

PHOTOMETRIC MEASUREMENT REPORT N° 14

Photometric measurement date: **5/10/2017/**

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

Operator: **Guest**

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 opal**

Eulumdat reference: **Veli suspension L opal**

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): **3240**

Output luminous flux of the lamp (lm): **2969.58**

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): **450.00**

System light efficacy (lm/W): **101.25**

Luminaire light efficacy (lm/W): **92.80**

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

Downward Flux Fraction (DFF): **54**

Upward Flux Fraction (UFF): **46.00**

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°	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42
5°	79.16	79.16	79.16	79.16	79.16	79.01	79.01	78.82	79.01	78.72	78.67	78.72
10°	78.42	78.68	78.73	78.99	78.93	78.78	78.99	78.93	78.68	78.36	78.05	78.11
15°	76.97	77.01	77.01	77.16	77.62	78.22	78.62	78.91	78.62	78.57	78.57	78.76
20°	76.10	75.75	75.95	75.95	76.26	76.41	76.41	76.71	76.91	76.86	76.91	76.71
25°	76.53	76.43	76.73	76.98	76.98	76.98	76.43	76.02	75.78	75.89	75.68	75.92
30°	77.49	77.54	77.54	77.49	77.83	78.12	78.31	78.55	79.21	79.31	78.40	77.49
35°	76.29	76.18	76.53	76.87	77.70	78.51	80.32	81.33	81.87	81.87	80.70	79.49
40°	76.63	75.99	75.84	76.17	77.06	78.51	80.66	81.36	82.86	83.04	81.92	81.17
45°	79.06	77.61	76.24	75.61	76.53	78.23	80.72	81.06	82.58	83.40	83.25	82.91
50°	82.99	81.01	78.78	78.45	79.02	81.19	82.60	81.33	81.97	83.03	83.36	84.33
55°	87.47	84.44	81.80	81.85	83.07	85.35	84.40	81.08	81.98	83.97	83.78	83.31
60°	86.68	85.93	84.48	84.98	87.02	86.57	84.78	81.49	81.79	83.53	85.28	83.84
65°	87.20	88.84	87.51	87.56	86.84	84.74	86.38	85.36	85.20	85.20	85.41	83.05
70°	86.03	85.81	84.77	83.94	83.00	84.83	87.48	87.84	88.63	88.31	87.12	83.42
75°	86.28	81.99	82.25	81.89	83.71	88.87	92.60	92.17	90.15	90.72	91.08	86.58
80°	83.61	79.46	79.96	81.16	84.91	91.41	95.41	94.56	89.31	88.31	91.66	88.81
85°	78.61	75.09	75.80	78.82	84.64	87.97	90.22	90.32	85.41	84.90	90.11	89.29
90°	74.71	73.77	77.88	78.82	82.59	84.26	85.19	84.90	81.72	83.33	88.14	86.76
95°	71.00	73.30	75.65	74.99	71.05	68.08	69.93	75.81	80.31	79.09	79.38	83.32
100°	71.22	72.02	73.32	73.62	70.92	69.51	70.32	72.97	75.37	73.66	74.31	76.71
