

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: P1213755

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

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213755
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

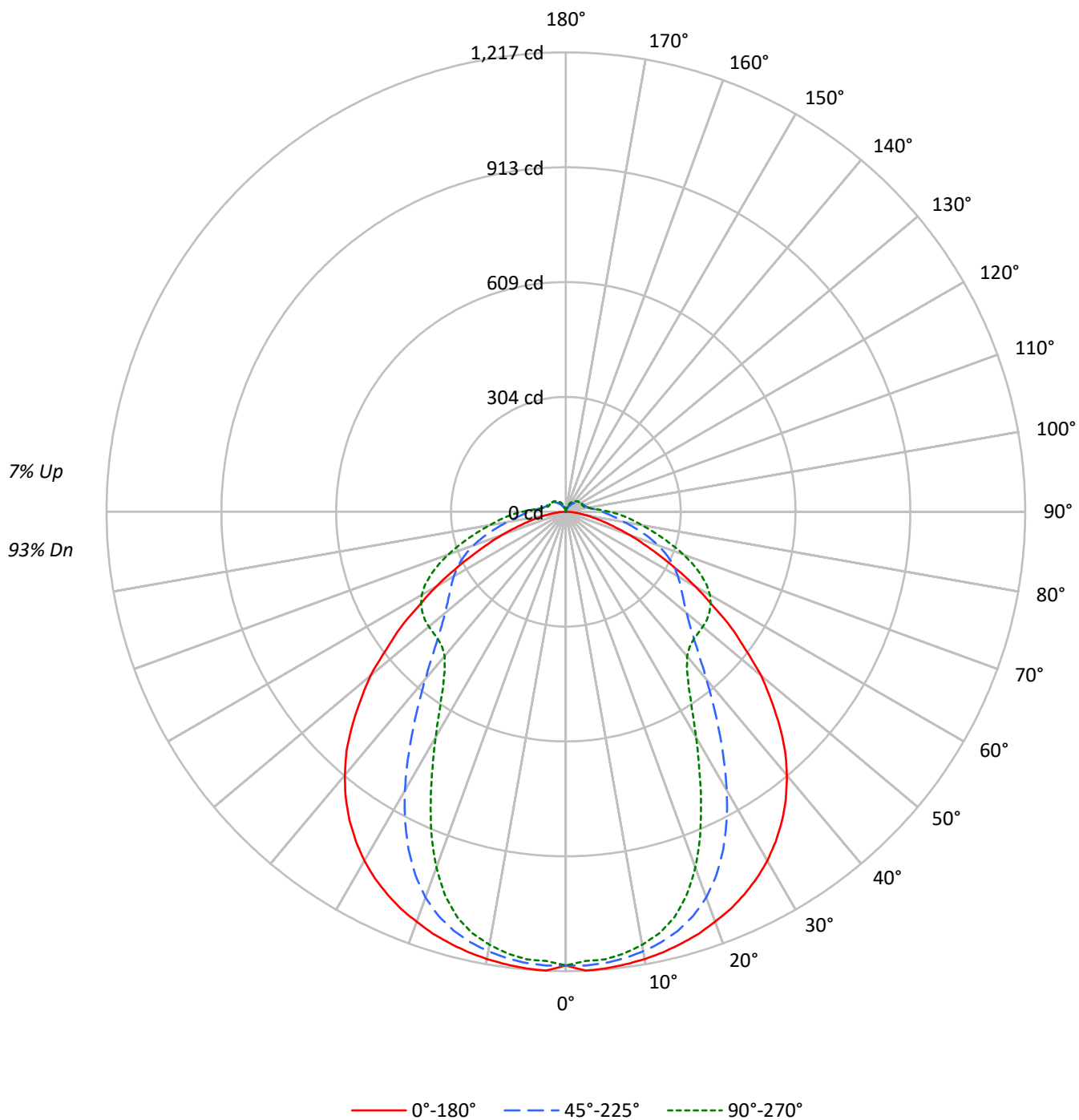
Lumens per Lamp: N/A
Luminaire Lumens: 3022.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	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	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	79	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	66	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	57	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	49	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	43	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	39	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	35	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	31	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	28	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9711	9711	9711
5°	9823	9496	9348
10°	9819	9233	8963
15°	9822	8924	8451
20°	9827	8465	7590
25°	9831	7756	6428
30°	9784	6825	5287
35°	9644	5807	4430
40°	9363	4917	4005
45°	8867	4274	3975
50°	8191	3907	4115
55°	7213	3755	4258
60°	6085	3702	4317
65°	4894	3619	4182
70°	3932	3433	3857
75°	2964	3107	3423
80°	2190	2790	3045
85°	1462	2632	2801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.8
10°-20°	321.3	10.6
20°-30°	449.2	14.9
30°-40°	465.9	15.4
40°-50°	430.4	14.2
50°-60°	384.3	12.7
60°-70°	311.5	10.3
70°-80°	207.1	6.9
80°-90°	118.6	3.9
90°-100°	65.6	2.2
100°-110°	44.4	1.5
110°-120°	37.0	1.2
120°-130°	30.1	1.0
130°-140°	21.7	0.7
140°-150°	13.1	0.4
150°-160°	6.3	0.2
160°-170°	1.6	0.1
170°-180°	0.0	0.0
0°-30°	884.2	29.3
0°-40°	1350.1	44.7
0°-60°	2164.9	71.6
0°-90°	2802.1	92.7
90°-120°	147.1	4.9
90°-150°	211.9	7.0
90°-180°	220.0	7.3
0°-180°	3022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1214	1194	1200	1192	1190	115
15°	1184	1159	1149	1123	1112	335
25°	1119	1069	986	883	847	515
35°	999	889	707	594	567	623
45°	800	634	482	464	478	615
55°	535	404	376	437	464	476
65°	273	244	306	375	395	276
75°	106	133	206	253	263	116
85°	21	62	122	156	160	25
90°	1	43	96	116	115	2
95°	1	37	76	82	79	1
105°	0	32	55	53	51	1
115°	0	29	49	48	46	0
125°	0	24	43	45	44	1
135°	1	18	34	40	40	1
145°	1	12	24	31	33	1
