



PHOTOMETRIC MEASUREMENT REPORT N° StarThrow

Photometric measurement date: **18/06/2019**

Company: **Lux Lumen**

Operator: **/Ellen**

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

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

Temperature: **26**

Relative humidity: **42**

Air turbulence:

Stabilization time before measurement:

Regulations applied:

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

Luminaire name: **longthrowB-190618**

Eulumdat reference: **longthrowB-190618_b**

Size of luminaire (mm): **30 x 200 x 15**

Size of luminous area (mm): **18 x 20**

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): **117.708526942556**

Colour temperature (K): **3019**

Colour rendering index: **0**

Supply current (mA): **10**

Source power (W): **2**

Power consumption included source power (W): **2**

LED module efficacy (lm/W): **0.00**

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

Luminaire light efficacy (lm/W): **58.85**

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**

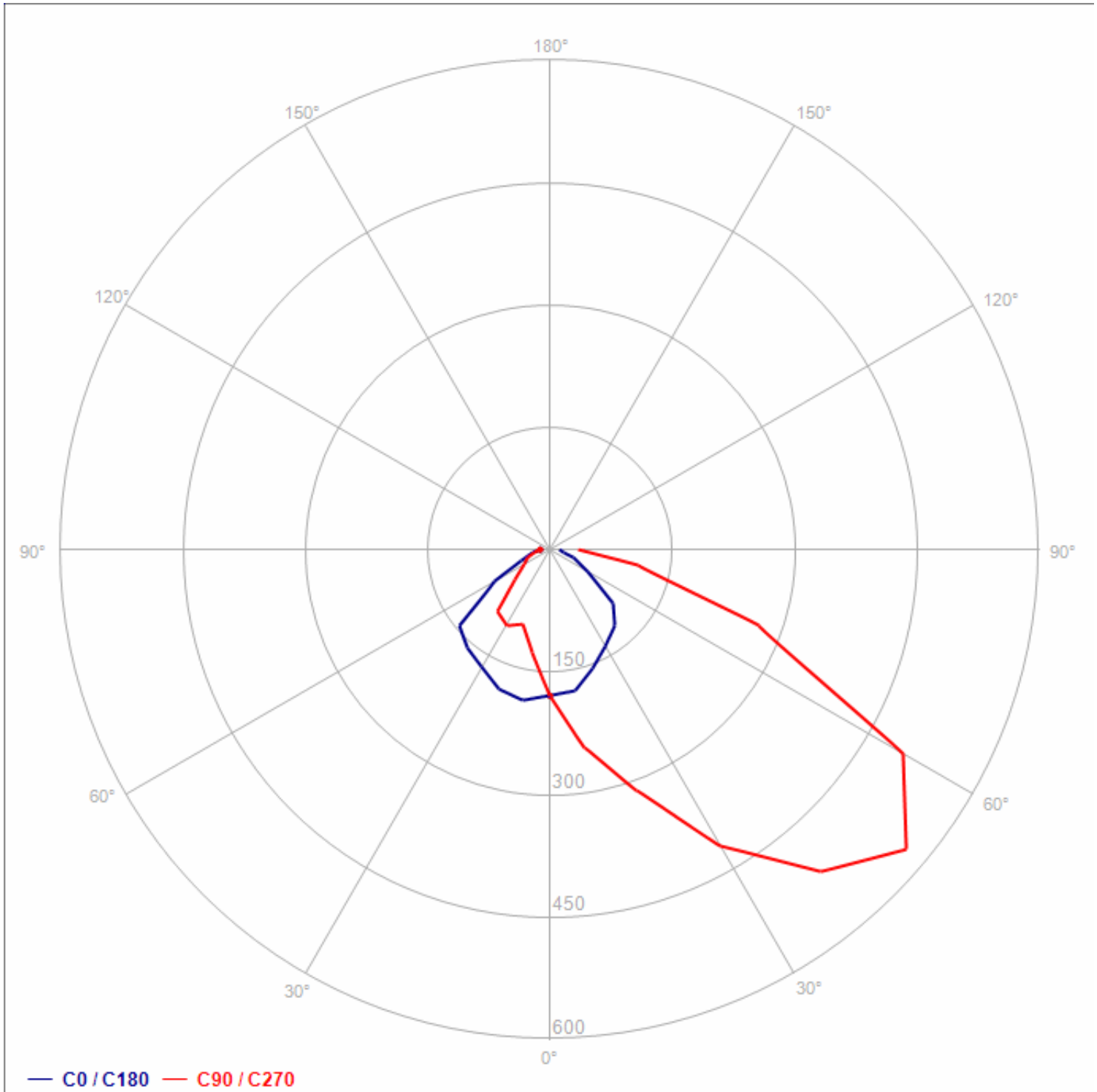
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Luminous intensities