105°	69.76	73.50	74.06	72.15	71.79	71.79	70.29	71.53	71.79	69.67	68.64	69.16
110°	68.35	71.16	72.83	73.72	75.28	74.40	72.11	71.22	67.52	65.96	65.81	65.91
115°	68.63	68.12	70.22	72.38	74.38	73.87	71.91	68.27	65.50	65.55	66.01	66.06
120°	66.57	64.63	68.26	73.55	73.86	69.91	67.02	64.67	64.32	65.42	67.22	66.87
125°	65.25	65.87	70.07	76.27	75.84	73.10	67.80	63.88	63.50	66.96	68.98	66.96
130°	65.73	68.39	72.34	77.02	76.82	77.50	77.35	71.57	71.27	68.72	67.62	68.25
135°	68.76	70.43	75.74	78.86	80.38	81.15	81.01	81.05	79.15	76.03	75.49	80.86
140°	71.17	73.09	77.99	80.74	83.79	86.40	86.21	86.26	83.27	83.27	84.06	87.94
145°	76.71	78.95	84.38	90.06	90.55	89.97	88.23	85.61	84.19	83.91	86.63	88.33
150°	86.49	89.21	90.59	90.30	89.30	88.78	88.68	88.49	88.83	87.92	87.45	88.40
155°	82.60	83.94	85.14	85.58	85.68	85.88	86.43	87.08	85.98	86.04	86.34	87.58
160°	73.17	74.44	75.59	76.36	77.32	78.17	78.13	78.63	79.59	80.05	81.36	82.48
165°	67.61	68.06	68.51	68.86	69.51	69.81	70.46	71.06	72.25	73.01	73.96	74.61
170°	64.93	65.14	65.25	65.50	65.82	66.07	66.60	66.89	67.25	67.57	68.13	68.64
175°	67.59	67.59	67.74	67.74	67.74	67.74	67.74	68.04	68.04	68.38	68.38	68.68
180°	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42
5°	78.37	78.37	78.37	78.37	78.37	78.37	78.32	78.57	78.37	78.67	78.72	78.86
10°	78.11	78.32	78.57	78.57	78.62	78.89	78.68	78.68	78.68	78.83	78.83	78.83
15°	78.57	78.91	79.11	78.96	78.91	79.11	79.37	79.71	79.87	79.71	79.71	79.37
20°	76.56	76.26	76.26	76.41	76.56	76.41	76.51	77.06	77.21	77.52	77.47	77.67
25°	76.27	76.82	76.92	76.92	76.82	76.92	77.22	77.47	77.77	78.01	77.96	78.17
30°	77.83	78.59	78.92	79.02	78.59	78.59	78.59	78.78	78.88	79.16	79.97	80.21
35°	78.95	79.29	79.35	78.42	77.60	77.40	77.93	78.18	78.51	79.25	80.60	82.89
40°	80.89	81.54	81.21	78.79	76.69	75.70	75.98	76.31	77.16	78.51	80.00	82.06
45°	83.06	83.74	83.40	81.50	78.86	77.16	76.04	75.45	75.70	76.63	78.19	81.20
50°	85.83	85.87	85.83	83.66	80.77	79.26	78.39	77.00	76.56	77.14	79.31	82.93
55°	83.59	83.64	85.44	85.77	84.35	84.73	83.64	81.04	80.76	81.37	83.21	85.15
60°	80.79	79.69	81.89	85.28	86.88	87.52	87.22	83.63	83.33	85.58	87.02	85.58
65°	78.99	77.35	78.99	83.25	84.58	84.54	86.39	85.36	86.33	88.84	87.46	85.92
70°	77.01	75.39	75.86	78.62	79.77	81.23	84.25	84.77	86.86	86.54	85.03	86.80

