

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

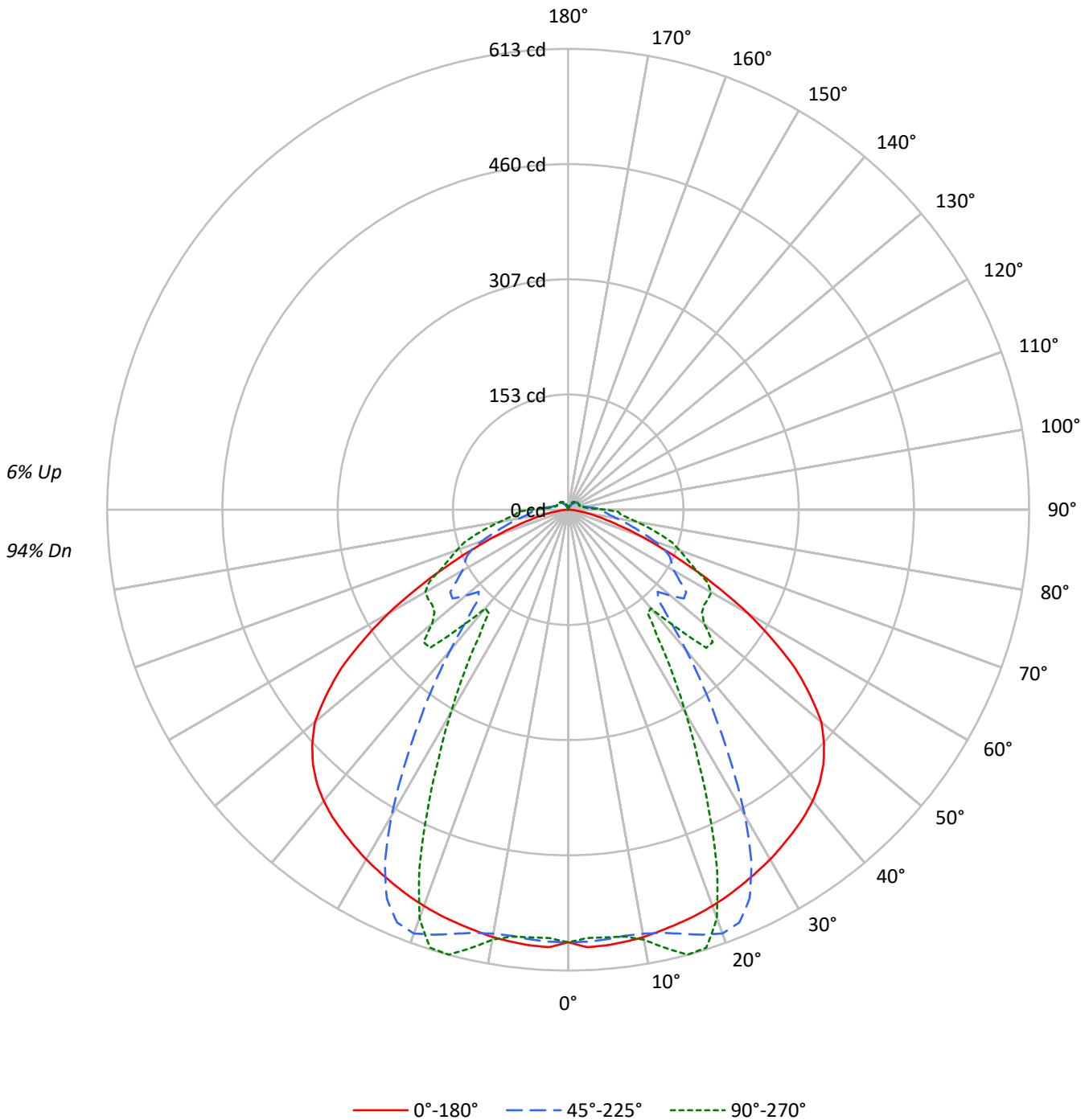
Lumens per Lamp: N/A
Luminaire Lumens: 1478.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	4650	4650	4650
5°	4706	4540	4485
10°	4712	4472	4469
15°	4725	4535	4658
20°	4769	4669	4372
25°	4828	4488	3367
30°	4924	3759	2395
35°	5045	2846	1622
40°	5199	2069	1373
45°	5318	1501	2159
50°	5326	1662	2049
55°	4978	1913	2023
60°	4241	1750	2151
65°	3190	1766	1967
70°	2239	1606	1831
75°	1468	1346	1642
80°	937	1153	1367
85°	506	1097	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	3.7
10°-20°	165.3	11.2
20°-30°	240.1	16.2
30°-40°	229.4	15.5
40°-50°	209.9	14.2
50°-60°	193.8	13.1
60°-70°	153.9	10.4
70°-80°	95.0	6.4
80°-90°	51.7	3.5
90°-100°	26.2	1.8
100°-110°	16.4	1.1
110°-120°	13.9	0.9
120°-130°	11.4	0.8
130°-140°	8.2	0.6
140°-150°	5.0	0.3
150°-160°	2.4	0.2
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	460.2	31.1
0°-40°	689.6	46.7
0°-60°	1093.3	74.0
0°-90°	1393.9	94.3
90°-120°	56.5	3.8
90°-150°	81.1	5.5
90°-180°	84.0	5.7
0°-180°	1478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	582	573	574	571	571	55
15°	570	562	584	605	613	161
25°	549	560	571	483	444	254
35°	523	514	347	239	208	328
45°	480	335	169	216	260	369
55°	369	172	192	206	221	325
65°	178	111	149	181	186	180
75°	52	59	89	118	126	59
85°	7	25	51	69	70	9
90°	0	19	45	54	50	0
95°	0	18	31	28	26	0
105°	0	16	19	18	17	0
115°	0	13	19	17	16	0
125°	0	10	17	16	15	0
135°	0	7	13	14	14	0
145°	0	5	9	12	12	0
155°	0	3	6	7	9	0
165°	0	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°	575.4	575.4	575.4	575.4	575.4
2.5°	582.5	574.1	575.1	573.3	570.3
5°	581.7	572.8	573.8	570.8	571.0
7.5°	579.7	570.5	571.8	571.3	572.6
10°	577.4	567.7	572.6	576.9	580.7
12.5°	573.3	564.7	576.4	589.1	597.0
15°	569.5	561.9	583.8	605.4	612.8
17.5°	565.7	560.9	592.9	611.8	610.8
20°	560.9	560.3	599.8	593.5	577.9
