

## PHOTOMETRIC MEASUREMENT REPORT N° 13

Photometric measurement date: **3/10/2017/**

Company: **SLAMP S.p.A.**

Operator: **Sedis Light Technology**

Type of photometric measurement: **C - Gamma**

**The measurements have been performed in the following laboratory ambient conditions:**

Temperature: **23°C+/-2°C**

Relative humidity: **50% U.R.+/-15% U.R.**

Air turbulence: **< 0.2 m/s**

Stabilization time before measurement: **1 hour**

Regulations applied: **UNI EN 13032-4**

Electro Magnetic Compatibility (EMC): **Shielded instrument**

Luminaire name: **Veli suspension L couture**

Eulumdat reference: **Veli suspension L couture**

Size of luminaire (mm): **600 x 0 x 500**

Size of luminous area (mm): **600 x 0**

Number n of standard sets of lamps (optional): **1**

Number of lamps: **1**

Type of light source: **LED Filament E27 light bulb Centuri Led Goccia incanto 60**

Total luminous flux of the light source (lm): **3200**

Output luminous flux of the lamp (lm): **2764.31**

Colour temperature (K): **2700**

Colour rendering index: **0**

Supply current (mA): **80**

Source power (W): **7.2**

Power consumption included source power (W): **32**

LED module efficacy (lm/W): **444.44**

System light efficacy (lm/W): **100.00**

Luminaire light efficacy (lm/W): **86.38**

Light Output Ratio of luminaire (LOR): **100**

Downward Flux Fraction (DFF): **53**

Upward Flux Fraction (UFF): **47.00**

Tilt during measurement (for street luminaires): **0**

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## Luminous intensities

Gamma	C0°	C5°	C10°	C15°	C20°	C25°	C30°	C35°	C40°	C45°	C50°	C55°
0°	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55
5°	99.26	99.37	99.58	99.90	99.90	100.22	100.22	100.58	100.58	100.58	100.69	100.90
10°	96.73	97.29	97.34	97.61	97.84	97.95	98.22	98.49	98.72	99.06	98.83	99.33
15°	92.30	92.66	92.78	93.36	93.85	94.71	95.41	95.89	95.89	95.73	95.73	96.22
20°	87.45	87.24	87.24	87.41	87.90	88.82	89.47	90.22	90.56	90.50	90.72	91.04
25°	85.00	84.20	83.93	84.20	84.85	85.44	86.07	86.93	87.62	87.62	87.29	87.03
30°	85.56	84.53	84.39	84.39	83.71	84.39	85.05	85.51	86.48	86.84	86.84	86.53
35°	84.58	83.07	82.75	81.55	81.34	82.50	83.75	85.05	85.84	86.41	86.21	85.42
40°	83.64	82.38	81.23	79.83	80.13	81.23	83.34	84.29	84.99	86.70	88.00	86.24
45°	83.84	82.48	80.44	78.76	78.76	80.01	81.80	83.48	83.36	85.15	86.51	85.78
50°	84.39	82.37	79.98	78.37	77.86	79.62	81.74	82.95	82.37	82.84	82.99	83.77
55°	85.23	85.75	82.95	78.74	78.43	80.41	81.99	81.63	80.82	81.22	81.02	80.71
60°	83.79	84.37	82.28	78.53	79.01	81.10	80.94	78.85	78.53	79.18	79.07	80.03
65°	79.12	81.76	81.37	79.51	79.67	78.95	77.19	76.86	77.07	77.40	77.19	77.19
70°	79.04	78.37	77.70	77.98	76.41	73.89	73.78	74.84	75.18	75.79	75.40	74.40
