

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-SLC-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-18SL-SLC-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

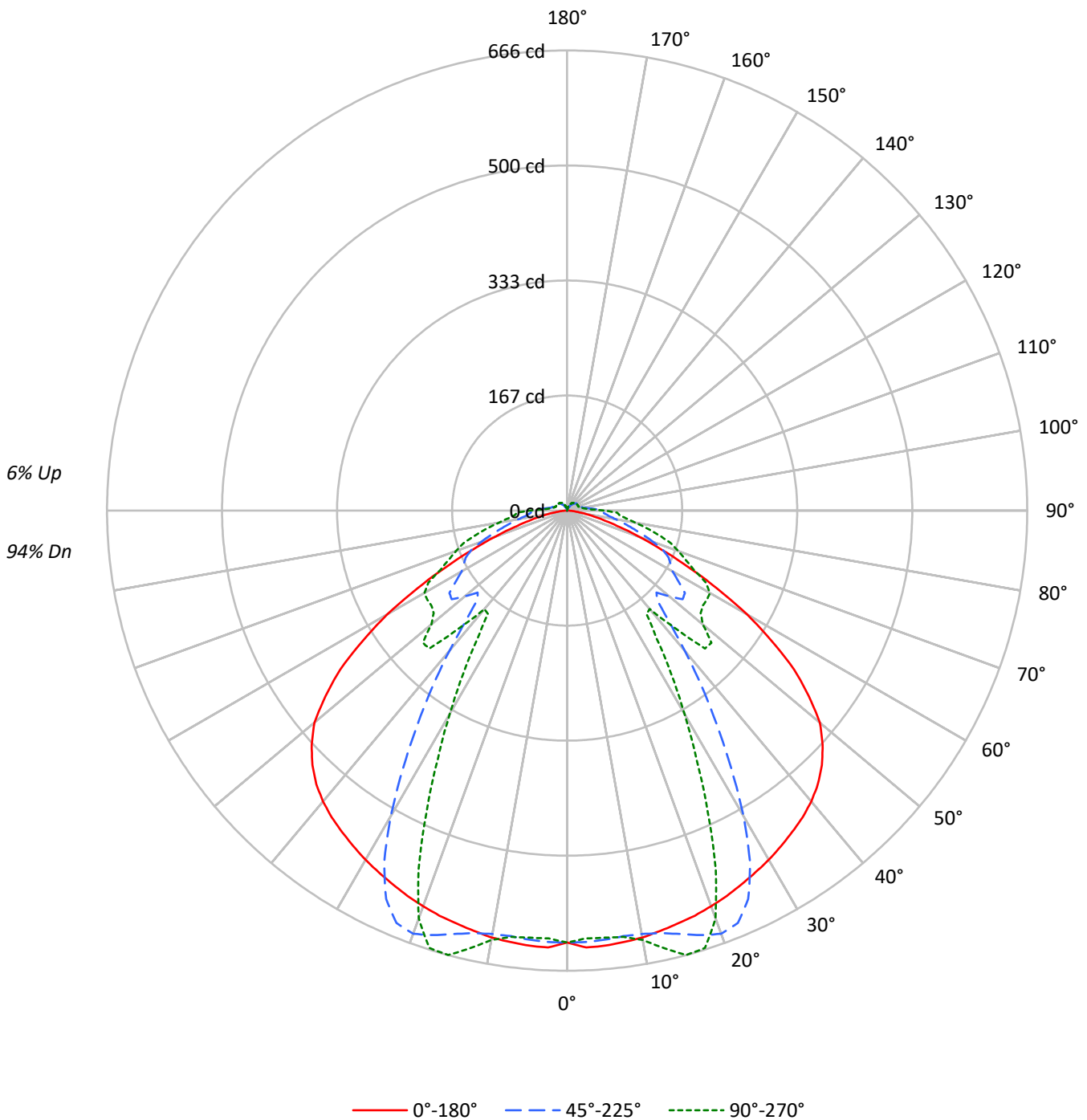
Lumens per Lamp: N/A  
Luminaire Lumens: 1606.1 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5052	5052	5052
5°	5114	4934	4873
10°	5120	4859	4856
15°	5134	4927	5062
20°	5182	5074	4751
25°	5247	4876	3658
30°	5350	4084	2602
35°	5482	3093	1762
40°	5650	2249	1492
45°	5778	1631	2346
50°	5786	1806	2226
55°	5408	2078	2198
60°	4609	1902	2337
65°	3468	1919	2138
70°	2433	1746	1989
75°	1594	1462	1786
80°	1016	1254	1486
85°	547	1192	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	3.7
10°-20°	179.6	11.2
20°-30°	260.9	16.2
30°-40°	249.3	15.5
40°-50°	228.1	14.2
50°-60°	210.6	13.1
60°-70°	167.3	10.4
70°-80°	103.2	6.4
80°-90°	56.2	3.5
90°-100°	28.4	1.8
100°-110°	17.9	1.1
110°-120°	15.1	0.9
120°-130°	12.4	0.8
130°-140°	8.9	0.6
140°-150°	5.5	0.3
150°-160°	2.6	0.2
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	500.0	31.1
0°-40°	749.4	46.7
0°-60°	1188.0	74.0
0°-90°	1514.7	94.3
90°-120°	61.4	3.8
90°-150°	88.1	5.5
90°-180°	91.0	5.7
0°-180°	1606.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	632	622	624	620	620	60
15°	619	610	634	658	666	175
25°	597	609	620	525	482	276
35°	568	559	377	259	226	356
45°	521	364	184	234	282	401
55°	401	186	208	224	240	353
65°	194	121	162	197	202	196
75°	57	64	97	129	137	65
85°	8	27	55	75	76	10
90°	0	20	49	58	54	0
95°	0	19	34	30	28	0
105°	0	17	21	19	19	0
115°	0	14	20	18	17	0
125°	0	11	18	17	17	0
135°	0	8	14	16	15	0
145°	0	5	10	13	14	0
155°	1	3	6	8	10	0
165°	1	2	3	4	5	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°	625.2	625.2	625.2	625.2	625.2
2.5°	632.9	623.8	624.9	623.0	619.7
5°	632.1	622.4	623.5	620.2	620.5
7.5°	629.9	619.9	621.3	620.8	622.2
10°	627.4	616.9	622.2	626.9	631.0
12.5°	623.0	613.6	626.3	640.1	648.7
15°	618.8	610.5	634.3	657.9	665.9
