

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-L950-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-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

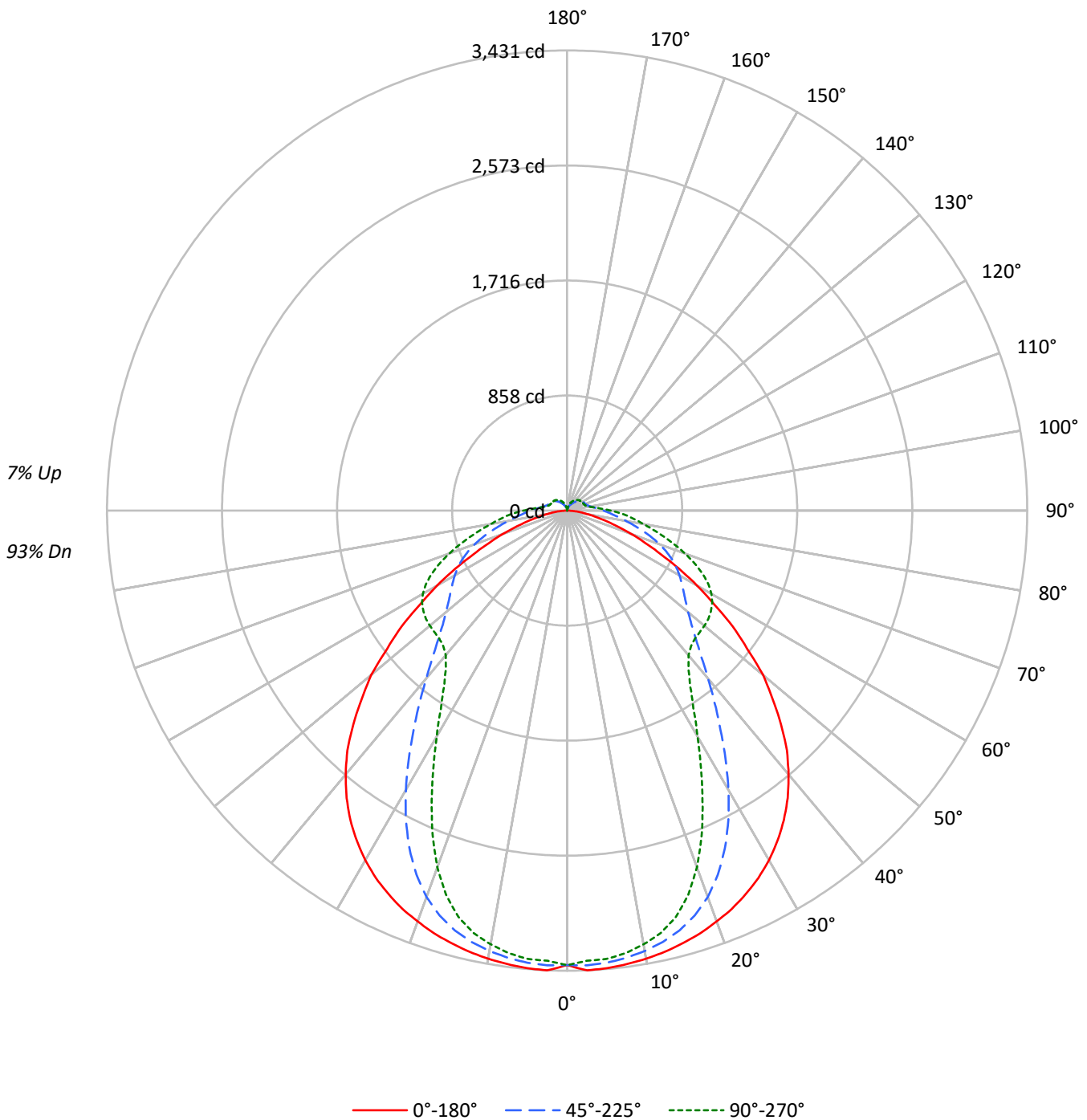
Lumens per Lamp: N/A
Luminaire Lumens: 8522.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	13692	13692	13692
5°	13869	13402	13180
10°	13883	13044	12638
15°	13907	12618	11917
20°	13934	11979	10702
25°	13962	10986	9063
30°	13919	9676	7454
35°	13746	8240	6247
40°	13372	6986	5647
45°	12694	6078	5605
50°	11760	5563	5801
55°	10391	5355	6004
60°	8807	5287	6087
65°	7125	5180	5897
70°	5772	4924	5439
75°	4411	4469	4826
80°	3337	4030	4293
85°	2376	3823	3948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	3.8
10°-20°	906.2	10.6
20°-30°	1266.7	14.9
30°-40°	1313.9	15.4
40°-50°	1213.9	14.2
50°-60°	1083.7	12.7
60°-70°	878.3	10.3
70°-80°	584.2	6.9
80°-90°	334.5	3.9
90°-100°	185.1	2.2
100°-110°	125.3	1.5
110°-120°	104.4	1.2
120°-130°	84.8	1.0
130°-140°	61.2	0.7
140°-150°	36.9	0.4
150°-160°	17.7	0.2
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-30°	2493.5	29.3
0°-40°	3807.4	44.7
0°-60°	6105.0	71.6
0°-90°	7902.0	92.7
90°-120°	414.8	4.9
90°-150°	597.7	7.0
90°-180°	620.0	7.3
0°-180°	8522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3389	3389	3389	3389	3389	
5°	3424	3367	3384	3361	3356	326
15°	3339	3268	3240	3166	3135	943
25°	3154	3015	2782	2490	2389	1454
35°	2817	2508	1994	1674	1599	1758
45°	2256	1788	1358	1309	1349	1735
55°	1508	1140	1060	1233	1309	1341
65°	770	689	863	1057	1113	779
75°	299	374	582	713	742	328
85°	60	174	343	439	451	69
90°	3	122	271	327	324	5
95°	3	103	215	230	222	2
105°	2	90	155	150	143	2
115°	2	81	137	136	131	1
125°	2	69	121	127	124	2
135°	3	52	96	112	112	2
145°	3	32	66	87	93	2
155°	3	21	41	54	66	1
165°	3	12	21	26	35	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3388.7	3388.7	3388.7	3388.7	3388.7
2.5°	3431.4	3375.4	3393.1	3378.4	3359.2
5°	3424.0	3366.6	3384.3	3360.7	3356.3
7.5°	3410.8	3353.3	3363.7	3335.7	3328.3
10°	3393.1	3332.7	3334.2	3294.4	3284.1
12.5°	3369.5	3303.3	3294.4	3239.9	3225.2
15°	3338.6	3267.9	3239.9	3166.3	3135.4
17.5°	3304.7	3222.3	3164.8	3051.4	3002.8