75°	80.04	78.04	75.89	75.37	73.87	73.05	74.27	74.66	74.59	74.21	73.70	72.93
80°	79.60	77.89	75.31	74.13	73.59	71.92	74.66	76.86	76.16	73.59	72.52	72.89
85°	75.65	75.27	71.26	69.83	69.99	71.75	71.75	73.18	73.18	70.55	70.71	72.08
90°	75.09	73.08	70.71	70.39	68.71	68.92	68.39	68.92	69.35	68.18	69.35	71.24
95°	78.19	78.19	76.10	72.26	70.17	71.32	75.38	80.05	77.64	77.15	80.27	79.22
100°	79.34	78.00	75.10	72.36	71.01	71.34	74.57	77.51	74.57	72.73	73.59	74.45
105°	81.53	82.08	79.81	76.97	75.86	74.08	75.36	74.08	71.20	68.64	66.82	67.04
110°	78.86	80.83	81.50	81.49	80.66	76.91	75.23	70.70	69.13	67.62	64.99	63.59
115°	75.04	78.96	81.05	81.38	81.00	76.31	72.40	70.13	70.30	69.42	66.55	65.23
120°	73.45	76.87	80.46	78.75	75.32	72.80	69.85	69.85	70.70	70.60	68.13	67.28
125°	78.02	80.72	83.96	84.27	79.45	74.26	71.37	71.07	74.01	73.15	71.02	71.98
130°	82.81	86.28	87.63	88.72	88.36	86.75	81.01	80.53	77.94	76.13	75.36	80.80
135°	89.01	92.48	95.36	95.71	96.39	96.35	95.36	89.18	86.35	86.20	85.57	92.43
140°	95.12	99.99	102.55	105.11	106.06	104.66	101.65	97.89	95.38	99.89	101.05	101.80
145°	103.37	108.22	111.21	111.52	109.43	106.51	103.48	101.30	103.49	105.27	106.78	106.15
150°	113.50	113.20	112.12	111.30	111.61	110.13	108.90	107.52	107.26	106.96	106.75	109.21
155°	108.62	109.21	108.36	108.03	109.47	110.50	109.32	108.53	107.93	107.93	108.90	109.38
160°	98.00	99.36	100.61	101.31	102.45	102.78	103.21	104.57	105.61	106.64	108.00	108.70
165°	91.48	92.46	93.48	94.55	95.58	96.76	97.94	99.06	100.03	101.43	102.08	102.40
170°	88.56	88.90	89.45	90.06	91.05	91.78	92.32	92.94	93.27	93.38	93.65	93.65
175°	90.49	90.49	90.81	90.81	91.01	91.33	91.17	91.12	91.44	91.70	92.02	91.81
180°	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55
5°	101.11	100.90	101.11	101.06	101.22	101.22	101.43	101.22	101.43	101.43	101.59	101.43
10°	99.38	99.44	99.72	99.72	99.83	99.83	99.99	99.72	99.65	99.44	99.38	99.38
15°	96.91	97.29	97.45	97.61	97.45	97.12	97.07	97.12	97.12	97.12	96.87	96.87
20°	91.26	91.26	90.72	90.72	90.67	90.56	90.67	91.26	91.70	92.40	92.62	92.78
25°	87.14	86.93	86.93	86.71	86.33	86.43	86.93	87.03	87.25	87.62	88.80	89.43
30°	86.33	86.33	86.33	86.13	85.51	85.15	84.84	84.48	85.51	86.33	87.97	89.30
35°	84.58	84.58	84.58	83.58	82.18	81.81	81.60	81.55	82.50	83.37	84.95	87.40
40°	83.64	83.44	83.49	82.04	80.73	79.62	79.13	78.82	79.47	80.58	81.73	84.14
45°	83.79	82.69	82.79	81.80	80.44	79.08	77.97	76.61	76.24	77.30	78.81	81.16
50°	82.95	81.80	81.49	81.17	79.36	78.34	77.19	75.95	75.58	76.20	79.05	80.77
55°	79.55	79.39	79.39	78.74	78.08	78.79	79.09	77.66	76.66	78.74	80.71	82.64
60°	78.53	75.58	75.10	75.96	78.16	79.23	79.66	78.10	76.98	78.96	81.37	82.66
65°	74.93	72.61	72.45	73.66	76.69	76.30	75.75	76.80	76.63	78.62	80.38	79.51
70°	73.23	69.98	70.03	71.49	72.16	72.44	73.67	75.00	75.91	77.92	77.31	77.54