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75°	77.22	74.33	74.65	77.96	80.13	83.07	81.83	81.83	84.78	83.01	86.33	91.50
80°	79.11	75.16	76.26	79.31	80.71	82.96	81.16	80.71	82.56	82.16	86.91	95.06
85°	78.56	74.52	74.72	77.18	78.45	77.64	78.97	77.28	77.95	78.77	84.49	90.98
90°	76.08	71.72	70.78	71.72	72.65	72.35	73.48	72.31	73.24	75.64	81.42	85.98
95°	84.44	82.80	79.68	77.59	77.89	74.67	74.01	76.16	77.79	76.46	73.55	72.22
100°	77.36	76.86	76.06	75.42	75.76	73.81	74.16	77.97	80.06	78.11	74.27	72.06
105°	70.40	72.22	73.19	72.37	71.06	69.93	73.35	75.31	76.76	76.97	74.12	72.98
110°	65.96	67.62	69.97	69.91	69.45	68.66	71.47	77.27	78.93	78.16	78.25	77.63
115°	65.19	66.53	67.45	70.58	70.58	69.96	71.71	75.20	77.61	79.41	81.30	80.43
120°	66.27	67.67	69.56	70.56	69.91	69.31	69.61	70.41	72.90	78.35	81.24	77.25
125°	67.85	71.64	74.94	73.62	70.60	69.27	67.52	67.57	72.87	79.81	82.03	77.35
130°	70.76	79.25	86.39	82.96	74.80	69.60	67.81	69.11	73.75	80.70	84.02	81.22
135°	81.11	86.87	90.92	87.84	80.13	73.30	70.48	72.08	77.01	80.47	85.44	83.54
140°	90.60	92.57	94.67	93.92	86.87	79.58	75.24	75.42	79.21	83.46	86.12	88.03
145°	90.18	92.07	92.13	94.16	90.42	85.03	83.23	85.62	85.76	89.16	92.11	93.53
150°	89.64	92.79	95.50	95.41	91.92	89.59	92.45	92.45	92.97	95.88	98.26	97.69
155°	89.82	91.85	93.44	93.40	91.16	93.19	92.79	92.95	93.35	95.28	95.93	95.58
160°	83.33	84.60	85.87	86.07	87.02	87.68	86.87	87.18	87.68	87.13	87.64	86.57
165°	75.22	75.71	76.10	76.16	76.56	76.86	77.01	76.86	77.21	77.01	76.86	76.71
170°	69.06	69.53	69.89	70.20	70.77	70.71	70.77	70.77	70.52	70.20	69.73	69.48
175°	68.48	68.68	68.97	69.02	68.97	69.31	69.31	69.02	69.02	69.02	68.53	68.53
180°	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42
5°	79.01	79.21	79.31	79.31	79.36	79.31	79.65	79.65	79.65	79.65	79.45	79.31
10°	78.93	79.50	79.60	79.75	79.60	79.50	79.29	79.50	79.29	79.56	79.29	79.24
15°	79.56	79.71	79.56	79.07	78.91	78.56	78.61	78.11	78.11	77.96	78.16	77.96
20°	77.67	77.67	77.37	77.52	77.37	77.87	77.67	77.57	77.52	77.72	77.32	77.32
25°	77.86	77.76	77.42	77.21	77.72	77.97	78.07	77.86	77.86	77.76	77.07	76.42
