

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: **2SNLED-LD5-18SL-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: 2SNLED-LD5-18SL-SLN-UNV-L850-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

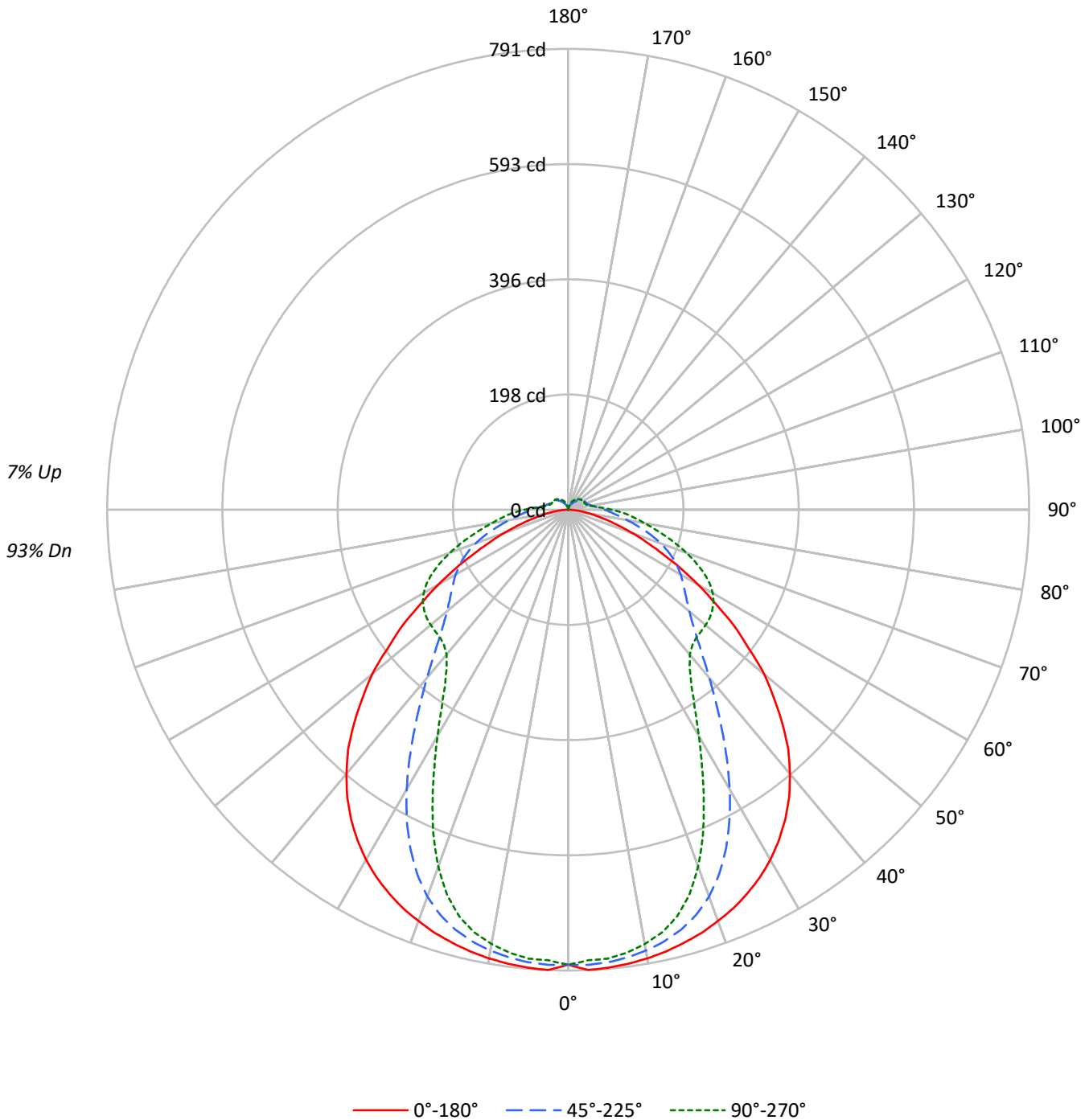
Lumens per Lamp: N/A
Luminaire Lumens: 1964.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 14
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°	12623	12623	12623
5°	12733	12319	12150
10°	12694	11958	11651
15°	12662	11537	10986
20°	12631	10922	9866
25°	12597	9990	8355
30°	12495	8774	6872
35°	12274	7452	5759
40°	11866	6299	5206
45°	11186	5461	5167
50°	10278	4981	5347
55°	8989	4775	5534
60°	7522	4692	5612
65°	5986	4571	5437
70°	4735	4315	5013
75°	3489	3885	4450
80°	2474	3462	3956
85°	1504	3232	3642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.8
10°-20°	208.8	10.6
20°-30°	291.9	14.9
30°-40°	302.8	15.4
40°-50°	279.7	14.2
50°-60°	249.8	12.7
60°-70°	202.4	10.3
70°-80°	134.6	6.9
80°-90°	77.1	3.9
90°-100°	42.7	2.2
100°-110°	28.9	1.5
110°-120°	24.0	1.2
120°-130°	19.5	1.0
130°-140°	14.1	0.7
140°-150°	8.5	0.4
150°-160°	4.1	0.2
160°-170°	1.1	0.1
170°-180°	0.0	0.0
0°-30°	574.6	29.3
0°-40°	877.5	44.7
0°-60°	1407.0	71.6
0°-90°	1821.1	92.7
90°-120°	95.6	4.9
90°-150°	137.8	7.0
90°-180°	143.0	7.3
0°-180°	1964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	789	776	780	774	774	75
15°	769	753	747	730	723	217
25°	727	695	641	574	550	335
35°	649	578	460	386	369	405
45°	520	412	313	302	311	400
55°	348	263	244	284	302	309
65°	178	159	199	244	257	179
75°	69	86	134	164	171	76
85°	14	40	79	101	104	16
90°	1	28	62	75	75	1
95°	1	24	50	53	51	1
105°	0	21	36	35	33	0
115°	0	19	32	31	30	0
125°	0	16	28	29	28	0
135°	1	12	22	26	26	1
145°	1	8	15	20	21	0
155°	1	5	10	13	15	0
165°	1	3	5	6	8	0
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°	781.0	781.0	781.0	781.0	781.0
2.5°	790.8	777.9	782.0	778.6	774.2
5°	789.1	775.9	779.9	774.5	773.5
7.5°	786.1	772.8	775.2	768.7	767.0
10°	782.0	768.1	768.4	759.2	756.9
12.5°	776.6	761.3	759.2	746.7	743.3