Gamma	C0°	C10°	C20°	C30°	C40°	C50°	C60°	C70°	C80°	C90°	C100°	C110°
0°	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98
10°	176.07	186.97	197.90	207.90	217.57	226.99	235.06	241.79	244.94	247.18	246.25	243.56
20°	155.59	175.19	197.71	222.56	245.58	267.47	284.84	299.52	309.87	315.32	316.27	310.30
30°	136.17	164.59	195.61	231.27	270.69	311.45	349.32	382.47	407.60	420.25	420.72	406.69
40°	122.92	156.05	194.42	240.74	297.18	352.30	408.36	460.53	498.88	516.16	517.28	498.26
50°	102.73	145.64	196.09	252.53	307.82	363.57	424.14	492.79	547.82	571.11	573.21	554.65
60°	54.82	86.24	132.78	207.19	294.41	385.57	477.66	542.67	529.76	501.26	524.94	588.27
70°	30.04	40.64	56.80	91.35	173.11	307.49	432.08	462.20	348.03	273.46	308.42	442.58
80°	18.64	21.60	29.52	46.70	79.01	136.69	211.55	193.23	137.86	109.77	123.19	183.13
90°	12.43	13.89	16.54	25.92	36.37	48.52	63.29	64.74	47.75	35.89	41.00	61.52
Gamma	C120°	C130°	C140°	C150°	C160°	C170°	C180°	C190°	C200°	C210°	C220°	C230°
0°	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98
10°	238.62	232.96	225.49	216.66	207.26	197.86	187.83	178.26	168.84	161.08	151.94	144.45
20°	298.87	284.01	265.87	245.56	223.99	202.63	181.68	161.65	143.21	128.03	114.40	105.19
30°	379.53	346.60	309.49	272.48	236.25	200.31	167.00	136.55	110.56	93.93	86.58	88.92
40°	464.73	413.16	358.46	302.50	249.55	200.86	158.31	119.56	86.32	71.28	72.52	86.94
50°	515.87	459.84	405.50	347.79	277.59	205.35	144.26	95.36	63.31	53.12	64.60	91.42
60°	593.74	538.30	448.24	333.02	214.23	128.96	79.42	50.57	34.56	33.34	45.08	72.31
70°	550.14	482.82	328.82	165.81	87.06	55.63	38.28	27.68	23.89	24.29	27.68	34.56
80°	260.02	237.90	137.89	78.92	43.77	26.37	21.69	18.64	17.66	18.64	19.95	23.22
90°	80.59	68.85	51.74	37.54	21.81	13.60	11.67	11.55	13.13	13.03	14.49	15.08
Gamma	C240°	C250°	C260°	C270°	C280°	C290°	C300°	C310°	C320°	C330°	C340°	C350°
0°	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98	178.98
10°	138.48	132.95	129.65	127.89	127.89	127.74	130.75	134.78	140.75	148.08	157.22	165.88
20°	101.11	99.87	99.23	97.87	97.03	95.79	94.84	95.79	99.87	107.51	120.70	137.15
30°	95.58	101.66	105.24	106.70	104.83	101.09	93.83	83.88	77.22	79.06	91.23	111.92
40°	102.88	107.48	104.41	100.01	98.58	99.08	97.99	84.98	70.06	61.07	68.23	91.73
50°	100.92	81.16	63.07	56.51	54.74	61.64	77.61	82.88	65.15	49.52	48.06	67.44
60°	77.58	56.44	41.52	36.34	37.42	42.76	56.01	62.57	46.58	34.58	30.19	36.25
70°	40.45	38.09	33.10	29.38	29.57	33.10	34.44	33.10	28.40	23.58	21.53	23.72
80°	26.15	27.56	24.63	19.09	20.71	25.94	25.51	22.91	20.62	19.40	17.66	17.99
90°	15.65	15.65	14.49	12.15	13.03	15.77	16.54	15.65	15.08	14.49	13.89	13.03

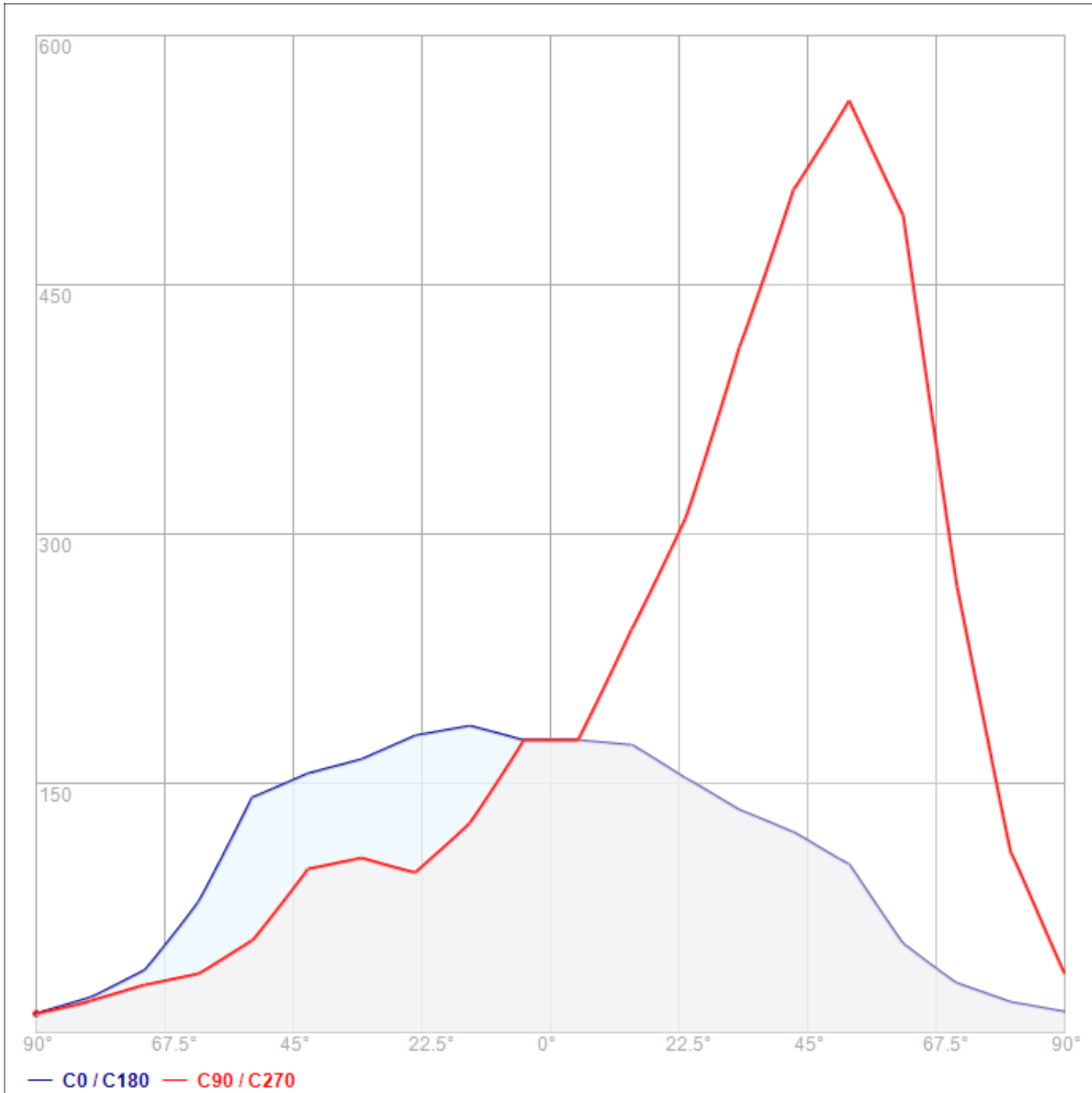
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Photometric Polar Diagram



