

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-L835-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-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

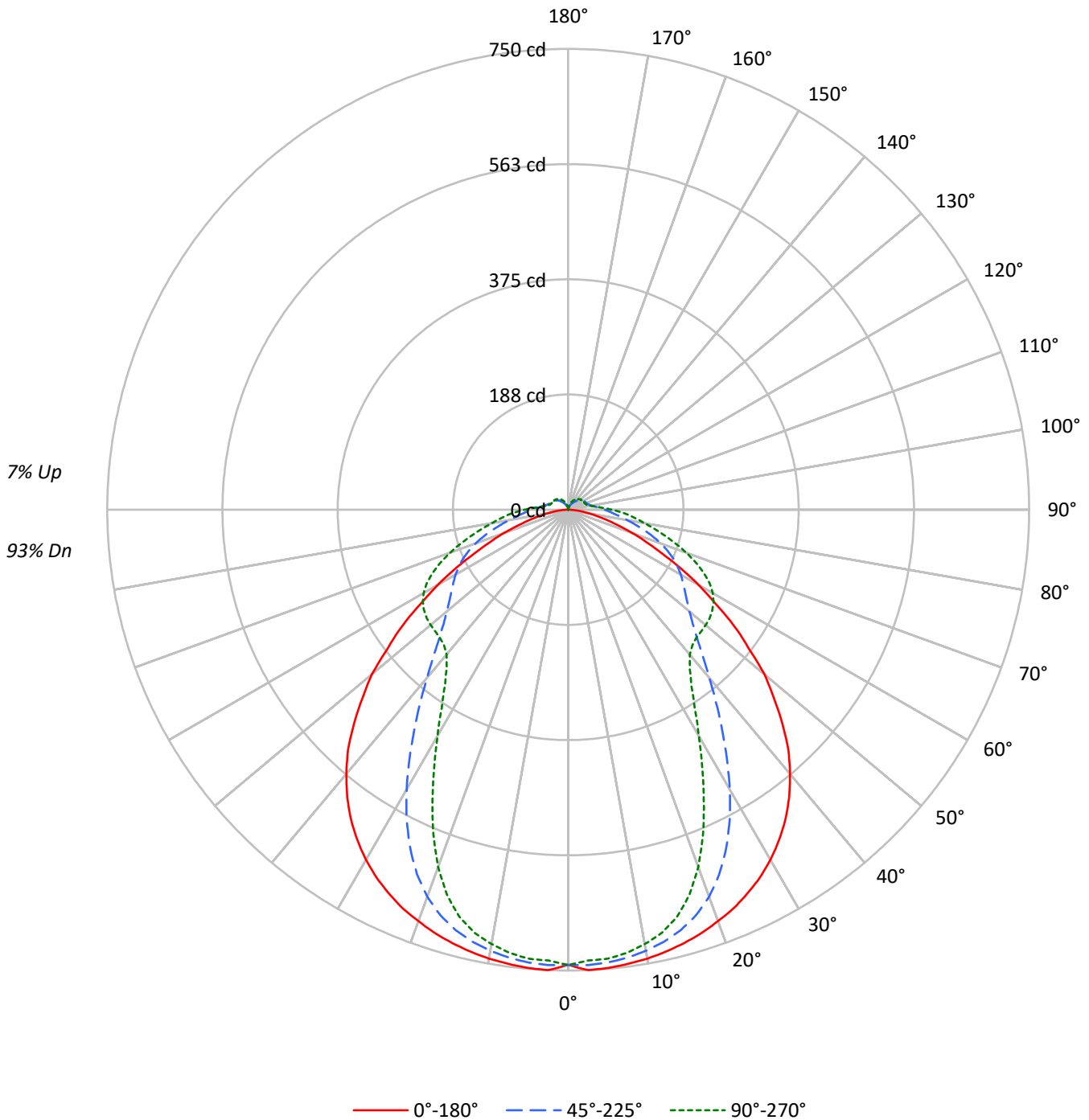
Lumens per Lamp: N/A  
Luminaire Lumens: 1863.0 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

**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°	5986	5986	5986
5°	6055	5854	5762
10°	6054	5693	5525
15°	6056	5502	5210
20°	6058	5218	4680
25°	6060	4782	3963
30°	6032	4207	3259
35°	5946	3580	2731
40°	5772	3031	2469
45°	5466	2634	2450
50°	5049	2408	2536
55°	4447	2315	2625
60°	3752	2282	2661
65°	3018	2232	2578
70°	2424	2116	2377
75°	1829	1916	2111
80°	1348	1719	1877
85°	902	1622	1726



