

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: P1213404

Luminaire Tested: 4SNLED-LD5-34SL-SLN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-34SL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

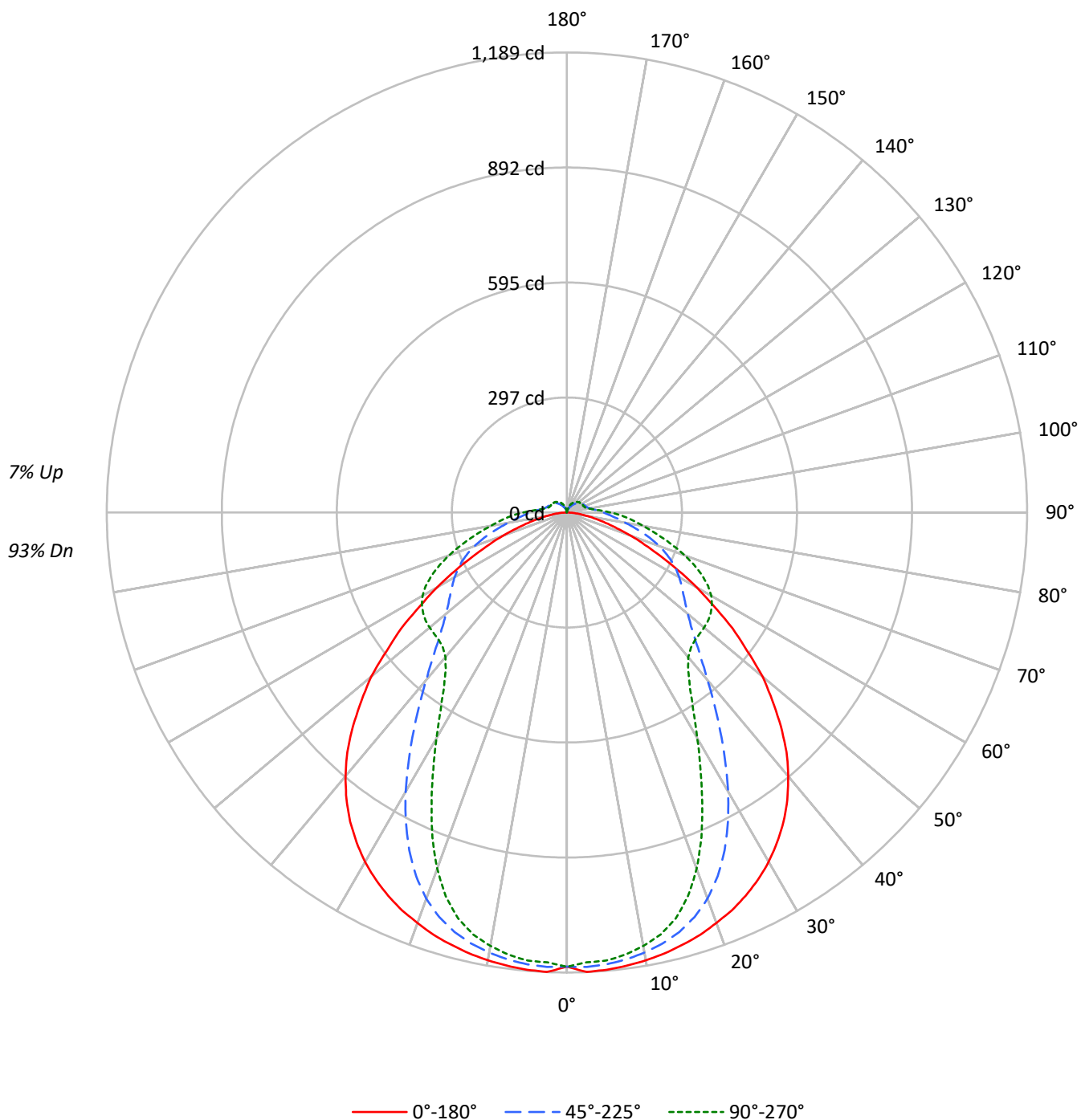
Lumens per Lamp: N/A
Luminaire Lumens: 2952.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9485	9485	9485
5°	9595	9276	9131
10°	9592	9020	8755
15°	9595	8718	8256
20°	9599	8268	7415
25°	9603	7577	6278
30°	9557	6667	5164
35°	9421	5672	4328
40°	9146	4803	3912
45°	8661	4174	3883
50°	8001	3817	4019
55°	7046	3668	4159
60°	5944	3616	4217
65°	4781	3535	4086
70°	3840	3353	3767
75°	2897	3035	3343
80°	2139	2726	2975
85°	1428	2572	2736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.8
10°-20°	313.9	10.6
20°-30°	438.8	14.9
30°-40°	455.1	15.4
40°-50°	420.5	14.2
50°-60°	375.4	12.7
60°-70°	304.2	10.3
70°-80°	202.3	6.9
80°-90°	115.9	3.9
90°-100°	64.1	2.2
100°-110°	43.4	1.5
110°-120°	36.1	1.2
120°-130°	29.4	1.0
130°-140°	21.2	0.7
140°-150°	12.8	0.4
150°-160°	6.1	0.2
160°-170°	1.6	0.1
170°-180°	0.0	0.0
0°-30°	863.7	29.3
0°-40°	1318.9	44.7
0°-60°	2114.7	71.6
0°-90°	2737.2	92.7
90°-120°	143.7	4.9
90°-150°	207.0	7.0
90°-180°	215.0	7.3
0°-180°	2952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1186	1166	1172	1164	1163	113
15°	1156	1132	1122	1097	1086	327
25°	1093	1044	964	863	827	504
35°	976	869	691	580	554	609
45°	782	619	470	454	467	601
55°	522	395	367	427	454	464
65°	267	239	299	366	386	270
75°	104	130	202	247	257	114
85°	21	60	119	152	156	24
90°	1	42	94	113	112	2
95°	1	36	74	80	77	1
105°	0	31	54	52	50	1
115°	0	28	47	47	45	0
125°	0	24	42	44	43	1
135°	1	18	33	39	39	1
145°	1	11	23	30	32	1
155°	1	7	14	19	23	0
165°	1	4	7	9	12	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°	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1188.6	1169.2	1175.4	1170.3	1163.6
5°	1186.1	1166.2	1172.3	1164.1	1162.6
7.5°	1181.5	1161.6	1165.2	1155.5	1152.9
10°	1175.4	1154.4	1155.0	1141.2	1137.6
12.5°	1167.2	1144.2	1141.2	1122.3	1117.2
15°	1156.5	1132.0	1122.3	1096.8	1086.1
