

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: P1214105

Luminaire Tested: 4SNLED-LD5-34SL-SLC-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214105
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

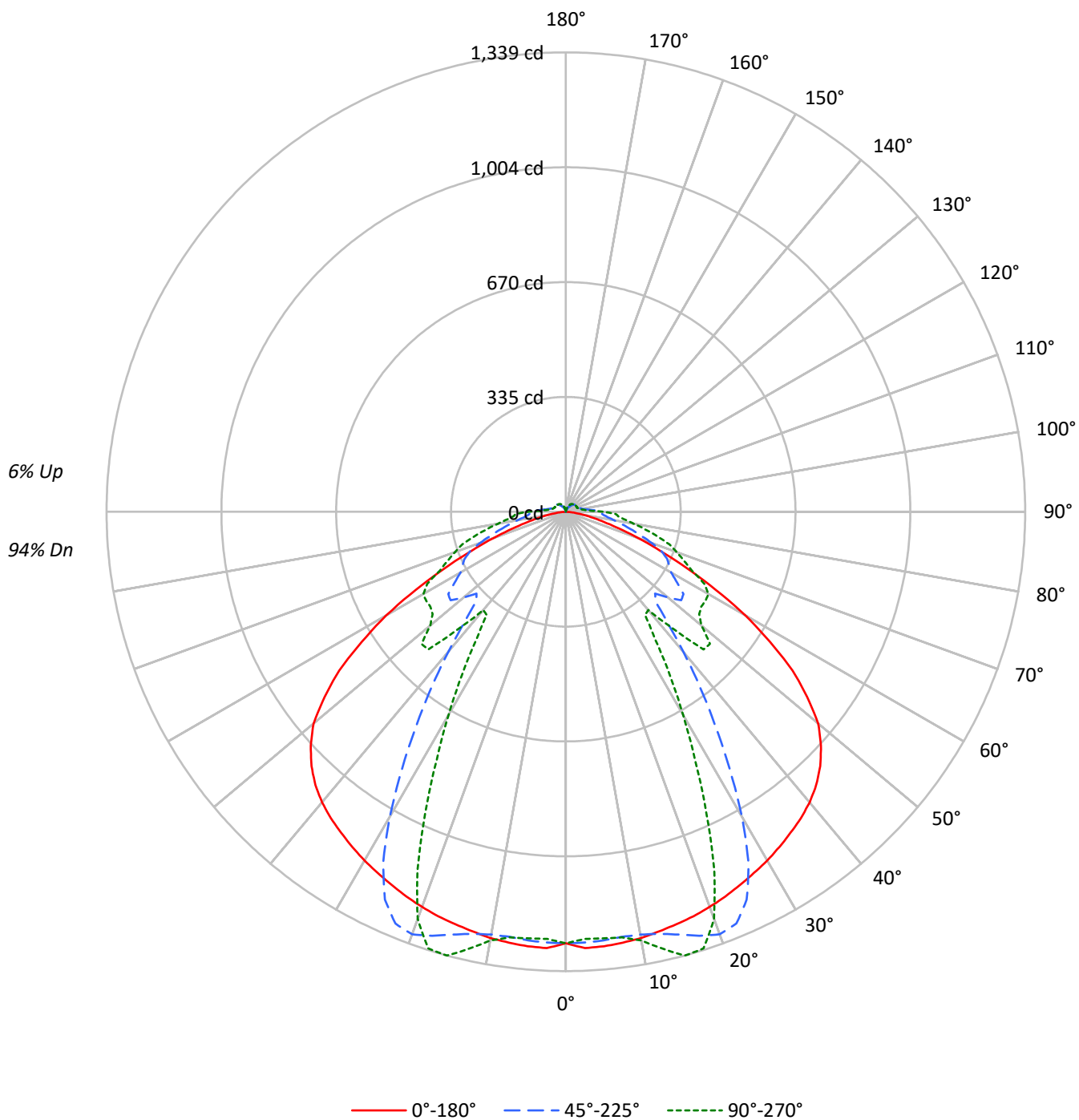
Lumens per Lamp: N/A
Luminaire Lumens: 3230.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P1214105

CATALOG NUMBER: 4SNLED-LD5-34SL-SLC-UNV-L950-CD1-U

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°	10161	10161	10161
5°	10285	9923	9801
10°	10298	9772	9767
15°	10326	9910	10180
20°	10422	10204	9556
25°	10551	9807	7357
30°	10760	8214	5233
35°	11027	6221	3543
40°	11364	4522	3000
45°	11622	3281	4718
50°	11638	3633	4477
55°	10877	4181	4421
60°	9268	3826	4699
65°	6973	3858	4299
70°	4894	3512	4001
75°	3207	2943	3591
80°	2048	2521	2988
85°	1100	2397	2683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 11666 cd/sqm