20°	3259.1	3166.3	3066.2	2893.9	2829.1
22.5°	3213.4	3098.6	2938.0	2708.3	2621.4
25°	3154.5	3014.6	2781.9	2490.3	2388.7
27.5°	3088.3	2916.0	2602.3	2266.5	2157.5
30°	3010.2	2796.7	2404.9	2047.1	1944.0
32.5°	2918.9	2662.6	2197.3	1849.7	1754.0
35°	2817.3	2508.0	1994.0	1674.5	1599.4
37.5°	2700.9	2338.7	1805.5	1533.1	1484.5
40°	2568.4	2154.6	1631.8	1424.1	1407.9
42.5°	2425.5	1974.9	1483.0	1353.4	1368.1
45°	2256.2	1787.9	1357.8	1309.2	1349.0
47.5°	2078.0	1605.2	1256.2	1284.2	1341.6
50°	1905.7	1435.9	1176.7	1268.0	1335.7
52.5°	1692.1	1284.2	1113.4	1253.3	1326.9
55°	1508.0	1139.9	1060.3	1232.7	1309.2
57.5°	1296.0	1010.3	1013.2	1206.1	1282.7
60°	1119.3	892.5	967.6	1169.3	1243.0
62.5°	939.6	786.4	917.5	1120.7	1187.0
65°	770.2	689.2	863.0	1057.4	1113.4
67.5°	628.8	600.9	801.2	980.8	1027.9
70°	509.6	519.9	733.4	895.4	935.2
72.5°	391.7	444.8	659.8	804.1	838.0
75°	299.0	374.1	581.7	712.8	742.2
77.5°	220.9	312.2	511.0	630.3	655.4
80°	156.1	257.7	444.8	558.2	577.3
82.5°	104.6	212.1	390.3	493.4	511.0
85°	60.4	173.8	343.1	438.9	450.6
87.5°	25.0	144.3	304.8	382.9	388.8
90°	2.9	122.2	271.0	326.9	324.0
92.5°	2.9	110.5	241.5	273.9	266.6
95°	2.9	103.1	215.0	229.7	222.4
97.5°	2.9	98.7	191.5	197.3	190.0
100°	1.5	95.7	175.3	175.3	167.9
102.5°	1.5	92.8	163.5	159.1	153.2
105°	1.5	89.8	154.6	150.2	142.9
107.5°	1.5	88.4	148.7	144.3	137.0
110°	1.5	85.4	144.3	139.9	134.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	83.9	141.4	138.4	131.1
115°	1.5	81.0	137.0	135.5	131.1
117.5°	1.5	78.1	134.0	134.0	129.6
120°	1.5	75.1	129.6	132.5	128.1
122.5°	1.5	72.2	125.2	129.6	125.2
125°	1.5	69.2	120.8	126.7	123.7
127.5°	2.9	64.8	114.9	123.7	120.8
130°	1.5	60.4	109.0	120.8	119.3
132.5°	2.9	56.0	103.1	116.3	116.3
135°	2.9	51.5	95.7	111.9	111.9
137.5°	2.9	45.7	88.4	106.0	107.5
140°	2.9	41.2	81.0	100.1	103.1
142.5°	2.9	36.8	73.6	94.3	98.7
145°	2.9	32.4	66.3	86.9	92.8
147.5°	2.9	29.5	58.9	78.1	86.9
150°	2.9	25.0	53.0	70.7	79.5
152.5°	2.9	22.1	47.1	63.3	73.6
155°	2.9	20.6	41.2	54.5	66.3
157.5°	2.9	17.7	35.3	47.1	58.9
160°	2.9	14.7	29.5	41.2	50.1
162.5°	2.9	13.3	25.0	33.9	44.2
165°	2.9	11.8	20.6	26.5	35.3
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)