

PHOTOMETRIC MEASUREMENT REPORT N° 29

Photometric measurement date: **11/10/2017**

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: **Fiorella suspension white**

Eulumdat reference: **Fiorella suspension white**

Size of luminaire (mm): **760 x 0 x 580**

Size of luminous area (mm): **760 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): **810**

Output luminous flux of the lamp (lm): **789.01**

Colour temperature (K): **2700**

Colour rendering index: **0**

Supply current (mA): **80**

Source power (W): **7.2**

Power consumption included source power (W): **8**

LED module efficacy (lm/W): **112.50**

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

Luminaire light efficacy (lm/W): **98.63**

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°	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91
5°	47.81	46.50	47.26	46.50	46.50	46.50	46.50	46.50	46.50	46.50	47.26	47.81
10°	48.25	48.11	47.30	47.13	47.13	47.13	45.95	47.13	46.34	47.72	48.11	49.07
15°	57.77	56.45	55.14	54.59	55.33	54.02	54.02	54.73	55.33	55.14	56.45	56.83
20°	55.37	57.10	50.82	47.38	44.73	46.62	50.25	54.61	49.09	47.19	45.30	43.59
25°	46.60	46.24	45.10	41.88	41.88	43.38	43.38	44.18	44.18	44.32	46.60	47.52
30°	50.39	50.76	52.37	56.14	51.47	54.53	53.63	53.08	48.97	52.37	54.16	56.12
35°	61.03	55.90	49.88	58.81	52.06	70.89	70.20	64.31	49.68	55.51	55.51	49.88
40°	77.86	87.69	72.40	56.75	50.43	86.83	82.94	71.87	65.03	55.90	48.15	59.75
45°	90.21	87.46	82.00	81.43	81.23	95.35	90.58	82.37	78.31	59.05	57.93	72.61
50°	84.18	84.04	92.76	75.15	91.50	100.01	85.85	90.17	72.61	60.83	58.24	93.25
55°	67.02	79.84	67.74	56.36	65.96	78.07	81.98	93.51	74.50	68.63	52.64	55.12
60°	57.47	80.00	76.62	68.55	58.97	71.57	88.85	105.74	90.52	93.92	66.49	54.29
65°	58.18	62.60	72.46	74.03	60.28	73.62	100.32	112.87	107.98	107.27	62.03	58.36
70°	51.98	53.92	52.53	54.31	66.08	76.27	107.04	108.98	108.43	101.36	55.28	53.72
75°	70.59	99.38	78.94	56.57	63.80	75.66	108.86	100.30	99.77	101.44	80.59	62.62
80°	85.30	137.04	112.22	94.10	63.44	107.68	108.63	94.90	85.65	89.44	74.34	92.45
85°	77.60	140.57	118.05	92.05	89.17	83.20	118.25	97.43	77.03	81.86	72.20	91.68
90°	79.51	129.52	106.31	78.96	121.39	122.35	127.36	102.97	75.85	77.68	80.47	80.08
95°	102.07	91.11	93.59	109.96	67.96	91.05	70.08	82.61	127.85	96.49	84.16	94.74
100°	113.36	84.89	99.38	140.44	119.72	111.24	70.59	109.37	146.07	114.26	67.76	105.07