PHOTOMETRIC MEASUREMENT REPORT N° StarThrow

Photometric Cartesian Diagram



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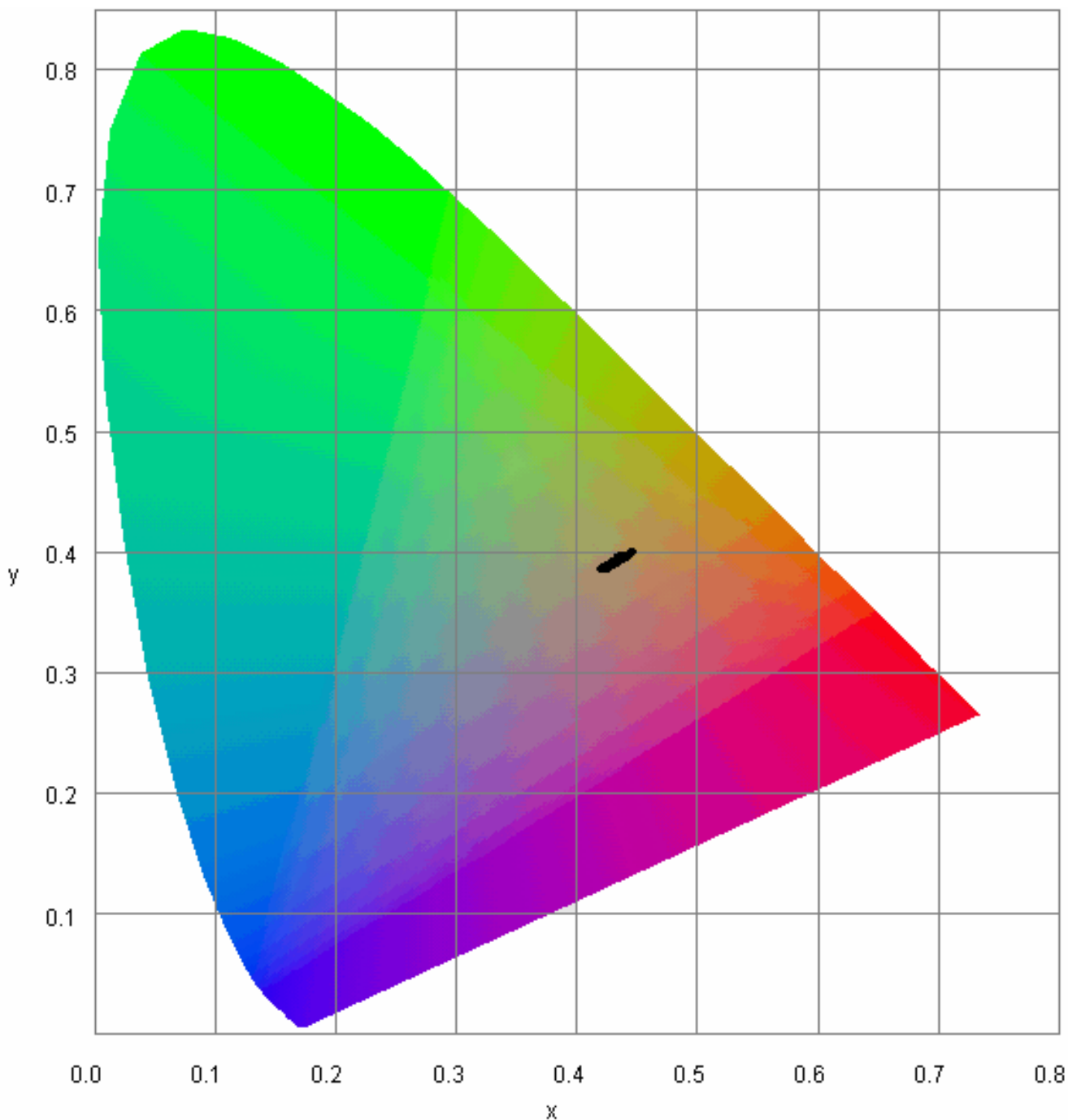
x y

