



## PHOTOMETRIC MEASUREMENT REPORT N°

Photometric measurement date: **15/04/2019**

Company: **Lux Lumen**

Operator: **/Ellen**

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

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

Temperature:

Relative humidity:

Air turbulence:

Stabilization time before measurement:

Regulations applied:

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

Luminaire name: **StarEyeMiniRGBW-white only**

Eulumdat reference: **StarEyeMiniRGBW-white only**

Size of luminaire (mm): **38 x 38 x 38**

Size of luminous area (mm): **32 x 32**

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

Number of lamps: **1**

Type of light source: **led**

Total luminous flux of the light source (lm): **Not available**

Output luminous flux of the lamp (lm): **58.632891579308**

Colour temperature (K): **2523**

Colour rendering index: **0**

Supply current (mA): **0**

Source power (W): **Not available**

Power consumption included source power (W): **1**

LED module efficacy (lm/W): **Not available**

System light efficacy (lm/W): **0.00**

Luminaire light efficacy (lm/W): **58.63**

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

Downward Flux Fraction (DFF): **100**

Upward Flux Fraction (UFF): **0.00**

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

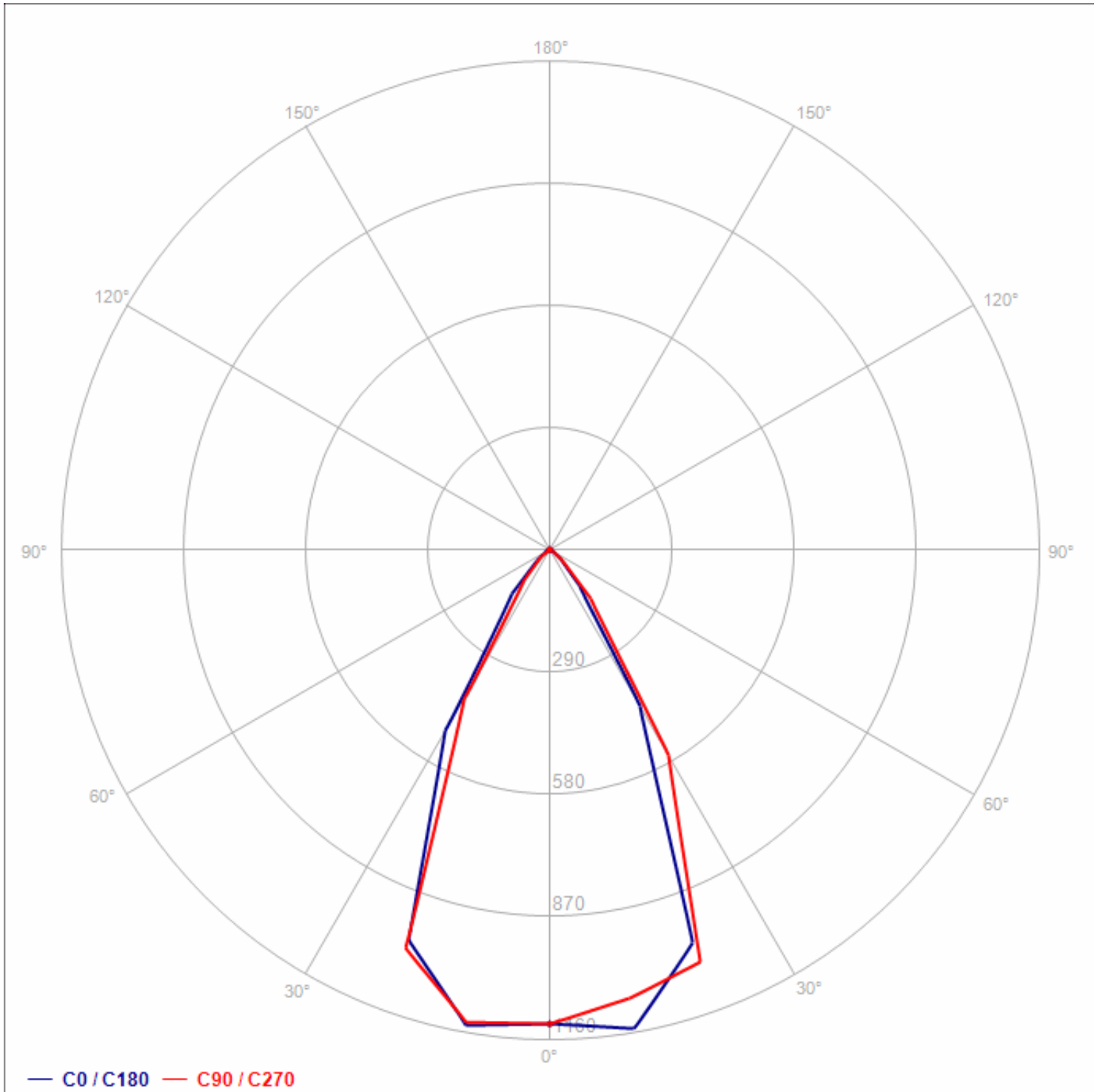
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## Luminous intensities

