

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: P1213052

Luminaire Tested: 4SNLED-LD5-34SL-SLC-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213052
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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

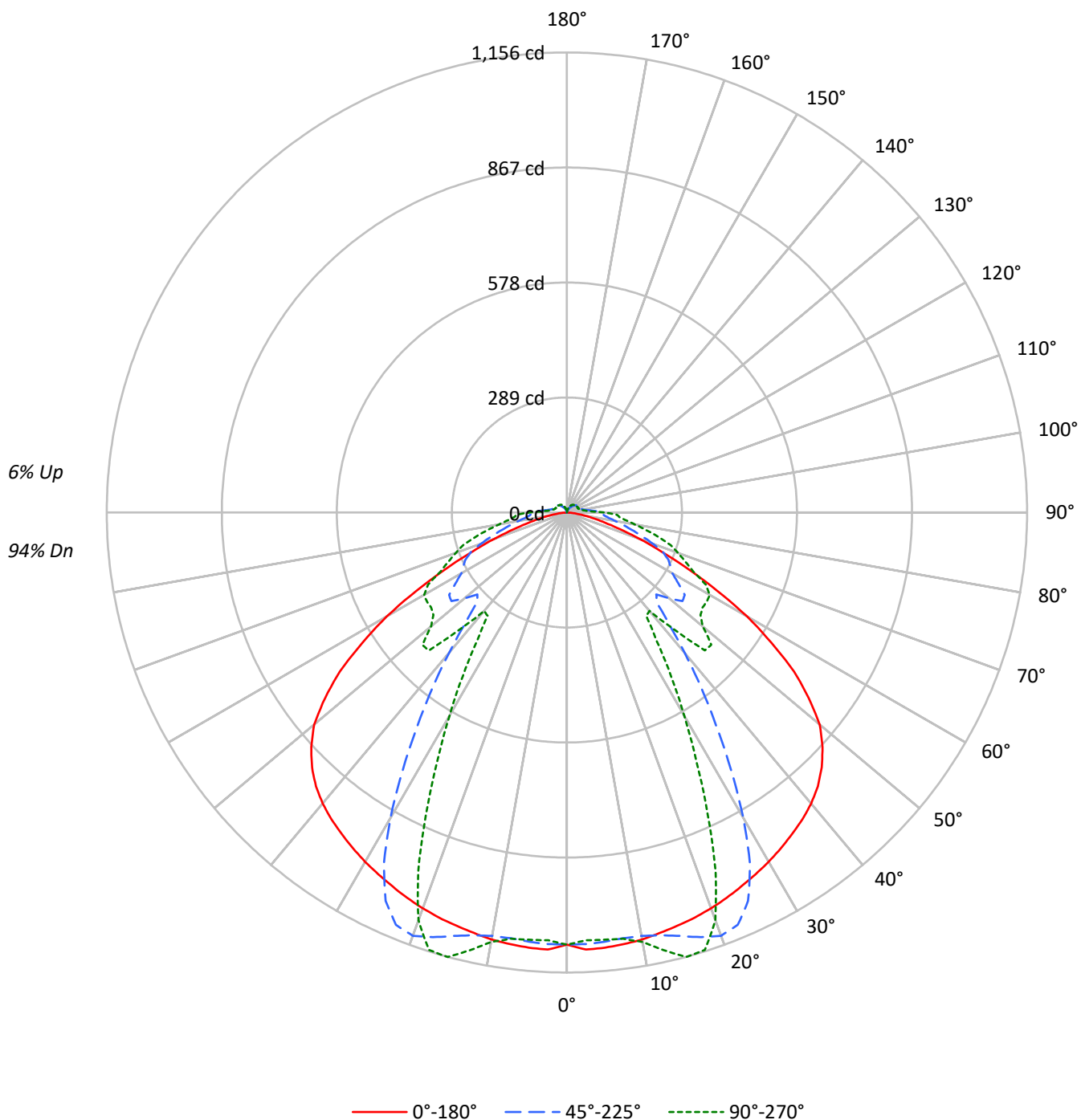
Lumens per Lamp: N/A
Luminaire Lumens: 2789.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8774	8774	8774
5°	8880	8568	8463
10°	8892	8438	8434
15°	8916	8557	8790
20°	8999	8812	8251
25°	9111	8468	6353
30°	9290	7093	4519
35°	9521	5371	3060
40°	9812	3905	2591
45°	10035	2832	4073
50°	10049	3137	3866
55°	9392	3610	3817
60°	8003	3304	4058
65°	6021	3331	3712
70°	4226	3032	3455
75°	2768	2541	3100
80°	1767	2176	2581
85°	950	2068	2317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 10074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.7
10°-20°	311.9	11.2
20°-30°	453.1	16.2
30°-40°	432.9	15.5
40°-50°	396.0	14.2
50°-60°	365.7	13.1
60°-70°	290.5	10.4
70°-80°	179.3	6.4
80°-90°	97.6	3.5
90°-100°	49.3	1.8
100°-110°	31.0	1.1
110°-120°	26.3	0.9
120°-130°	21.4	0.8
130°-140°	15.4	0.6
140°-150°	9.5	0.3
150°-160°	4.5	0.2
160°-170°	1.2	0.0
170°-180°	0.0	0.0
0°-30°	868.4	31.1
0°-40°	1301.3	46.7
0°-60°	2063.0	74.0
0°-90°	2630.4	94.3
90°-120°	106.6	3.8
90°-150°	152.9	5.5
90°-180°	159.0	5.7
0°-180°	2789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1098	1081	1083	1077	1078	104
15°	1075	1060	1102	1142	1156	304
25°	1037	1057	1077	912	837	479
35°	986	970	654	450	392	618
45°	906	632	319	407	490	696
55°	696	324	361	389	416	613
65°	336	210	282	342	350	340
75°	99	112	169	224	238	112
85°	14	48	96	130	132	18
90°	0	36	86	101	94	1
95°	0	33	59	52	50	0
105°	0	30	36	33	33	0
115°	0	24	35	31	30	0
125°	0	20	31	30	29	0
135°	0	14	25	27	26	0
145°	0	9	17	22	24	0
155°	1	5	11	14	17	0
165°	1	3	5	7	9	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°	1085.7	1085.7	1085.7	1085.7	1085.7
2.5°	1099.2	1083.3	1085.3	1081.9	1076.1
5°	1097.7	1080.9	1082.8	1077.1	1077.6
7.5°	1093.9	1076.6	1079.0	1078.0	1080.4
10°	1089.6	1071.3	1080.4	1088.6	1095.8
12.5°	1081.9	1065.5	1087.7	1111.7	1126.6
