

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-LD5-30SL-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-LD5-30SL-SLN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

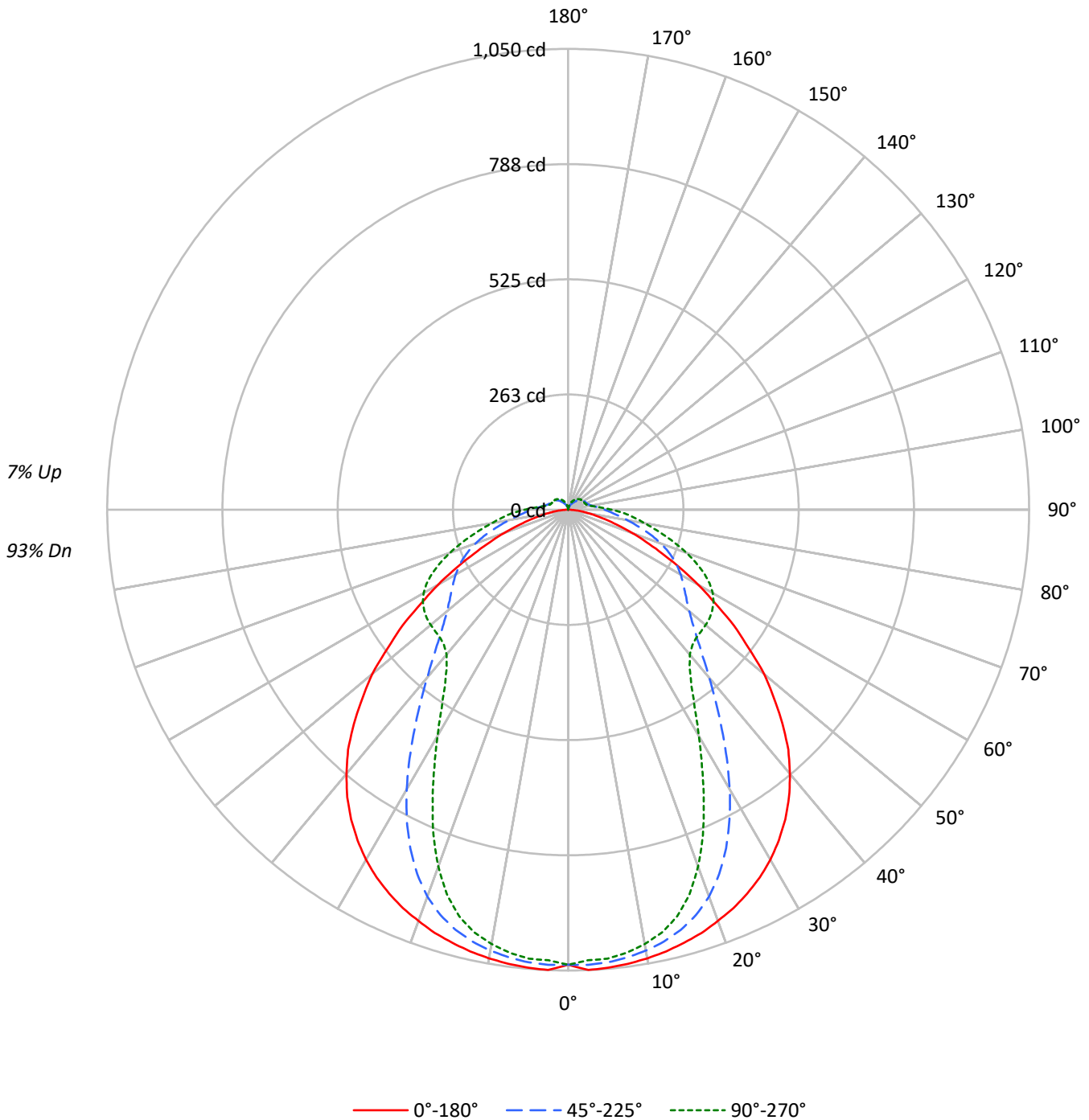
Lumens per Lamp: N/A
Luminaire Lumens: 2607.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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°	8377	8377	8377
5°	8474	8192	8064
10°	8471	7966	7732
15°	8473	7699	7291
20°	8477	7302	6548
25°	8481	6691	5545
30°	8441	5888	4561
35°	8320	5009	3822
40°	8077	4243	3455
45°	7649	3687	3429
50°	7066	3371	3549
55°	6222	3240	3673
60°	5250	3194	3724
65°	4222	3123	3608
70°	3392	2962	3328
75°	2558	2681	2953
80°	1890	2408	2627
85°	1264	2271	2417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.8
10°-20°	277.2	10.6
20°-30°	387.5	14.9
30°-40°	401.9	15.4
40°-50°	371.3	14.2
50°-60°	331.5	12.7
60°-70°	268.7	10.3
70°-80°	178.7	6.9
80°-90°	102.3	3.9
90°-100°	56.6	2.2
100°-110°	38.4	1.5
110°-120°	31.9	1.2
120°-130°	25.9	1.0
130°-140°	18.7	0.7
140°-150°	11.3	0.4
150°-160°	5.4	0.2
160°-170°	1.4	0.1
170°-180°	0.0	0.0
0°-30°	762.8	29.3
0°-40°	1164.7	44.7
0°-60°	1867.6	71.6
0°-90°	2417.4	92.7
90°-120°	126.9	4.9
90°-150°	182.8	7.0
90°-180°	190.0	7.3
0°-180°	2607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1048	1030	1035	1028	1027	100
15°	1021	1000	991	969	959	289
25°	965	922	851	762	731	445
35°	862	767	610	512	489	538
45°	690	547	415	400	413	531
55°	461	349	324	377	400	410
65°	236	211	264	324	341	238
75°	92	114	178	218	227	100
85°	18	53	105	134	138	21
90°	1	37	83	100	99	1
95°	1	32	66	70	68	1
105°	0	28	47	46	44	1
115°	0	25	42	41	40	0
125°	0	21	37	39	38	1
135°	1	16	29	34	34	1
145°	1	10	20	27	28	1
155°	1	6	13	17	20	0
165°	1	4	6	8	11	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°	1036.6	1036.6	1036.6	1036.6	1036.6
2.5°	1049.7	1032.6	1038.0	1033.5	1027.6
5°	1047.5	1029.9	1035.3	1028.1	1026.7
7.5°	1043.4	1025.8	1029.0	1020.4	1018.2
10°	1038.0	1019.5	1020.0	1007.8	1004.7
12.5°	1030.8	1010.5	1007.8	991.1	986.6
15°	1021.3	999.7	991.1	968.6	959.2