Gamma	C0°	C10°	C20°	C30°	C40°	C50°	C60°	C70°	C80°	C90°	C100°	C110°
0°	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84
10°	1,152.34	1,144.38	1,140.70	1,130.35	1,121.29	1,111.81	1,098.15	1,085.17	1,076.07	1,079.56	1,076.88	1,073.05
20°	993.52	991.65	997.50	1,018.72	1,011.15	1,014.51	1,014.94	1,021.02	1,028.73	1,041.00	1,058.20	1,068.93
30°	430.36	450.29	483.06	504.19	506.29	527.04	547.02	548.36	557.84	564.84	563.64	567.38
40°	112.15	112.15	123.84	125.23	134.86	138.17	144.73	148.42	148.18	154.36	165.24	166.43
50°	32.48	32.48	33.78	35.50	37.08	37.51	39.09	37.51	39.09	40.10	40.39	39.48
60°	7.33	8.82	6.66	7.33	8.82	9.15	8.53	10.40	10.40	11.59	13.41	13.41
70°	1.96	1.96	2.59	2.97	2.97	4.41	2.97	2.35	2.35	2.35	2.35	2.35
80°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90°	0.00	1.39	1.39	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gamma	C120°	C130°	C140°	C150°	C160°	C170°	C180°	C190°	C200°	C210°	C220°	C230°
0°	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84
10°	1,066.92	1,058.10	1,057.48	1,074.68	1,102.56	1,134.71	1,144.72	1,146.01	1,147.55	1,147.55	1,148.74	1,150.95
20°	1,069.98	1,037.98	1,026.67	1,008.76	990.31	982.50	983.17	991.13	999.75	1,001.23	1,009.24	1,016.13
30°	561.53	557.46	552.24	541.17	525.65	507.25	494.03	488.42	486.70	496.38	476.40	476.40
40°	165.24	152.49	149.43	146.98	143.29	140.18	138.55	125.23	122.17	114.17	112.54	109.85
50°	38.81	43.69	42.78	42.11	39.09	35.50	39.09	37.75	37.08	35.12	32.48	32.48
60°	13.41	14.09	12.22	11.02	8.53	9.15	9.15	9.15	9.15	7.33	7.33	5.46
70°	2.35	2.35	2.35	2.35	2.97	2.97	2.35	2.35	2.35	4.41	2.97	2.59
80°	0.00	1.34	0.00	1.34	1.34	0.00	1.34	1.34	1.34	1.34	0.00	0.00
90°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gamma	C240°	C250°	C260°	C270°	C280°	C290°	C300°	C310°	C320°	C330°	C340°	C350°
0°	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84	1,125.84
10°	1,151.33	1,147.64	1,142.71	1,137.63	1,136.91	1,140.84	1,142.71	1,147.26	1,151.76	1,153.34	1,151.14	1,148.84
20°	1,026.05	1,038.41	1,034.24	1,003.97	996.40	983.99	981.93	981.69	994.53	987.15	982.45	988.20
30°	460.54	445.59	428.54	406.84	386.09	370.00	364.39	357.01	358.78	369.04	398.69	409.76
40°	104.15	101.04	94.28	94.91	92.65	93.04	89.97	93.28	96.34	95.72	107.60	111.15
50°	30.76	29.46	25.49	25.87	25.49	25.87	27.45	28.79	29.18	30.76	31.19	31.19
60°	7.62	6.13	6.13	6.13	4.65	6.13	6.13	6.13	7.62	5.46	7.95	7.95
70°	1.96	1.96	1.96	2.59	2.97	2.97	2.97	2.59	1.96	1.96	2.59	1.96
80°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

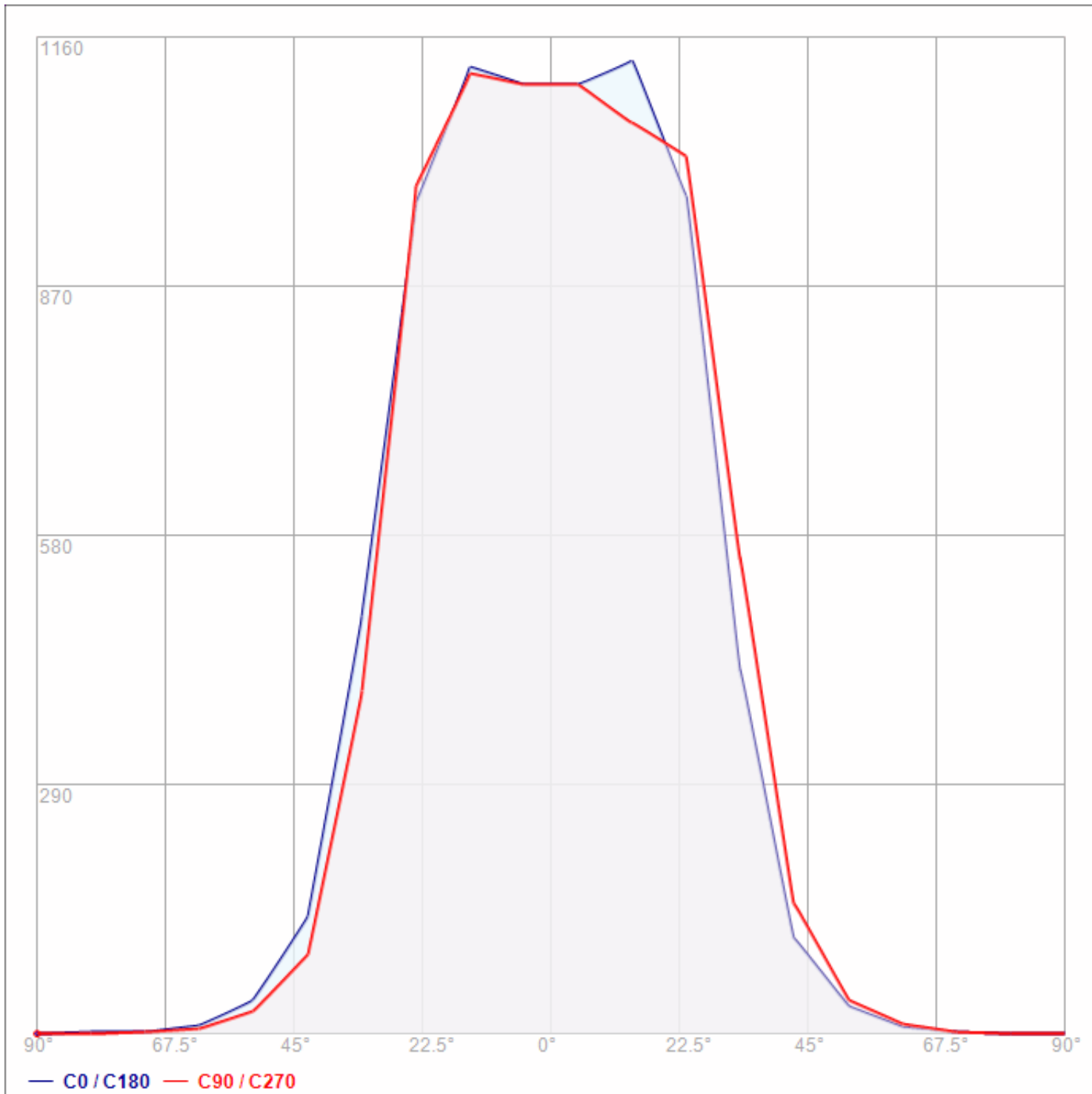
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## Photometric Polar Diagram



