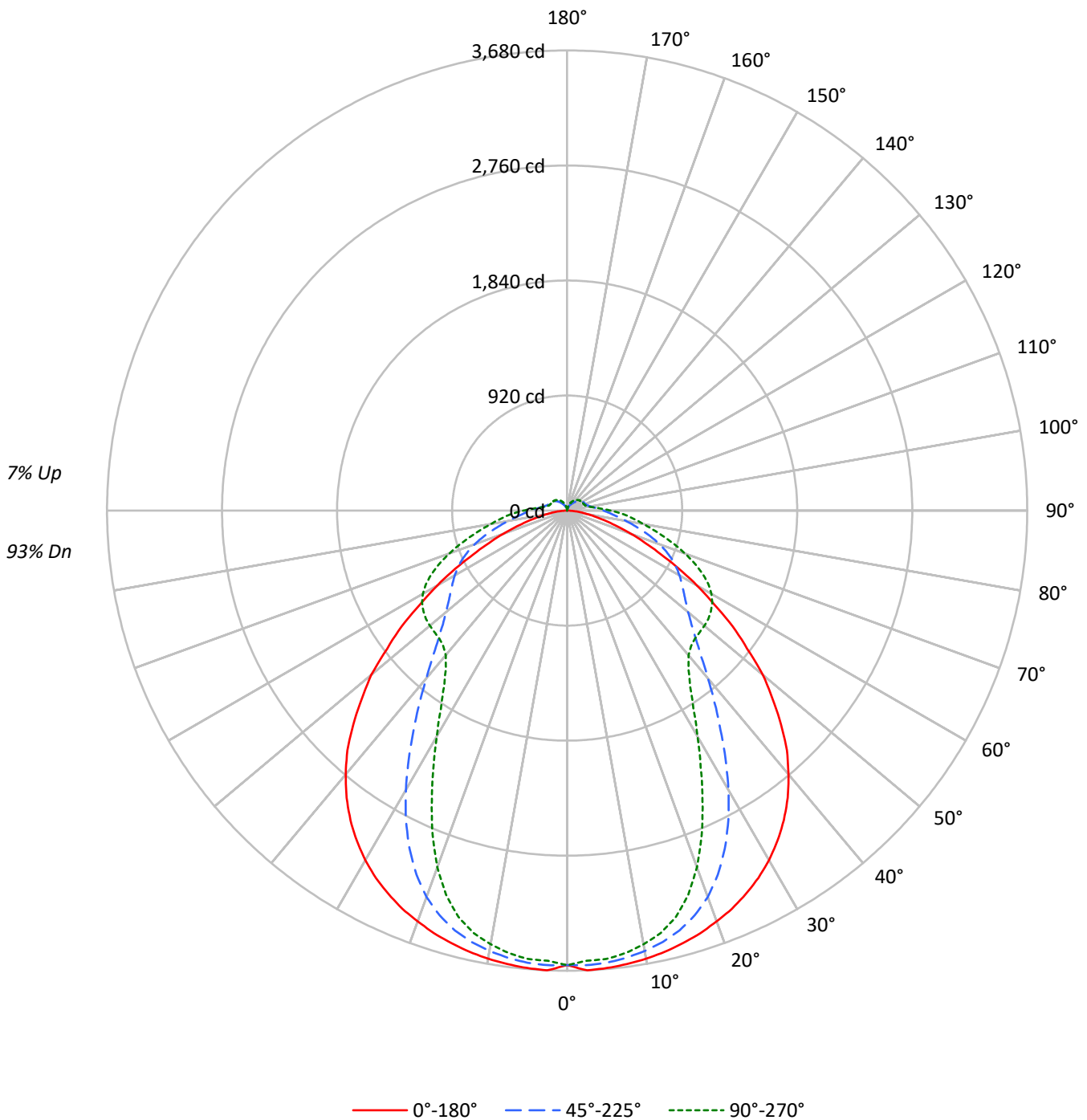
Lumens per Lamp: N/A
Luminaire Lumens: 9140.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	14685	14685	14685
5°	14874	14374	14136
10°	14890	13990	13554
15°	14916	13533	12781
20°	14945	12847	11478
25°	14974	11783	9720
30°	14928	10377	7995
35°	14743	8838	6700
40°	14341	7493	6057
45°	13614	6519	6011
50°	12613	5967	6222
55°	11145	5743	6440
60°	9445	5670	6528
65°	7642	5555	6325
70°	6190	5281	5833
75°	4729	4794	5176
80°	3578	4322	4605
85°	2549	4101	4235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	3.8
10°-20°	971.9	10.6
20°-30°	1358.6	14.9
30°-40°	1409.2	15.4
40°-50°	1301.9	14.2
50°-60°	1162.3	12.7
60°-70°	942.0	10.3
70°-80°	626.5	6.9
80°-90°	358.8	3.9
90°-100°	198.5	2.2
100°-110°	134.4	1.5
110°-120°	111.9	1.2
120°-130°	91.0	1.0
130°-140°	65.6	0.7
140°-150°	39.6	0.4
150°-160°	19.0	0.2
160°-170°	4.9	0.1
170°-180°	0.0	0.0
0°-30°	2674.3	29.3
0°-40°	4083.5	44.7
0°-60°	6547.7	71.6
0°-90°	8475.0	92.7
90°-120°	444.8	4.9
90°-150°	641.0	7.0
90°-180°	665.0	7.3
0°-180°	9140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3634	3634	3634	3634	3634	
5°	3672	3611	3630	3604	3600	349
15°	3581	3505	3475	3396	3363	1012
25°	3383	3233	2984	2671	2562	1559
35°	3022	2690	2139	1796	1715	1885
45°	2420	1918	1456	1404	1447	1861
55°	1617	1222	1137	1322	1404	1438
65°	826	739	926	1134	1194	835
75°	321	401	624	764	796	352
85°	65	186	368	471	483	75
90°	3	131	291	351	348	5
95°	3	111	231	246	238	2
105°	2	96	166	161	153	2
115°	2	87	147	145	141	2
125°	2	74	130	136	133	2
135°	3	55	103	120	120	2
145°	3	35	71	93	100	2
155°	3	22	44	58	71	1
165°	3	13	22	28	38	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°	3634.4	3634.4	3634.4	3634.4	3634.4
2.5°	3680.2	3620.2	3639.2	3623.4	3602.8
5°	3672.3	3610.7	3629.7	3604.4	3599.7
7.5°	3658.1	3596.5	3607.6	3577.6	3569.7
10°	3639.2	3574.4	3576.0	3533.3	3522.3
12.5°	3613.9	3542.8	3533.3	3474.9	3459.1
15°	3580.7	3504.9	3474.9	3395.9	3362.8
17.5°	3544.4	3455.9	3394.3	3272.7	3220.6
20°	3495.4	3395.9	3288.5	3103.7	3034.2
22.5°	3446.5	3323.3	3151.1	2904.7	2811.5