30°	81.02	81.02	80.54	80.07	80.64	81.02	80.88	80.49	80.35	79.78	79.16	78.26
35°	83.52	83.66	82.69	82.30	82.39	82.93	82.05	80.65	79.23	78.31	78.02	77.53
40°	83.42	84.16	83.92	83.84	84.44	85.23	84.77	82.99	81.50	79.67	78.32	77.01
45°	82.57	83.79	84.13	84.77	85.99	86.81	87.40	87.11	85.54	83.65	82.38	81.01
50°	82.64	82.64	83.50	84.71	86.68	87.85	87.94	88.68	87.75	86.49	86.97	86.53
55°	82.08	82.55	84.11	84.68	84.53	84.53	84.02	85.38	87.84	89.02	89.88	91.72
60°	82.74	82.09	82.83	84.63	84.28	81.39	80.29	81.59	85.73	88.23	88.23	90.42
65°	86.69	85.67	85.51	85.36	84.07	80.28	78.49	79.25	82.23	84.39	85.31	87.88
70°	89.25	88.63	89.46	89.10	86.34	80.55	76.13	75.76	78.36	81.85	84.51	87.11
75°	95.07	93.82	92.58	93.62	91.81	83.48	77.64	75.46	78.72	82.55	85.03	88.18
80°	99.01	95.96	91.17	91.97	93.12	87.06	79.07	75.26	78.16	81.81	83.36	83.36
85°	94.56	92.93	87.36	88.85	91.91	88.53	77.59	73.40	73.81	76.47	78.62	77.24
90°	88.18	87.25	83.14	84.85	88.63	83.88	74.66	70.93	72.31	75.89	78.10	77.35
95°	75.65	82.96	84.90	81.02	82.96	85.92	84.80	82.19	80.71	80.40	80.40	75.95
100°	73.52	78.62	78.72	76.21	76.36	77.01	77.71	77.81	78.66	76.86	75.31	73.36
105°	73.24	77.27	74.53	71.89	71.02	70.04	70.72	72.36	74.65	73.30	71.38	70.39
110°	76.27	75.33	70.28	68.51	68.36	67.58	66.64	68.36	71.01	71.84	71.95	70.40
115°	78.17	73.04	68.99	68.01	68.83	68.32	67.19	68.63	71.60	74.07	73.71	71.14
120°	73.75	69.46	67.52	68.01	70.46	70.51	69.11	72.81	76.30	74.90	73.41	70.56
125°	71.35	67.10	66.06	68.61	72.25	69.94	70.74	78.11	84.63	81.27	75.75	71.64
130°	77.32	72.05	69.59	71.91	71.14	71.14	73.31	83.59	91.93	88.27	80.94	73.70
135°	81.50	79.64	79.98	77.45	77.01	80.76	84.51	89.20	92.47	91.88	85.19	77.65
140°	89.11	88.50	86.59	82.57	81.78	85.23	87.33	88.55	89.01	86.78	85.00	81.07
145°	94.93	93.14	89.79	86.53	82.70	85.32	86.73	88.14	90.96	88.69	86.98	82.51
150°	97.17	95.69	92.69	89.78	89.69	89.35	89.97	90.74	91.93	91.93	90.40	87.97
155°	94.89	93.14	90.72	89.22	86.39	88.57	87.53	86.69	87.34	88.72	88.48	87.28
160°	85.76	85.56	85.26	83.03	81.26	80.60	80.60	80.76	80.10	79.29	77.72	76.26