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	3.8
10°-20°	198.1	10.6
20°-30°	276.9	14.9
30°-40°	287.2	15.4
40°-50°	265.4	14.2
50°-60°	236.9	12.7
60°-70°	192.0	10.3
70°-80°	127.7	6.9
80°-90°	73.1	3.9
90°-100°	40.4	2.2
100°-110°	27.4	1.5
110°-120°	22.8	1.2
120°-130°	18.5	1.0
130°-140°	13.4	0.7
140°-150°	8.1	0.4
150°-160°	3.9	0.2
160°-170°	1.0	0.1
170°-180°	0.0	0.0
0°-30°	545.1	29.3
0°-40°	832.4	44.7
0°-60°	1334.6	71.6
0°-90°	1727.5	92.7
90°-120°	90.7	4.9
90°-150°	130.6	7.0
90°-180°	136.0	7.3
0°-180°	1863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	748	736	740	735	734	71
15°	730	714	708	692	685	206
25°	690	659	608	544	522	318
35°	616	548	436	366	350	384
45°	493	391	297	286	295	379
55°	330	249	232	270	286	293
65°	168	151	189	231	243	170
75°	65	82	127	156	162	72
85°	13	38	75	96	98	15
90°	1	27	59	72	71	1
95°	1	22	47	50	49	0
105°	0	20	34	33	31	0
115°	0	18	30	30	29	0
125°	0	15	26	28	27	0
135°	1	11	21	24	24	0
145°	1	7	14	19	20	0
155°	1	4	9	12	14	0
165°	1	3	4	6	8	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	740.8	740.8	740.8	740.8	740.8
2.5°	750.1	737.9	741.8	738.5	734.4
5°	748.5	736.0	739.8	734.7	733.7
7.5°	745.6	733.1	735.3	729.2	727.6
10°	741.8	728.6	728.9	720.2	717.9
12.5°	736.6	722.1	720.2	708.3	705.1
15°	729.9	714.4	708.3	692.2	685.4
17.5°	722.5	704.4	691.9	667.1	656.5
20°	712.5	692.2	670.3	632.6	618.5
22.5°	702.5	677.4	642.3	592.1	573.1
25°	689.6	659.0	608.2	544.4	522.2
27.5°	675.1	637.5	568.9	495.5	471.7
30°	658.1	611.4	525.7	447.5	425.0
32.5°	638.1	582.1	480.3	404.4	383.4
35°	615.9	548.3	435.9	366.1	349.6
37.5°	590.5	511.3	394.7	335.1	324.5
40°	561.5	471.0	356.7	311.3	307.8
42.5°	530.2	431.7	324.2	295.9	299.1
45°	493.2	390.8	296.8	286.2	294.9
47.5°	454.3	350.9	274.6	280.7	293.3
50°	416.6	313.9	257.2	277.2	292.0
52.5°	369.9	280.7	243.4	274.0	290.1
55°	329.7	249.2	231.8	269.5	286.2
57.5°	283.3	220.9	221.5	263.7	280.4
60°	244.7	195.1	211.5	255.6	271.7
62.5°	205.4	171.9	200.6	245.0	259.5
65°	168.4	150.7	188.7	231.2	243.4
67.5°	137.5	131.4	175.1	214.4	224.7
70°	111.4	113.6	160.3	195.7	204.4
72.5°	85.6	97.2	144.2	175.8	183.2
75°	65.4	81.8	127.2	155.8	162.3
77.5°	48.3	68.3	111.7	137.8	143.3
80°	34.1	56.3	97.2	122.0	126.2
82.5°	22.9	46.4	85.3	107.9	111.7
85°	13.2	38.0	75.0	95.9	98.5
87.5°	5.5	31.6	66.6	83.7	85.0
90°	0.6	26.7	59.2	71.5	70.8
92.5°	0.6	24.1	52.8	59.9	58.3
95°	0.6	22.5	47.0	50.2	48.6
97.5°	0.6	21.6	41.9	43.1	41.5
100°	0.3	20.9	38.3	38.3	36.7
102.5°	0.3	20.3	35.7	34.8	33.5
105°	0.3	19.6	33.8	32.8	31.2
107.5°	0.3	19.3	32.5	31.6	29.9
110°	0.3	18.7	31.6	30.6	29.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	18.4	30.9	30.3	28.7
115°	0.3	17.7	29.9	29.6	28.7
117.5°	0.3	17.1	29.3	29.3	28.3
120°	0.3	16.4	28.3	29.0	28.0
122.5°	0.3	15.8	27.4	28.3	27.4
125°	0.3	15.1	26.4	27.7	27.0
127.5°	0.6	14.2	25.1	27.0	26.4
130°	0.3	13.2	23.8	26.4	26.1
132.5°	0.6	12.2	22.5	25.4	25.4
135°	0.6	11.3	20.9	24.5	24.5
137.5°	0.6	10.0	19.3	23.2	23.5
140°	0.6	9.0	17.7	21.9	22.5
142.5°	0.6	8.0	16.1	20.6	21.6
145°	0.6	7.1	14.5	19.0	20.3
147.5°	0.6	6.4	12.9	17.1	19.0
150°	0.6	5.5	11.6	15.5	17.4
152.5°	0.6	4.8	10.3	13.8	16.1
155°	0.6	4.5	9.0	11.9	14.5
157.5°	0.6	3.9	7.7	10.3	12.9
160°	0.6	3.2	6.4	9.0	10.9
162.5°	0.6	2.9	5.5	7.4	9.7
165°	0.6	2.6	4.5	5.8	7.7
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)