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75°	72.05	68.76	68.10	69.10	69.83	71.33	72.60	71.60	74.38	76.37	77.05	80.43
80°	71.34	69.46	67.30	68.48	69.13	69.46	71.39	69.99	71.17	74.45	75.58	79.39
85°	69.66	66.15	65.43	66.15	66.81	67.58	68.08	68.18	68.41	70.16	73.29	77.91
90°	69.08	64.86	63.65	63.13	63.29	64.18	64.98	65.82	66.82	68.55	70.55	74.29
95°	75.77	72.58	71.54	72.08	70.49	67.69	66.48	65.99	65.10	64.55	65.10	65.65
100°	73.21	72.36	72.57	72.52	71.18	67.63	66.56	66.07	65.37	64.19	64.89	65.86
105°	68.99	69.99	70.26	70.15	68.92	67.66	65.81	64.93	64.65	64.27	64.54	65.16
110°	64.65	66.33	68.29	68.12	68.12	67.06	65.83	64.59	63.98	64.43	64.94	65.05
115°	65.94	66.77	68.76	70.85	69.91	67.65	66.99	66.27	66.66	67.82	67.54	66.44
120°	67.65	68.51	70.38	70.60	69.20	67.16	65.61	65.24	66.85	67.97	67.00	65.99
125°	74.01	75.23	73.51	72.50	69.65	66.70	65.43	65.43	68.43	71.83	68.48	66.71
130°	87.49	91.21	84.83	76.80	71.78	68.77	67.95	69.39	73.64	78.10	77.99	76.80
135°	99.66	101.65	95.58	85.25	77.35	73.47	73.83	76.87	80.54	83.84	85.35	85.52
140°	104.86	103.87	97.94	90.06	82.38	78.57	80.37	84.18	87.40	90.71	93.97	95.03
145°	105.69	106.31	102.60	97.75	91.48	88.36	89.92	93.89	97.39	100.46	103.33	103.58
150°	111.00	112.94	111.00	105.93	101.68	100.70	103.11	104.60	106.90	109.82	110.02	109.97
155°	110.86	112.37	110.60	107.83	108.57	111.45	109.32	110.44	111.03	113.17	113.80	111.89
160°	109.74	109.41	108.70	109.62	112.67	112.34	113.38	112.72	110.77	110.12	109.41	108.05
165°	102.45	102.61	103.15	103.63	103.96	104.65	104.65	104.65	104.33	103.31	102.12	101.21
170°	93.59	93.93	93.99	93.99	94.16	93.99	93.99	93.72	93.38	93.05	92.66	92.16
175°	92.02	92.02	91.81	91.81	91.81	91.65	91.49	91.33	91.12	90.96	90.64	90.33
180°	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55
5°	101.22	101.43	101.22	101.11	100.85	100.58	100.43	100.22	99.84	99.52	99.16	99.05
10°	99.61	99.72	99.72	99.38	99.33	98.72	98.11	97.66	97.16	97.00	96.44	96.06
15°	97.07	97.45	97.77	97.40	96.91	96.59	96.21	95.31	94.86	94.18	93.64	93.48
20°	92.62	92.62	91.91	91.69	91.53	91.75	92.07	92.07	91.15	90.88	90.33	90.12
25°	90.29	90.51	90.22	90.18	89.81	90.30	90.44	90.38	89.81	89.16	89.22	88.53