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165°	76.36	76.06	74.81	73.96	73.32	72.71	71.96	71.41	70.77	70.16	69.56	68.76
170°	69.16	68.91	68.55	68.24	67.88	67.47	67.16	66.80	66.55	66.55	66.23	65.98
175°	68.23	68.23	67.89	67.59	67.59	67.29	67.29	67.15	67.00	67.00	67.00	67.15
180°	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42
5°	79.36	79.31	79.45	79.65	79.65	79.65	79.65	79.31	79.36	79.31	79.31	79.21
10°	79.14	79.24	79.29	79.56	79.29	79.50	79.29	79.50	79.60	79.75	79.60	79.50
15°	77.96	77.96	78.16	77.96	78.11	78.11	78.61	78.56	78.91	79.07	79.56	79.71
20°	77.37	77.32	77.32	77.72	77.52	77.57	77.67	77.87	77.37	77.52	77.37	77.67
25°	76.28	76.42	77.07	77.76	77.86	77.86	78.07	77.97	77.72	77.21	77.42	77.76
30°	77.92	78.26	79.16	79.78	80.35	80.49	80.88	81.02	80.64	80.07	80.54	81.02
35°	77.29	77.53	78.02	78.31	79.23	80.65	82.05	82.93	82.39	82.30	82.69	83.66
40°	75.98	77.01	78.32	79.67	81.50	82.99	84.77	85.23	84.44	83.84	83.92	84.16
45°	79.89	81.01	82.38	83.65	85.54	87.11	87.40	86.81	85.99	84.77	84.13	83.79
50°	85.19	86.53	86.97	86.49	87.75	88.68	87.94	87.85	86.68	84.71	83.50	82.64
55°	89.78	91.72	89.88	89.02	87.84	85.38	84.02	84.53	84.53	84.68	84.11	82.55
60°	91.92	90.42	88.23	88.23	85.73	81.59	80.29	81.39	84.28	84.63	82.83	82.09
65°	91.21	87.88	85.31	84.39	82.23	79.25	78.49	80.28	84.07	85.36	85.51	85.67
70°	85.85	87.11	84.51	81.85	78.36	75.76	76.13	80.55	86.34	89.10	89.46	88.63
75°	84.08	88.18	85.03	82.55	78.72	75.46	77.64	83.48	91.81	93.62	92.58	93.82
80°	82.22	83.36	83.36	81.81	78.16	75.26	79.07	87.06	93.12	91.97	91.17	95.96
85°	77.39	77.24	78.62	76.47	73.81	73.40	77.59	88.53	91.91	88.85	87.36	92.93
90°	74.32	77.35	78.10	75.89	72.31	70.93	74.66	83.88	88.63	84.85	83.14	87.25
95°	78.16	75.95	80.40	80.40	80.71	82.19	84.80	85.92	82.96	81.02	84.90	82.96
100°	76.86	73.36	75.31	76.86	78.66	77.81	77.71	77.01	76.36	76.21	78.72	78.62
105°	74.38	70.39	71.38	73.30	74.65	72.36	70.72	70.04	71.02	71.89	74.53	77.27
110°	72.27	70.40	71.95	71.84	71.01	68.36	66.64	67.58	68.36	68.51	70.28	75.33
115°	70.12	71.14	73.71	74.07	71.60	68.63	67.19	68.32	68.83	68.01	68.99	73.04
120°	68.01	70.56	73.41	74.90	76.30	72.81	69.11	70.51	70.46	68.01	67.52	69.46
125°	68.04	71.64	75.75	81.27	84.63	78.11	70.74	69.94	72.25	68.61	66.06	67.10
130°	69.45	73.70	80.94	88.27	91.93	83.59	73.31	71.14	71.14	71.91	69.59	72.05
135°	72.63	77.65	85.19	91.88	92.47	89.20	84.51	80.76	77.01	77.45	79.98	79.64
140°	77.01	81.07	85.00	86.78	89.01	88.55	87.33	85.23	81.78	82.57	86.59	88.50
145°	81.34	82.51	86.98	88.69	90.96	88.14	86.73	85.32	82.70	86.53	89.79	93.14
150°	85.54	87.97	90.40	91.93	91.93	90.74	89.97	89.35	89.69	89.78	92.69	95.69
155°	84.80	87.28	88.48	88.72	87.34	86.69	87.53	88.57	86.39	89.22	90.72	93.14
160°	74.99	76.26	77.72	79.29	80.10	80.76	80.60	80.60	81.26	83.03	85.26	85.56
165°	67.96	68.76	69.56	70.16	70.77	71.41	71.96	72.71	73.32	73.96	74.81	76.06
170°	65.66	65.98	66.23	66.55	66.55	66.80	67.16	67.47	67.88	68.24	68.55	68.91
175°	67.15	67.15	67.00	67.00	67.00	67.15	67.29	67.29	67.59	67.59	67.89	68.23
180°	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42
5°	79.01	78.86	78.72	78.67	78.37	78.57	78.32	78.37	78.37	78.37	78.37	78.37
10°	78.93	78.83	78.83	78.83	78.68	78.68	78.68	78.89	78.62	78.57	78.57	78.32
15°	79.56	79.37	79.71	79.71	79.87	79.71	79.37	79.11	78.91	78.96	79.11	78.91
20°	77.67	77.67	77.47	77.52	77.21	77.06	76.51	76.41	76.56	76.41	76.26	76.26
25°	77.86	78.17	77.96	78.01	77.77	77.47	77.22	76.92	76.82	76.92	76.92	76.82
30°	81.02	80.21	79.97	79.16	78.88	78.78	78.59	78.59	78.59	79.02	78.92	78.59
35°	83.52	82.89	80.60	79.25	78.51	78.18	77.93	77.40	77.60	78.42	79.35	79.29
40°	83.42	82.06	80.00	78.51	77.16	76.31	75.98	75.70	76.69	78.79	81.21	81.54
45°	82.57	81.20	78.19	76.63	75.70	75.45	76.04	77.16	78.86	81.50	83.40	83.74
50°	82.64	82.93	79.31	77.14	76.56	77.00	78.39	79.26	80.77	83.66	85.83	85.87
55°	82.08	85.15	83.21	81.37	80.76	81.04	83.64	84.73	84.35	85.77	85.44	83.64
60°	82.74	85.58	87.02	85.58	83.33	83.63	87.22	87.52	86.88	85.28	81.89	79.69

