

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: P1214071

Luminaire Tested: 4SNLED-LD5-20SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214071
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

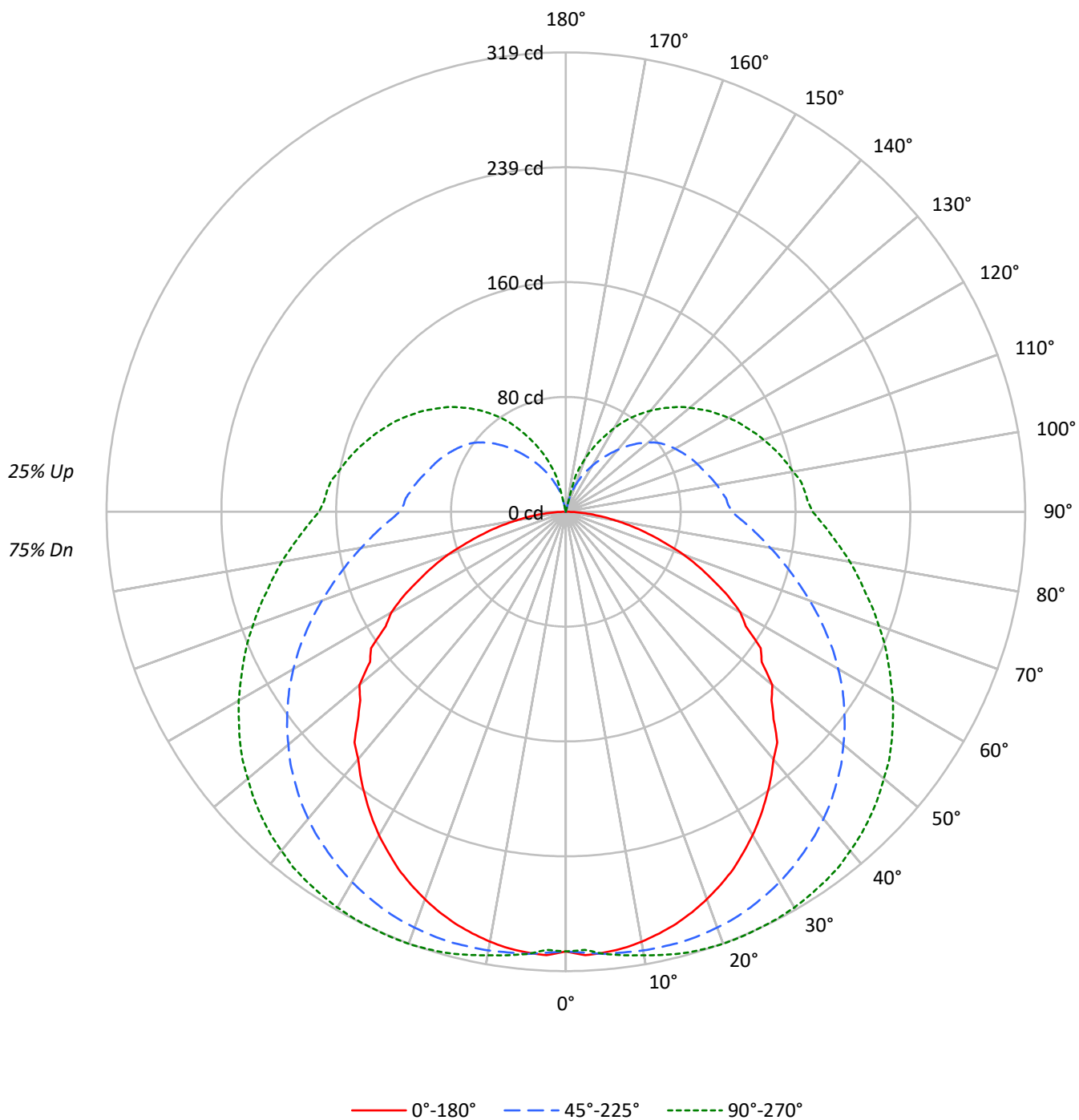
Lumens per Lamp: N/A
Luminaire Lumens: 1758.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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