30°	90.48	91.91	92.68	92.06	92.21	91.40	91.70	91.04	89.71	88.58	89.71	89.40
35°	89.13	91.37	93.50	90.95	90.95	91.88	92.14	92.46	91.10	89.26	87.49	86.23
40°	85.75	88.00	90.87	88.90	88.75	89.91	91.81	92.77	91.97	89.51	87.60	86.19
45°	84.67	86.50	88.66	87.66	87.13	89.29	94.53	95.72	94.52	91.00	87.92	87.92
50°	83.61	84.28	87.55	88.44	85.69	84.44	89.52	92.63	91.54	90.35	89.67	89.51
55°	82.64	81.93	84.06	87.47	86.05	84.27	85.69	86.55	85.23	87.31	90.05	89.39
60°	81.27	81.91	82.12	84.16	86.35	84.10	86.03	85.87	83.41	87.91	86.84	82.77
65°	81.60	84.58	85.95	86.50	87.39	85.84	86.84	90.20	86.73	87.95	86.46	84.03
70°	80.22	84.42	86.37	86.82	89.34	90.85	89.16	87.15	86.54	85.64	83.57	84.24
75°	85.20	91.64	88.69	84.20	86.97	93.69	93.42	91.15	85.36	86.15	86.86	84.87
80°	88.31	94.92	90.51	85.74	86.54	95.41	94.39	86.92	83.31	85.04	86.54	84.13
85°	81.92	88.51	89.72	82.91	83.80	91.59	87.75	78.19	76.60	77.37	77.86	77.32
90°	76.77	81.82	81.82	78.29	79.46	82.30	77.88	73.04	71.72	73.04	76.08	76.72
95°	68.24	70.55	69.28	68.57	69.61	69.28	68.46	67.85	70.55	74.17	75.87	74.01
100°	67.95	69.30	67.90	66.77	66.39	66.07	66.23	67.26	69.67	71.71	74.08	74.45
105°	66.16	66.20	65.43	63.32	61.98	61.43	62.71	65.16	68.65	69.82	71.43	72.65
110°	64.70	64.15	63.76	62.46	60.51	59.44	60.90	64.09	69.18	71.09	71.65	71.59
115°	65.06	64.34	64.56	63.96	62.02	61.20	62.24	65.23	69.58	73.11	72.94	72.28
120°	64.81	64.59	65.24	65.40	64.22	63.58	64.59	67.65	71.24	73.12	73.17	70.38
125°	65.89	66.20	67.71	69.60	68.28	67.82	70.11	74.42	76.86	75.43	73.66	71.52
130°	72.92	72.61	73.29	73.60	73.29	72.77	75.71	84.85	87.48	83.65	78.27	74.11
135°	84.88	84.15	81.22	80.85	83.84	83.84	83.41	90.59	93.38	88.87	83.89	79.49
140°	94.23	92.97	89.10	89.10	89.65	92.82	93.62	95.07	96.18	94.43	91.52	86.90
145°	101.98	99.88	95.66	96.50	93.63	96.50	96.28	97.17	98.95	96.92	96.66	92.85
150°	108.80	105.72	102.04	101.38	100.70	102.14	103.11	103.11	103.99	105.27	102.96	99.58
155°	110.86	108.20	106.49	104.68	103.39	103.72	103.39	103.23	104.04	105.00	104.42	103.13
160°	107.45	106.64	105.93	104.09	101.26	100.39	101.53	100.61	99.90	98.86	96.26	94.25

