

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: P1213044

Luminaire Tested: 4SNLED-LD5-30SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213044
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-LD5-30SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

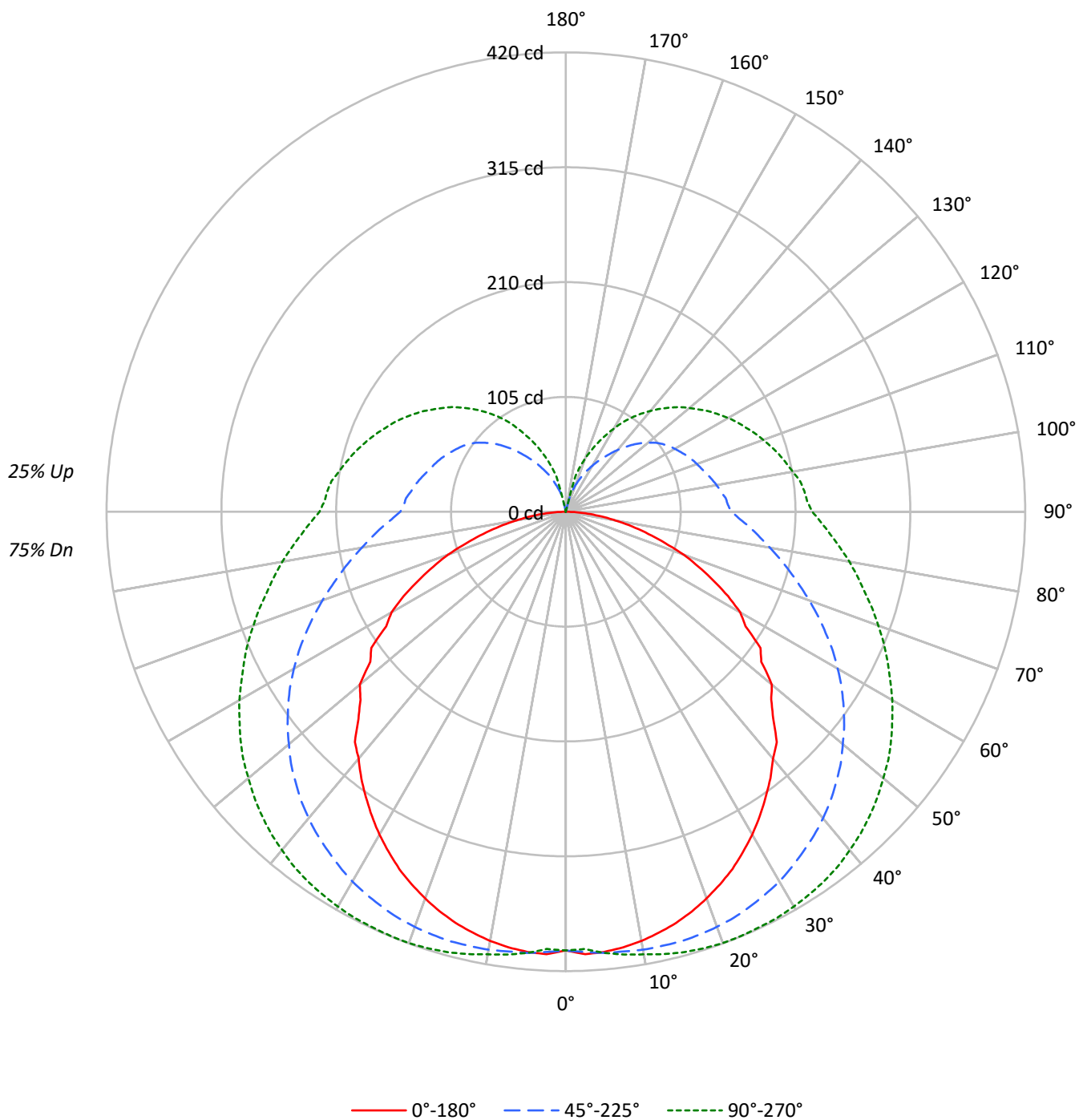
Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 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: P1213044

CATALOG NUMBER: 4SNLED-LD5-30SL-SLW-UNV-L930-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°	3241	3241	3241
5°	3267	3204	3180
10°	3251	3175	3162
15°	3229	3158	3169
20°	3199	3144	3175
25°	3167	3132	3180
30°	3125	3123	3197
35°	3076	3111	3218
40°	3029	3110	3240
45°	2971	3103	3266
50°	2980	3096	3291
55°	2928	3095	3330
60°	2821	3098	3376
65°	2665	3101	3439
70°	2491	3124	3536
75°	2187	3196	3678
80°	1846	3351	3916
85°	1373	3664	4262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 4850 cd/sqm