105°	107.08	71.89	92.21	119.98	100.91	93.33	83.61	96.81	123.88	101.30	72.50	97.41
110°	78.03	73.32	82.75	97.26	68.61	81.78	91.58	95.33	94.51	77.44	54.69	68.84
115°	57.02	58.18	62.03	65.13	103.76	128.89	108.59	87.73	79.05	58.18	53.33	69.77
120°	52.02	61.42	81.33	108.37	147.82	136.55	106.11	89.78	68.18	53.14	50.72	57.85
125°	48.54	58.16	89.44	106.51	140.65	119.31	93.00	65.80	61.34	48.91	47.48	51.03
130°	57.71	49.19	80.00	90.05	123.20	117.62	93.47	73.09	68.57	48.80	49.01	60.97
135°	48.99	48.42	64.21	67.88	86.01	85.63	70.79	65.86	46.60	47.34	50.82	49.86
140°	45.87	45.50	44.81	45.87	47.09	44.81	44.12	43.75	43.75	43.75	44.12	44.81
145°	51.70	48.40	53.51	54.98	46.77	47.66	59.54	55.18	65.76	56.63	55.73	53.51
150°	54.16	56.49	59.71	60.97	60.07	59.18	65.45	72.46	71.73	70.12	66.19	62.23
155°	44.18	46.24	48.09	47.32	48.82	51.29	51.82	53.29	53.88	53.65	53.51	51.45
160°	35.21	37.11	37.11	35.03	35.76	36.35	37.11	37.68	38.07	38.64	38.82	39.39
165°	31.24	31.06	31.24	29.91	30.10	30.10	29.91	30.51	31.24	31.06	32.54	32.36
170°	29.87	30.04	30.04	30.83	30.26	30.04	30.83	30.83	30.04	31.22	31.22	31.61
175°	30.95	30.95	31.14	31.14	30.57	30.57	30.57	30.38	29.65	29.83	30.57	31.14
180°	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91
5°	47.62	48.36	48.91	48.74	48.91	50.03	50.58	50.03	48.91	48.74	48.91	48.36
10°	49.46	51.21	51.21	52.96	53.51	55.10	55.26	55.10	53.51	52.96	51.21	51.21
15°	58.16	57.97	57.97	60.60	62.29	64.17	64.01	64.17	62.29	60.60	57.97	57.97
20°	45.87	44.73	47.38	50.07	51.96	50.41	52.15	50.41	51.96	50.07	47.38	44.73
25°	47.32	47.32	48.09	47.52	49.38	50.29	49.15	50.29	49.38	47.52	48.09	47.32
30°	57.75	60.97	64.03	62.76	57.75	54.16	48.97	54.16	57.75	62.76	64.03	60.97
35°	59.01	56.83	81.31	88.05	71.38	70.12	53.19	70.12	71.38	88.05	81.31	56.83
40°	50.43	68.71	89.99	90.15	80.49	74.52	58.87	74.52	80.49	90.15	89.99	68.71
45°	66.59	98.10	99.22	111.49	114.42	96.28	94.61	96.28	114.42	111.49	99.22	98.10
50°	98.91	100.34	68.04	70.40	96.18	83.39	88.34	83.39	96.18	70.40	68.04	100.34
55°	96.02	89.97	54.94	82.86	82.51	84.10	89.97	84.10	82.51	82.86	54.94	89.97
60°	84.32	106.31	67.61	107.43	117.58	131.68	125.85	131.68	117.58	107.43	67.61	106.31
65°	111.93	116.32	110.37	82.90	91.41	80.21	80.80	80.21	91.41	82.90	110.37	116.32
70°	69.81	59.63	73.91	61.95	70.57	87.97	78.25	87.97	70.57	61.95	73.91	59.63

