

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: P1213019

Luminaire Tested: 4SNLED-LD5-20SL-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-20SL-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

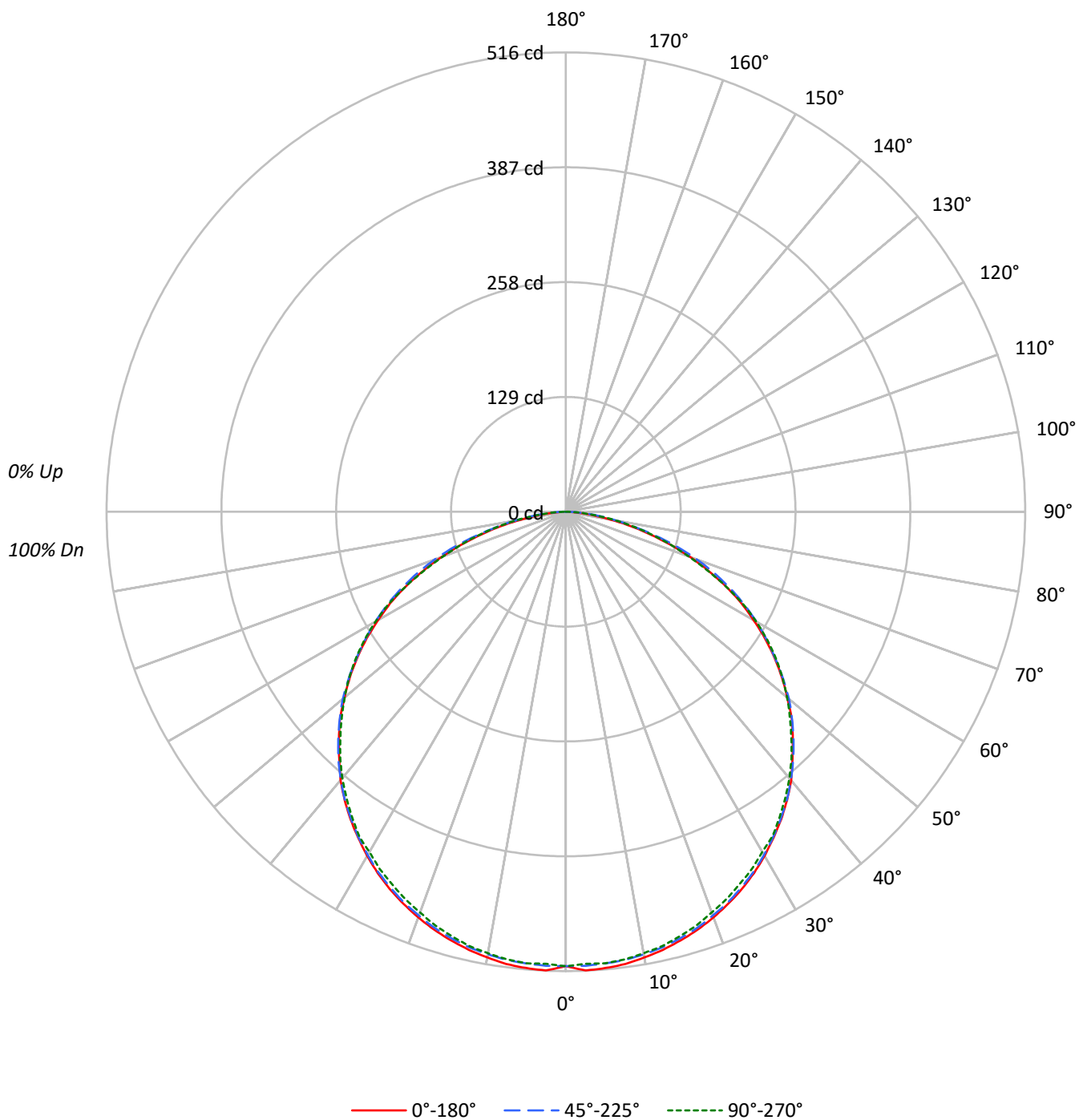
Lumens per Lamp: N/A
Luminaire Lumens: 1531.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 13
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	96	106	101	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4125	4125	4125
5°	4161	4030	3998
10°	4148	3942	3875
15°	4135	3854	3754
20°	4123	3759	3624
25°	4111	3664	3503
30°	4092	3562	3384
35°	4071	3456	3270
40°	4047	3343	3133
45°	3995	3210	2976
50°	3934	3064	2818
55°	3859	2868	2645
60°	3735	2669	2421
65°	3552	2411	2105
70°	3238	2072	1707
75°	2751	1581	1312
80°	2056	1042	860
85°	1059	506	384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.2
10°-20°	139.7	9.1
20°-30°	213.8	14.0
30°-40°	262.0	17.1
40°-50°	277.1	18.1
50°-60°	255.8	16.7
60°-70°	197.4	12.9
70°-80°	109.6	7.2
80°-90°	27.1	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	402.0	26.3
0°-40°	663.9	43.4
0°-60°	1196.8	78.2
0°-90°	1531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	514	508	509	508	509	49
15°	498	492	496	494	494	141
25°	468	462	466	462	462	216
35°	422	417	421	416	419	264
45°	360	357	362	358	358	278
55°	286	284	287	287	288	255
65°	198	196	204	203	199	195
75°	98	104	105	105	101	104
85°	16	23	23	24	22	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.4	510.4	510.4	510.4	510.4
2.5°	515.7	509.1	510.4	509.6	508.1
5°	514.4	507.8	509.3	508.1	509.1
7.5°	512.4	505.3	507.8	506.0	507.1
10°	508.3	502.2	504.8	502.7	503.5
12.5°	504.0	497.6	501.2	498.6	499.7
15°	498.4	492.5	496.1	494.3	493.8
17.5°	492.3	486.7	490.2	488.2	487.4
20°	484.9	479.5	482.8	479.8	479.0
22.5°	476.7	471.4	475.2	470.9	471.1
25°	467.8	462.2	466.0	462.0	461.7
27.5°	457.6	452.3	456.3	452.0	452.5
30°	446.4	441.1	445.1	440.8	441.3
32.5°	434.2	429.8	433.4	429.3	432.1
35°	421.7	417.1	420.9	416.3	418.6
37.5°	408.2	403.9	407.9	402.8	404.9
40°	393.7	389.8	393.4	388.8	390.6
42.5°	376.8	374.6	378.1	373.5	375.1
45°	360.5	357.2	361.6	357.7	358.2
47.5°	344.2	340.7	344.7	341.4	341.2
50°	324.6	323.3	327.2	324.6	324.4
52.5°	306.0	303.5	307.5	306.3	307.0
55°	286.1	283.8	287.2	286.9	288.4
57.5°	265.5	263.2	267.5	267.0	268.3
60°	243.6	241.8	247.4	246.1	247.2
62.5°	222.2	218.9	226.0	225.0	224.5
65°	198.2	196.2	203.8	202.6	198.7
67.5°	173.5	172.8	180.7	178.1	171.7
70°	148.8	149.3	157.0	152.1	146.8
72.5°	122.8	126.6	131.2	127.7	123.8
75°	98.4	104.2	105.0	104.7	100.9
77.5°	74.4	81.8	80.0	81.8	78.7
80°	52.0	60.1	58.9	60.4	57.8
82.5°	32.1	39.5	39.7	40.8	38.5
85°	15.5	22.9	23.4	23.7	21.9
87.5°	3.3	10.7	11.0	10.2	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)