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165°	100.14	99.33	98.15	96.06	94.88	94.01	92.84	91.44	90.42	89.08	88.00	86.87
170°	91.67	91.28	90.56	90.06	89.17	88.51	87.40	86.68	85.84	85.35	84.58	84.19
175°	89.96	89.64	89.32	88.95	88.47	88.11	87.78	87.42	87.10	86.73	86.41	86.30
180°	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55
5°	98.84	99.05	99.16	99.52	99.84	100.22	100.43	100.58	100.85	101.11	101.22	101.43
10°	95.78	96.06	96.44	97.00	97.16	97.66	98.11	98.72	99.33	99.38	99.72	99.72
15°	93.15	93.48	93.64	94.18	94.86	95.31	96.21	96.59	96.91	97.40	97.77	97.45
20°	90.01	90.12	90.33	90.88	91.15	92.07	92.07	91.75	91.53	91.69	91.91	92.62
25°	87.25	88.53	89.22	89.16	89.81	90.38	90.44	90.30	89.81	90.18	90.22	90.51
30°	86.42	89.40	89.71	88.58	89.71	91.04	91.70	91.40	92.21	92.06	92.68	91.91
35°	84.10	86.23	87.49	89.26	91.10	92.46	92.14	91.88	90.95	90.95	93.50	91.37
40°	84.24	86.19	87.60	89.51	91.97	92.77	91.81	89.91	88.75	88.90	90.87	88.00
45°	85.61	87.92	87.92	91.00	94.52	95.72	94.53	89.29	87.13	87.66	88.66	86.50
50°	88.68	89.51	89.67	90.35	91.54	92.63	89.52	84.44	85.69	88.44	87.55	84.28
55°	88.38	89.39	90.05	87.31	85.23	86.55	85.69	84.27	86.05	87.47	84.06	81.93
60°	83.51	82.77	86.84	87.91	83.41	85.87	86.03	84.10	86.35	84.16	82.12	81.91
65°	83.87	84.03	86.46	87.95	86.73	90.20	86.84	85.84	87.39	86.50	85.95	84.58
70°	83.90	84.24	83.57	85.64	86.54	87.15	89.16	90.85	89.34	86.82	86.37	84.42
75°	84.80	84.87	86.86	86.15	85.36	91.15	93.42	93.69	86.97	84.20	88.69	91.64
80°	82.94	84.13	86.54	85.04	83.31	86.92	94.39	95.41	86.54	85.74	90.51	94.92
85°	77.09	77.32	77.86	77.37	76.60	78.19	87.75	91.59	83.80	82.91	89.72	88.51
90°	76.04	76.72	76.08	73.04	71.72	73.04	77.88	82.30	79.46	78.29	81.82	81.82
95°	75.60	74.01	75.87	74.17	70.55	67.85	68.46	69.28	69.61	68.57	69.28	70.55
100°	74.78	74.45	74.08	71.71	69.67	67.26	66.23	66.07	66.39	66.77	67.90	69.30
105°	74.92	72.65	71.43	69.82	68.65	65.16	62.71	61.43	61.98	63.32	65.43	66.20
110°	74.34	71.59	71.65	71.09	69.18	64.09	60.90	59.44	60.51	62.46	63.76	64.15
115°	71.84	72.28	72.94	73.11	69.58	65.23	62.24	61.20	62.02	63.96	64.56	64.34
120°	68.67	70.38	73.17	73.12	71.24	67.65	64.59	63.58	64.22	65.40	65.24	64.59
125°	69.60	71.52	73.66	75.43	76.86	74.42	70.11	67.82	68.28	69.60	67.71	66.20
130°	72.82	74.11	78.27	83.65	87.48	84.85	75.71	72.77	73.29	73.60	73.29	72.61
135°	77.82	79.49	83.89	88.87	93.38	90.59	83.41	83.84	83.84	80.85	81.22	84.15
140°	83.34	86.90	91.52	94.43	96.18	95.07	93.62	92.82	89.65	89.10	89.10	92.97
145°	91.33	92.85	96.66	96.92	98.95	97.17	96.28	96.50	93.63	96.50	95.66	99.88
150°	98.25	99.58	102.96	105.27	103.99	103.11	103.11	102.14	100.70	101.38	102.04	105.72
155°	100.20	103.13	104.42	105.00	104.04	103.23	103.39	103.72	103.39	104.68	106.49	108.20
160°	91.76	94.25	96.26	98.86	99.90	100.61	101.53	100.39	101.26	104.09	105.93	106.64
165°	86.01	86.87	88.00	89.08	90.42	91.44	92.84	94.01	94.88	96.06	98.15	99.33
170°	83.91	84.19	84.58	85.35	85.84	86.68	87.40	88.51	89.17	90.06	90.56	91.28
175°	85.78	86.30	86.41	86.73	87.10	87.42	87.78	88.11	88.47	88.95	89.32	89.64
180°	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55
5°	101.22	101.43	101.59	101.43	101.43	101.22	101.43	101.22	101.22	101.06	101.11	100.90
10°	99.61	99.38	99.38	99.44	99.65	99.72	99.99	99.83	99.83	99.72	99.72	99.44
15°	97.07	96.87	96.87	97.12	97.12	97.12	97.07	97.12	97.45	97.61	97.45	97.29
20°	92.62	92.78	92.62	92.40	91.70	91.26	90.67	90.56	90.67	90.72	90.72	91.26
25°	90.29	89.43	88.80	87.62	87.25	87.03	86.93	86.43	86.33	86.71	86.93	86.93
30°	90.48	89.30	87.97	86.33	85.51	84.48	84.84	85.15	85.51	86.13	86.33	86.33
35°	89.13	87.40	84.95	83.37	82.50	81.55	81.60	81.81	82.18	83.58	84.58	84.58
40°	85.75	84.14	81.73	80.58	79.47	78.82	79.13	79.62	80.73	82.04	83.49	83.44
45°	84.67	81.16	78.81	77.30	76.24	76.61	77.97	79.08	80.44	81.80	82.79	82.69
50°	83.61	80.77	79.05	76.20	75.58	75.95	77.19	78.34	79.36	81.17	81.49	81.80
55°	82.64	82.64	80.71	78.74	76.66	77.66	79.09	78.79	78.08	78.74	79.39	79.39
60°	81.27	82.66	81.37	78.96	76.98	78.10	79.66	79.23	78.16	75.96	75.10	75.58

