

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: **4SNLED-LD5-18SL-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: 4SNLED-LD5-18SL-SLN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

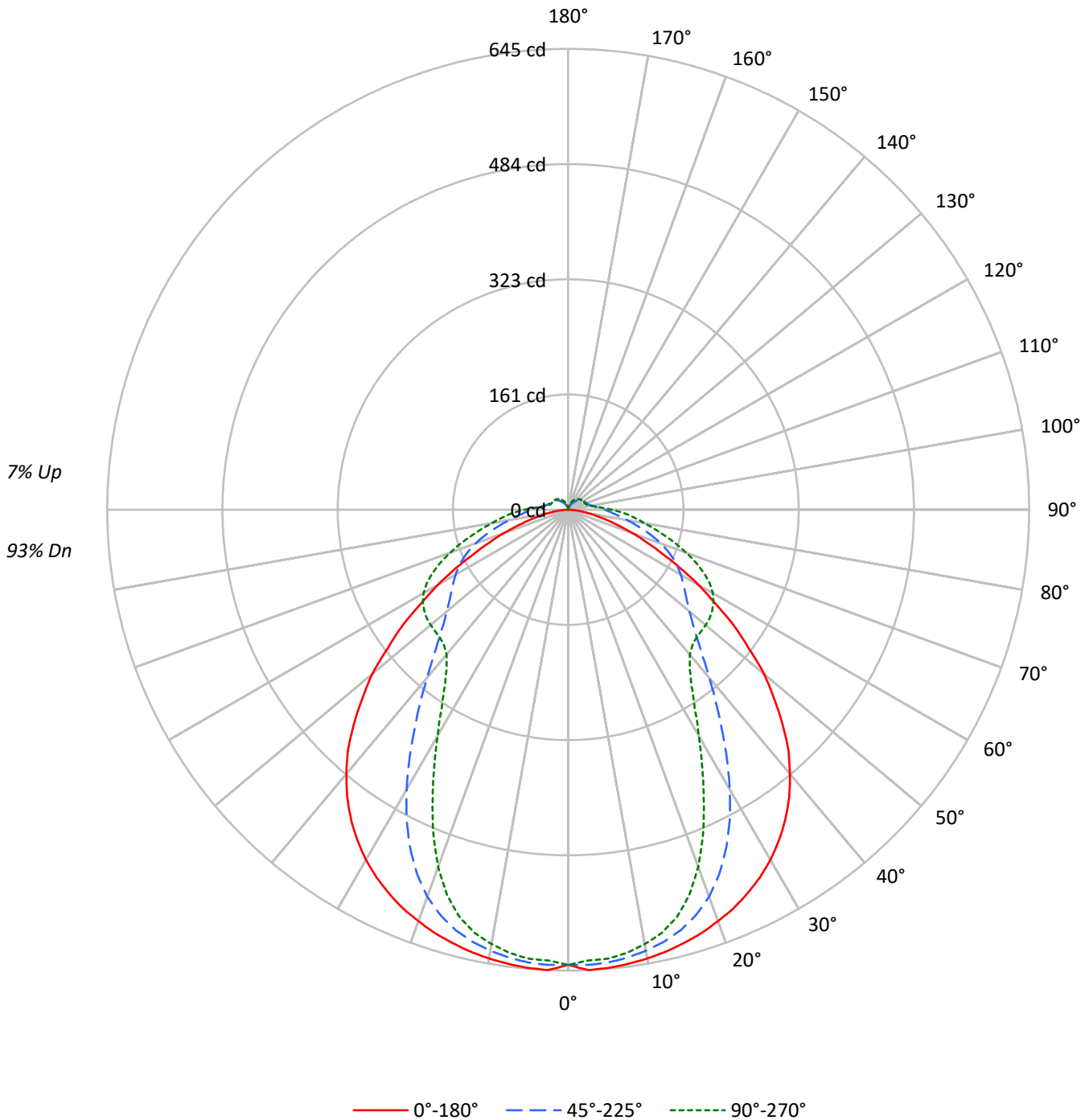
Lumens per Lamp: N/A
Luminaire Lumens: 1602.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 13
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°	5148	5148	5148
5°	5207	5034	4955
10°	5205	4895	4752
15°	5207	4731	4480
20°	5210	4487	4024
25°	5211	4112	3407
30°	5187	3618	2802
35°	5113	3078	2349
40°	4963	2607	2123
45°	4700	2266	2107
50°	4342	2071	2181
55°	3824	1991	2257
60°	3226	1963	2289
65°	2595	1919	2217
70°	2085	1820	2045
75°	1571	1648	1814
80°	1158	1479	1614
85°	779	1395	1484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.8
10°-20°	170.3	10.6
20°-30°	238.1	14.9
30°-40°	247.0	15.4
40°-50°	228.2	14.2
50°-60°	203.7	12.7
60°-70°	165.1	10.3
70°-80°	109.8	6.9
80°-90°	62.9	3.9
90°-100°	34.8	2.2
100°-110°	23.6	1.5
110°-120°	19.6	1.2
120°-130°	16.0	1.0
130°-140°	11.5	0.7
140°-150°	6.9	0.4
150°-160°	3.3	0.2
160°-170°	0.9	0.1
170°-180°	0.0	0.0
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0°-30°	468.7	29.3
0°-40°	715.7	44.7
0°-60°	1147.6	71.6
0°-90°	1485.5	92.7
90°-120°	78.0	4.9
90°-150°	112.4	7.0
90°-180°	117.0	7.3
0°-180°	1602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	644	633	636	632	631	61
15°	628	614	609	595	589	177
25°	593	567	523	468	449	273
35°	530	472	375	315	301	330
45°	424	336	255	246	254	326
55°	284	214	199	232	246	252
65°	145	130	162	199	209	146
75°	56	70	109	134	140	62
85°	11	33	64	82	85	13
90°	1	23	51	62	61	1
95°	1	19	40	43	42	0
105°	0	17	29	28	27	0
115°	0	15	26	26	25	0
125°	0	13	23	24	23	0
135°	1	10	18	21	21	0
145°	1	6	12	16	17	0
155°	1	4	8	10	12	0
165°	1	2	4	5	7	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°	637.0	637.0	637.0	637.0	637.0
2.5°	645.0	634.5	637.8	635.1	631.5
5°	643.7	632.9	636.2	631.8	630.9
7.5°	641.2	630.4	632.3	627.1	625.7
10°	637.8	626.5	626.8	619.3	617.4
12.5°	633.4	621.0	619.3	609.1	606.3
