

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

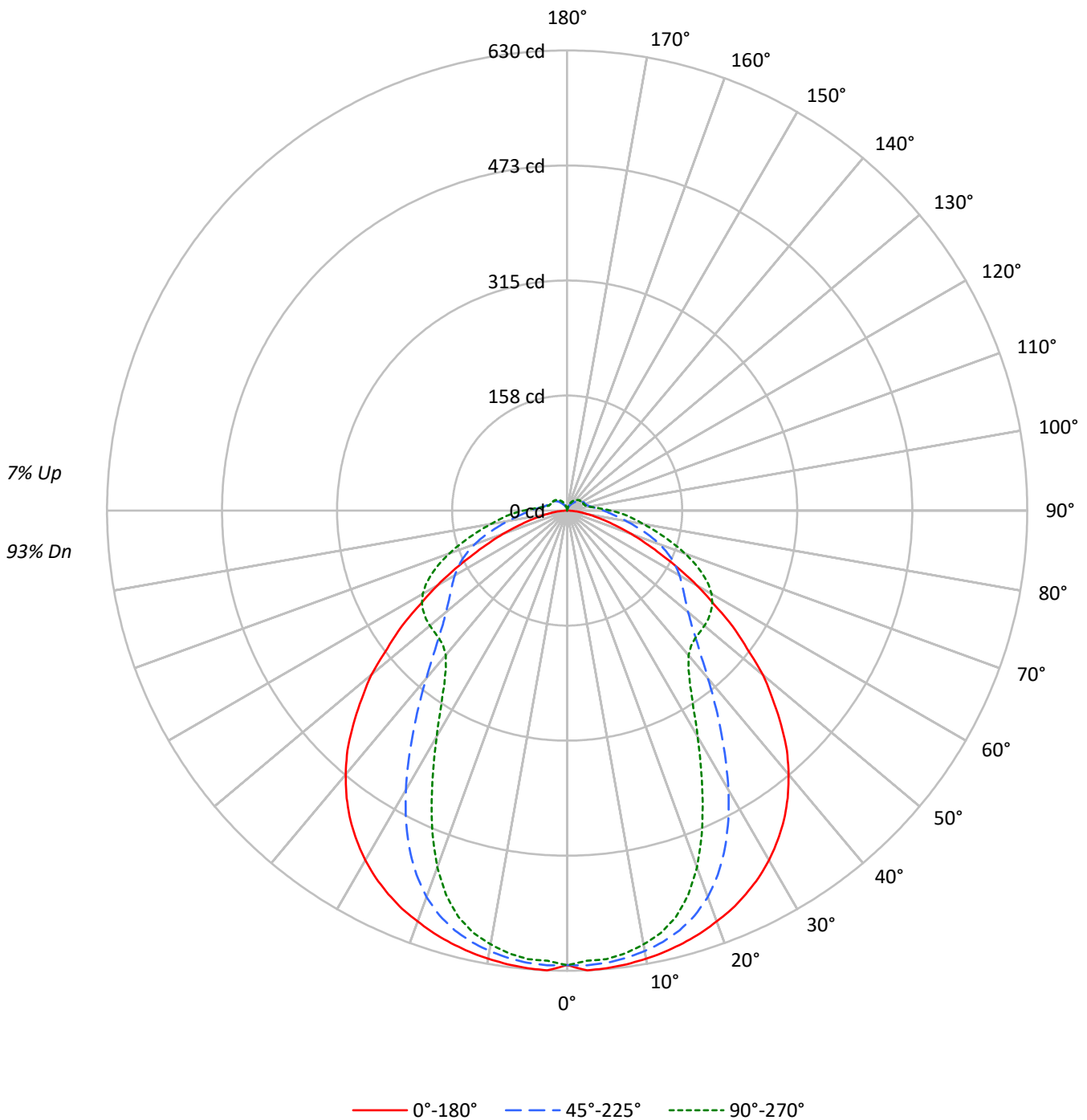
Lumens per Lamp: N/A
Luminaire Lumens: 1565.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L935-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°	5029	5029	5029
5°	5087	4918	4841
10°	5085	4782	4642
15°	5087	4622	4377
20°	5089	4384	3931
25°	5091	4017	3329
30°	5067	3534	2738
35°	4995	3007	2294
40°	4849	2547	2075
45°	4591	2214	2058
50°	4242	2023	2131
55°	3735	1945	2205
60°	3151	1917	2236
65°	2534	1875	2166
70°	2037	1778	1997
75°	1535	1609	1773
80°	1135	1445	1577
85°	758	1363	1451