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75°	110.10	107.35	59.69	114.46	102.44	134.25	123.04	134.25	102.44	114.46	59.69	107.35
80°	59.69	80.76	71.89	90.74	90.58	139.20	107.68	139.20	90.58	90.74	71.89	80.76
85°	65.68	124.04	96.12	88.97	92.45	148.90	107.08	148.90	92.45	88.97	96.12	124.04
90°	72.73	87.16	143.81	149.53	104.48	151.61	112.38	151.61	104.48	149.53	143.81	87.16
95°	67.39	71.44	118.60	119.19	107.61	130.93	117.66	130.93	107.61	119.19	118.60	71.44
100°	81.90	63.44	72.30	110.69	103.13	131.19	103.76	131.19	103.13	110.69	72.30	63.44
105°	103.48	115.60	125.20	109.69	110.32	134.78	111.34	134.78	110.32	109.69	125.20	115.60
110°	94.53	103.48	111.77	125.69	128.64	127.05	107.59	127.05	128.64	125.69	111.77	103.48
115°	60.28	90.82	83.87	115.72	138.91	121.15	100.50	121.15	138.91	115.72	83.87	90.82
120°	60.30	79.07	71.75	82.26	128.85	108.76	90.72	108.76	128.85	82.26	71.75	79.07
125°	84.47	96.73	70.40	107.76	109.55	96.02	67.92	96.02	109.55	107.76	70.40	96.73
130°	88.24	84.91	102.54	117.25	98.53	84.16	53.17	84.16	98.53	117.25	102.54	84.91
135°	55.59	70.08	65.49	61.99	81.08	67.12	54.49	67.12	81.08	61.99	65.49	70.08
140°	49.74	57.28	63.97	57.28	58.18	45.87	46.03	45.87	58.18	57.28	63.97	57.28
145°	53.72	45.48	44.59	48.78	47.87	51.90	49.88	51.90	47.87	48.78	44.59	45.48
150°	69.77	54.69	59.18	62.23	51.29	66.72	73.71	66.72	51.29	62.23	59.18	54.69
155°	51.82	53.65	55.73	51.82	48.46	55.73	52.96	55.73	48.46	51.82	55.73	53.65
160°	39.78	41.10	39.21	40.55	39.96	43.77	42.45	43.77	39.96	40.55	39.21	41.10
165°	32.36	33.68	33.50	34.40	34.07	34.81	34.64	34.81	34.07	34.40	33.50	33.68
170°	31.38	31.38	31.38	32.18	32.18	32.40	32.56	32.40	32.18	32.18	31.38	31.38
175°	31.14	31.14	30.95	31.69	31.14	32.24	32.05	32.24	31.14	31.69	30.95	31.14
180°	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91
5°	47.62	47.81	47.26	46.50	46.50	46.50	46.50	46.50	46.50	46.50	47.26	46.50
10°	49.46	49.07	48.11	47.72	46.34	47.13	45.95	47.13	47.13	47.13	47.30	48.11
15°	58.16	56.83	56.45	55.14	55.33	54.73	54.02	54.02	55.33	54.59	55.14	56.45
20°	45.87	43.59	45.30	47.19	49.09	54.61	50.25	46.62	44.73	47.38	50.82	57.10
25°	47.32	47.52	46.60	44.32	44.18	44.18	43.38	43.38	41.88	41.88	45.10	46.24