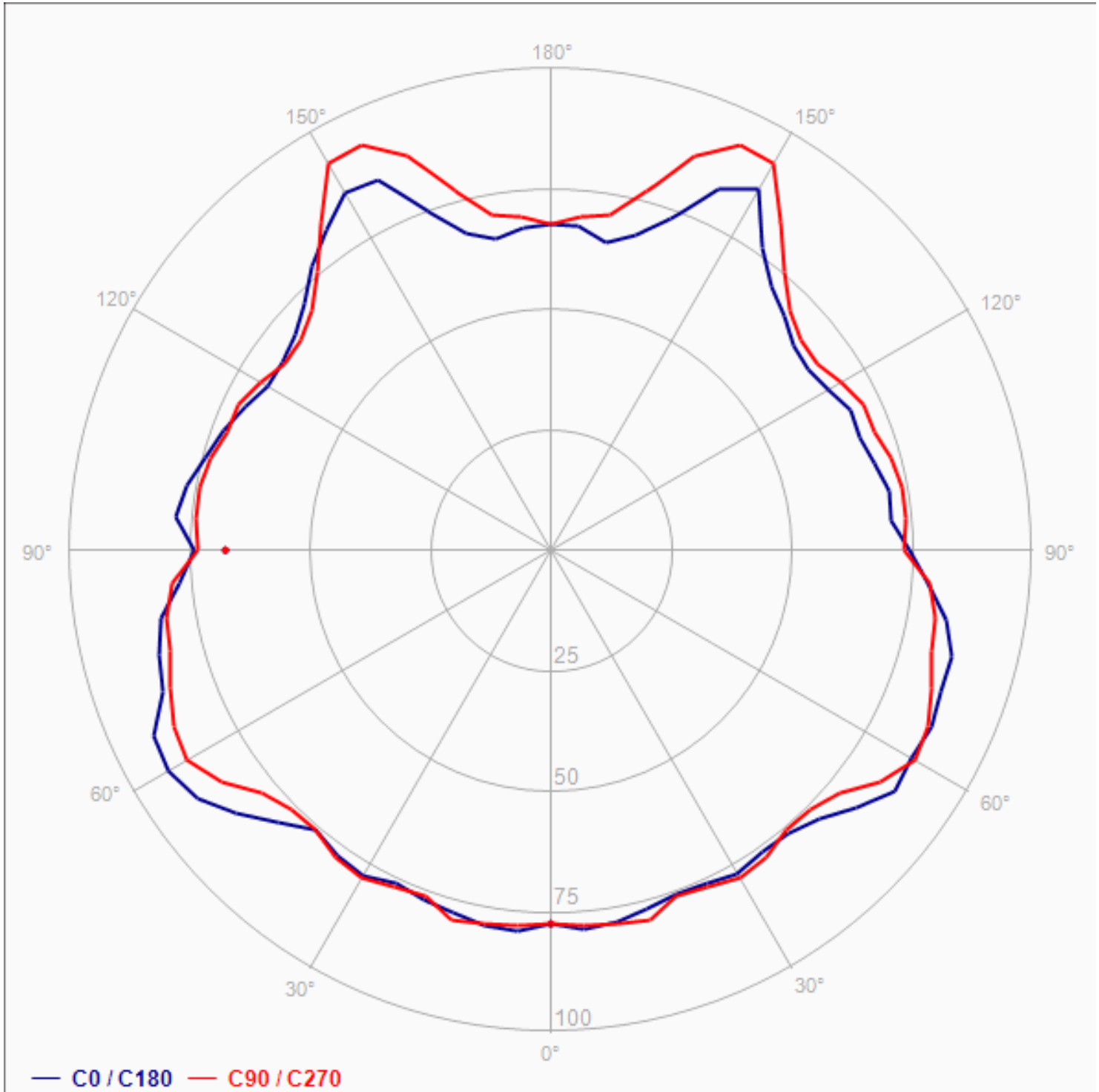
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65°	86.69	85.92	87.46	88.84	86.33	85.36	86.39	84.54	84.58	83.25	78.99	77.35
70°	89.25	86.80	85.03	86.54	86.86	84.77	84.25	81.23	79.77	78.62	75.86	75.39
75°	95.07	91.50	86.33	83.01	84.78	81.83	81.83	83.07	80.13	77.96	74.65	74.33
80°	99.01	95.06	86.91	82.16	82.56	80.71	81.16	82.96	80.71	79.31	76.26	75.16
85°	94.56	90.98	84.49	78.77	77.95	77.28	78.97	77.64	78.45	77.18	74.72	74.52
90°	88.18	85.98	81.42	75.64	73.24	72.31	73.48	72.35	72.65	71.72	70.78	71.72
95°	75.65	72.22	73.55	76.46	77.79	76.16	74.01	74.67	77.89	77.59	79.68	82.80
100°	73.52	72.06	74.27	78.11	80.06	77.97	74.16	73.81	75.76	75.42	76.06	76.86
105°	73.24	72.98	74.12	76.97	76.76	75.31	73.35	69.93	71.06	72.37	73.19	72.22
110°	76.27	77.63	78.25	78.16	78.93	77.27	71.47	68.66	69.45	69.91	69.97	67.62
115°	78.17	80.43	81.30	79.41	77.61	75.20	71.71	69.96	70.58	70.58	67.45	66.53
120°	73.75	77.25	81.24	78.35	72.90	70.41	69.61	69.31	69.91	70.56	69.56	67.67
125°	71.35	77.35	82.03	79.81	72.87	67.57	67.52	69.27	70.60	73.62	74.94	71.64
130°	77.32	81.22	84.02	80.70	73.75	69.11	67.81	69.60	74.80	82.96	86.39	79.25
135°	81.50	83.54	85.44	80.47	77.01	72.08	70.48	73.30	80.13	87.84	90.92	86.87
140°	89.11	88.03	86.12	83.46	79.21	75.42	75.24	79.58	86.87	93.92	94.67	92.57
145°	94.93	93.53	92.11	89.16	85.76	85.62	83.23	85.03	90.42	94.16	92.13	92.07
150°	97.17	97.69	98.26	95.88	92.97	92.45	92.45	89.59	91.92	95.41	95.50	92.79
155°	94.89	95.58	95.93	95.28	93.35	92.95	92.79	93.19	91.16	93.40	93.44	91.85
160°	85.76	86.57	87.64	87.13	87.68	87.18	86.87	87.68	87.02	86.07	85.87	84.60
165°	76.36	76.71	76.86	77.01	77.21	76.86	77.01	76.86	76.56	76.16	76.10	75.71
170°	69.16	69.48	69.73	70.20	70.52	70.77	70.77	70.71	70.77	70.20	69.89	69.53
175°	68.23	68.53	68.53	69.02	69.02	69.02	69.31	69.31	68.97	69.02	68.97	68.68
180°	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°
0°	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42	77.42
5°	78.37	78.72	78.67	78.72	79.01	78.82	79.01	79.01	79.16	79.16	79.16	79.16
10°	78.11	78.11	78.05	78.36	78.68	78.93	78.99	78.78	78.93	78.99	78.73	78.68