15°	1074.7	1060.3	1101.6	1142.4	1156.4
17.5°	1067.5	1058.3	1118.9	1154.5	1152.5
20°	1058.3	1057.4	1131.9	1119.9	1090.5
22.5°	1048.2	1057.9	1121.8	1033.8	976.1
25°	1036.7	1056.9	1077.1	911.7	837.2
27.5°	1025.2	1052.6	995.9	778.1	704.6
30°	1013.6	1041.0	886.3	656.1	589.2
32.5°	1000.2	1016.0	767.1	547.9	486.4
35°	986.2	970.4	654.1	450.3	391.7
37.5°	971.8	904.5	552.7	364.8	327.3
40°	954.5	821.9	459.5	312.9	323.0
42.5°	932.9	728.6	377.3	328.3	398.4
45°	905.5	631.5	319.1	407.1	490.2
47.5°	870.9	538.3	304.7	466.2	492.2
50°	829.1	452.7	335.0	447.0	445.1
52.5°	765.6	381.6	365.8	407.6	422.9
55°	696.4	323.9	361.4	388.8	416.2
57.5°	609.0	285.0	331.6	385.0	416.7
60°	522.0	259.1	306.2	384.5	414.3
62.5°	425.8	235.5	293.2	375.4	393.2
65°	336.0	210.0	281.6	342.2	350.4
67.5°	257.6	184.1	261.5	305.2	321.5
70°	194.2	158.6	229.7	276.8	297.0
72.5°	139.9	134.6	197.1	251.8	273.0
75°	99.0	112.0	168.7	223.5	238.4
77.5°	68.2	91.3	144.7	192.2	204.3
80°	44.7	73.1	123.0	165.3	173.5
82.5°	26.9	58.6	106.7	144.7	149.0
85°	13.9	47.6	95.6	130.2	132.2
87.5°	4.3	39.9	89.4	123.5	125.9
90°	0.5	35.6	85.6	101.4	93.7
92.5°	0.0	33.6	74.0	69.2	62.0
95°	0.0	33.2	59.1	52.4	49.5
97.5°	0.0	32.2	48.5	43.7	42.3
100°	0.0	31.2	41.8	38.4	38.0
102.5°	0.0	30.8	38.0	35.1	34.6
105°	0.0	29.8	36.5	33.2	32.7
107.5°	0.0	28.4	35.6	32.2	31.2
110°	0.0	26.9	35.6	31.7	30.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.5	35.6	31.2	29.8
115°	0.0	24.5	35.1	31.2	29.8
117.5°	0.5	23.6	34.6	31.2	29.8
120°	0.0	22.6	33.6	31.2	29.3
122.5°	0.5	21.1	32.7	30.8	29.3
125°	0.5	19.7	31.2	30.3	28.8
127.5°	0.5	18.3	29.8	29.3	27.9
130°	0.5	16.8	28.4	28.8	27.4
132.5°	0.5	15.4	26.4	27.9	26.9
135°	0.5	13.9	25.0	27.4	26.4
137.5°	0.5	12.5	23.1	26.0	26.0
140°	0.5	11.1	21.1	25.0	25.5
142.5°	0.5	10.1	19.2	24.0	24.5
145°	0.5	8.7	17.3	22.1	23.6
147.5°	0.5	7.7	15.4	20.2	22.1
150°	0.5	6.7	13.5	18.3	20.2
152.5°	0.5	5.8	12.0	15.9	18.7
155°	1.0	5.3	10.6	13.9	16.8
157.5°	1.0	4.3	8.7	12.0	14.4
160°	1.0	3.8	7.7	10.1	13.0
162.5°	1.0	3.4	6.2	8.7	11.1
165°	1.0	2.9	5.3	6.7	9.1
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)