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°	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390
10°	0.432	0.392	0.431	0.392	0.431	0.391	0.430	0.391	0.430	0.391	0.430	0.391
20°	0.431	0.391	0.432	0.392	0.431	0.392	0.430	0.391	0.431	0.391	0.431	0.391
30°	0.431	0.391	0.430	0.390	0.430	0.390	0.430	0.390	0.431	0.391	0.430	0.390
40°	0.431	0.390	0.433	0.392	0.431	0.390	0.433	0.392	0.432	0.391	0.432	0.391
50°	0.435	0.393	0.437	0.394	0.438	0.395	0.436	0.394	0.436	0.393	0.436	0.393
60°	0.432	0.392	0.431	0.391	0.436	0.394	0.438	0.395	0.437	0.395	0.436	0.394
70°	0.433	0.393	0.434	0.393	0.434	0.393	0.437	0.395	0.438	0.395	0.438	0.395
80°	0.435	0.394	0.436	0.395	0.429	0.390	0.436	0.395	0.437	0.394	0.439	0.396
90°	0.432	0.393	0.432	0.393	0.433	0.394	0.432	0.392	0.438	0.396	0.434	0.393
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°	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390
10°	0.430	0.391	0.430	0.391	0.431	0.392	0.430	0.391	0.430	0.391	0.430	0.391
20°	0.431	0.391	0.431	0.391	0.431	0.392	0.431	0.391	0.431	0.391	0.431	0.391
30°	0.431	0.391	0.430	0.391	0.430	0.391	0.430	0.390	0.431	0.391	0.431	0.391
40°	0.432	0.391	0.432	0.391	0.432	0.391	0.432	0.391	0.432	0.391	0.432	0.391
50°	0.434	0.393	0.434	0.392	0.434	0.393	0.434	0.393	0.434	0.393	0.433	0.392
60°	0.436	0.394	0.436	0.394	0.435	0.393	0.434	0.393	0.435	0.393	0.435	0.394
70°	0.439	0.395	0.438	0.395	0.434	0.393	0.434	0.393	0.434	0.393	0.436	0.394
80°	0.437	0.395	0.436	0.394	0.434	0.393	0.433	0.393	0.434	0.393	0.433	0.392
90°	0.431	0.391	0.431	0.391	0.430	0.391	0.434	0.394	0.431	0.392	0.432	0.392
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°	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390
10°	0.431	0.391	0.430	0.391	0.430	0.391	0.430	0.391	0.431	0.391	0.431	0.392
20°	0.431	0.391	0.431	0.391	0.431	0.392	0.432	0.392	0.432	0.392	0.430	0.391
30°	0.431	0.391	0.430	0.391	0.430	0.390	0.431	0.391	0.430	0.391	0.430	0.390
40°	0.432	0.391	0.432	0.392	0.431	0.391	0.432	0.392	0.432	0.391	0.432	0.391
50°	0.434	0.392	0.434	0.392	0.435	0.393	0.436	0.393	0.436	0.394	0.435	0.393
60°	0.435	0.393	0.435	0.394	0.435	0.394	0.436	0.394	0.435	0.394	0.434	0.393
70°	0.438	0.395	0.438	0.395	0.437	0.394	0.435	0.393	0.435	0.393	0.434	0.393
80°	0.435	0.393	0.436	0.394	0.436	0.394	0.440	0.396	0.436	0.394	0.444	0.399
90°	0.432	0.392	0.431	0.391	0.434	0.393	0.437	0.395	0.432	0.392	0.433	0.395
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°	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390
10°	0.431	0.392	0.431	0.391	0.431	0.392	0.430	0.391	0.431	0.392	0.431	0.391
20°	0.430	0.391	0.431	0.392	0.432	0.392	0.432	0.392	0.432	0.392	0.433	0.393
30°	0.430	0.390	0.431	0.391	0.430	0.390	0.429	0.390	0.430	0.390	0.430	0.390
40°	0.432	0.391	0.431	0.391	0.431	0.391	0.429	0.389	0.430	0.390	0.431	0.391
50°	0.434	0.392	0.437	0.395	0.434	0.393	0.433	0.393	0.434	0.393	0.437	0.395
60°	0.433	0.392	0.432	0.391	0.426	0.388	0.425	0.387	0.432	0.392	0.436	0.394
70°	0.434	0.393	0.434	0.393	0.432	0.392	0.426	0.388	0.434	0.393	0.429	0.390
80°	0.426	0.388	0.435	0.394	0.435	0.395	0.435	0.394	0.436	0.395	0.436	0.394
90°	0.419	0.385	0.433	0.395	0.420	0.386	0.432	0.394	0.432	0.394	0.433	0.394
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°	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390
10°	0.430	0.391	0.431	0.392	0.431	0.391	0.430	0.391	0.430	0.391	0.432	0.392
20°	0.432	0.392	0.432	0.392	0.431	0.391	0.433	0.393	0.431	0.391	0.431	0.391
30°	0.431	0.391	0.432	0.391	0.431	0.391	0.431	0.391	0.433	0.392	0.432	0.391
40°	0.432	0.392	0.433	0.392	0.433	0.392	0.436	0.394	0.433	0.392	0.435	0.393
50°	0.438	0.395	0.433	0.392	0.432	0.392	0.431	0.391	0.435	0.394	0.435	0.394
60°	0.434	0.393	0.430	0.390	0.429	0.390	0.428	0.389	0.422	0.385	0.428	0.389
70°	0.430	0.390	0.430	0.390	0.429	0.390	0.423	0.386	0.428	0.390	0.429	0.390