15°	627.6	614.3	609.1	595.2	589.4
17.5°	621.2	605.7	594.9	573.6	564.5
20°	612.7	595.2	576.4	544.0	531.8
22.5°	604.1	582.5	552.3	509.1	492.8
25°	593.0	566.7	523.0	468.1	449.0
27.5°	580.5	548.2	489.2	426.1	405.6
30°	565.9	525.7	452.1	384.8	365.4
32.5°	548.7	500.5	413.1	347.7	329.7
35°	529.6	471.5	374.8	314.8	300.7
37.5°	507.7	439.6	339.4	288.2	279.1
40°	482.8	405.0	306.7	267.7	264.7
42.5°	456.0	371.2	278.8	254.4	257.2
45°	424.1	336.1	255.3	246.1	253.6
47.5°	390.6	301.8	236.1	241.4	252.2
50°	358.2	269.9	221.2	238.4	251.1
52.5°	318.1	241.4	209.3	235.6	249.4
55°	283.5	214.3	199.3	231.7	246.1
57.5°	243.6	189.9	190.5	226.7	241.1
60°	210.4	167.8	181.9	219.8	233.7
62.5°	176.6	147.8	172.5	210.7	223.1
65°	144.8	129.6	162.2	198.8	209.3
67.5°	118.2	113.0	150.6	184.4	193.2
70°	95.8	97.7	137.9	168.3	175.8
72.5°	73.6	83.6	124.0	151.2	157.5
75°	56.2	70.3	109.4	134.0	139.5
77.5°	41.5	58.7	96.1	118.5	123.2
80°	29.3	48.4	83.6	104.9	108.5
82.5°	19.7	39.9	73.4	92.7	96.1
85°	11.4	32.7	64.5	82.5	84.7
87.5°	4.7	27.1	57.3	72.0	73.1
90°	0.6	23.0	50.9	61.5	60.9
92.5°	0.6	20.8	45.4	51.5	50.1
95°	0.6	19.4	40.4	43.2	41.8
97.5°	0.6	18.5	36.0	37.1	35.7
100°	0.3	18.0	32.9	32.9	31.6
102.5°	0.3	17.4	30.7	29.9	28.8
105°	0.3	16.9	29.1	28.2	26.9
107.5°	0.3	16.6	28.0	27.1	25.7
110°	0.3	16.1	27.1	26.3	25.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	15.8	26.6	26.0	24.6
115°	0.3	15.2	25.7	25.5	24.6
117.5°	0.3	14.7	25.2	25.2	24.4
120°	0.3	14.1	24.4	24.9	24.1
122.5°	0.3	13.6	23.5	24.4	23.5
125°	0.3	13.0	22.7	23.8	23.3
127.5°	0.6	12.2	21.6	23.3	22.7
130°	0.3	11.4	20.5	22.7	22.4
132.5°	0.6	10.5	19.4	21.9	21.9
135°	0.6	9.7	18.0	21.0	21.0
137.5°	0.6	8.6	16.6	19.9	20.2
140°	0.6	7.8	15.2	18.8	19.4
142.5°	0.6	6.9	13.8	17.7	18.5
145°	0.6	6.1	12.5	16.3	17.4
147.5°	0.6	5.5	11.1	14.7	16.3
150°	0.6	4.7	10.0	13.3	14.9
152.5°	0.6	4.2	8.9	11.9	13.8
155°	0.6	3.9	7.8	10.2	12.5
157.5°	0.6	3.3	6.6	8.9	11.1
160°	0.6	2.8	5.5	7.8	9.4
162.5°	0.6	2.5	4.7	6.4	8.3
165°	0.6	2.2	3.9	5.0	6.6
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)