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.8
10°-20°	166.4	10.6
20°-30°	232.6	14.9
30°-40°	241.3	15.4
40°-50°	222.9	14.2
50°-60°	199.0	12.7
60°-70°	161.3	10.3
70°-80°	107.3	6.9
80°-90°	61.4	3.9
90°-100°	34.0	2.2
100°-110°	23.0	1.5
110°-120°	19.2	1.2
120°-130°	15.6	1.0
130°-140°	11.2	0.7
140°-150°	6.8	0.4
150°-160°	3.3	0.2
160°-170°	0.8	0.1
170°-180°	0.0	0.0
0°-30°	457.9	29.3
0°-40°	699.2	44.7
0°-60°	1121.1	71.6
0°-90°	1451.1	92.7
90°-120°	76.2	4.9
90°-150°	109.8	7.0
90°-180°	114.0	7.3
0°-180°	1565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	629	618	622	617	616	60
15°	613	600	595	582	576	173
25°	579	554	511	457	439	267
35°	517	461	366	308	294	323
45°	414	328	249	240	248	319
55°	277	209	195	226	240	246
65°	141	127	158	194	204	143
75°	55	69	107	131	136	60
85°	11	32	63	81	83	13
90°	0	22	50	60	60	1
95°	0	19	40	42	41	0
105°	0	16	28	28	26	0
115°	0	15	25	25	24	0
125°	0	13	22	23	23	0
135°	0	10	18	21	21	0
145°	0	6	12	16	17	0
155°	0	4	8	10	12	0
165°	0	2	4	5	6	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-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.3	622.3	622.3	622.3	622.3
2.5°	630.1	619.9	623.1	620.4	616.9
5°	628.8	618.2	621.5	617.2	616.4
7.5°	626.4	615.8	617.7	612.6	611.2
10°	623.1	612.0	612.3	605.0	603.1
12.5°	618.8	606.6	605.0	595.0	592.3
15°	613.1	600.1	595.0	581.5	575.8
17.5°	606.9	591.7	581.2	560.4	551.4
20°	598.5	581.5	563.1	531.4	519.5
22.5°	590.1	569.0	539.5	497.4	481.4
25°	579.3	553.6	510.9	457.3	438.7
27.5°	567.1	535.5	477.9	416.2	396.2
30°	552.8	513.6	441.6	375.9	357.0
32.5°	536.0	489.0	403.5	339.7	322.1
35°	517.4	460.6	366.2	307.5	293.7
37.5°	496.0	429.5	331.6	281.5	272.6
40°	471.7	395.7	299.7	261.5	258.6
42.5°	445.4	362.7	272.3	248.5	251.2
45°	414.3	328.3	249.4	240.4	247.7
47.5°	381.6	294.8	230.7	235.8	246.4
50°	350.0	263.7	216.1	232.9	245.3
52.5°	310.7	235.8	204.5	230.2	243.7
55°	276.9	209.3	194.7	226.4	240.4
57.5°	238.0	185.5	186.1	221.5	235.6
60°	205.5	163.9	177.7	214.7	228.3
62.5°	172.5	144.4	168.5	205.8	218.0
65°	141.4	126.6	158.5	194.2	204.5
67.5°	115.5	110.3	147.1	180.1	188.8
70°	93.6	95.5	134.7	164.4	171.7
72.5°	71.9	81.7	121.2	147.7	153.9
75°	54.9	68.7	106.8	130.9	136.3
77.5°	40.6	57.3	93.8	115.8	120.4
80°	28.7	47.3	81.7	102.5	106.0
82.5°	19.2	38.9	71.7	90.6	93.8
85°	11.1	31.9	63.0	80.6	82.8
87.5°	4.6	26.5	56.0	70.3	71.4
90°	0.5	22.4	49.8	60.0	59.5
92.5°	0.5	20.3	44.4	50.3	49.0
95°	0.5	18.9	39.5	42.2	40.8
97.5°	0.5	18.1	35.2	36.2	34.9
100°	0.3	17.6	32.2	32.2	30.8
102.5°	0.3	17.0	30.0	29.2	28.1
105°	0.3	16.5	28.4	27.6	26.2
107.5°	0.3	16.2	27.3	26.5	25.2
110°	0.3	15.7	26.5	25.7	24.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	15.4	26.0	25.4	24.1
115°	0.3	14.9	25.2	24.9	24.1
117.5°	0.3	14.3	24.6	24.6	23.8
120°	0.3	13.8	23.8	24.3	23.5
122.5°	0.3	13.3	23.0	23.8	23.0
125°	0.3	12.7	22.2	23.3	22.7
127.5°	0.5	11.9	21.1	22.7	22.2
130°	0.3	11.1	20.0	22.2	21.9
132.5°	0.5	10.3	18.9	21.4	21.4
135°	0.5	9.5	17.6	20.6	20.6
137.5°	0.5	8.4	16.2	19.5	19.7
140°	0.5	7.6	14.9	18.4	18.9
142.5°	0.5	6.8	13.5	17.3	18.1
145°	0.5	5.9	12.2	16.0	17.0
147.5°	0.5	5.4	10.8	14.3	16.0
150°	0.5	4.6	9.7	13.0	14.6
152.5°	0.5	4.1	8.7	11.6	13.5
155°	0.5	3.8	7.6	10.0	12.2
157.5°	0.5	3.2	6.5	8.7	10.8
160°	0.5	2.7	5.4	7.6	9.2
162.5°	0.5	2.4	4.6	6.2	8.1
165°	0.5	2.2	3.8	4.9	6.5
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)