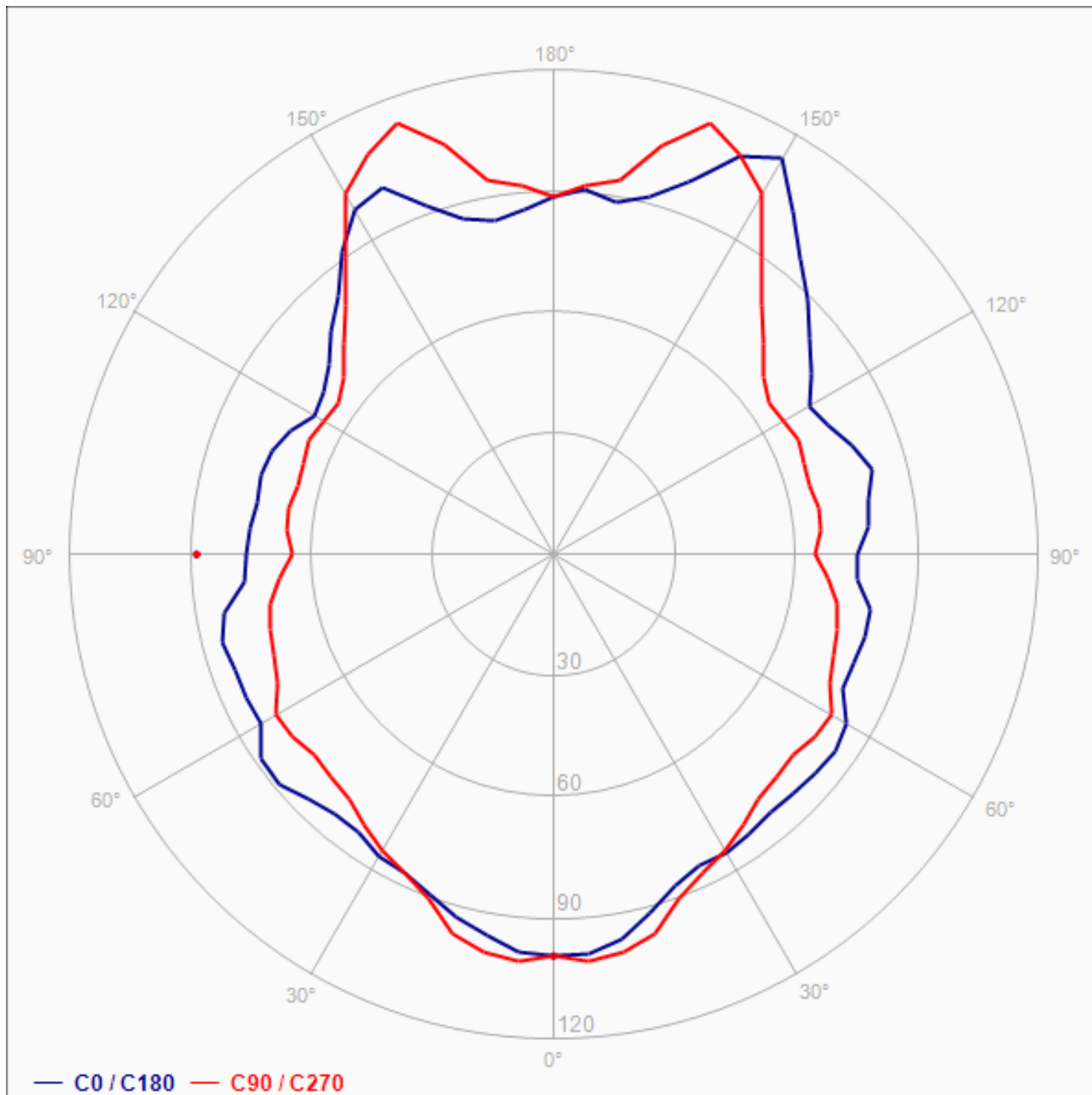
# PHOTOMETRIC MEASUREMENT REPORT N° 13

65°	81.60	79.51	80.38	78.62	76.63	76.80	75.75	76.30	76.69	73.66	72.45	72.61
70°	80.22	77.54	77.31	77.92	75.91	75.00	73.67	72.44	72.16	71.49	70.03	69.98
75°	85.20	80.43	77.05	76.37	74.38	71.60	72.60	71.33	69.83	69.10	68.10	68.76
80°	88.31	79.39	75.58	74.45	71.17	69.99	71.39	69.46	69.13	68.48	67.30	69.46
85°	81.92	77.91	73.29	70.16	68.41	68.18	68.08	67.58	66.81	66.15	65.43	66.15
90°	76.77	74.29	70.55	68.55	66.82	65.82	64.98	64.18	63.29	63.13	63.65	64.86
95°	68.24	65.65	65.10	64.55	65.10	65.99	66.48	67.69	70.49	72.08	71.54	72.58
100°	67.95	65.86	64.89	64.19	65.37	66.07	66.56	67.63	71.18	72.52	72.57	72.36
105°	66.16	65.16	64.54	64.27	64.65	64.93	65.81	67.66	68.92	70.15	70.26	69.99
110°	64.70	65.05	64.94	64.43	63.98	64.59	65.83	67.06	68.12	68.12	68.29	66.33
115°	65.06	66.44	67.54	67.82	66.66	66.27	66.99	67.65	69.91	70.85	68.76	66.77
120°	64.81	65.99	67.00	67.97	66.85	65.24	65.61	67.16	69.20	70.60	70.38	68.51
125°	65.89	66.71	68.48	71.83	68.43	65.43	65.43	66.70	69.65	72.50	73.51	75.23
130°	72.92	76.80	77.99	78.10	73.64	69.39	67.95	68.77	71.78	76.80	84.83	91.21
135°	84.88	85.52	85.35	83.84	80.54	76.87	73.83	73.47	77.35	85.25	95.58	101.65
140°	94.23	95.03	93.97	90.71	87.40	84.18	80.37	78.57	82.38	90.06	97.94	103.87
145°	101.98	103.58	103.33	100.46	97.39	93.89	89.92	88.36	91.48	97.75	102.60	106.31
150°	108.80	109.97	110.02	109.82	106.90	104.60	103.11	100.70	101.68	105.93	111.00	112.94
155°	110.86	111.89	113.80	113.17	111.03	110.44	109.32	111.45	108.57	107.83	110.60	112.37
160°	107.45	108.05	109.41	110.12	110.77	112.72	113.38	112.34	112.67	109.62	108.70	109.41
165°	100.14	101.21	102.12	103.31	104.33	104.65	104.65	104.65	103.96	103.63	103.15	102.61
170°	91.67	92.16	92.66	93.05	93.38	93.72	93.99	93.99	94.16	93.99	93.99	93.93
175°	89.96	90.33	90.64	90.96	91.12	91.33	91.49	91.65	91.81	91.81	91.81	92.02
180°	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°
0°	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55	99.55
5°	101.11	100.90	100.69	100.58	100.58	100.58	100.22	100.22	99.90	99.90	99.58	99.37
10°	99.38	99.33	98.83	99.06	98.72	98.49	98.22	97.95	97.84	97.61	97.34	97.29