155°	1	7	15	19	24	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°	1201.7	1201.7	1201.7	1201.7	1201.7
2.5°	1216.8	1197.0	1203.2	1198.0	1191.2
5°	1214.2	1193.8	1200.1	1191.7	1190.2
7.5°	1209.5	1189.1	1192.8	1182.9	1180.3
10°	1203.2	1181.8	1182.3	1168.2	1164.6
12.5°	1194.9	1171.4	1168.2	1148.9	1143.7
15°	1183.9	1158.8	1148.9	1122.8	1111.8
17.5°	1171.9	1142.7	1122.3	1082.1	1064.8
20°	1155.7	1122.8	1087.3	1026.2	1003.2
22.5°	1139.5	1098.8	1041.9	960.4	929.6
25°	1118.6	1069.0	986.5	883.1	847.1
27.5°	1095.1	1034.0	922.8	803.7	765.1
30°	1067.5	991.7	852.8	725.9	689.4
32.5°	1035.1	944.2	779.2	655.9	622.0
35°	999.0	889.4	707.1	593.8	567.1
37.5°	957.8	829.3	640.3	543.6	526.4
40°	910.8	764.0	578.6	505.0	499.3
42.5°	860.1	700.3	525.9	479.9	485.2
45°	800.1	634.0	481.5	464.3	478.4
47.5°	736.9	569.2	445.5	455.4	475.8
50°	675.8	509.2	417.3	449.6	473.7
52.5°	600.1	455.4	394.8	444.4	470.5
55°	534.8	404.2	376.0	437.1	464.3
57.5°	459.6	358.3	359.3	427.7	454.9
60°	396.9	316.5	343.1	414.7	440.8
62.5°	333.2	278.9	325.4	397.4	420.9
65°	273.1	244.4	306.0	375.0	394.8
67.5°	223.0	213.1	284.1	347.8	364.5
70°	180.7	184.3	260.1	317.5	331.6
72.5°	138.9	157.7	234.0	285.1	297.2
75°	106.0	132.6	206.3	252.8	263.2
77.5°	78.3	110.7	181.2	223.5	232.4
80°	55.4	91.4	157.7	197.9	204.7
82.5°	37.1	75.2	138.4	174.9	181.2
85°	21.4	61.6	121.7	155.6	159.8
87.5°	8.9	51.2	108.1	135.8	137.9
90°	1.0	43.3	96.1	115.9	114.9
92.5°	1.0	39.2	85.6	97.1	94.5
95°	1.0	36.6	76.2	81.5	78.9
97.5°	1.0	35.0	67.9	70.0	67.4
100°	0.5	33.9	62.1	62.1	59.5
102.5°	0.5	32.9	58.0	56.4	54.3
105°	0.5	31.9	54.8	53.3	50.7
107.5°	0.5	31.3	52.7	51.2	48.6
110°	0.5	30.3	51.2	49.6	47.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	29.8	50.1	49.1	46.5
115°	0.5	28.7	48.6	48.0	46.5
117.5°	0.5	27.7	47.5	47.5	46.0
120°	0.5	26.6	46.0	47.0	45.4
122.5°	0.5	25.6	44.4	46.0	44.4
125°	0.5	24.5	42.8	44.9	43.9
127.5°	1.0	23.0	40.7	43.9	42.8
130°	0.5	21.4	38.6	42.8	42.3
132.5°	1.0	19.8	36.6	41.3	41.3
135°	1.0	18.3	33.9	39.7	39.7
137.5°	1.0	16.2	31.3	37.6	38.1
140°	1.0	14.6	28.7	35.5	36.6
142.5°	1.0	13.1	26.1	33.4	35.0
145°	1.0	11.5	23.5	30.8	32.9
147.5°	1.0	10.4	20.9	27.7	30.8
150°	1.0	8.9	18.8	25.1	28.2
152.5°	1.0	7.8	16.7	22.5	26.1
155°	1.0	7.3	14.6	19.3	23.5
157.5°	1.0	6.3	12.5	16.7	20.9
160°	1.0	5.2	10.4	14.6	17.8
162.5°	1.0	4.7	8.9	12.0	15.7
165°	1.0	4.2	7.3	9.4	12.5
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)