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## Photometric Cartesian Diagram



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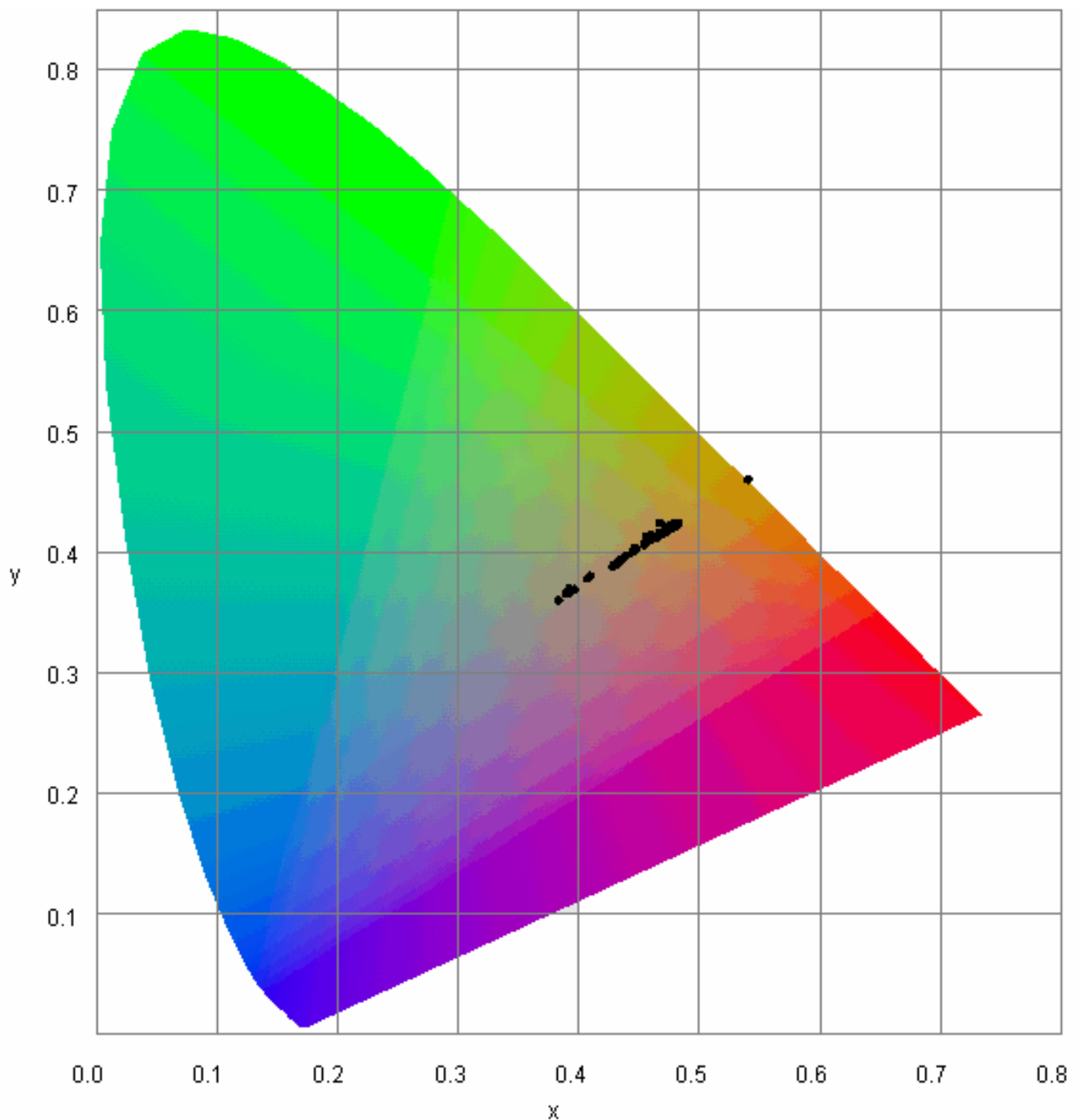
**x y**

