

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: P1213720

Luminaire Tested: 4SNLED-LD5-20SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-20SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

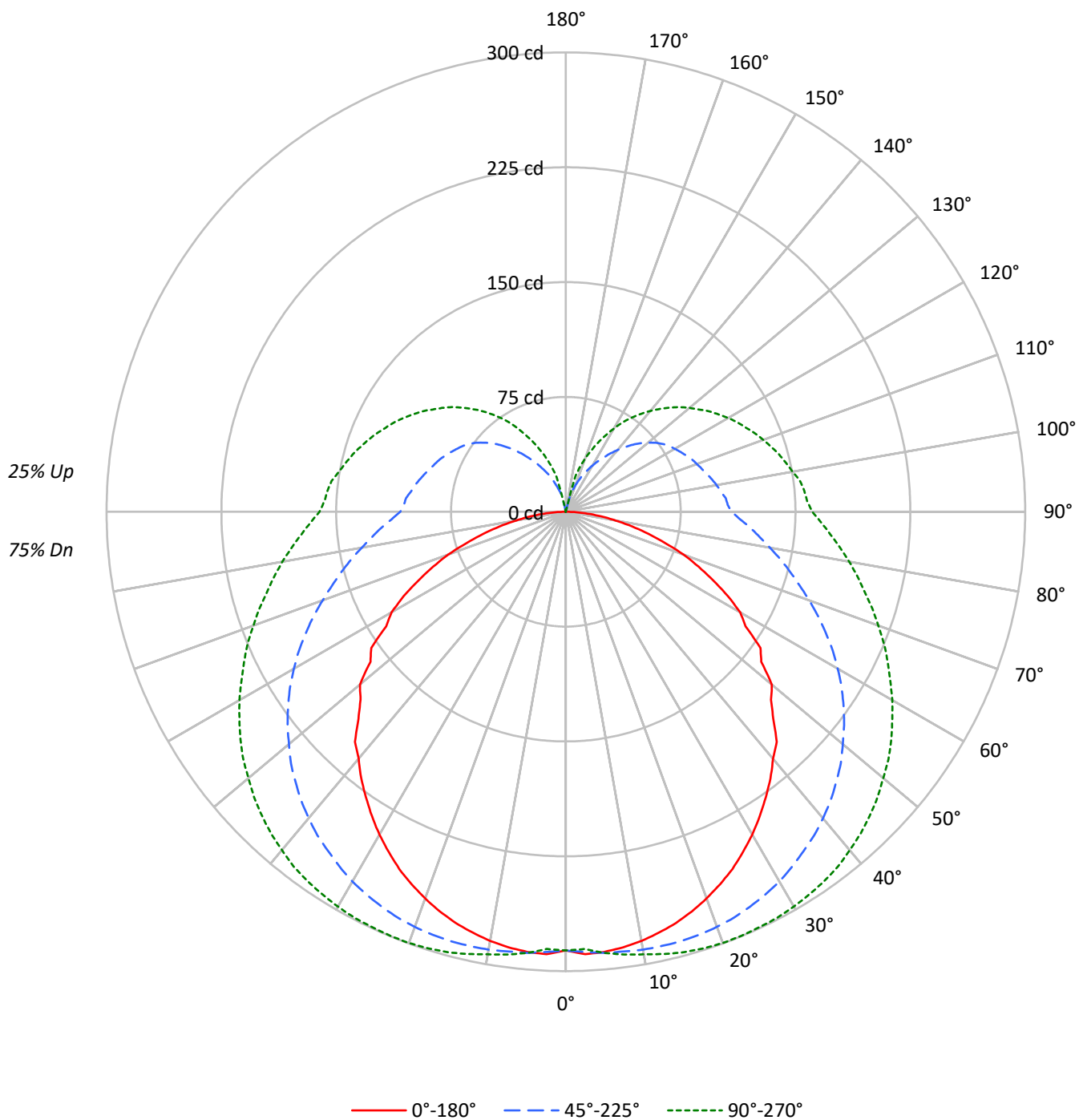
Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 16
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: P1213720

CATALOG NUMBER: 4SNLED-LD5-20SL-SLW-UNV-L940-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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2315	2315	2315
5°	2334	2288	2271
10°	2323	2268	2259
15°	2306	2256	2264
20°	2285	2246	2268
25°	2262	2238	2271
30°	2232	2231	2284
35°	2197	2222	2299
40°	2164	2221	2314
45°	2122	2216	2332
50°	2128	2211	2350
55°	2092	2211	2379
60°	2015	2213	2411
65°	1903	2215	2457
70°	1780	2231	2525
75°	1560	2283	2627
80°	1316	2393	2796
85°	977	2617	3044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 3464 cd/sqm