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80°	0.436	0.395	0.430	0.391	0.428	0.390	0.426	0.389	0.427	0.389	0.429	0.391
90°	0.433	0.395	0.433	0.395	0.432	0.394	0.433	0.395	0.432	0.394	0.423	0.387
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°	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390	0.429	0.390
10°	0.432	0.392	0.431	0.391	0.432	0.392	0.431	0.391	0.430	0.391	0.431	0.391
20°	0.431	0.391	0.431	0.391	0.432	0.392	0.431	0.391	0.432	0.392	0.432	0.392
30°	0.430	0.390	0.431	0.391	0.429	0.390	0.427	0.388	0.430	0.390	0.431	0.391
40°	0.432	0.391	0.433	0.392	0.429	0.389	0.431	0.391	0.429	0.390	0.433	0.392
50°	0.438	0.396	0.437	0.395	0.437	0.395	0.433	0.392	0.437	0.395	0.437	0.395
60°	0.433	0.392	0.437	0.394	0.432	0.392	0.424	0.386	0.430	0.390	0.432	0.392
70°	0.435	0.394	0.429	0.390	0.427	0.389	0.433	0.393	0.433	0.393	0.425	0.387
80°	0.436	0.395	0.437	0.395	0.437	0.395	0.425	0.388	0.435	0.395	0.434	0.393
90°	0.433	0.394	0.433	0.395	0.433	0.394	0.432	0.394	0.432	0.393	0.432	0.394

(x,y) chromaticity coordinates (CIE 1931)



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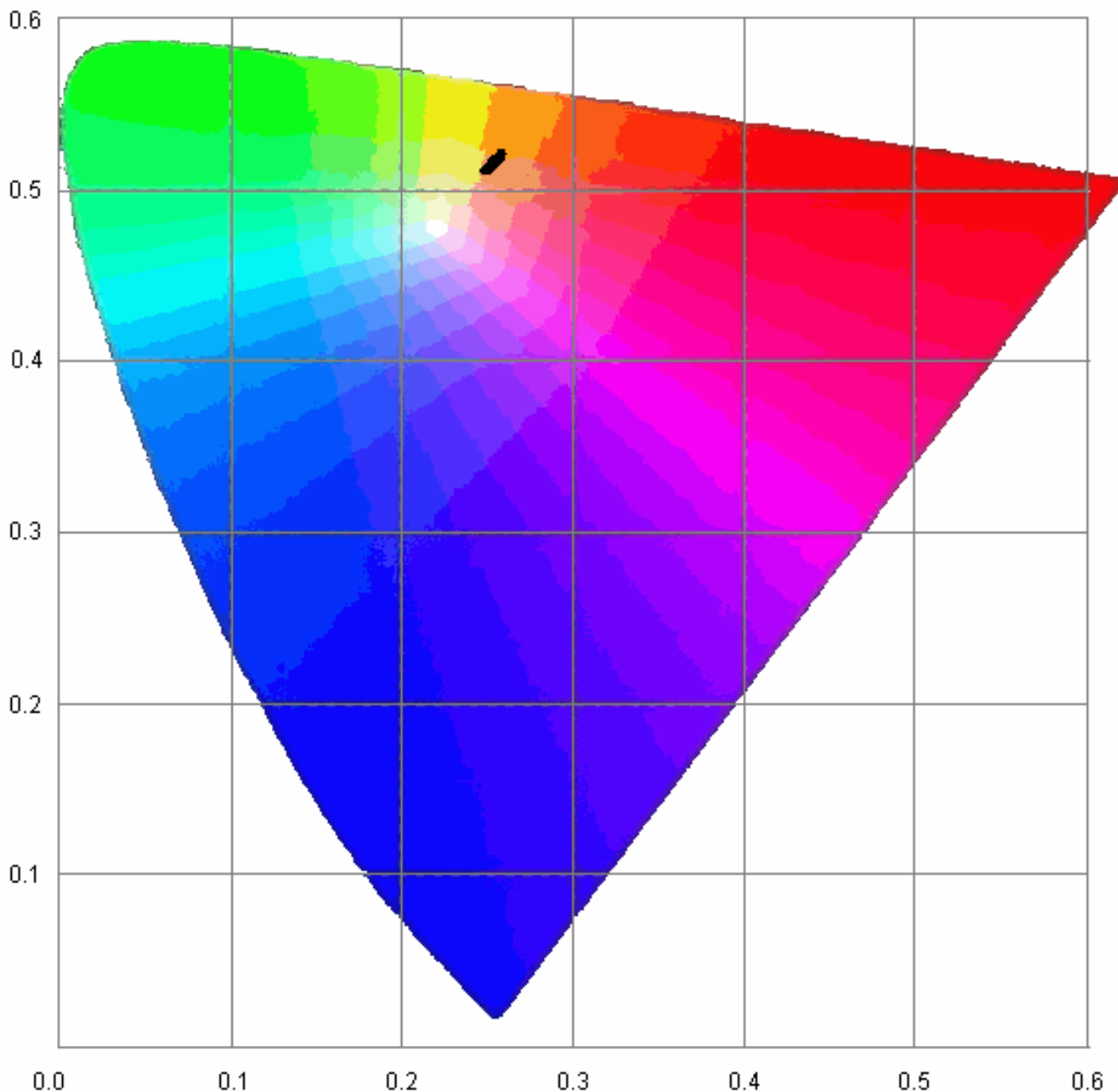
u' v'