15°	769.4	753.1	746.7	729.7	722.6
17.5°	761.6	742.6	729.4	703.2	692.0
20°	751.1	729.7	706.6	666.9	652.0
22.5°	740.6	714.1	677.1	624.2	604.1
25°	727.0	694.8	641.1	573.9	550.5
27.5°	711.7	672.0	599.7	522.3	497.2
30°	693.7	644.5	554.2	471.8	448.0
32.5°	672.7	613.6	506.4	426.3	404.2
35°	649.3	578.0	459.6	385.9	368.6
37.5°	622.5	539.0	416.1	353.3	342.1
40°	591.9	496.5	376.1	328.2	324.5
42.5°	559.0	455.1	341.8	311.9	315.3
45°	520.0	412.0	312.9	301.7	310.9
47.5°	478.9	369.9	289.5	296.0	309.2
50°	439.2	330.9	271.2	292.2	307.8
52.5°	390.0	296.0	256.6	288.8	305.8
55°	347.5	262.7	244.4	284.1	301.7
57.5°	298.7	232.8	233.5	278.0	295.6
60°	257.9	205.7	223.0	269.5	286.5
62.5°	216.5	181.2	211.4	258.3	273.6
65°	177.5	158.8	198.9	243.7	256.6
67.5°	144.9	138.5	184.6	226.0	236.9
70°	117.4	119.8	169.0	206.4	215.5
72.5°	90.3	102.5	152.1	185.3	193.1
75°	68.9	86.2	134.1	164.3	171.1
77.5°	50.9	72.0	117.8	145.3	151.0
80°	36.0	59.4	102.5	128.6	133.0
82.5°	24.1	48.9	89.9	113.7	117.8
85°	13.9	40.0	79.1	101.1	103.9
87.5°	5.8	33.3	70.3	88.2	89.6
90°	0.7	28.2	62.5	75.3	74.7
92.5°	0.7	25.5	55.7	63.1	61.4
95°	0.7	23.8	49.6	52.9	51.2
97.5°	0.7	22.7	44.1	45.5	43.8
100°	0.3	22.1	40.4	40.4	38.7
102.5°	0.3	21.4	37.7	36.7	35.3
105°	0.3	20.7	35.6	34.6	32.9
107.5°	0.3	20.4	34.3	33.3	31.6
110°	0.3	19.7	33.3	32.2	30.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	19.3	32.6	31.9	30.2
115°	0.3	18.7	31.6	31.2	30.2
117.5°	0.3	18.0	30.9	30.9	29.9
120°	0.3	17.3	29.9	30.5	29.5
122.5°	0.3	16.6	28.8	29.9	28.8
125°	0.3	16.0	27.8	29.2	28.5
127.5°	0.7	14.9	26.5	28.5	27.8
130°	0.3	13.9	25.1	27.8	27.5
132.5°	0.7	12.9	23.8	26.8	26.8
135°	0.7	11.9	22.1	25.8	25.8
137.5°	0.7	10.5	20.4	24.4	24.8
140°	0.7	9.5	18.7	23.1	23.8
142.5°	0.7	8.5	17.0	21.7	22.7
145°	0.7	7.5	15.3	20.0	21.4
147.5°	0.7	6.8	13.6	18.0	20.0
150°	0.7	5.8	12.2	16.3	18.3
152.5°	0.7	5.1	10.9	14.6	17.0
155°	0.7	4.8	9.5	12.6	15.3
157.5°	0.7	4.1	8.1	10.9	13.6
160°	0.7	3.4	6.8	9.5	11.5
162.5°	0.7	3.1	5.8	7.8	10.2
165°	0.7	2.7	4.8	6.1	8.1
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)