Gamma	C0° x	C0° y	C10° x	C10° y	C20° x	C20° y	C30° x	C30° y	C40° x	C40° y	C50° x	C50° y
0°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
10°	0.478	0.421	0.478	0.421	0.478	0.421	0.478	0.420	0.478	0.421	0.478	0.421
20°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
30°	0.475	0.418	0.475	0.419	0.475	0.418	0.475	0.419	0.476	0.419	0.476	0.419
40°	0.468	0.415	0.468	0.415	0.463	0.411	0.471	0.417	0.472	0.417	0.468	0.415
50°	0.466	0.414	0.466	0.414	0.466	0.415	0.478	0.423	0.463	0.412	0.474	0.420
60°	0.435	0.393	0.391	0.365	0.446	0.401	0.435	0.393	0.391	0.365	0.431	0.390
70°	0.391	0.369	0.391	0.369	0.388	0.365	0.445	0.402	0.445	0.402	0.395	0.368
80°	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412
90°	0.455	0.412	0.408	0.379	0.408	0.379	0.408	0.379	0.455	0.412	0.455	0.412
Gamma	C60° x	C60° y	C70° x	C70° y	C80° x	C80° y	C90° x	C90° y	C100° x	C100° y	C110° x	C110° y
0°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
10°	0.478	0.421	0.478	0.421	0.479	0.421	0.478	0.421	0.478	0.421	0.479	0.421
20°	0.479	0.421	0.480	0.422	0.480	0.422	0.479	0.421	0.480	0.422	0.479	0.421
30°	0.476	0.419	0.475	0.419	0.476	0.420	0.476	0.419	0.476	0.419	0.475	0.419
40°	0.470	0.415	0.468	0.414	0.472	0.417	0.470	0.416	0.471	0.416	0.470	0.416
50°	0.460	0.410	0.474	0.420	0.460	0.410	0.474	0.420	0.460	0.410	0.471	0.417
60°	0.438	0.396	0.434	0.392	0.434	0.392	0.436	0.394	0.433	0.392	0.433	0.392
70°	0.445	0.402	0.458	0.413	0.458	0.413	0.458	0.413	0.458	0.413	0.458	0.413
80°	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412
90°	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412
Gamma	C120° x	C120° y	C130° x	C130° y	C140° x	C140° y	C150° x	C150° y	C160° x	C160° y	C170° x	C170° y
0°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
10°	0.478	0.421	0.478	0.421	0.478	0.421	0.478	0.421	0.478	0.421	0.478	0.421
20°	0.480	0.422	0.481	0.422	0.479	0.422	0.481	0.423	0.481	0.422	0.480	0.422
30°	0.475	0.419	0.476	0.419	0.476	0.419	0.477	0.420	0.477	0.420	0.477	0.420
40°	0.471	0.416	0.471	0.416	0.472	0.417	0.472	0.417	0.474	0.418	0.475	0.419
50°	0.474	0.420	0.458	0.409	0.468	0.415	0.471	0.417	0.460	0.410	0.478	0.423
60°	0.433	0.392	0.429	0.388	0.431	0.390	0.428	0.388	0.438	0.396	0.431	0.390
70°	0.458	0.413	0.458	0.413	0.458	0.413	0.458	0.413	0.445	0.402	0.445	0.402
80°	0.460	0.412	0.406	0.377	0.460	0.412	0.406	0.377	0.406	0.377	0.460	0.412
90°	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412
Gamma	C180° x	C180° y	C190° x	C190° y	C200° x	C200° y	C210° x	C210° y	C220° x	C220° y	C230° x	C230° y
0°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
10°	0.478	0.421	0.478	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
20°	0.480	0.422	0.480	0.422	0.480	0.422	0.480	0.422	0.480	0.422	0.480	0.422
30°	0.477	0.420	0.477	0.420	0.477	0.420	0.477	0.420	0.477	0.420	0.477	0.420
40°	0.472	0.417	0.471	0.417	0.472	0.417	0.476	0.420	0.472	0.417	0.477	0.421
50°	0.460	0.410	0.460	0.410	0.463	0.412	0.466	0.415	0.466	0.414	0.466	0.414
60°	0.431	0.390	0.431	0.390	0.431	0.390	0.435	0.393	0.435	0.393	0.443	0.399
70°	0.458	0.413	0.458	0.413	0.458	0.413	0.395	0.368	0.445	0.402	0.388	0.365
80°	0.406	0.377	0.406	0.377	0.406	0.377	0.406	0.377	0.460	0.412	0.460	0.412
90°	0.455	0.412	0.455	0.412	0.455	0.412	0.466	0.423	0.466	0.423	0.466	0.423
Gamma	C240° x	C240° y	C250° x	C250° y	C260° x	C260° y	C270° x	C270° y	C280° x	C280° y	C290° x	C290° y
0°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
10°	0.479	0.422	0.479	0.422	0.479	0.421	0.479	0.422	0.479	0.421	0.479	0.421
20°	0.480	0.422	0.480	0.422	0.479	0.422	0.479	0.422	0.480	0.422	0.480	0.422
30°	0.476	0.419	0.477	0.420	0.476	0.419	0.476	0.419	0.476	0.419	0.477	0.420
40°	0.469	0.415	0.471	0.416	0.475	0.419	0.473	0.418	0.470	0.416	0.475	0.419
50°	0.453	0.406	0.453	0.405	0.459	0.411	0.475	0.421	0.459	0.411	0.475	0.421
60°	0.382	0.359	0.431	0.390	0.431	0.390	0.431	0.390	0.539	0.459	0.431	0.390
70°	0.391	0.369	0.391	0.369	0.391	0.369	0.388	0.365	0.445	0.402	0.445	0.402