30°	57.75	56.12	54.16	52.37	48.97	53.08	53.63	54.53	51.47	56.14	52.37	50.76
35°	59.01	49.88	55.51	55.51	49.68	64.31	70.20	70.89	52.06	58.81	49.88	55.90
40°	50.43	59.75	48.15	55.90	65.03	71.87	82.94	86.83	50.43	56.75	72.40	87.69
45°	66.59	72.61	57.93	59.05	78.31	82.37	90.58	95.35	81.23	81.43	82.00	87.46
50°	98.91	93.25	58.24	60.83	72.61	90.17	85.85	100.01	91.50	75.15	92.76	84.04
55°	96.02	55.12	52.64	68.63	74.50	93.51	81.98	78.07	65.96	56.36	67.74	79.84
60°	84.32	54.29	66.49	93.92	90.52	105.74	88.85	71.57	58.97	68.55	76.62	80.00
65°	111.93	58.36	62.03	107.27	107.98	112.87	100.32	73.62	60.28	74.03	72.46	62.60
70°	69.81	53.72	55.28	101.36	108.43	108.98	107.04	76.27	66.08	54.31	52.53	53.92
75°	110.10	62.62	80.59	101.44	99.77	100.30	108.86	75.66	63.80	56.57	78.94	99.38
80°	59.69	92.45	74.34	89.44	85.65	94.90	108.63	107.68	63.44	94.10	112.22	137.04
85°	65.68	91.68	72.20	81.86	77.03	97.43	118.25	83.20	89.17	92.05	118.05	140.57
90°	72.73	80.08	80.47	77.68	75.85	102.97	127.36	122.35	121.39	78.96	106.31	129.52
95°	67.39	94.74	84.16	96.49	127.85	82.61	70.08	91.05	67.96	109.96	93.59	91.11
100°	81.90	105.07	67.76	114.26	146.07	109.37	70.59	111.24	119.72	140.44	99.38	84.89
105°	103.48	97.41	72.50	101.30	123.88	96.81	83.61	93.33	100.91	119.98	92.21	71.89
110°	94.53	68.84	54.69	77.44	94.51	95.33	91.58	81.78	68.61	97.26	82.75	73.32
115°	60.28	69.77	53.33	58.18	79.05	87.73	108.59	128.89	103.76	65.13	62.03	58.18
120°	60.30	57.85	50.72	53.14	68.18	89.78	106.11	136.55	147.82	108.37	81.33	61.42
125°	84.47	51.03	47.48	48.91	61.34	65.80	93.00	119.31	140.65	106.51	89.44	58.16
130°	88.24	60.97	49.01	48.80	68.57	73.09	93.47	117.62	123.20	90.05	80.00	49.19
135°	55.59	49.86	50.82	47.34	46.60	65.86	70.79	85.63	86.01	67.88	64.21	48.42
140°	49.74	44.81	44.12	43.75	43.75	43.75	44.12	44.81	47.09	45.87	44.81	45.50
145°	53.72	53.51	55.73	56.63	65.76	55.18	59.54	47.66	46.77	54.98	53.51	48.40
150°	69.77	62.23	66.19	70.12	71.73	72.46	65.45	59.18	60.07	60.97	59.71	56.49
155°	51.82	51.45	53.51	53.65	53.88	53.29	51.82	51.29	48.82	47.32	48.09	46.24
160°	39.78	39.39	38.82	38.64	38.07	37.68	37.11	36.35	35.76	35.03	37.11	37.11