17.5°	1011.0	985.7	968.2	933.5	918.6
20°	997.0	968.6	938.0	885.3	865.4
22.5°	983.0	947.9	898.8	828.5	801.9
25°	965.0	922.2	851.0	761.8	730.7
27.5°	944.7	892.0	796.1	693.4	660.0
30°	920.9	855.5	735.7	626.2	594.7
32.5°	892.9	814.5	672.2	565.9	536.6
35°	861.8	767.2	610.0	512.2	489.3
37.5°	826.3	715.4	552.3	469.0	454.1
40°	785.7	659.1	499.2	435.7	430.7
42.5°	742.0	604.1	453.7	414.0	418.5
45°	690.2	546.9	415.4	400.5	412.7
47.5°	635.7	491.1	384.3	392.9	410.4
50°	583.0	439.3	360.0	387.9	408.6
52.5°	517.6	392.9	340.6	383.4	405.9
55°	461.3	348.7	324.4	377.1	400.5
57.5°	396.5	309.1	310.0	369.0	392.4
60°	342.4	273.0	296.0	357.7	380.2
62.5°	287.4	240.6	280.7	342.8	363.1
65°	235.6	210.8	264.0	323.5	340.6
67.5°	192.4	183.8	245.1	300.0	314.5
70°	155.9	159.0	224.4	273.9	286.1
72.5°	119.8	136.1	201.8	246.0	256.3
75°	91.5	114.4	178.0	218.1	227.1
77.5°	67.6	95.5	156.3	192.8	200.5
80°	47.8	78.8	136.1	170.7	176.6
82.5°	32.0	64.9	119.4	150.9	156.3
85°	18.5	53.2	105.0	134.3	137.9
87.5°	7.7	44.2	93.3	117.1	118.9
90°	0.9	37.4	82.9	100.0	99.1
92.5°	0.9	33.8	73.9	83.8	81.5
95°	0.9	31.5	65.8	70.3	68.0
97.5°	0.9	30.2	58.6	60.4	58.1
100°	0.5	29.3	53.6	53.6	51.4
102.5°	0.5	28.4	50.0	48.7	46.9
105°	0.5	27.5	47.3	46.0	43.7
107.5°	0.5	27.0	45.5	44.2	41.9
110°	0.5	26.1	44.2	42.8	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	25.7	43.2	42.3	40.1
115°	0.5	24.8	41.9	41.4	40.1
117.5°	0.5	23.9	41.0	41.0	39.6
120°	0.5	23.0	39.6	40.5	39.2
122.5°	0.5	22.1	38.3	39.6	38.3
125°	0.5	21.2	36.9	38.7	37.8
127.5°	0.9	19.8	35.1	37.8	36.9
130°	0.5	18.5	33.3	36.9	36.5
132.5°	0.9	17.1	31.5	35.6	35.6
135°	0.9	15.8	29.3	34.2	34.2
137.5°	0.9	14.0	27.0	32.4	32.9
140°	0.9	12.6	24.8	30.6	31.5
142.5°	0.9	11.3	22.5	28.8	30.2
145°	0.9	9.9	20.3	26.6	28.4
147.5°	0.9	9.0	18.0	23.9	26.6
150°	0.9	7.7	16.2	21.6	24.3
152.5°	0.9	6.8	14.4	19.4	22.5
155°	0.9	6.3	12.6	16.7	20.3
157.5°	0.9	5.4	10.8	14.4	18.0
160°	0.9	4.5	9.0	12.6	15.3
162.5°	0.9	4.1	7.7	10.4	13.5
165°	0.9	3.6	6.3	8.1	10.8
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)