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80°	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412
90°	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412
Gamma	C300° x	C300° y	C310° x	C310° y	C320° x	C320° y	C330° x	C330° y	C340° x	C340° y	C350° x	C350° y
0°	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421	0.479	0.421
10°	0.479	0.421	0.479	0.421	0.478	0.421	0.479	0.421	0.478	0.421	0.479	0.422
20°	0.479	0.421	0.479	0.421	0.480	0.422	0.480	0.422	0.480	0.422	0.480	0.422
30°	0.476	0.419	0.475	0.419	0.475	0.419	0.475	0.419	0.476	0.420	0.475	0.419
40°	0.476	0.420	0.469	0.415	0.467	0.414	0.469	0.415	0.475	0.419	0.463	0.411
50°	0.456	0.408	0.456	0.408	0.470	0.417	0.453	0.406	0.466	0.414	0.466	0.414
60°	0.431	0.390	0.431	0.390	0.382	0.359	0.443	0.399	0.427	0.387	0.427	0.387
70°	0.445	0.402	0.388	0.365	0.391	0.369	0.391	0.369	0.388	0.365	0.391	0.369
80°	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412	0.460	0.412
90°	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412	0.455	0.412

**(x,y) chromaticity coordinates (CIE 1931)**



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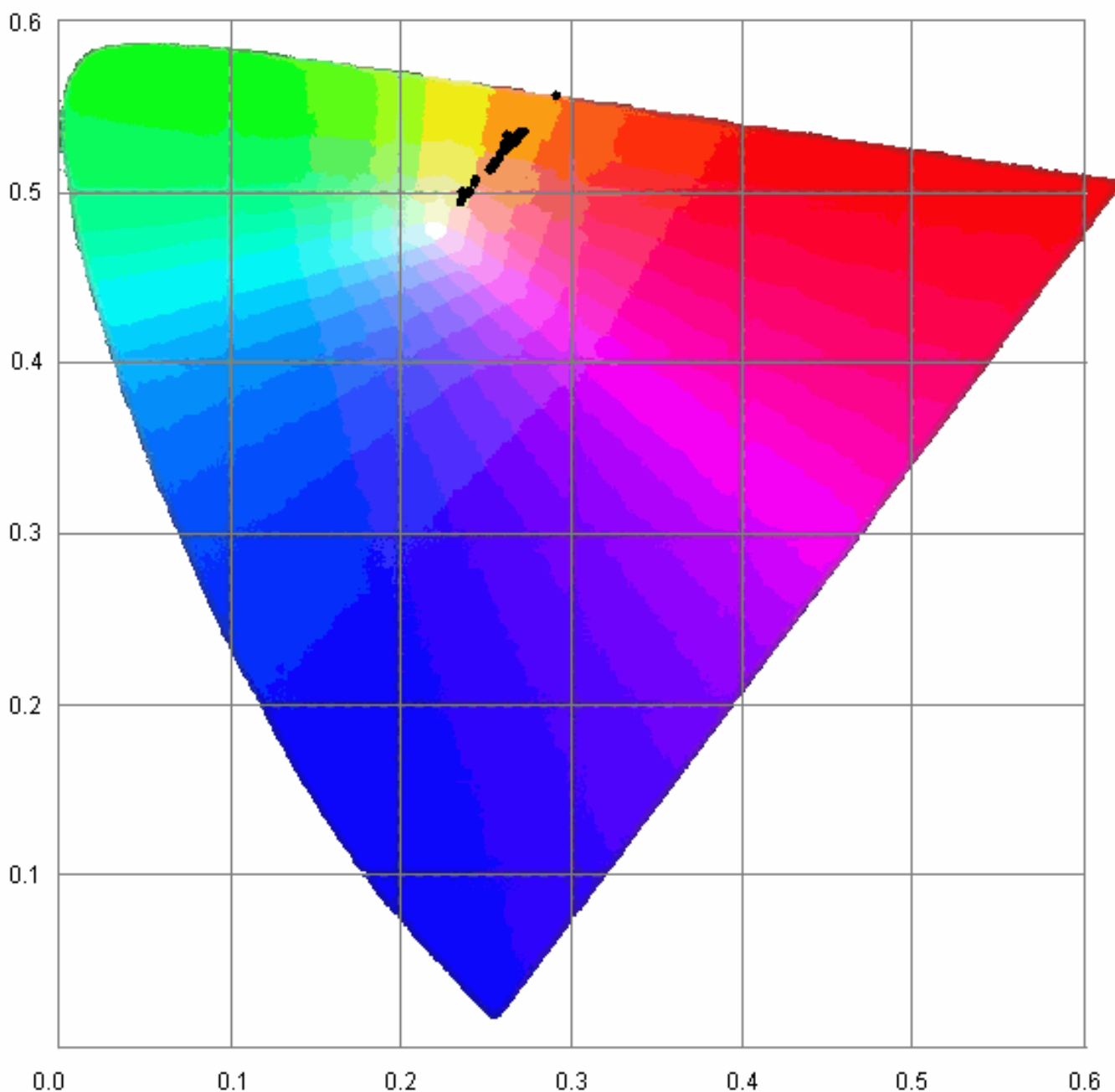
**u' v'**