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165°	32.36	32.36	32.54	31.06	31.24	30.51	29.91	30.10	30.10	29.91	31.24	31.06
170°	31.38	31.61	31.22	31.22	30.04	30.83	30.83	30.04	30.26	30.83	30.04	30.04
175°	31.14	31.14	30.57	29.83	29.65	30.38	30.57	30.57	30.57	31.14	31.14	30.95
180°	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91
5°	47.81	46.50	47.26	46.50	46.50	46.50	46.50	46.50	46.50	46.50	47.26	47.81
10°	48.25	48.11	47.30	47.13	47.13	47.13	45.95	47.13	46.34	47.72	48.11	49.07
15°	57.77	56.45	55.14	54.59	55.33	54.02	54.02	54.73	55.33	55.14	56.45	56.83
20°	55.37	57.10	50.82	47.38	44.73	46.62	50.25	54.61	49.09	47.19	45.30	43.59
25°	46.60	46.24	45.10	41.88	41.88	43.38	43.38	44.18	44.18	44.32	46.60	47.52
30°	50.39	50.76	52.37	56.14	51.47	54.53	53.63	53.08	48.97	52.37	54.16	56.12
35°	61.03	55.90	49.88	58.81	52.06	70.89	70.20	64.31	49.68	55.51	55.51	49.88
40°	77.86	87.69	72.40	56.75	50.43	86.83	82.94	71.87	65.03	55.90	48.15	59.75
45°	90.21	87.46	82.00	81.43	81.23	95.35	90.58	82.37	78.31	59.05	57.93	72.61
50°	84.18	84.04	92.76	75.15	91.50	100.01	85.85	90.17	72.61	60.83	58.24	93.25
55°	67.02	79.84	67.74	56.36	65.96	78.07	81.98	93.51	74.50	68.63	52.64	55.12
60°	57.47	80.00	76.62	68.55	58.97	71.57	88.85	105.74	90.52	93.92	66.49	54.29
65°	58.18	62.60	72.46	74.03	60.28	73.62	100.32	112.87	107.98	107.27	62.03	58.36
70°	51.98	53.92	52.53	54.31	66.08	76.27	107.04	108.98	108.43	101.36	55.28	53.72
75°	70.59	99.38	78.94	56.57	63.80	75.66	108.86	100.30	99.77	101.44	80.59	62.62
80°	85.30	137.04	112.22	94.10	63.44	107.68	108.63	94.90	85.65	89.44	74.34	92.45
85°	77.60	140.57	118.05	92.05	89.17	83.20	118.25	97.43	77.03	81.86	72.20	91.68
90°	79.51	129.52	106.31	78.96	121.39	122.35	127.36	102.97	75.85	77.68	80.47	80.08
95°	102.07	91.11	93.59	109.96	67.96	91.05	70.08	82.61	127.85	96.49	84.16	94.74
100°	113.36	84.89	99.38	140.44	119.72	111.24	70.59	109.37	146.07	114.26	67.76	105.07
105°	107.08	71.89	92.21	119.98	100.91	93.33	83.61	96.81	123.88	101.30	72.50	97.41
110°	78.03	73.32	82.75	97.26	68.61	81.78	91.58	95.33	94.51	77.44	54.69	68.84
115°	57.02	58.18	62.03	65.13	103.76	128.89	108.59	87.73	79.05	58.18	53.33	69.77
120°	52.02	61.42	81.33	108.37	147.82	136.55	106.11	89.78	68.18	53.14	50.72	57.85
125°	48.54	58.16	89.44	106.51	140.65	119.31	93.00	65.80	61.34	48.91	47.48	51.03
130°	57.71	49.19	80.00	90.05	123.20	117.62	93.47	73.09	68.57	48.80	49.01	60.97
135°	48.99	48.42	64.21	67.88	86.01	85.63	70.79	65.86	46.60	47.34	50.82	49.86
140°	45.87	45.50	44.81	45.87	47.09	44.81	44.12	43.75	43.75	43.75	44.12	44.81
145°	51.70	48.40	53.51	54.98	46.77	47.66	59.54	55.18	65.76	56.63	55.73	53.51
150°	54.16	56.49	59.71	60.97	60.07	59.18	65.45	72.46	71.73	70.12	66.19	62.23
155°	44.18	46.24	48.09	47.32	48.82	51.29	51.82	53.29	53.88	53.65	53.51	51.45
160°	35.21	37.11	37.11	35.03	35.76	36.35	37.11	37.68	38.07	38.64	38.82	39.39
165°	31.24	31.06	31.24	29.91	30.10	30.10	29.91	30.51	31.24	31.06	32.54	32.36
170°	29.87	30.04	30.04	30.83	30.26	30.04	30.83	30.83	30.04	31.22	31.22	31.61
175°	30.95	30.95	31.14	31.14	30.57	30.57	30.57	30.38	29.65	29.83	30.57	31.14
180°	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91
5°	47.62	48.36	48.91	48.74	48.91	50.03	50.58	50.03	48.91	48.74	48.91	48.36
10°	49.46	51.21	51.21	52.96	53.51	55.10	55.26	55.10	53.51	52.96	51.21	51.21
15°	58.16	57.97	57.97	60.60	62.29	64.17	64.01	64.17	62.29	60.60	57.97	57.97
20°	45.87	44.73	47.38	50.07	51.96	50.41	52.15	50.41	51.96	50.07	47.38	44.73
25°	47.32	47.32	48.09	47.52	49.38	50.29	49.15	50.29	49.38	47.52	48.09	47.32
30°	57.75	60.97	64.03	62.76	57.75	54.16	48.97	54.16	57.75	62.76	64.03	60.97
35°	59.01	56.83	81.31	88.05	71.38	70.12	53.19	70.12	71.38	88.05	81.31	56.83
40°	50.43	68.71	89.99	90.15	80.49	74.52	58.87	74.52	80.49	90.15	89.99	68.71
45°	66.59	98.10	99.22	111.49	114.42	96.28	94.61	96.28	114.42	111.49	99.22	98.10
50°	98.91	100.34	68.04	70.40	96.18	83.39	88.34	83.39	96.18	70.40	68.04	100.34
55°	96.02	89.97	54.94	82.86	82.51	84.10	89.97	84.10	82.51	82.86	54.94	89.97
60°	84.32	106.31	67.61	107.43	117.58	131.68	125.85	131.68	117.58	107.43	67.61	106.31