25°	3383.3	3233.2	2983.7	2670.9	2561.9
27.5°	3312.2	3127.4	2791.0	2430.9	2314.0
30°	3228.5	2999.5	2579.3	2195.5	2084.9
32.5°	3130.6	2855.7	2356.6	1983.9	1881.2
35°	3021.6	2689.9	2138.6	1795.9	1715.3
37.5°	2896.8	2508.2	1936.5	1644.3	1592.1
40°	2754.6	2310.8	1750.1	1527.4	1510.0
42.5°	2601.4	2118.1	1590.6	1451.6	1467.4
45°	2419.8	1917.5	1456.3	1404.2	1446.8
47.5°	2228.7	1721.7	1347.3	1377.3	1438.9
50°	2043.9	1540.0	1262.0	1359.9	1432.6
52.5°	1814.8	1377.3	1194.1	1344.2	1423.1
55°	1617.4	1222.5	1137.2	1322.0	1404.2
57.5°	1390.0	1083.5	1086.7	1293.6	1375.7
60°	1200.4	957.2	1037.7	1254.1	1333.1
62.5°	1007.7	843.5	984.0	1202.0	1273.1
65°	826.1	739.2	925.6	1134.1	1194.1
67.5°	674.4	644.4	859.2	1051.9	1102.5
70°	546.5	557.6	786.6	960.3	1003.0
72.5°	420.1	477.0	707.6	862.4	898.7
75°	320.6	401.2	623.9	764.5	796.1
77.5°	236.9	334.9	548.1	676.0	702.9
80°	167.4	276.4	477.0	598.6	619.2
82.5°	112.1	227.4	418.6	529.1	548.1
85°	64.8	186.4	368.0	470.7	483.3
87.5°	26.9	154.8	327.0	410.7	417.0
90°	3.2	131.1	290.6	350.6	347.5
92.5°	3.2	118.5	259.0	293.8	285.9
95°	3.2	110.6	230.6	246.4	238.5
97.5°	3.2	105.8	205.3	211.7	203.8
100°	1.6	102.7	188.0	188.0	180.1
102.5°	1.6	99.5	175.3	170.6	164.3
105°	1.6	96.3	165.8	161.1	153.2
107.5°	1.6	94.8	159.5	154.8	146.9
110°	1.6	91.6	154.8	150.1	143.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	90.0	151.6	148.5	140.6
115°	1.6	86.9	146.9	145.3	140.6
117.5°	1.6	83.7	143.7	143.7	139.0
120°	1.6	80.6	139.0	142.2	137.4
122.5°	1.6	77.4	134.3	139.0	134.3
125°	1.6	74.2	129.5	135.8	132.7
127.5°	3.2	69.5	123.2	132.7	129.5
130°	1.6	64.8	116.9	129.5	127.9
132.5°	3.2	60.0	110.6	124.8	124.8
135°	3.2	55.3	102.7	120.0	120.0
137.5°	3.2	49.0	94.8	113.7	115.3
140°	3.2	44.2	86.9	107.4	110.6
142.5°	3.2	39.5	79.0	101.1	105.8
145°	3.2	34.7	71.1	93.2	99.5
147.5°	3.2	31.6	63.2	83.7	93.2
150°	3.2	26.9	56.9	75.8	85.3
152.5°	3.2	23.7	50.5	67.9	79.0
155°	3.2	22.1	44.2	58.4	71.1
157.5°	3.2	19.0	37.9	50.5	63.2
160°	3.2	15.8	31.6	44.2	53.7
162.5°	3.2	14.2	26.9	36.3	47.4
165°	3.2	12.6	22.1	28.4	37.9
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)