22.5°	555.5	560.6	594.5	547.9	517.3
25°	549.4	560.1	570.8	483.2	443.7
27.5°	543.3	557.8	527.7	412.4	373.4
30°	537.2	551.7	469.7	347.7	312.3
32.5°	530.0	538.4	406.5	290.4	257.8
35°	522.6	514.2	346.6	238.7	207.6
37.5°	515.0	479.3	292.9	193.3	173.5
40°	505.8	435.5	243.5	165.8	171.2
42.5°	494.4	386.1	199.9	174.0	211.1
45°	479.9	334.7	169.1	215.7	259.8
47.5°	461.5	285.3	161.5	247.1	260.8
50°	439.4	239.9	177.5	236.9	235.9
52.5°	405.7	202.2	193.8	216.0	224.1
55°	369.1	171.7	191.5	206.1	220.6
57.5°	322.7	151.0	175.7	204.0	220.8
60°	276.6	137.3	162.2	203.8	219.6
62.5°	225.7	124.8	155.4	198.9	208.3
65°	178.0	111.3	149.3	181.3	185.7
67.5°	136.5	97.6	138.6	161.7	170.4
70°	102.9	84.1	121.7	146.7	157.4
72.5°	74.1	71.3	104.4	133.5	144.7
75°	52.5	59.3	89.4	118.4	126.3
77.5°	36.2	48.4	76.7	101.9	108.2
80°	23.7	38.7	65.2	87.6	91.9
82.5°	14.3	31.1	56.5	76.7	79.0
85°	7.4	25.2	50.7	69.0	70.0
87.5°	2.3	21.1	47.4	65.5	66.7
90°	0.3	18.8	45.3	53.7	49.7
92.5°	0.0	17.8	39.2	36.7	32.9
95°	0.0	17.6	31.3	27.8	26.2
97.5°	0.0	17.1	25.7	23.2	22.4
100°	0.0	16.6	22.2	20.4	20.1
102.5°	0.0	16.3	20.1	18.6	18.3
105°	0.0	15.8	19.4	17.6	17.3
107.5°	0.0	15.0	18.8	17.1	16.6
110°	0.0	14.3	18.8	16.8	16.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.5	18.8	16.6	15.8
115°	0.0	13.0	18.6	16.6	15.8
117.5°	0.3	12.5	18.3	16.6	15.8
120°	0.0	12.0	17.8	16.6	15.5
122.5°	0.3	11.2	17.3	16.3	15.5
125°	0.3	10.4	16.6	16.0	15.3
127.5°	0.3	9.7	15.8	15.5	14.8
130°	0.3	8.9	15.0	15.3	14.5
132.5°	0.3	8.2	14.0	14.8	14.3
135°	0.3	7.4	13.2	14.5	14.0
137.5°	0.3	6.6	12.2	13.8	13.8
140°	0.3	5.9	11.2	13.2	13.5
142.5°	0.3	5.3	10.2	12.7	13.0
145°	0.3	4.6	9.2	11.7	12.5
147.5°	0.3	4.1	8.2	10.7	11.7
150°	0.3	3.6	7.1	9.7	10.7
152.5°	0.3	3.1	6.4	8.4	9.9
155°	0.5	2.8	5.6	7.4	8.9
157.5°	0.5	2.3	4.6	6.4	7.6
160°	0.5	2.0	4.1	5.3	6.9
162.5°	0.5	1.8	3.3	4.6	5.9
165°	0.5	1.5	2.8	3.6	4.8
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)