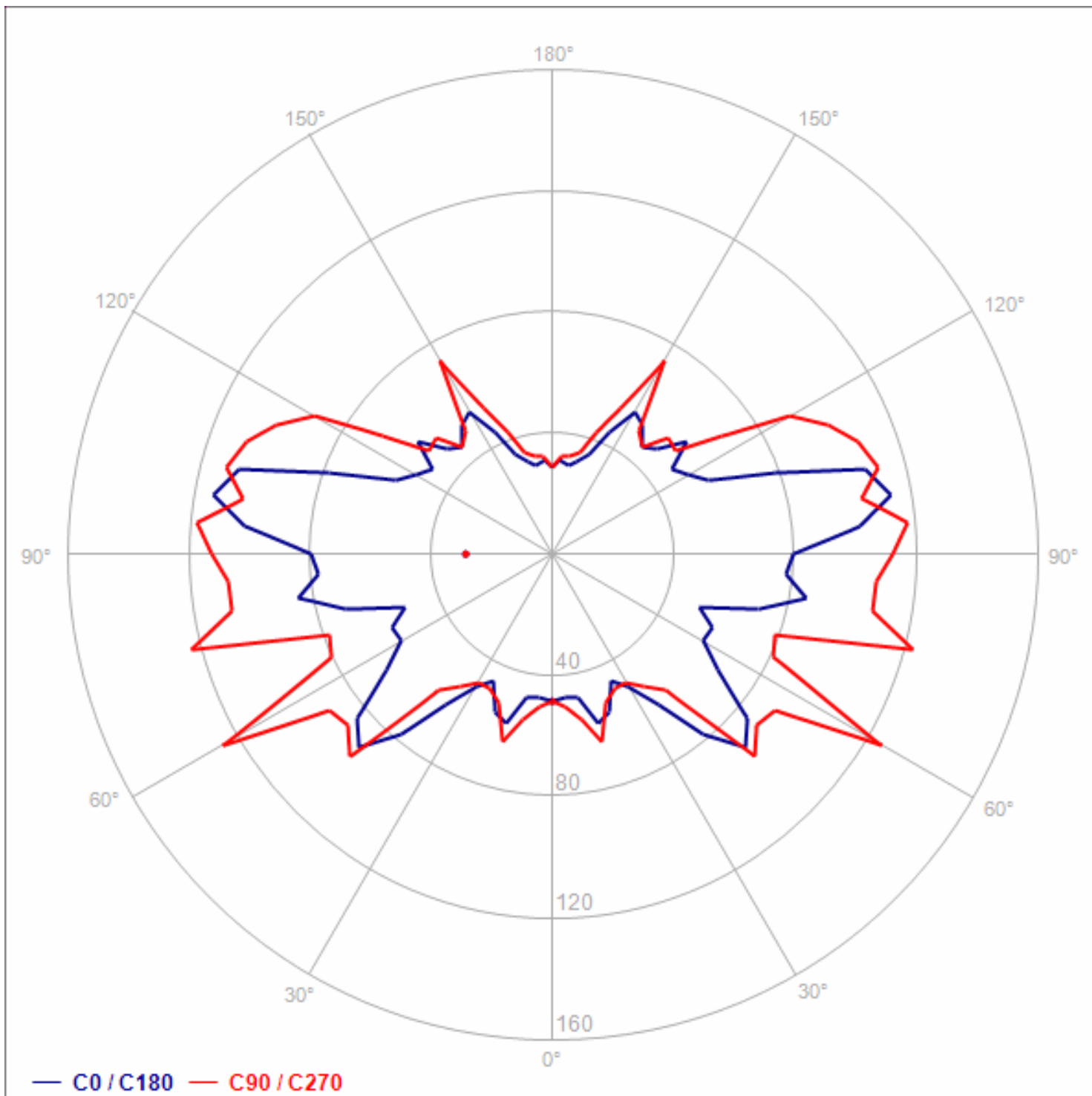
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65°	111.93	116.32	110.37	82.90	91.41	80.21	80.80	80.21	91.41	82.90	110.37	116.32
70°	69.81	59.63	73.91	61.95	70.57	87.97	78.25	87.97	70.57	61.95	73.91	59.63
75°	110.10	107.35	59.69	114.46	102.44	134.25	123.04	134.25	102.44	114.46	59.69	107.35
80°	59.69	80.76	71.89	90.74	90.58	139.20	107.68	139.20	90.58	90.74	71.89	80.76
85°	65.68	124.04	96.12	88.97	92.45	148.90	107.08	148.90	92.45	88.97	96.12	124.04
90°	72.73	87.16	143.81	149.53	104.48	151.61	112.38	151.61	104.48	149.53	143.81	87.16
95°	67.39	71.44	118.60	119.19	107.61	130.93	117.66	130.93	107.61	119.19	118.60	71.44
100°	81.90	63.44	72.30	110.69	103.13	131.19	103.76	131.19	103.13	110.69	72.30	63.44
105°	103.48	115.60	125.20	109.69	110.32	134.78	111.34	134.78	110.32	109.69	125.20	115.60
110°	94.53	103.48	111.77	125.69	128.64	127.05	107.59	127.05	128.64	125.69	111.77	103.48
115°	60.28	90.82	83.87	115.72	138.91	121.15	100.50	121.15	138.91	115.72	83.87	90.82
120°	60.30	79.07	71.75	82.26	128.85	108.76	90.72	108.76	128.85	82.26	71.75	79.07
125°	84.47	96.73	70.40	107.76	109.55	96.02	67.92	96.02	109.55	107.76	70.40	96.73
130°	88.24	84.91	102.54	117.25	98.53	84.16	53.17	84.16	98.53	117.25	102.54	84.91
135°	55.59	70.08	65.49	61.99	81.08	67.12	54.49	67.12	81.08	61.99	65.49	70.08
140°	49.74	57.28	63.97	57.28	58.18	45.87	46.03	45.87	58.18	57.28	63.97	57.28
145°	53.72	45.48	44.59	48.78	47.87	51.90	49.88	51.90	47.87	48.78	44.59	45.48
150°	69.77	54.69	59.18	62.23	51.29	66.72	73.71	66.72	51.29	62.23	59.18	54.69
155°	51.82	53.65	55.73	51.82	48.46	55.73	52.96	55.73	48.46	51.82	55.73	53.65
160°	39.78	41.10	39.21	40.55	39.96	43.77	42.45	43.77	39.96	40.55	39.21	41.10
165°	32.36	33.68	33.50	34.40	34.07	34.81	34.64	34.81	34.07	34.40	33.50	33.68
170°	31.38	31.38	31.38	32.18	32.18	32.40	32.56	32.40	32.18	32.18	31.38	31.38
175°	31.14	31.14	30.95	31.69	31.14	32.24	32.05	32.24	31.14	31.69	30.95	31.14
180°	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°
0°	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91
5°	47.62	47.81	47.26	46.50	46.50	46.50	46.50	46.50	46.50	46.50	47.26	46.50
10°	49.46	49.07	48.11	47.72	46.34	47.13	45.95	47.13	47.13	47.13	47.30	48.11