TEST NUMBER: P1213720

CATALOG NUMBER: 4SNLED-LD5-20SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.7
10°-20°	81.6	4.9
20°-30°	129.7	7.9
30°-40°	166.5	10.1
40°-50°	188.0	11.4
50°-60°	191.8	11.6
60°-70°	177.7	10.8
70°-80°	150.5	9.1
80°-90°	120.1	7.3
90°-100°	102.0	6.2
100°-110°	90.9	5.5
110°-120°	77.4	4.7
120°-130°	61.5	3.7
130°-140°	43.6	2.6
140°-150°	26.0	1.6
150°-160°	12.1	0.7
160°-170°	2.9	0.2
170°-180°	0.0	0.0
0°-30°	238.9	14.5
0°-40°	405.4	24.6
0°-60°	785.3	47.6
0°-90°	1233.6	74.8
90°-120°	270.3	16.4
90°-150°	401.4	24.3
90°-180°	416.0	25.2
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	286	286	286	286	286	
5°	288	286	289	289	289	27
15°	278	280	290	296	298	78
25°	257	266	285	295	299	119
35°	228	244	271	287	294	142
45°	192	218	250	271	281	149
55°	155	181	221	248	259	136
65°	106	142	187	220	232	105
75°	56	99	152	189	202	59
85°	14	64	121	160	174	16
90°	1	52	108	147	161	1
95°	0	49	105	143	156	0
105°	0	45	95	131	144	0
115°	0	42	87	118	130	0
125°	0	36	77	104	114	0
135°	0	27	62	88	96	0
145°	0	17	43	66	75	0
155°	0	11	27	40	50	0
165°	0	6	12	17	24	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213720

CATALOG NUMBER: 4SNLED-LD5-20SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	286.5	286.5	286.5	286.5	286.5
2.5°	289.2	286.1	287.7	287.3	285.8
5°	288.5	286.1	289.2	289.2	289.2
7.5°	286.9	285.4	289.6	291.2	291.6
10°	284.6	284.6	290.4	292.7	293.5
12.5°	281.5	282.7	290.4	293.9	295.8
15°	278.0	280.3	290.4	295.8	297.8
17.5°	273.7	277.6	289.6	296.2	298.9
20°	268.7	274.5	288.5	296.2	299.7
22.5°	263.3	270.6	286.9	295.4	299.7
25°	257.4	266.0	284.6	294.7	299.3
27.5°	250.5	261.3	281.9	293.5	298.9
30°	243.5	255.9	278.8	292.0	297.8
32.5°	235.7	250.1	274.9	289.6	296.2
35°	227.6	244.3	270.6	287.3	294.3
37.5°	219.5	237.3	266.4	284.2	292.0
40°	210.5	230.3	261.3	280.3	288.5
42.5°	203.9	222.9	255.9	276.4	285.0
45°	191.5	217.5	249.7	271.4	280.7
47.5°	181.8	207.0	243.5	266.4	276.1
50°	175.6	198.5	236.1	260.5	270.6
52.5°	160.9	192.7	229.1	254.7	265.6
55°	155.1	181.1	221.4	248.5	259.4
57.5°	139.2	172.9	213.6	241.6	252.8
60°	131.4	161.7	205.1	234.6	246.2
62.5°	119.4	152.0	196.6	226.8	238.8
65°	106.2	141.5	187.3	219.5	231.9
67.5°	93.8	131.1	178.4	211.7	224.9
70°	81.8	120.2	169.0	203.9	217.1
72.5°	67.9	109.3	160.1	196.6	209.8
75°	55.8	98.9	151.6	188.8	202.0
77.5°	44.2	88.8	143.5	181.8	195.0
80°	33.3	79.1	135.3	174.5	188.0
82.5°	23.3	71.0	127.9	167.5	180.7
85°	14.3	63.6	121.0	160.1	173.7
87.5°	6.6	57.0	114.0	153.2	167.1
90°	0.8	52.0	108.2	147.3	160.9
92.5°	0.4	50.4	105.8	144.6	157.8
95°	0.0	48.9	104.7	143.1	156.3
97.5°	0.0	47.3	102.0	140.7	154.3
100°	0.0	46.5	100.0	137.3	150.4
102.5°	0.0	45.4	97.7	134.2	147.3
105°	0.0	45.0	95.4	131.4	144.2
107.5°	0.0	44.2	93.1	127.9	140.7
110°	0.0	43.4	91.1	124.8	137.3

TEST NUMBER: P1213720

CATALOG NUMBER: 4SNLED-LD5-20SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.6	89.2	121.7	133.8
115°	0.0	41.9	86.8	118.3	129.9
117.5°	0.0	40.7	84.5	114.8	126.4
120°	0.0	39.2	82.2	111.7	122.5
122.5°	0.0	37.6	79.9	107.8	118.3
125°	0.0	36.1	77.2	104.3	114.4
127.5°	0.0	33.7	74.1	100.4	109.7
130°	0.0	31.4	70.2	96.5	105.5
132.5°	0.4	29.1	66.3	92.3	101.2
135°	0.0	26.8	62.0	88.0	96.2
137.5°	0.0	24.8	57.4	83.4	91.1
140°	0.0	22.5	52.7	77.9	86.1
142.5°	0.0	19.8	48.1	72.1	80.6
145°	0.0	17.4	43.4	65.9	75.2
147.5°	0.4	15.5	39.2	59.3	69.4
150°	0.4	14.0	34.9	52.7	62.8
152.5°	0.4	12.4	30.6	46.5	56.2
155°	0.4	10.9	26.8	40.3	50.0
157.5°	0.4	9.3	22.5	34.1	43.4
160°	0.4	8.1	18.6	28.7	37.2
162.5°	0.4	7.0	15.1	22.5	30.6
165°	0.4	5.8	12.0	16.7	23.7
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)