17.5°	1144.8	1116.2	1096.3	1057.0	1040.2
20°	1128.9	1096.8	1062.1	1002.4	980.0
22.5°	1113.1	1073.3	1017.7	938.1	908.1
25°	1092.7	1044.3	963.7	862.6	827.4
27.5°	1069.8	1010.1	901.4	785.1	747.4
30°	1042.7	968.8	833.1	709.1	673.4
32.5°	1011.1	922.3	761.1	640.7	607.6
35°	975.9	868.8	690.7	580.0	554.0
37.5°	935.6	810.1	625.4	531.1	514.2
40°	889.7	746.3	565.2	493.3	487.7
42.5°	840.2	684.1	513.7	468.8	473.9
45°	781.5	619.3	470.3	453.5	467.3
47.5°	719.8	556.1	435.1	444.8	464.7
50°	660.1	497.4	407.6	439.2	462.7
52.5°	586.2	444.8	385.7	434.1	459.6
55°	522.4	394.8	367.3	427.0	453.5
57.5°	448.9	350.0	351.0	417.8	444.3
60°	387.7	309.1	335.2	405.1	430.6
62.5°	325.5	272.4	317.8	388.2	411.2
65°	266.8	238.7	298.9	366.3	385.7
67.5°	217.8	208.1	277.5	339.8	356.1
70°	176.5	180.1	254.0	310.2	323.9
72.5°	135.7	154.1	228.5	278.5	290.3
75°	103.6	129.6	201.5	246.9	257.1
77.5°	76.5	108.1	177.0	218.3	227.0
80°	54.1	89.3	154.1	193.3	200.0
82.5°	36.2	73.5	135.2	170.9	177.0
85°	20.9	60.2	118.9	152.0	156.1
87.5°	8.7	50.0	105.6	132.6	134.7
90°	1.0	42.3	93.9	113.3	112.2
92.5°	1.0	38.3	83.7	94.9	92.3
95°	1.0	35.7	74.5	79.6	77.0
97.5°	1.0	34.2	66.3	68.4	65.8
100°	0.5	33.2	60.7	60.7	58.2
102.5°	0.5	32.1	56.6	55.1	53.1
105°	0.5	31.1	53.6	52.0	49.5
107.5°	0.5	30.6	51.5	50.0	47.4
110°	0.5	29.6	50.0	48.5	46.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	29.1	49.0	48.0	45.4
115°	0.5	28.1	47.4	46.9	45.4
117.5°	0.5	27.0	46.4	46.4	44.9
120°	0.5	26.0	44.9	45.9	44.4
122.5°	0.5	25.0	43.4	44.9	43.4
125°	0.5	24.0	41.8	43.9	42.9
127.5°	1.0	22.4	39.8	42.9	41.8
130°	0.5	20.9	37.8	41.8	41.3
132.5°	1.0	19.4	35.7	40.3	40.3
135°	1.0	17.9	33.2	38.8	38.8
137.5°	1.0	15.8	30.6	36.7	37.2
140°	1.0	14.3	28.1	34.7	35.7
142.5°	1.0	12.8	25.5	32.6	34.2
145°	1.0	11.2	23.0	30.1	32.1
147.5°	1.0	10.2	20.4	27.0	30.1
150°	1.0	8.7	18.4	24.5	27.5
152.5°	1.0	7.7	16.3	21.9	25.5
155°	1.0	7.1	14.3	18.9	23.0
157.5°	1.0	6.1	12.2	16.3	20.4
160°	1.0	5.1	10.2	14.3	17.3
162.5°	1.0	4.6	8.7	11.7	15.3
165°	1.0	4.1	7.1	9.2	12.2
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)