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°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
10°	0.252	0.516	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
20°	0.252	0.515	0.253	0.516	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
30°	0.253	0.515	0.252	0.515	0.252	0.514	0.252	0.515	0.252	0.515	0.252	0.515
40°	0.253	0.515	0.253	0.516	0.253	0.515	0.253	0.516	0.253	0.516	0.253	0.516
50°	0.254	0.516	0.255	0.517	0.255	0.518	0.255	0.517	0.255	0.517	0.254	0.517
60°	0.253	0.516	0.252	0.515	0.254	0.517	0.255	0.518	0.255	0.518	0.254	0.517
70°	0.253	0.516	0.254	0.516	0.254	0.517	0.255	0.518	0.255	0.518	0.255	0.518
80°	0.254	0.517	0.254	0.517	0.252	0.514	0.254	0.518	0.255	0.517	0.255	0.518
90°	0.252	0.516	0.252	0.516	0.252	0.517	0.253	0.516	0.255	0.518	0.253	0.517
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°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
10°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
20°	0.252	0.515	0.252	0.515	0.252	0.516	0.252	0.515	0.252	0.515	0.252	0.515
30°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
40°	0.253	0.516	0.253	0.515	0.253	0.515	0.253	0.515	0.253	0.516	0.253	0.515
50°	0.254	0.516	0.254	0.516	0.254	0.516	0.254	0.517	0.254	0.516	0.253	0.516
60°	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.517
70°	0.256	0.518	0.255	0.518	0.254	0.516	0.253	0.516	0.254	0.516	0.254	0.517
80°	0.255	0.518	0.254	0.517	0.254	0.517	0.253	0.516	0.254	0.517	0.253	0.516
90°	0.252	0.515	0.252	0.515	0.252	0.515	0.253	0.517	0.252	0.515	0.253	0.516
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°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
10°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
20°	0.252	0.515	0.252	0.515	0.252	0.516	0.252	0.516	0.253	0.516	0.252	0.515
30°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
40°	0.253	0.515	0.253	0.516	0.253	0.515	0.253	0.516	0.253	0.516	0.253	0.515
50°	0.254	0.516	0.254	0.516	0.254	0.517	0.254	0.517	0.255	0.517	0.254	0.517
60°	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.516
70°	0.255	0.518	0.255	0.518	0.255	0.518	0.254	0.517	0.254	0.517	0.254	0.516
80°	0.254	0.517	0.254	0.517	0.254	0.517	0.256	0.519	0.254	0.517	0.257	0.521
90°	0.253	0.516	0.253	0.515	0.253	0.516	0.255	0.518	0.252	0.516	0.252	0.517
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°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
10°	0.252	0.516	0.252	0.515	0.252	0.516	0.252	0.515	0.252	0.516	0.252	0.515
20°	0.252	0.515	0.252	0.515	0.253	0.516	0.253	0.516	0.253	0.516	0.253	0.516
30°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.514	0.252	0.515	0.252	0.515
40°	0.253	0.515	0.253	0.515	0.253	0.515	0.252	0.514	0.252	0.515	0.253	0.515
50°	0.254	0.516	0.255	0.518	0.254	0.516	0.253	0.516	0.254	0.517	0.255	0.518
60°	0.253	0.516	0.253	0.515	0.251	0.513	0.250	0.513	0.253	0.516	0.254	0.517
70°	0.254	0.517	0.253	0.517	0.253	0.516	0.250	0.513	0.253	0.517	0.252	0.515
80°	0.251	0.513	0.254	0.517	0.254	0.517	0.254	0.517	0.254	0.518	0.254	0.517
90°	0.247	0.511	0.252	0.517	0.248	0.511	0.252	0.517	0.252	0.516	0.252	0.517
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°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
10°	0.252	0.515	0.252	0.516	0.252	0.515	0.252	0.515	0.252	0.515	0.253	0.516
20°	0.253	0.516	0.253	0.516	0.252	0.515	0.253	0.516	0.252	0.515	0.252	0.515
30°	0.253	0.515	0.253	0.516	0.252	0.515	0.253	0.515	0.253	0.516	0.253	0.515
40°	0.253	0.516	0.253	0.516	0.253	0.516	0.254	0.517	0.253	0.516	0.254	0.517
50°	0.255	0.518	0.253	0.516	0.253	0.516	0.252	0.515	0.254	0.517	0.254	0.517
60°	0.254	0.516	0.252	0.515	0.251	0.514	0.251	0.514	0.249	0.511	0.251	0.514
70°	0.252	0.515	0.252	0.515	0.252	0.515	0.249	0.512	0.251	0.514	0.252	0.515
80°	0.254	0.518	0.252	0.515	0.251	0.514	0.250	0.514	0.251	0.514	0.252	0.515

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90°	0.252	0.517	0.252	0.517	0.252	0.516	0.252	0.517	0.252	0.517	0.249	0.512
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°	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515	0.252	0.515
10°	0.253	0.516	0.252	0.515	0.252	0.516	0.252	0.515	0.252	0.515	0.252	0.515
20°	0.252	0.515	0.252	0.515	0.253	0.516	0.252	0.515	0.253	0.516	0.253	0.516
30°	0.252	0.515	0.253	0.515	0.252	0.514	0.251	0.514	0.252	0.515	0.253	0.515
40°	0.253	0.515	0.253	0.516	0.252	0.514	0.253	0.515	0.252	0.514	0.253	0.516
50°	0.255	0.518	0.255	0.518	0.255	0.518	0.253	0.516	0.254	0.518	0.255	0.518
60°	0.253	0.516	0.255	0.517	0.253	0.516	0.250	0.512	0.252	0.515	0.253	0.516
70°	0.254	0.517	0.252	0.515	0.251	0.514	0.253	0.516	0.253	0.516	0.250	0.513
80°	0.254	0.517	0.254	0.518	0.254	0.518	0.250	0.513	0.254	0.517	0.253	0.517
90°	0.252	0.517	0.252	0.517	0.252	0.517	0.252	0.516	0.252	0.516	0.252	0.517