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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	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°	2467	2467	2467
5°	2486	2439	2421
10°	2474	2416	2407
15°	2457	2403	2412
20°	2434	2392	2416
25°	2411	2384	2420
30°	2378	2377	2433
35°	2341	2367	2449
40°	2306	2366	2465
45°	2262	2361	2485
50°	2268	2356	2504
55°	2228	2356	2535
60°	2147	2357	2569
65°	2029	2360	2617
70°	1897	2377	2690
75°	1664	2432	2799
80°	1403	2551	2981
85°	1045	2788	3244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 3690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	1.7
10°-20°	87.0	4.9
20°-30°	138.2	7.9
30°-40°	177.4	10.1
40°-50°	200.3	11.4
50°-60°	204.4	11.6
60°-70°	189.4	10.8
70°-80°	160.3	9.1
80°-90°	128.0	7.3
90°-100°	108.7	6.2
100°-110°	96.8	5.5
110°-120°	82.5	4.7
120°-130°	65.5	3.7
130°-140°	46.5	2.6
140°-150°	27.7	1.6
150°-160°	12.9	0.7
160°-170°	3.1	0.2
170°-180°	0.0	0.0
0°-30°	254.5	14.5
0°-40°	431.9	24.6
0°-60°	836.7	47.6
0°-90°	1314.3	74.8
90°-120°	287.9	16.4
90°-150°	427.6	24.3
90°-180°	444.0	25.3
0°-180°	1758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	307	305	308	308	308	29
15°	296	299	309	315	317	84
25°	274	283	303	314	319	126
35°	242	260	288	306	314	152
45°	204	232	266	289	299	158
55°	165	193	236	265	276	145
65°	113	151	200	234	247	112
75°	60	105	162	201	215	63
85°	15	68	129	171	185	17
90°	1	55	115	157	171	1
95°	0	52	112	152	166	0
105°	0	48	102	140	154	0
115°	0	45	92	126	138	0
125°	0	38	82	111	122	0
135°	0	28	66	94	102	0
145°	0	19	46	70	80	0
155°	0	12	28	43	53	0
165°	0	6	13	18	25	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°	305.3	305.3	305.3	305.3	305.3
2.5°	308.2	304.9	306.5	306.1	304.5
5°	307.3	304.9	308.2	308.2	308.2
7.5°	305.7	304.0	308.6	310.2	310.7
10°	303.2	303.2	309.4	311.9	312.7
12.5°	299.9	301.2	309.4	313.1	315.2
15°	296.2	298.7	309.4	315.2	317.3
17.5°	291.6	295.8	308.6	315.6	318.5
20°	286.3	292.5	307.3	315.6	319.3
22.5°	280.5	288.3	305.7	314.8	319.3
25°	274.3	283.4	303.2	314.0	318.9
27.5°	266.9	278.4	300.3	312.7	318.5
30°	259.4	272.6	297.0	311.1	317.3
32.5°	251.2	266.5	292.9	308.6	315.6
35°	242.5	260.3	288.3	306.1	313.5
37.5°	233.8	252.8	283.8	302.8	311.1
40°	224.3	245.4	278.4	298.7	307.3
42.5°	217.3	237.5	272.6	294.5	303.6
45°	204.1	231.7	266.0	289.2	299.1
47.5°	193.7	220.6	259.4	283.8	294.1
50°	187.1	211.5	251.6	277.6	288.3
52.5°	171.4	205.3	244.1	271.4	283.0
55°	165.2	192.9	235.9	264.8	276.4
57.5°	148.3	184.2	227.6	257.4	269.3
60°	140.0	172.3	218.5	249.9	262.3
62.5°	127.2	161.9	209.4	241.7	254.5
65°	113.2	150.8	199.5	233.8	247.0
67.5°	100.0	139.6	190.0	225.6	239.6
70°	87.2	128.1	180.1	217.3	231.3
72.5°	72.3	116.5	170.6	209.4	223.5
75°	59.5	105.3	161.5	201.2	215.2
77.5°	47.1	94.6	152.8	193.7	207.8
80°	35.5	84.3	144.2	185.9	200.4
82.5°	24.8	75.6	136.3	178.5	192.5
85°	15.3	67.7	128.9	170.6	185.1
87.5°	7.0	60.7	121.5	163.2	178.0
90°	0.8	55.4	115.3	157.0	171.4
92.5°	0.4	53.7	112.8	154.1	168.1
95°	0.0	52.1	111.5	152.4	166.5
97.5°	0.0	50.4	108.6	150.0	164.4
100°	0.0	49.6	106.6	146.2	160.3
102.5°	0.0	48.3	104.1	142.9	157.0
105°	0.0	47.9	101.6	140.0	153.7
107.5°	0.0	47.1	99.1	136.3	150.0
110°	0.0	46.3	97.1	133.0	146.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.4	95.0	129.7	142.5
115°	0.0	44.6	92.5	126.0	138.4
117.5°	0.0	43.4	90.1	122.3	134.7
120°	0.0	41.7	87.6	119.0	130.5
122.5°	0.0	40.1	85.1	114.8	126.0
125°	0.0	38.4	82.2	111.1	121.9
127.5°	0.0	35.9	78.9	107.0	116.9
130°	0.0	33.5	74.8	102.9	112.4
132.5°	0.4	31.0	70.6	98.3	107.8
135°	0.0	28.5	66.1	93.8	102.4
137.5°	0.0	26.4	61.1	88.8	97.1
140°	0.0	24.0	56.2	83.0	91.7
142.5°	0.0	21.1	51.2	76.8	85.9
145°	0.0	18.6	46.3	70.2	80.1
147.5°	0.4	16.5	41.7	63.2	73.9
150°	0.4	14.9	37.2	56.2	66.9
152.5°	0.4	13.2	32.6	49.6	59.9
155°	0.4	11.6	28.5	43.0	53.3
157.5°	0.4	9.9	24.0	36.4	46.3
160°	0.4	8.7	19.8	30.6	39.7
162.5°	0.4	7.4	16.1	24.0	32.6
165°	0.4	6.2	12.8	17.8	25.2
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)