

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: P1214089

Luminaire Tested: 4SNLED-LD5-27SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214089
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-LD5-27SL-SLW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

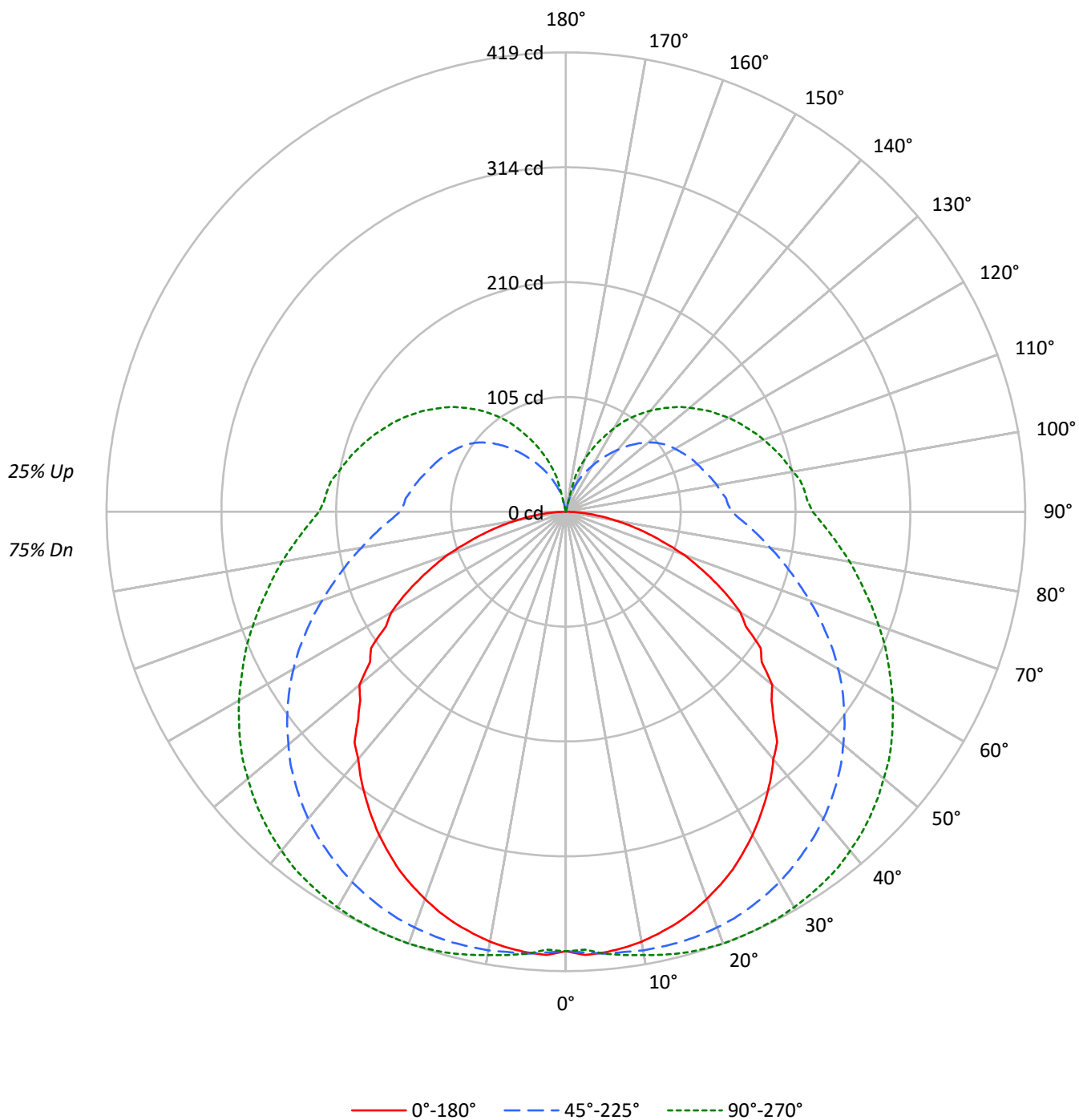
Lumens per Lamp: N/A
Luminaire Lumens: 2308.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 21
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: P1214089

CATALOG NUMBER: 4SNLED-LD5-27SL-SLW-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	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°	3239	3239	3239
5°	3264	3202	3178
10°	3249	3172	3160
15°	3227	3155	3166
20°	3195	3141	3172
25°	3165	3130	3177
30°	3122	3120	3194
35°	3074	3109	3215
40°	3027	3106	3237
45°	2969	3100	3263
50°	2978	3093	3289
55°	2925	3093	3328
60°	2820	3095	3373
65°	2663	3099	3435
70°	2489	3122	3532
75°	2184	3194	3675
80°	1842	3349	3912
85°	1373	3660	4259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 4846 cd/sqm