15°	78.57	78.76	78.57	78.57	78.62	78.91	78.62	78.22	77.62	77.16	77.01	77.01
20°	76.56	76.71	76.91	76.86	76.91	76.71	76.41	76.41	76.26	75.95	75.95	75.75
25°	76.27	75.92	75.68	75.89	75.78	76.02	76.43	76.98	76.98	76.98	76.73	76.43
30°	77.83	77.49	78.40	79.31	79.21	78.55	78.31	78.12	77.83	77.49	77.54	77.54
35°	78.95	79.49	80.70	81.87	81.87	81.33	80.32	78.51	77.70	76.87	76.53	76.18
40°	80.89	81.17	81.92	83.04	82.86	81.36	80.66	78.51	77.06	76.17	75.84	75.99
45°	83.06	82.91	83.25	83.40	82.58	81.06	80.72	78.23	76.53	75.61	76.24	77.61
50°	85.83	84.33	83.36	83.03	81.97	81.33	82.60	81.19	79.02	78.45	78.78	81.01
55°	83.59	83.31	83.78	83.97	81.98	81.08	84.40	85.35	83.07	81.85	81.80	84.44
60°	80.79	83.84	85.28	83.53	81.79	81.49	84.78	86.57	87.02	84.98	84.48	85.93
65°	78.99	83.05	85.41	85.20	85.20	85.36	86.38	84.74	86.84	87.56	87.51	88.84
70°	77.01	83.42	87.12	88.31	88.63	87.84	87.48	84.83	83.00	83.94	84.77	85.81
75°	77.22	86.58	91.08	90.72	90.15	92.17	92.60	88.87	83.71	81.89	82.25	81.99
80°	79.11	88.81	91.66	88.31	89.31	94.56	95.41	91.41	84.91	81.16	79.96	79.46
85°	78.56	89.29	90.11	84.90	85.41	90.32	90.22	87.97	84.64	78.82	75.80	75.09
90°	76.08	86.76	88.14	83.33	81.72	84.90	85.19	84.26	82.59	78.82	77.88	73.77
95°	84.44	83.32	79.38	79.09	80.31	75.81	69.93	68.08	71.05	74.99	75.65	73.30
100°	77.36	76.71	74.31	73.66	75.37	72.97	70.32	69.51	70.92	73.62	73.32	72.02
105°	70.40	69.16	68.64	69.67	71.79	71.53	70.29	71.79	71.79	72.15	74.06	73.50
110°	65.96	65.91	65.81	65.96	67.52	71.22	72.11	74.40	75.28	73.72	72.83	71.16
115°	65.19	66.06	66.01	65.55	65.50	68.27	71.91	73.87	74.38	72.38	70.22	68.12
120°	66.27	66.87	67.22	65.42	64.32	64.67	67.02	69.91	73.86	73.55	68.26	64.63
125°	67.85	66.96	68.98	66.96	63.50	63.88	67.80	73.10	75.84	76.27	70.07	65.87
130°	70.76	68.25	67.62	68.72	71.27	71.57	77.35	77.50	76.82	77.02	72.34	68.39
135°	81.11	80.86	75.49	76.03	79.15	81.05	81.01	81.15	80.38	78.86	75.74	70.43
140°	90.60	87.94	84.06	83.27	83.27	86.26	86.21	86.40	83.79	80.74	77.99	73.09
145°	90.18	88.33	86.63	83.91	84.19	85.61	88.23	89.97	90.55	90.06	84.38	78.95
150°	89.64	88.40	87.45	87.92	88.83	88.49	88.68	88.78	89.30	90.30	90.59	89.21