17.5°	614.7	609.4	644.3	664.8	663.7
20°	609.4	608.9	651.8	644.9	628.0
22.5°	603.6	609.1	646.0	595.3	562.1
25°	597.0	608.6	620.2	525.0	482.1
27.5°	590.3	606.1	573.4	448.1	405.7
30°	583.7	599.5	510.3	377.8	339.3
32.5°	575.9	585.1	441.7	315.5	280.1
35°	567.9	558.8	376.7	259.3	225.6
37.5°	559.6	520.9	318.3	210.1	188.5
40°	549.6	473.3	264.6	180.2	186.0
42.5°	537.2	419.6	217.3	189.0	229.4
45°	521.4	363.7	183.8	234.4	282.3
47.5°	501.5	310.0	175.5	268.5	283.4
50°	477.4	260.7	192.9	257.4	256.3
52.5°	440.9	219.7	210.6	234.7	243.5
55°	401.0	186.5	208.1	223.9	239.7
57.5°	350.7	164.1	191.0	221.7	240.0
60°	300.6	149.2	176.3	221.4	238.6
62.5°	245.2	135.6	168.8	216.1	226.4
65°	193.5	120.9	162.2	197.1	201.8
67.5°	148.3	106.0	150.6	175.7	185.2
70°	111.8	91.3	132.3	159.4	171.0
72.5°	80.5	77.5	113.5	145.0	157.2
75°	57.0	64.5	97.1	128.7	137.3
77.5°	39.3	52.6	83.3	110.7	117.6
80°	25.7	42.1	70.9	95.2	99.9
82.5°	15.5	33.8	61.4	83.3	85.8
85°	8.0	27.4	55.1	75.0	76.1
87.5°	2.5	23.0	51.5	71.1	72.5
90°	0.3	20.5	49.3	58.4	54.0
92.5°	0.0	19.4	42.6	39.9	35.7
95°	0.0	19.1	34.0	30.2	28.5
97.5°	0.0	18.5	28.0	25.2	24.4
100°	0.0	18.0	24.1	22.1	21.9
102.5°	0.0	17.7	21.9	20.2	19.9
105°	0.0	17.2	21.0	19.1	18.8
107.5°	0.0	16.3	20.5	18.5	18.0
110°	0.0	15.5	20.5	18.3	17.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.7	20.5	18.0	17.2
115°	0.0	14.1	20.2	18.0	17.2
117.5°	0.3	13.6	19.9	18.0	17.2
120°	0.0	13.0	19.4	18.0	16.9
122.5°	0.3	12.2	18.8	17.7	16.9
125°	0.3	11.3	18.0	17.4	16.6
127.5°	0.3	10.5	17.2	16.9	16.1
130°	0.3	9.7	16.3	16.6	15.8
132.5°	0.3	8.9	15.2	16.1	15.5
135°	0.3	8.0	14.4	15.8	15.2
137.5°	0.3	7.2	13.3	14.9	14.9
140°	0.3	6.4	12.2	14.4	14.7
142.5°	0.3	5.8	11.1	13.8	14.1
145°	0.3	5.0	10.0	12.7	13.6
147.5°	0.3	4.4	8.9	11.6	12.7
150°	0.3	3.9	7.7	10.5	11.6
152.5°	0.3	3.3	6.9	9.1	10.8
155°	0.6	3.0	6.1	8.0	9.7
157.5°	0.6	2.5	5.0	6.9	8.3
160°	0.6	2.2	4.4	5.8	7.5
162.5°	0.6	1.9	3.6	5.0	6.4
165°	0.6	1.7	3.0	3.9	5.3
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)