15°	58.16	56.83	56.45	55.14	55.33	54.73	54.02	54.02	55.33	54.59	55.14	56.45
20°	45.87	43.59	45.30	47.19	49.09	54.61	50.25	46.62	44.73	47.38	50.82	57.10
25°	47.32	47.52	46.60	44.32	44.18	44.18	43.38	43.38	41.88	41.88	45.10	46.24
30°	57.75	56.12	54.16	52.37	48.97	53.08	53.63	54.53	51.47	56.14	52.37	50.76
35°	59.01	49.88	55.51	55.51	49.68	64.31	70.20	70.89	52.06	58.81	49.88	55.90
40°	50.43	59.75	48.15	55.90	65.03	71.87	82.94	86.83	50.43	56.75	72.40	87.69
45°	66.59	72.61	57.93	59.05	78.31	82.37	90.58	95.35	81.23	81.43	82.00	87.46
50°	98.91	93.25	58.24	60.83	72.61	90.17	85.85	100.01	91.50	75.15	92.76	84.04
55°	96.02	55.12	52.64	68.63	74.50	93.51	81.98	78.07	65.96	56.36	67.74	79.84
60°	84.32	54.29	66.49	93.92	90.52	105.74	88.85	71.57	58.97	68.55	76.62	80.00
65°	111.93	58.36	62.03	107.27	107.98	112.87	100.32	73.62	60.28	74.03	72.46	62.60
70°	69.81	53.72	55.28	101.36	108.43	108.98	107.04	76.27	66.08	54.31	52.53	53.92
75°	110.10	62.62	80.59	101.44	99.77	100.30	108.86	75.66	63.80	56.57	78.94	99.38
80°	59.69	92.45	74.34	89.44	85.65	94.90	108.63	107.68	63.44	94.10	112.22	137.04
85°	65.68	91.68	72.20	81.86	77.03	97.43	118.25	83.20	89.17	92.05	118.05	140.57
90°	72.73	80.08	80.47	77.68	75.85	102.97	127.36	122.35	121.39	78.96	106.31	129.52
95°	67.39	94.74	84.16	96.49	127.85	82.61	70.08	91.05	67.96	109.96	93.59	91.11
100°	81.90	105.07	67.76	114.26	146.07	109.37	70.59	111.24	119.72	140.44	99.38	84.89
105°	103.48	97.41	72.50	101.30	123.88	96.81	83.61	93.33	100.91	119.98	92.21	71.89
110°	94.53	68.84	54.69	77.44	94.51	95.33	91.58	81.78	68.61	97.26	82.75	73.32
115°	60.28	69.77	53.33	58.18	79.05	87.73	108.59	128.89	103.76	65.13	62.03	58.18
120°	60.30	57.85	50.72	53.14	68.18	89.78	106.11	136.55	147.82	108.37	81.33	61.42
125°	84.47	51.03	47.48	48.91	61.34	65.80	93.00	119.31	140.65	106.51	89.44	58.16
130°	88.24	60.97	49.01	48.80	68.57	73.09	93.47	117.62	123.20	90.05	80.00	49.19
135°	55.59	49.86	50.82	47.34	46.60	65.86	70.79	85.63	86.01	67.88	64.21	48.42
140°	49.74	44.81	44.12	43.75	43.75	43.75	44.12	44.81	47.09	45.87	44.81	45.50
145°	53.72	53.51	55.73	56.63	65.76	55.18	59.54	47.66	46.77	54.98	53.51	48.40
150°	69.77	62.23	66.19	70.12	71.73	72.46	65.45	59.18	60.07	60.97	59.71	56.49