(u',v') chromaticity diagram (CIE 1976)



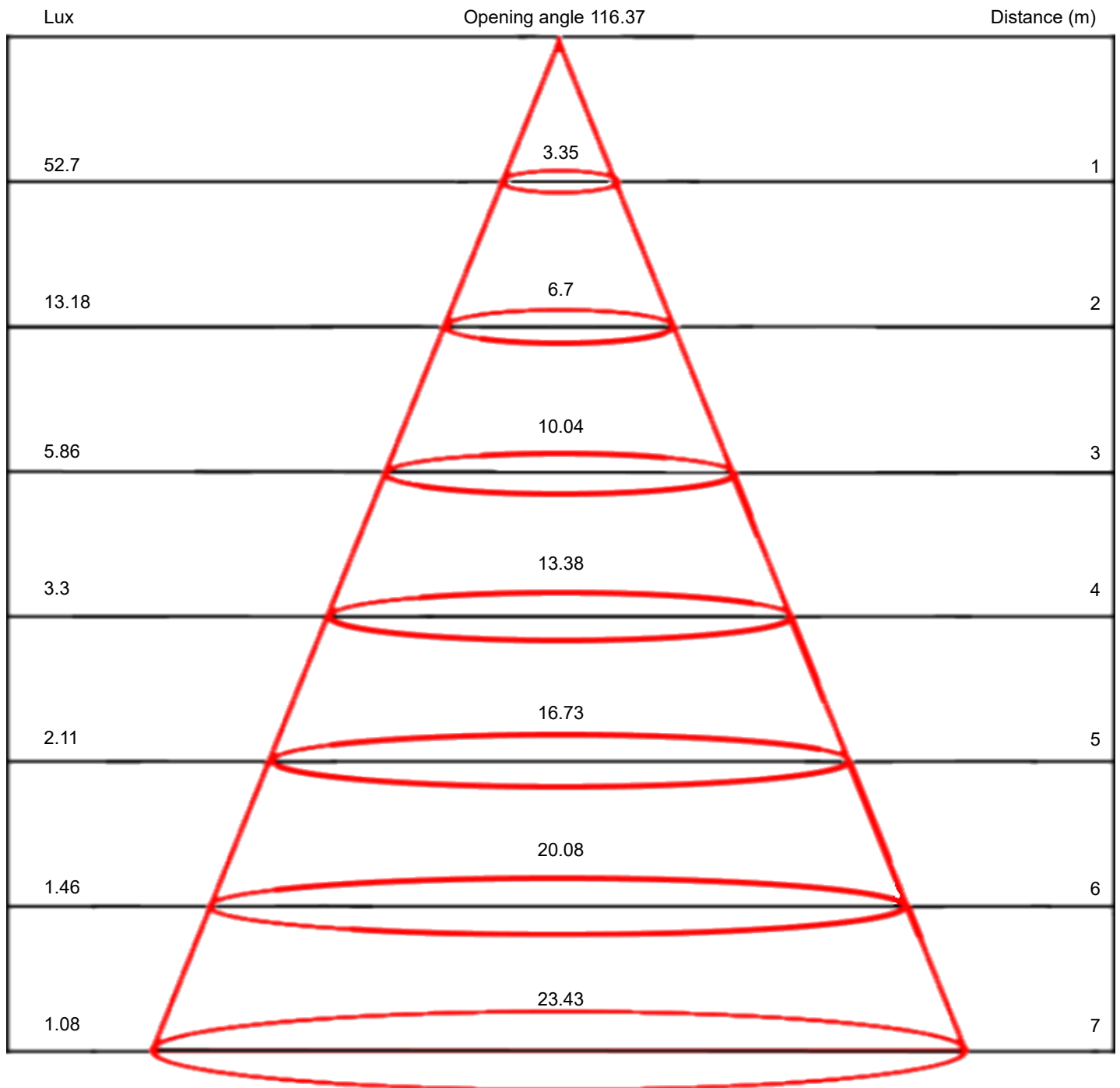
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Color temperature

