

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213754

Luminaire Tested: 4SNLED-LD5-34SL-SLC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-34SL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

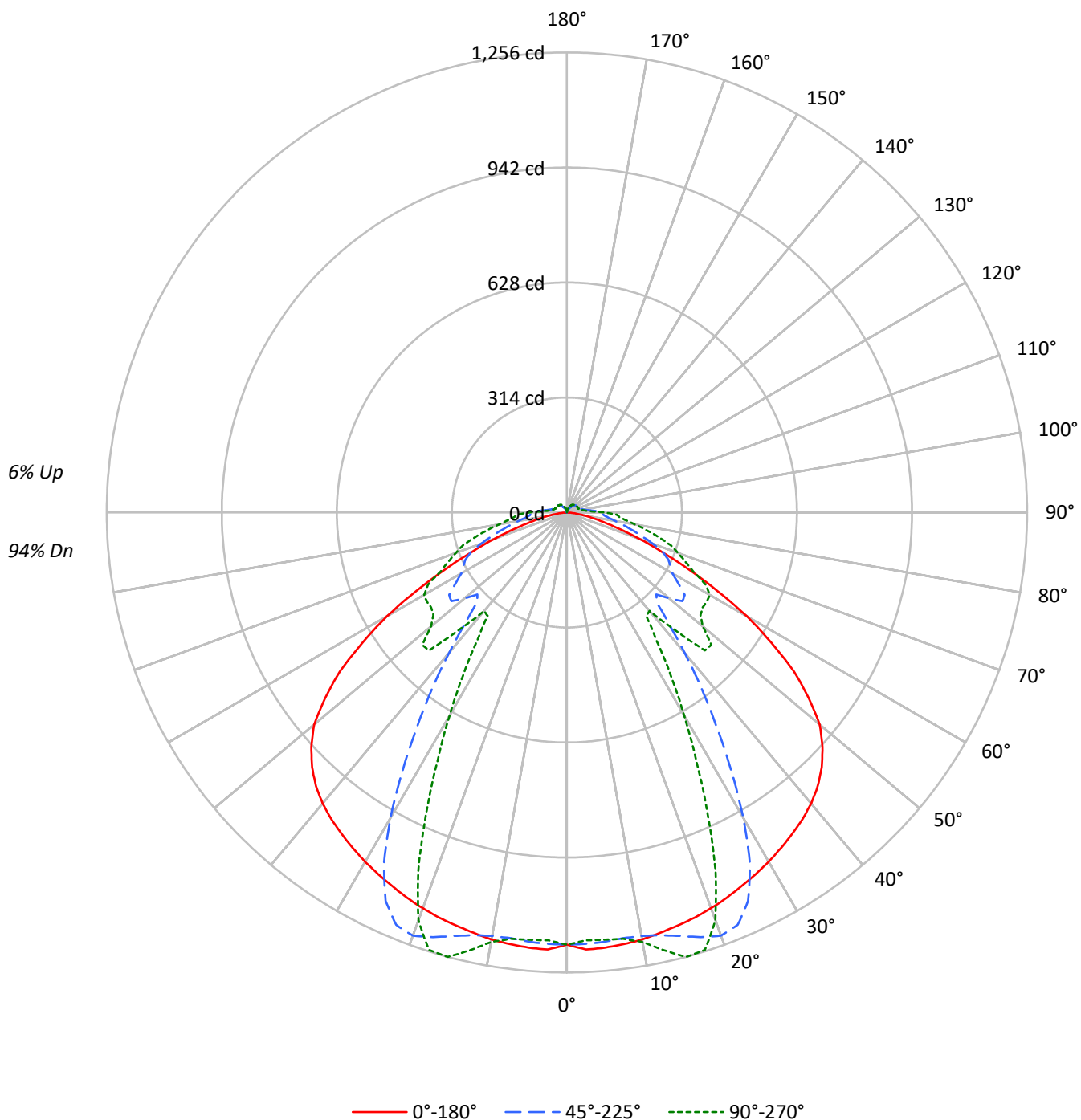
Lumens per Lamp: N/A
Luminaire Lumens: 3030.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9532	9532	9532
5°	9648	9309	9195
10°	9660	9167	9162
15°	9686	9296	9550
20°	9777	9573	8964
25°	9898	9200	6902
30°	10093	7706	4910
35°	10344	5836	3325
40°	10660	4243	2815
45°	10901	3077	4425
50°	10917	3407	4200
55°	10204	3922	4148
60°	8695	3588	4408
65°	6541	3619	4033
70°	4591	3295	3753
75°	3009	2761	3368
80°	1921	2365	2804
85°	1032	2247	2517