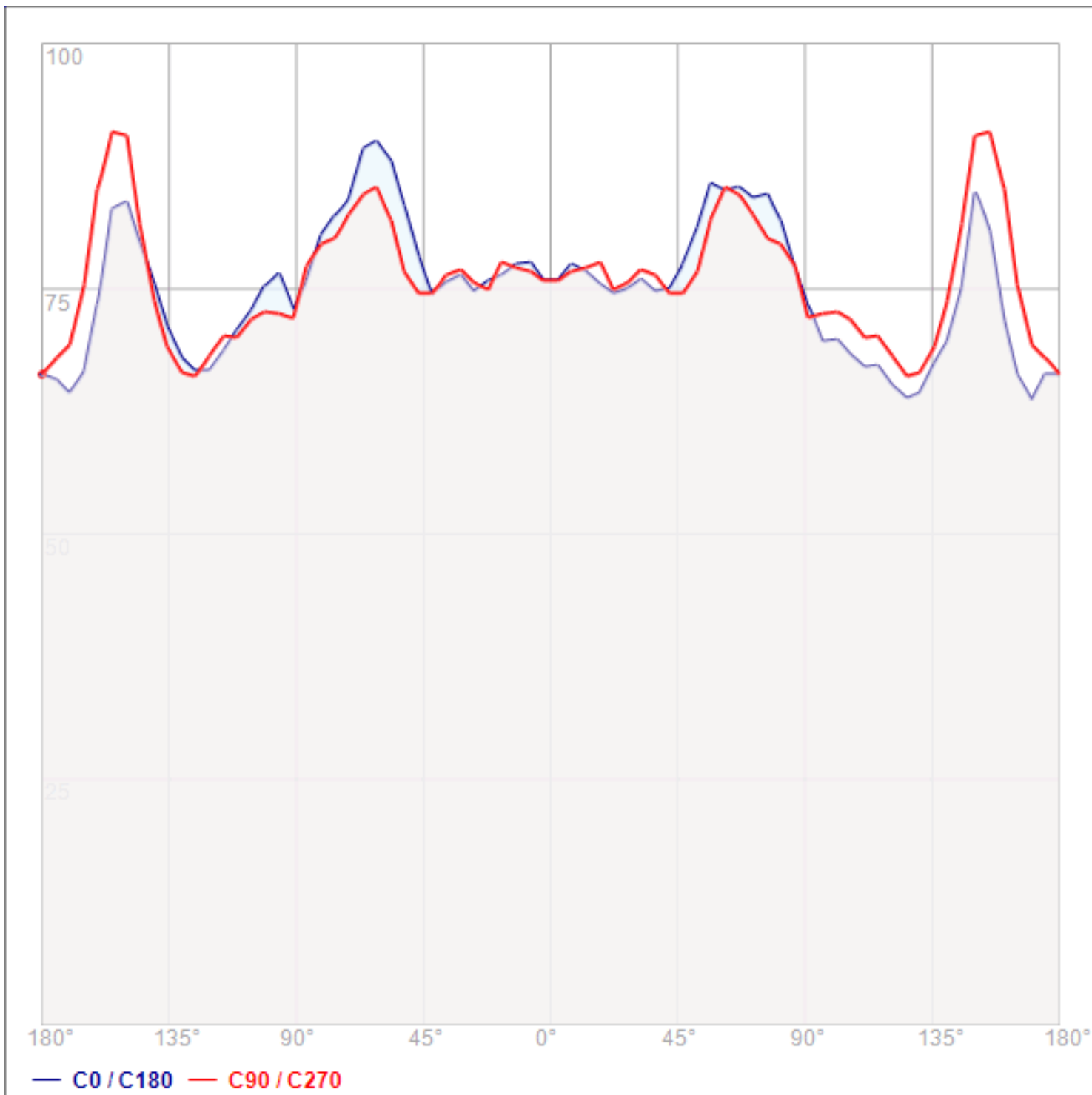
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155°	89.82	87.58	86.34	86.04	85.98	87.08	86.43	85.88	85.68	85.58	85.14	83.94
160°	83.33	82.48	81.36	80.05	79.59	78.63	78.13	78.17	77.32	76.36	75.59	74.44
165°	75.22	74.61	73.96	73.01	72.25	71.06	70.46	69.81	69.51	68.86	68.51	68.06
170°	69.06	68.64	68.13	67.57	67.25	66.89	66.60	66.07	65.82	65.50	65.25	65.14
175°	68.48	68.68	68.38	68.38	68.04	68.04	67.74	67.74	67.74	67.74	67.74	67.59
180°	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emmission Photo



Opening angle