TEST NUMBER: P1213044

CATALOG NUMBER: 4SNLED-LD5-30SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.7
10°-20°	114.3	4.9
20°-30°	181.6	7.9
30°-40°	233.1	10.1
40°-50°	263.2	11.4
50°-60°	268.6	11.6
60°-70°	248.8	10.8
70°-80°	210.7	9.1
80°-90°	168.2	7.3
90°-100°	142.8	6.2
100°-110°	127.2	5.5
110°-120°	108.4	4.7
120°-130°	86.1	3.7
130°-140°	61.0	2.6
140°-150°	36.5	1.6
150°-160°	17.0	0.7
160°-170°	4.0	0.2
170°-180°	0.0	0.0
0°-30°	334.5	14.5
0°-40°	567.6	24.6
0°-60°	1099.4	47.6
0°-90°	1727.1	74.8
90°-120°	378.4	16.4
90°-150°	561.9	24.3
90°-180°	583.0	25.2
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	401	401	401	401	401	
5°	404	401	405	405	405	38
15°	389	392	407	414	417	110
25°	360	372	398	412	419	166
35°	319	342	379	402	412	199
45°	268	304	350	380	393	208
55°	217	254	310	348	363	191
65°	149	198	262	307	325	148
75°	78	138	212	264	283	83
85°	20	89	169	224	243	22
90°	1	73	151	206	225	2
95°	0	68	147	200	219	0
105°	0	63	134	184	202	0
115°	0	59	122	166	182	0
125°	0	50	108	146	160	0
135°	0	38	87	123	135	0
145°	0	24	61	92	105	0
155°	0	15	38	56	70	0
165°	0	8	17	23	33	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213044

CATALOG NUMBER: 4SNLED-LD5-30SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	401.1	401.1	401.1	401.1	401.1
2.5°	404.9	400.6	402.8	402.2	400.1
5°	403.9	400.6	404.9	404.9	404.9
7.5°	401.7	399.5	405.5	407.7	408.2
10°	398.4	398.4	406.6	409.8	410.9
12.5°	394.1	395.7	406.6	411.5	414.2
15°	389.2	392.5	406.6	414.2	416.9
17.5°	383.2	388.7	405.5	414.7	418.5
20°	376.2	384.3	403.9	414.7	419.6
22.5°	368.6	378.9	401.7	413.6	419.6
25°	360.4	372.4	398.4	412.5	419.1
27.5°	350.7	365.9	394.6	410.9	418.5
30°	340.9	358.3	390.3	408.7	416.9
32.5°	330.0	350.1	384.9	405.5	414.7
35°	318.6	342.0	378.9	402.2	412.0
37.5°	307.2	332.2	372.9	397.9	408.7
40°	294.7	322.4	365.9	392.5	403.9
42.5°	285.5	312.1	358.3	387.0	399.0
45°	268.1	304.5	349.6	380.0	393.0
47.5°	254.6	289.9	340.9	372.9	386.5
50°	245.9	277.9	330.6	364.8	378.9
52.5°	225.3	269.8	320.8	356.6	371.8
55°	217.1	253.5	309.9	347.9	363.1
57.5°	194.9	242.1	299.1	338.2	353.9
60°	184.0	226.4	287.1	328.4	344.7
62.5°	167.2	212.8	275.2	317.5	334.4
65°	148.7	198.1	262.2	307.2	324.6
67.5°	131.4	183.5	249.7	296.4	314.8
70°	114.5	168.3	236.7	285.5	304.0
72.5°	95.0	153.1	224.2	275.2	293.7
75°	78.2	138.4	212.2	264.3	282.8
77.5°	61.9	124.3	200.8	254.6	273.0
80°	46.7	110.7	189.4	244.3	263.3
82.5°	32.6	99.3	179.1	234.5	253.0
85°	20.1	89.0	169.4	224.2	243.2
87.5°	9.2	79.8	159.6	214.4	234.0
90°	1.1	72.7	151.4	206.3	225.3
92.5°	0.5	70.6	148.2	202.5	220.9
95°	0.0	68.4	146.6	200.3	218.8
97.5°	0.0	66.2	142.8	197.0	216.0
100°	0.0	65.1	140.0	192.2	210.6
102.5°	0.0	63.5	136.8	187.8	206.3
105°	0.0	63.0	133.5	184.0	201.9
107.5°	0.0	61.9	130.3	179.1	197.0
110°	0.0	60.8	127.6	174.8	192.2

TEST NUMBER: P1213044

CATALOG NUMBER: 4SNLED-LD5-30SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	59.7	124.8	170.4	187.3
115°	0.0	58.6	121.6	165.6	181.8
117.5°	0.0	57.0	118.3	160.7	177.0
120°	0.0	54.8	115.1	156.3	171.5
122.5°	0.0	52.7	111.8	150.9	165.6
125°	0.0	50.5	108.0	146.0	160.1
127.5°	0.0	47.2	103.7	140.6	153.6
130°	0.0	44.0	98.2	135.2	147.6
132.5°	0.5	40.7	92.8	129.2	141.7
135°	0.0	37.5	86.8	123.2	134.6
137.5°	0.0	34.7	80.3	116.7	127.6
140°	0.0	31.5	73.8	109.1	120.5
142.5°	0.0	27.7	67.3	101.0	112.9
145°	0.0	24.4	60.8	92.3	105.3
147.5°	0.5	21.7	54.8	83.1	97.2
150°	0.5	19.5	48.9	73.8	87.9
152.5°	0.5	17.4	42.9	65.1	78.7
155°	0.5	15.2	37.5	56.5	70.0
157.5°	0.5	13.0	31.5	47.8	60.8
160°	0.5	11.4	26.1	40.2	52.1
162.5°	0.5	9.8	21.2	31.5	42.9
165°	0.5	8.1	16.8	23.3	33.1
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)