Gamma	C0° u	C0° v	C10° u	C10° v	C20° u	C20° v	C30° u	C30° v	C40° u	C40° v	C50° u	C50° v
0°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
10°	0.270	0.534	0.270	0.534	0.270	0.534	0.269	0.534	0.270	0.534	0.270	0.534
20°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
30°	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533
40°	0.266	0.530	0.266	0.530	0.265	0.528	0.267	0.531	0.267	0.531	0.266	0.530
50°	0.265	0.530	0.265	0.530	0.265	0.530	0.269	0.535	0.264	0.528	0.268	0.533
60°	0.254	0.517	0.237	0.498	0.257	0.522	0.254	0.517	0.237	0.498	0.253	0.515
70°	0.235	0.500	0.235	0.500	0.235	0.497	0.257	0.522	0.257	0.522	0.239	0.500
80°	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528
90°	0.259	0.527	0.243	0.507	0.243	0.507	0.243	0.507	0.259	0.527	0.259	0.527
Gamma	C60° u	C60° v	C70° u	C70° v	C80° u	C80° v	C90° u	C90° v	C100° u	C100° v	C110° u	C110° v
0°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
10°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
20°	0.270	0.534	0.270	0.534	0.270	0.535	0.270	0.534	0.270	0.534	0.270	0.534
30°	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533
40°	0.267	0.531	0.266	0.530	0.267	0.532	0.267	0.531	0.267	0.531	0.267	0.531
50°	0.263	0.527	0.268	0.533	0.263	0.527	0.267	0.533	0.263	0.527	0.267	0.531
60°	0.255	0.518	0.254	0.516	0.254	0.516	0.254	0.517	0.253	0.516	0.253	0.516
70°	0.257	0.522	0.260	0.528	0.260	0.528	0.260	0.528	0.260	0.528	0.260	0.528
80°	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528
90°	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527
Gamma	C120° u	C120° v	C130° u	C130° v	C140° u	C140° v	C150° u	C150° v	C160° u	C160° v	C170° u	C170° v
0°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
10°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.269	0.534	0.270	0.534
20°	0.270	0.535	0.270	0.535	0.270	0.534	0.271	0.535	0.270	0.535	0.270	0.535
30°	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533
40°	0.267	0.531	0.267	0.531	0.267	0.532	0.267	0.531	0.268	0.532	0.268	0.533
50°	0.267	0.533	0.262	0.526	0.266	0.530	0.266	0.531	0.263	0.527	0.269	0.535
60°	0.253	0.516	0.252	0.514	0.253	0.515	0.252	0.513	0.255	0.518	0.253	0.515
70°	0.260	0.528	0.260	0.528	0.260	0.528	0.260	0.528	0.257	0.522	0.257	0.522
80°	0.262	0.528	0.242	0.505	0.262	0.528	0.242	0.505	0.242	0.505	0.262	0.528
90°	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527
Gamma	C180° u	C180° v	C190° u	C190° v	C200° u	C200° v	C210° u	C210° v	C220° u	C220° v	C230° u	C230° v
0°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
10°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
20°	0.270	0.535	0.270	0.535	0.270	0.535	0.270	0.535	0.270	0.535	0.270	0.535
30°	0.269	0.534	0.269	0.533	0.269	0.533	0.269	0.534	0.269	0.533	0.269	0.533
40°	0.267	0.531	0.267	0.531	0.268	0.532	0.269	0.533	0.267	0.532	0.269	0.534
50°	0.263	0.527	0.263	0.527	0.264	0.528	0.265	0.530	0.265	0.530	0.265	0.530
60°	0.253	0.515	0.253	0.515	0.253	0.515	0.254	0.517	0.254	0.517	0.257	0.520
70°	0.260	0.528	0.260	0.528	0.260	0.528	0.239	0.500	0.257	0.522	0.235	0.497
80°	0.242	0.505	0.242	0.505	0.242	0.505	0.242	0.505	0.262	0.528	0.262	0.528
90°	0.259	0.527	0.259	0.527	0.259	0.527	0.261	0.533	0.261	0.533	0.261	0.533
Gamma	C240° u	C240° v	C250° u	C250° v	C260° u	C260° v	C270° u	C270° v	C280° u	C280° v	C290° u	C290° v
0°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
10°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
20°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.535	0.270	0.535
30°	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533	0.269	0.533
40°	0.267	0.530	0.267	0.531	0.268	0.533	0.268	0.532	0.267	0.531	0.268	0.533
50°	0.260	0.524	0.260	0.524	0.262	0.527	0.267	0.533	0.262	0.527	0.267	0.533
60°	0.234	0.494	0.253	0.515	0.253	0.515	0.253	0.515	0.290	0.556	0.253	0.515
70°	0.235	0.500	0.235	0.500	0.235	0.500	0.235	0.497	0.257	0.522	0.257	0.522
80°	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528

# PHOTOMETRIC MEASUREMENT REPORT N°

90°	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527
Gamma	C300° u	C300° v	C310° u	C310° v	C320° u	C320° v	C330° u	C330° v	C340° u	C340° v	C350° u	C350° v
0°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
10°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534
20°	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.534	0.270	0.535	0.270	0.535
30°	0.269	0.533	0.269	0.533	0.268	0.533	0.269	0.533	0.269	0.533	0.269	0.533
40°	0.269	0.533	0.266	0.530	0.266	0.530	0.266	0.530	0.268	0.533	0.264	0.528
50°	0.261	0.526	0.261	0.526	0.266	0.531	0.260	0.524	0.265	0.530	0.265	0.530
60°	0.253	0.515	0.253	0.515	0.234	0.494	0.257	0.520	0.251	0.513	0.251	0.513
70°	0.257	0.522	0.235	0.497	0.235	0.500	0.235	0.500	0.235	0.497	0.235	0.500
80°	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528	0.262	0.528
90°	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527	0.259	0.527