15°	96.91	96.22	95.73	95.73	95.89	95.89	95.41	94.71	93.85	93.36	92.78	92.66
20°	91.26	91.04	90.72	90.50	90.56	90.22	89.47	88.82	87.90	87.41	87.24	87.24
25°	87.14	87.03	87.29	87.62	87.62	86.93	86.07	85.44	84.85	84.20	83.93	84.20
30°	86.33	86.53	86.84	86.84	86.48	85.51	85.05	84.39	83.71	84.39	84.39	84.53
35°	84.58	85.42	86.21	86.41	85.84	85.05	83.75	82.50	81.34	81.55	82.75	83.07
40°	83.64	86.24	88.00	86.70	84.99	84.29	83.34	81.23	80.13	79.83	81.23	82.38
45°	83.79	85.78	86.51	85.15	83.36	83.48	81.80	80.01	78.76	78.76	80.44	82.48
50°	82.95	83.77	82.99	82.84	82.37	82.95	81.74	79.62	77.86	78.37	79.98	82.37
55°	79.55	80.71	81.02	81.22	80.82	81.63	81.99	80.41	78.43	78.74	82.95	85.75
60°	78.53	80.03	79.07	79.18	78.53	78.85	80.94	81.10	79.01	78.53	82.28	84.37
65°	74.93	77.19	77.19	77.40	77.07	76.86	77.19	78.95	79.67	79.51	81.37	81.76
70°	73.23	74.40	75.40	75.79	75.18	74.84	73.78	73.89	76.41	77.98	77.70	78.37
75°	72.05	72.93	73.70	74.21	74.59	74.66	74.27	73.05	73.87	75.37	75.89	78.04
80°	71.34	72.89	72.52	73.59	76.16	76.86	74.66	71.92	73.59	74.13	75.31	77.89
85°	69.66	72.08	70.71	70.55	73.18	73.18	71.75	71.75	69.99	69.83	71.26	75.27
90°	69.08	71.24	69.35	68.18	69.35	68.92	68.39	68.92	68.71	70.39	70.71	73.08
95°	75.77	79.22	80.27	77.15	77.64	80.05	75.38	71.32	70.17	72.26	76.10	78.19
100°	73.21	74.45	73.59	72.73	74.57	77.51	74.57	71.34	71.01	72.36	75.10	78.00
105°	68.99	67.04	66.82	68.64	71.20	74.08	75.36	74.08	75.86	76.97	79.81	82.08
110°	64.65	63.59	64.99	67.62	69.13	70.70	75.23	76.91	80.66	81.49	81.50	80.83
115°	65.94	65.23	66.55	69.42	70.30	70.13	72.40	76.31	81.00	81.38	81.05	78.96
120°	67.65	67.28	68.13	70.60	70.70	69.85	69.85	72.80	75.32	78.75	80.46	76.87
125°	74.01	71.98	71.02	73.15	74.01	71.07	71.37	74.26	79.45	84.27	83.96	80.72
130°	87.49	80.80	75.36	76.13	77.94	80.53	81.01	86.75	88.36	88.72	87.63	86.28
135°	99.66	92.43	85.57	86.20	86.35	89.18	95.36	96.35	96.39	95.71	95.36	92.48
140°	104.86	101.80	101.05	99.89	95.38	97.89	101.65	104.66	106.06	105.11	102.55	99.99
145°	105.69	106.15	106.78	105.27	103.49	101.30	103.48	106.51	109.43	111.52	111.21	108.22
150°	111.00	109.21	106.75	106.96	107.26	107.52	108.90	110.13	111.61	111.30	112.12	113.20