TEST NUMBER: P1214105

CATALOG NUMBER: 4SNLED-LD5-34SL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.7
10°-20°	361.3	11.2
20°-30°	524.8	16.2
30°-40°	501.4	15.5
40°-50°	458.7	14.2
50°-60°	423.5	13.1
60°-70°	336.4	10.4
70°-80°	207.6	6.4
80°-90°	113.1	3.5
90°-100°	57.2	1.8
100°-110°	35.9	1.1
110°-120°	30.4	0.9
120°-130°	24.9	0.8
130°-140°	17.8	0.6
140°-150°	11.0	0.3
150°-160°	5.2	0.2
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1005.7	31.1
0°-40°	1507.1	46.7
0°-60°	2389.2	74.0
0°-90°	3046.3	94.3
90°-120°	123.5	3.8
90°-150°	177.2	5.5
90°-180°	184.0	5.7
0°-180°	3230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1271	1252	1254	1247	1248	121
15°	1245	1228	1276	1323	1339	352
25°	1201	1224	1247	1056	970	555
35°	1142	1124	758	522	454	716
45°	1049	731	370	472	568	806
55°	806	375	419	450	482	710
65°	389	243	326	396	406	393
75°	115	130	195	259	276	130
85°	16	55	111	151	153	21
90°	1	41	99	117	108	1
95°	0	38	68	61	57	0
105°	0	34	42	38	38	0
115°	0	28	41	36	34	0
125°	1	23	36	35	33	0
135°	1	16	29	32	31	0
145°	1	10	20	26	27	0
155°	1	6	12	16	20	0
165°	1	3	6	8	11	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1214105

CATALOG NUMBER: 4SNLED-LD5-34SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.4	1257.4	1257.4	1257.4	1257.4
2.5°	1273.0	1254.6	1256.9	1253.0	1246.3
5°	1271.3	1251.8	1254.1	1247.4	1247.9
7.5°	1266.9	1246.8	1249.6	1248.5	1251.3
10°	1261.9	1240.7	1251.3	1260.7	1269.1
12.5°	1253.0	1234.0	1259.6	1287.5	1304.7
15°	1244.6	1227.9	1275.8	1323.1	1339.2
17.5°	1236.3	1225.7	1295.8	1337.0	1334.8
20°	1225.7	1224.6	1310.8	1296.9	1263.0
22.5°	1214.0	1225.1	1299.2	1197.3	1130.5
25°	1200.6	1224.0	1247.4	1055.9	969.6
27.5°	1187.3	1219.0	1153.3	901.2	816.0
30°	1173.9	1205.6	1026.4	759.8	682.4
32.5°	1158.3	1176.7	888.4	634.5	563.3
35°	1142.2	1123.8	757.6	521.6	453.6
37.5°	1125.5	1047.6	640.1	422.5	379.1
40°	1105.5	951.8	532.1	362.4	374.0
42.5°	1080.4	843.8	436.9	380.2	461.4
45°	1048.7	731.4	369.6	471.5	567.8
47.5°	1008.6	623.4	352.9	539.9	570.0
50°	960.2	524.3	388.0	517.7	515.4
52.5°	886.7	442.0	423.6	472.0	489.8
55°	806.5	375.2	418.6	450.3	482.0
57.5°	705.2	330.1	384.1	445.9	482.6
60°	604.5	300.0	354.6	445.3	479.8
62.5°	493.2	272.7	339.5	434.7	455.3
65°	389.1	243.2	326.2	396.3	405.8
67.5°	298.3	213.2	302.8	353.5	372.4
70°	224.9	183.7	266.1	320.6	344.0
72.5°	162.0	155.9	228.2	291.7	316.2
75°	114.7	129.7	195.4	258.8	276.1
77.5°	79.0	105.8	167.5	222.6	236.6
80°	51.8	84.6	142.5	191.5	200.9
82.5°	31.2	67.9	123.6	167.5	172.6
85°	16.1	55.1	110.8	150.8	153.1
87.5°	5.0	46.2	103.5	143.1	145.8
90°	0.6	41.2	99.1	117.4	108.5
92.5°	0.0	39.0	85.7	80.2	71.8
95°	0.0	38.4	68.5	60.7	57.3
97.5°	0.0	37.3	56.2	50.7	49.0
100°	0.0	36.2	48.4	44.5	44.0
102.5°	0.0	35.6	44.0	40.6	40.1
105°	0.0	34.5	42.3	38.4	37.9
107.5°	0.0	32.8	41.2	37.3	36.2
110°	0.0	31.2	41.2	36.7	35.1

TEST NUMBER: P1214105

CATALOG NUMBER: 4SNLED-LD5-34SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.5	41.2	36.2	34.5
115°	0.0	28.4	40.6	36.2	34.5
117.5°	0.6	27.3	40.1	36.2	34.5
120°	0.0	26.2	39.0	36.2	34.0
122.5°	0.6	24.5	37.9	35.6	34.0
125°	0.6	22.8	36.2	35.1	33.4
127.5°	0.6	21.2	34.5	34.0	32.3
130°	0.6	19.5	32.8	33.4	31.7
132.5°	0.6	17.8	30.6	32.3	31.2
135°	0.6	16.1	28.9	31.7	30.6
137.5°	0.6	14.5	26.7	30.1	30.1
140°	0.6	12.8	24.5	28.9	29.5
142.5°	0.6	11.7	22.3	27.8	28.4
145°	0.6	10.0	20.0	25.6	27.3
147.5°	0.6	8.9	17.8	23.4	25.6
150°	0.6	7.8	15.6	21.2	23.4
152.5°	0.6	6.7	13.9	18.4	21.7
155°	1.1	6.1	12.2	16.1	19.5
157.5°	1.1	5.0	10.0	13.9	16.7
160°	1.1	4.5	8.9	11.7	15.0
162.5°	1.1	3.9	7.2	10.0	12.8
165°	1.1	3.3	6.1	7.8	10.6
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)