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 10943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.7
10°-20°	338.9	11.2
20°-30°	492.3	16.2
30°-40°	470.4	15.5
40°-50°	430.3	14.2
50°-60°	397.3	13.1
60°-70°	315.6	10.4
70°-80°	194.8	6.4
80°-90°	106.1	3.5
90°-100°	53.6	1.8
100°-110°	33.7	1.1
110°-120°	28.5	0.9
120°-130°	23.3	0.8
130°-140°	16.7	0.6
140°-150°	10.3	0.3
150°-160°	4.9	0.2
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	943.4	31.1
0°-40°	1413.8	46.7
0°-60°	2241.3	74.0
0°-90°	2857.7	94.3
90°-120°	115.8	3.8
90°-150°	166.1	5.5
90°-180°	172.0	5.7
0°-180°	3030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1193	1174	1176	1170	1171	113
15°	1168	1152	1197	1241	1256	330
25°	1126	1148	1170	990	910	521
35°	1072	1054	711	489	426	672
45°	984	686	347	442	533	756
55°	757	352	393	422	452	666
65°	365	228	306	372	381	369
75°	108	122	183	243	259	122
85°	15	52	104	142	144	19
90°	0	39	93	110	102	1
95°	0	36	64	57	54	0
105°	0	32	40	36	36	0
115°	0	27	38	34	32	0
125°	0	21	34	33	31	0
135°	0	15	27	30	29	0
145°	0	9	19	24	26	0
155°	1	6	12	15	18	0
165°	1	3	6	7	10	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°	1179.6	1179.6	1179.6	1179.6	1179.6
2.5°	1194.2	1176.9	1179.0	1175.4	1169.1
5°	1192.6	1174.3	1176.4	1170.2	1170.7
7.5°	1188.4	1169.6	1172.2	1171.2	1173.8
10°	1183.7	1163.9	1173.8	1182.7	1190.5
12.5°	1175.4	1157.6	1181.6	1207.7	1223.9
15°	1167.5	1151.9	1196.8	1241.2	1256.3
17.5°	1159.7	1149.8	1215.6	1254.2	1252.1
20°	1149.8	1148.7	1229.7	1216.6	1184.8
22.5°	1138.8	1149.3	1218.7	1123.2	1060.5
25°	1126.3	1148.2	1170.2	990.5	909.6
27.5°	1113.8	1143.5	1081.9	845.4	765.5
30°	1101.2	1131.0	962.9	712.7	640.2
32.5°	1086.6	1103.8	833.4	595.3	528.4
35°	1071.5	1054.2	710.7	489.3	425.6
37.5°	1055.8	982.7	600.5	396.3	355.6
40°	1037.0	892.9	499.2	339.9	350.9
42.5°	1013.5	791.6	409.9	356.6	432.9
45°	983.7	686.1	346.7	442.3	532.6
47.5°	946.1	584.8	331.0	506.5	534.7
50°	900.7	491.9	363.9	485.6	483.5
52.5°	831.8	414.6	397.4	442.8	459.5
55°	756.6	351.9	392.7	422.4	452.2
57.5°	661.6	309.6	360.3	418.2	452.7
60°	567.1	281.4	332.6	417.7	450.1
62.5°	462.6	255.9	318.5	407.8	427.1
65°	365.0	228.2	306.0	371.8	380.7
67.5°	279.9	200.0	284.1	331.6	349.3
70°	211.0	172.3	249.6	300.8	322.7
72.5°	151.9	146.2	214.1	273.6	296.6
75°	107.6	121.7	183.3	242.8	259.0
77.5°	74.1	99.2	157.2	208.9	221.9
80°	48.6	79.4	133.7	179.6	188.5
82.5°	29.2	63.7	115.9	157.2	161.9
85°	15.1	51.7	103.9	141.5	143.6
87.5°	4.7	43.3	97.1	134.2	136.8
90°	0.5	38.6	92.9	110.2	101.8
92.5°	0.0	36.6	80.4	75.2	67.4
95°	0.0	36.0	64.2	56.9	53.8
97.5°	0.0	35.0	52.7	47.5	45.9
100°	0.0	33.9	45.4	41.8	41.3
102.5°	0.0	33.4	41.3	38.1	37.6
105°	0.0	32.4	39.7	36.0	35.5
107.5°	0.0	30.8	38.6	35.0	33.9
110°	0.0	29.2	38.6	34.5	32.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.7	38.6	33.9	32.4
115°	0.0	26.6	38.1	33.9	32.4
117.5°	0.5	25.6	37.6	33.9	32.4
120°	0.0	24.5	36.6	33.9	31.9
122.5°	0.5	23.0	35.5	33.4	31.9
125°	0.5	21.4	33.9	32.9	31.3
127.5°	0.5	19.8	32.4	31.9	30.3
130°	0.5	18.3	30.8	31.3	29.8
132.5°	0.5	16.7	28.7	30.3	29.2
135°	0.5	15.1	27.2	29.8	28.7
137.5°	0.5	13.6	25.1	28.2	28.2
140°	0.5	12.0	23.0	27.2	27.7
142.5°	0.5	11.0	20.9	26.1	26.6
145°	0.5	9.4	18.8	24.0	25.6
147.5°	0.5	8.4	16.7	21.9	24.0
150°	0.5	7.3	14.6	19.8	21.9
152.5°	0.5	6.3	13.1	17.2	20.4
155°	1.0	5.7	11.5	15.1	18.3
157.5°	1.0	4.7	9.4	13.1	15.7
160°	1.0	4.2	8.4	11.0	14.1
162.5°	1.0	3.7	6.8	9.4	12.0
165°	1.0	3.1	5.7	7.3	9.9
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)