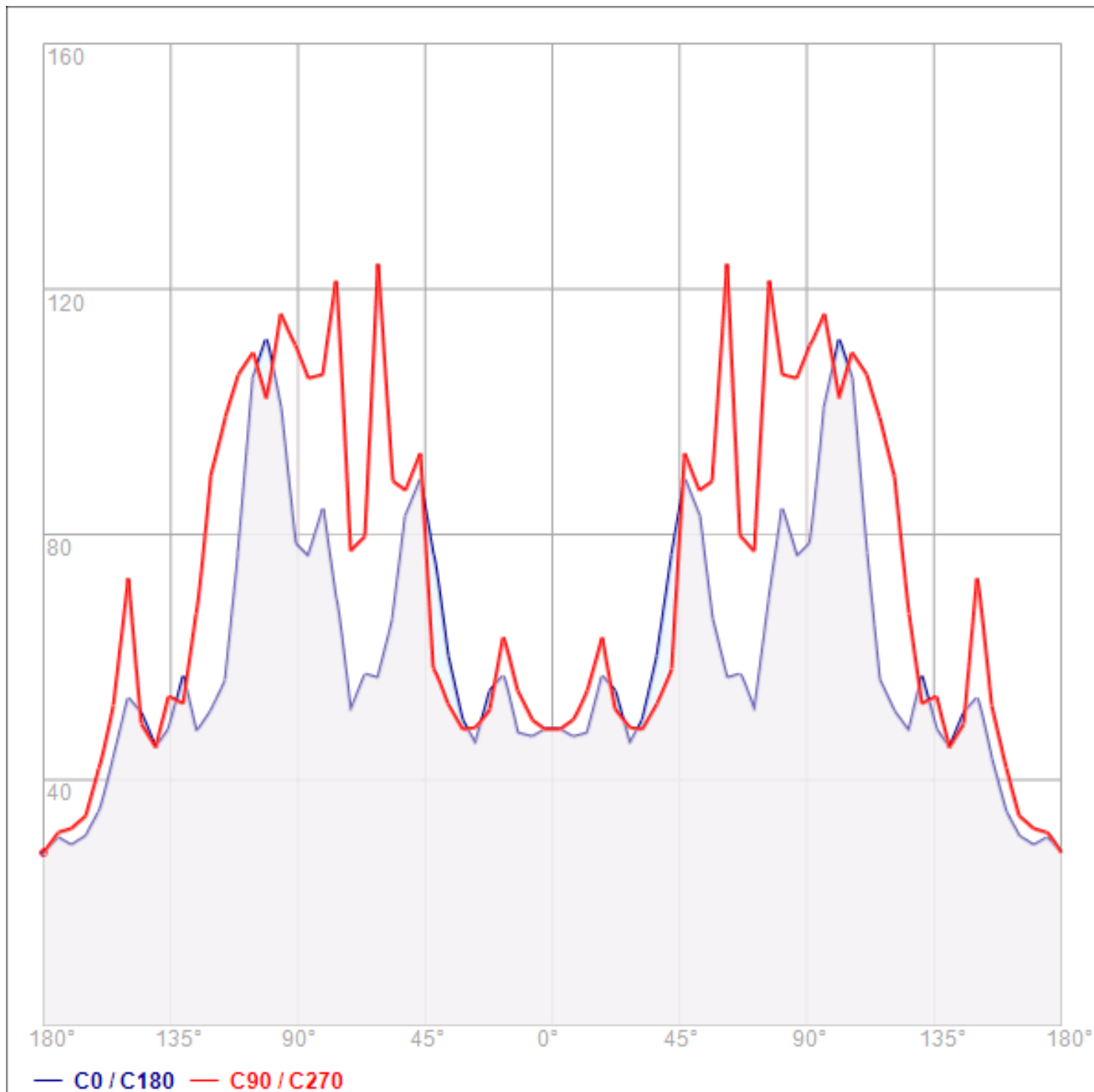
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155°	51.82	51.45	53.51	53.65	53.88	53.29	51.82	51.29	48.82	47.32	48.09	46.24
160°	39.78	39.39	38.82	38.64	38.07	37.68	37.11	36.35	35.76	35.03	37.11	37.11
165°	32.36	32.36	32.54	31.06	31.24	30.51	29.91	30.10	30.10	29.91	31.24	31.06
170°	31.38	31.61	31.22	31.22	30.04	30.83	30.83	30.04	30.26	30.83	30.04	30.04
175°	31.14	31.14	30.57	29.83	29.65	30.38	30.57	30.57	30.57	31.14	31.14	30.95
180°	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emmission Photo



Opening angle