TEST NUMBER: P1214089

CATALOG NUMBER: 4SNLED-LD5-27SL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.7
10°-20°	114.2	4.9
20°-30°	181.5	7.9
30°-40°	232.9	10.1
40°-50°	263.0	11.4
50°-60°	268.4	11.6
60°-70°	248.6	10.8
70°-80°	210.5	9.1
80°-90°	168.0	7.3
90°-100°	142.7	6.2
100°-110°	127.1	5.5
110°-120°	108.3	4.7
120°-130°	86.0	3.7
130°-140°	61.0	2.6
140°-150°	36.4	1.6
150°-160°	17.0	0.7
160°-170°	4.0	0.2
170°-180°	0.0	0.0
0°-30°	334.2	14.5
0°-40°	567.1	24.6
0°-60°	1098.4	47.6
0°-90°	1725.5	74.8
90°-120°	378.1	16.4
90°-150°	561.5	24.3
90°-180°	582.0	25.2
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	401	401	401	401	401	
5°	404	400	405	405	405	38
15°	389	392	406	414	416	110
25°	360	372	398	412	419	166
35°	318	342	379	402	412	199
45°	268	304	349	380	393	208
55°	217	253	310	348	363	190
65°	149	198	262	307	324	147
75°	78	138	212	264	283	83
85°	20	89	169	224	243	22
90°	1	73	151	206	225	2
95°	0	68	146	200	219	0
105°	0	63	133	184	202	0
115°	0	59	122	165	182	0
125°	0	50	108	146	160	0
135°	0	37	87	123	134	0
145°	0	24	61	92	105	0
155°	0	15	37	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: P1214089

CATALOG NUMBER: 4SNLED-LD5-27SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.8	400.8	400.8	400.8	400.8
2.5°	404.6	400.2	402.4	401.9	399.7
5°	403.5	400.2	404.6	404.6	404.6
7.5°	401.3	399.2	405.1	407.3	407.8
10°	398.1	398.1	406.2	409.5	410.6
12.5°	393.7	395.4	406.2	411.1	413.8
15°	388.9	392.1	406.2	413.8	416.5
17.5°	382.9	388.3	405.1	414.3	418.1
20°	375.8	384.0	403.5	414.3	419.2
22.5°	368.3	378.6	401.3	413.3	419.2
25°	360.1	372.0	398.1	412.2	418.7
27.5°	350.4	365.5	394.3	410.6	418.1
30°	340.6	357.9	389.9	408.4	416.5
32.5°	329.7	349.8	384.5	405.1	414.3
35°	318.4	341.7	378.6	401.9	411.6
37.5°	307.0	331.9	372.6	397.5	408.4
40°	294.5	322.2	365.5	392.1	403.5
42.5°	285.3	311.8	357.9	386.7	398.6
45°	267.9	304.3	349.3	379.6	392.7
47.5°	254.4	289.6	340.6	372.6	386.1
50°	245.7	277.7	330.3	364.5	378.6
52.5°	225.1	269.5	320.5	356.3	371.5
55°	216.9	253.3	309.7	347.6	362.8
57.5°	194.7	241.9	298.8	337.9	353.6
60°	183.9	226.2	286.9	328.1	344.4
62.5°	167.0	212.6	275.0	317.3	334.1
65°	148.6	198.0	262.0	307.0	324.3
67.5°	131.2	183.3	249.5	296.1	314.6
70°	114.4	168.1	236.5	285.3	303.7
72.5°	94.9	152.9	224.0	275.0	293.4
75°	78.1	138.3	212.1	264.1	282.6
77.5°	61.8	124.2	200.7	254.4	272.8
80°	46.6	110.6	189.3	244.1	263.0
82.5°	32.5	99.2	179.0	234.3	252.7
85°	20.1	88.9	169.2	224.0	243.0
87.5°	9.2	79.7	159.4	214.2	233.7
90°	1.1	72.7	151.3	206.1	225.1
92.5°	0.5	70.5	148.1	202.3	220.7
95°	0.0	68.3	146.4	200.1	218.6
97.5°	0.0	66.2	142.6	196.9	215.9
100°	0.0	65.1	139.9	192.0	210.4
102.5°	0.0	63.5	136.7	187.7	206.1
105°	0.0	62.9	133.4	183.9	201.8
107.5°	0.0	61.8	130.2	179.0	196.9
110°	0.0	60.7	127.5	174.6	192.0

TEST NUMBER: P1214089

CATALOG NUMBER: 4SNLED-LD5-27SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	59.7	124.7	170.3	187.1
115°	0.0	58.6	121.5	165.4	181.7
117.5°	0.0	56.9	118.2	160.5	176.8
120°	0.0	54.8	115.0	156.2	171.4
122.5°	0.0	52.6	111.7	150.8	165.4
125°	0.0	50.4	107.9	145.9	160.0
127.5°	0.0	47.2	103.6	140.5	153.5
130°	0.0	43.9	98.2	135.0	147.5
132.5°	0.5	40.7	92.7	129.1	141.6
135°	0.0	37.4	86.8	123.1	134.5
137.5°	0.0	34.7	80.3	116.6	127.5
140°	0.0	31.5	73.8	109.0	120.4
142.5°	0.0	27.7	67.3	100.9	112.8
145°	0.0	24.4	60.7	92.2	105.2
147.5°	0.5	21.7	54.8	83.0	97.1
150°	0.5	19.5	48.8	73.8	87.9
152.5°	0.5	17.4	42.8	65.1	78.6
155°	0.5	15.2	37.4	56.4	70.0
157.5°	0.5	13.0	31.5	47.7	60.7
160°	0.5	11.4	26.0	40.1	52.1
162.5°	0.5	9.8	21.2	31.5	42.8
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)