**(u',v')** cromaticity diagram (CIE 1976)





# PHOTOMETRIC MEASUREMENT REPORT N°

## Color temperature

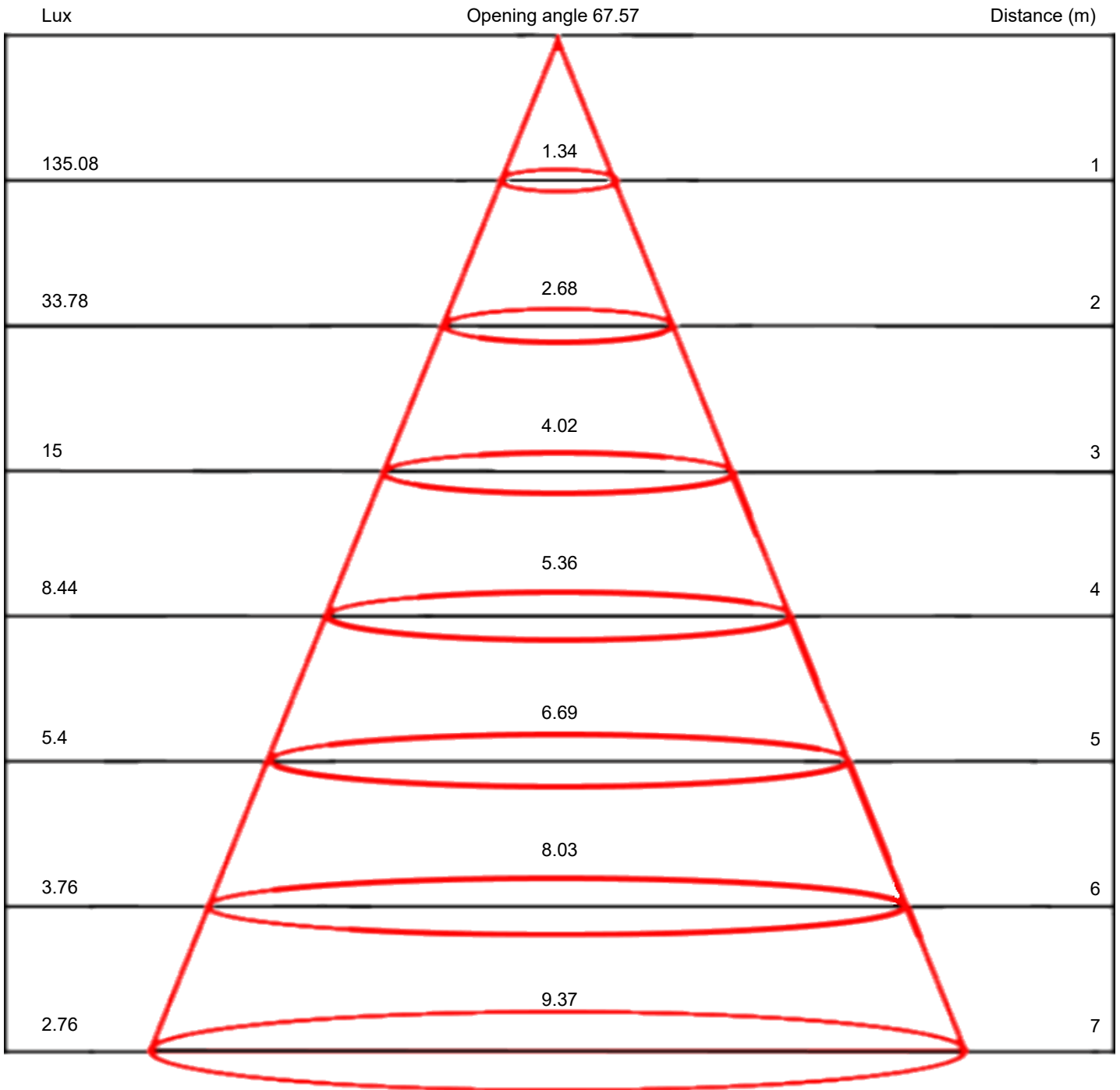
Gamma	C0°	C10°	C20°	C30°	C40°	C50°	C60°	C70°	C80°	C90°	C100°	C110°
0°	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00
10°	2536.00	2536.00	2536.00	2528.00	2536.00	2536.00	2536.00	2536.00	2523.00	2536.00	2536.00	2523.00
20°	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2519.00	2519.00	2523.00	2519.00	2523.00
30°	2550.00	2558.00	2550.00	2558.00	2546.00	2546.00	2546.00	2558.00	2553.00	2546.00	2546.00	2558.00
40°	2619.00	2619.00	2656.00	2595.00	2582.00	2619.00	2592.00	2611.00	2582.00	2600.00	2587.00	2600.00
50°	2638.00	2638.00	2646.00	2551.00	2664.00	2579.00	2690.00	2579.00	2690.00	2579.00	2690.00	2595.00
60°	2945.00	3640.00	2828.00	2945.00	3640.00	2990.00	2918.00	2953.00	2953.00	2936.00	2971.00	2971.00
70°	3674.00	3674.00	3719.00	2853.00	2853.00	3564.00	2853.00	2744.00	2744.00	2744.00	2744.00	2744.00
80°	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00
90°	2780.00	3354.00	3354.00	3354.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00
Gamma	C120°	C130°	C140°	C150°	C160°	C170°	C180°	C190°	C200°	C210°	C220°	C230°
0°	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00
10°	2536.00	2536.00	2536.00	2536.00	2536.00	2536.00	2536.00	2536.00	2523.00	2523.00	2523.00	2523.00
20°	2519.00	2506.00	2531.00	2514.00	2506.00	2519.00	2519.00	2519.00	2519.00	2519.00	2519.00	2519.00
30°	2558.00	2546.00	2546.00	2541.00	2541.00	2541.00	2541.00	2541.00	2541.00	2541.00	2541.00	2541.00
40°	2587.00	2587.00	2582.00	2582.00	2563.00	2558.00	2582.00	2595.00	2582.00	2553.00	2582.00	2549.00
50°	2579.00	2711.00	2619.00	2595.00	2690.00	2551.00	2690.00	2690.00	2664.00	2646.00	2638.00	2638.00
60°	2971.00	3009.00	2990.00	3027.00	2918.00	2990.00	2990.00	2990.00	2990.00	2945.00	2945.00	2860.00
70°	2744.00	2744.00	2744.00	2744.00	2853.00	2853.00	2744.00	2744.00	2744.00	3564.00	2853.00	3719.00
80°	2707.00	3382.00	2707.00	3382.00	3382.00	2707.00	3382.00	3382.00	3382.00	3382.00	2707.00	2707.00
90°	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2710.00	2710.00	2710.00
Gamma	C240°	C250°	C260°	C270°	C280°	C290°	C300°	C310°	C320°	C330°	C340°	C350°
0°	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00	2523.00
10°	2531.00	2531.00	2523.00	2531.00	2523.00	2523.00	2523.00	2523.00	2536.00	2523.00	2536.00	2531.00
20°	2519.00	2519.00	2531.00	2531.00	2519.00	2519.00	2523.00	2523.00	2519.00	2519.00	2519.00	2519.00
30°	2546.00	2541.00	2546.00	2546.00	2546.00	2541.00	2546.00	2558.00	2558.00	2558.00	2553.00	2558.00
40°	2606.00	2587.00	2558.00	2576.00	2600.00	2558.00	2553.00	2606.00	2625.00	2606.00	2558.00	2656.00
50°	2761.00	2753.00	2713.00	2574.00	2713.00	2574.00	2732.00	2732.00	2608.00	2761.00	2638.00	2638.00
60°	3834.00	2990.00	2990.00	2990.00	2179.00	2990.00	2990.00	2990.00	3834.00	2860.00	3037.00	3037.00
70°	3674.00	3674.00	3674.00	3719.00	2853.00	2853.00	2853.00	3719.00	3674.00	3674.00	3719.00	3674.00
80°	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00	2707.00
90°	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00	2780.00