Gamma	C0°	C10°	C20°	C30°	C40°	C50°	C60°	C70°	C80°	C90°	C100°	C110°
0°	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00
10°	2984.00	3002.00	2993.00	3011.00	3011.00	3011.00	3011.00	3011.00	3002.00	3011.00	3011.00	3011.00
20°	2993.00	2984.00	3002.00	3011.00	2993.00	2993.00	2993.00	2993.00	3002.00	2993.00	2993.00	2993.00
30°	2993.00	3003.00	3003.00	3003.00	2993.00	3003.00	2993.00	3011.00	3011.00	3003.00	2993.00	2993.00
40°	2985.00	2966.00	2985.00	2966.00	2975.00	2975.00	2975.00	2975.00	2975.00	2975.00	2975.00	2975.00
50°	2940.00	2914.00	2906.00	2931.00	2923.00	2923.00	2957.00	2949.00	2957.00	2957.00	2957.00	2966.00
60°	2984.00	2993.00	2931.00	2906.00	2923.00	2931.00	2931.00	2931.00	2940.00	2957.00	2940.00	2948.00
70°	2975.00	2957.00	2957.00	2923.00	2906.00	2906.00	2889.00	2906.00	2957.00	2957.00	2957.00	2931.00
80°	2948.00	2940.00	3021.00	2940.00	2914.00	2897.00	2923.00	2931.00	2957.00	2975.00	2957.00	2966.00
90°	2993.00	2993.00	2984.00	2984.00	2914.00	2957.00	2993.00	2993.00	3011.00	2966.00	3002.00	2984.00
Gamma	C120°	C130°	C140°	C150°	C160°	C170°	C180°	C190°	C200°	C210°	C220°	C230°
0°	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00
10°	2993.00	3011.00	3011.00	3011.00	2993.00	3002.00	3002.00	2993.00	3002.00	3011.00	3002.00	2993.00
20°	2993.00	2993.00	3002.00	2984.00	2984.00	3011.00	3011.00	3002.00	2984.00	2984.00	2984.00	2975.00
30°	2993.00	3011.00	3003.00	2993.00	3011.00	3003.00	3003.00	2993.00	3003.00	3021.00	3003.00	3003.00
40°	2975.00	2984.00	2993.00	2984.00	2975.00	2975.00	2975.00	2993.00	2993.00	3012.00	3003.00	2993.00
50°	2949.00	2949.00	2940.00	2923.00	2931.00	2940.00	2949.00	2923.00	2957.00	2975.00	2957.00	2923.00
60°	2940.00	2948.00	2948.00	2931.00	2948.00	2957.00	2966.00	2975.00	3059.00	3069.00	2984.00	2931.00
70°	2906.00	2906.00	2914.00	2940.00	2940.00	2957.00	2957.00	2957.00	2984.00	3059.00	2957.00	3021.00
80°	2940.00	2931.00	2931.00	2880.00	2931.00	2840.00	3059.00	2948.00	2957.00	2948.00	2940.00	2931.00
90°	2984.00	2993.00	2957.00	2923.00	2984.00	2992.00	3168.00	2992.00	3157.00	3001.00	3001.00	2984.00
Gamma	C240°	C250°	C260°	C270°	C280°	C290°	C300°	C310°	C320°	C330°	C340°	C350°
0°	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00	3019.00
10°	3011.00	3002.00	2993.00	3011.00	3011.00	2984.00	2984.00	2993.00	2984.00	2993.00	3011.00	2993.00
20°	2984.00	2984.00	2993.00	2975.00	2993.00	2993.00	2993.00	2993.00	2984.00	2993.00	2984.00	2984.00
30°	2993.00	2975.00	2993.00	2993.00	2966.00	2975.00	3003.00	2993.00	3021.00	3040.00	3003.00	2993.00
40°	2984.00	2966.00	2966.00	2931.00	2966.00	2940.00	2975.00	2966.00	3012.00	2993.00	3021.00	2966.00
50°	2906.00	2966.00	2984.00	2993.00	2948.00	2948.00	2914.00	2923.00	2923.00	2966.00	2923.00	2923.00
60°	2957.00	3003.00	3021.00	3031.00	3109.00	3031.00	2966.00	2914.00	2984.00	3079.00	3003.00	2984.00
70°	3003.00	3003.00	3021.00	3099.00	3039.00	3021.00	2948.00	3021.00	3049.00	2975.00	2975.00	3069.00
80°	2940.00	3011.00	3039.00	3068.00	3049.00	3030.00	2940.00	2923.00	2923.00	3078.00	2957.00	2957.00
90°	2992.00	2992.00	3001.00	2992.00	3001.00	3107.00	2984.00	2992.00	2984.00	3001.00	2993.00	3001.00

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Opening angle



PHOTOMETRIC MEASUREMENT REPORT N° StarThrow

Glare Evaluation According to UGR

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
Room Size x y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	22.22	23.88	22.22	23.88	23.88	26.45	28.10	26.45	28.10	28.10
	3H	24.69	26.23	24.69	26.23	26.23	27.31	28.97	27.35	28.97	28.97
	4H	24.92	26.44	24.92	26.44	26.44	27.46	29.08	27.46	29.08	29.08
	6H	25.41	26.90	25.41	26.90	26.90	27.79	29.40	27.79	29.40	29.40
	8H	25.49	26.97	25.49	26.97	26.97	27.84	29.44	27.84	29.44	29.44
4H	12H	25.51	26.99	25.51	26.99	26.99	27.85	29.45	27.85	29.45	29.45
	2H	23.24	24.85	23.24	24.85	24.85	29.15	30.67	29.15	30.67	30.67
	3H	27.22	28.51	27.22	28.51	28.51	31.40	32.83	31.55	32.83	32.83
	4H	27.71	28.94	27.71	28.94	28.94	31.94	33.17	31.94	33.17	33.17
	6H	28.93	29.95	28.93	29.95	29.95	33.07	34.11	33.07	34.11	34.12
8H	8H	29.15	30.13	29.15	30.13	30.13	33.48	34.44	33.48	34.44	34.44
	12H	29.20	30.17	29.20	30.17	30.17	33.57	34.51	33.57	34.51	34.51
	4H	29.25	30.21	29.25	30.21	30.21	32.96	34.03	32.96	34.03	34.03
	6H	31.39	31.78	31.39	31.78	31.78	34.59	35.29	34.59	35.29	35.29
	8H	31.86	32.09	31.86	32.09	32.09	35.24	35.75	35.24	35.75	35.75
12H	12H	31.96	32.16	31.96	32.16	32.16	35.40	35.86	35.40	35.86	35.86
	4H	29.34	30.29	29.34	30.29	30.29	32.96	34.03	32.96	34.03	34.03
	6H	31.57	31.90	31.57	31.90	31.90	34.59	35.29	34.59	35.29	35.29
	8H	32.07	32.22	32.07	32.22	32.22	35.24	35.75	35.24	35.75	35.75