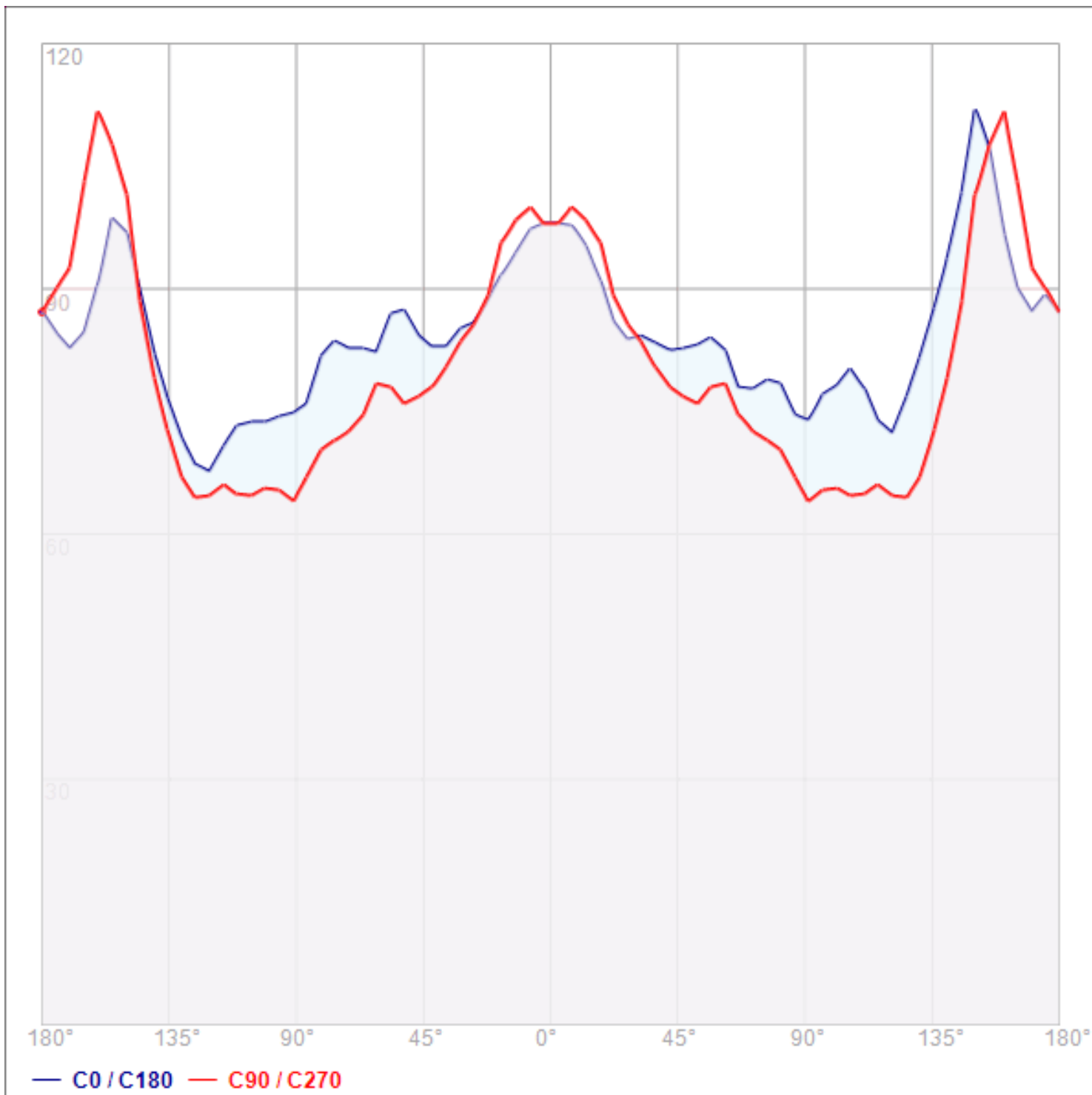
# PHOTOMETRIC MEASUREMENT REPORT N° 13

155°	110.86	109.38	108.90	107.93	107.93	108.53	109.32	110.50	109.47	108.03	108.36	109.21
160°	109.74	108.70	108.00	106.64	105.61	104.57	103.21	102.78	102.45	101.31	100.61	99.36
165°	102.45	102.40	102.08	101.43	100.03	99.06	97.94	96.76	95.58	94.55	93.48	92.46
170°	93.59	93.65	93.65	93.38	93.27	92.94	92.32	91.78	91.05	90.06	89.45	88.90
175°	92.02	91.81	92.02	91.70	91.44	91.12	91.17	91.33	91.01	90.81	90.81	90.49
180°	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41	88.41

Photometric Polar Diagram



## Photometric Cartesian Diagram





**Light Emmission Photo**





## Opening angle