**Light Emmission Photo**



# PHOTOMETRIC MEASUREMENT REPORT N°

## Opening angle



# PHOTOMETRIC MEASUREMENT REPORT N°

## Glare Evaluation According to UGR

Room Size		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
x	y										
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Working plane		20	20	20	20	20	20	20	20	20	20
2H	2H	11.49	12.30	11.49	12.30	12.30	13.71	14.52	13.71	14.52	14.52
	3H	12.65	13.13	12.65	13.13	13.14	14.52	15.09	14.49	15.09	15.09
	4H	12.67	13.15	12.67	13.15	13.15	14.53	15.12	14.53	15.12	15.12
	6H	12.72	13.19	12.72	13.19	13.19	14.56	15.14	14.56	15.14	15.14
	8H	12.73	13.19	12.73	13.19	13.19	14.56	15.14	14.56	15.14	15.14
	12H	12.73	13.19	12.73	13.19	13.19	14.56	15.14	14.56	15.14	15.14
4H	2H	12.31	12.90	12.31	12.90	12.90	14.89	15.37	14.89	15.37	15.37
	3H	13.86	13.92	13.86	13.92	13.92	16.09	16.12	16.05	16.12	16.12
	4H	13.89	13.94	13.89	13.94	13.94	16.11	16.16	16.11	16.16	16.16
	6H	13.96	13.99	13.96	13.99	13.99	16.15	16.19	16.15	16.19	16.19
	8H	13.97	13.99	13.97	13.99	13.99	16.16	16.19	16.16	16.19	16.19
	12H	13.97	13.99	13.97	13.99	13.99	16.16	16.19	16.16	16.19	16.19
8H	4H	13.94	13.97	13.94	13.97	13.97	16.19	16.21	16.19	16.21	16.21
	6H	14.01	14.02	14.01	14.02	14.02	16.23	16.24	16.23	16.24	16.24
	8H	14.02	14.02	14.02	14.02	14.02	16.24	16.24	16.24	16.24	16.24
	12H	14.02	14.02	14.02	14.02	14.02	16.24	16.24	16.24	16.24	16.24
12H	4H	13.94	13.97	13.94	13.97	13.97	16.19	16.21	16.19	16.21	16.21
	6H	14.01	14.02	14.01	14.02	14.02	16.23	16.24	16.23	16.24	16.24
	8H	14.02	14.02	14.02	14.02	14.02	16.24	16.24	16.24	16.24	16.24