KHATOD®
OPTOELECTRONIC

TECHNICAL DEPT.
Lens Test Report

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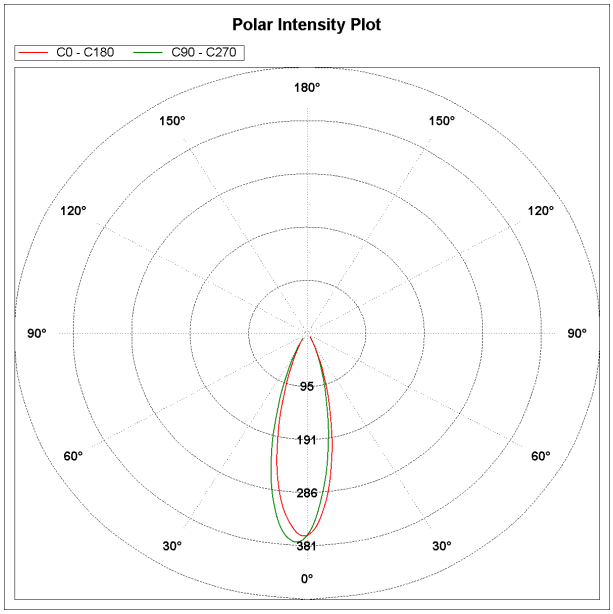
CODE NUMBER: 110000000168

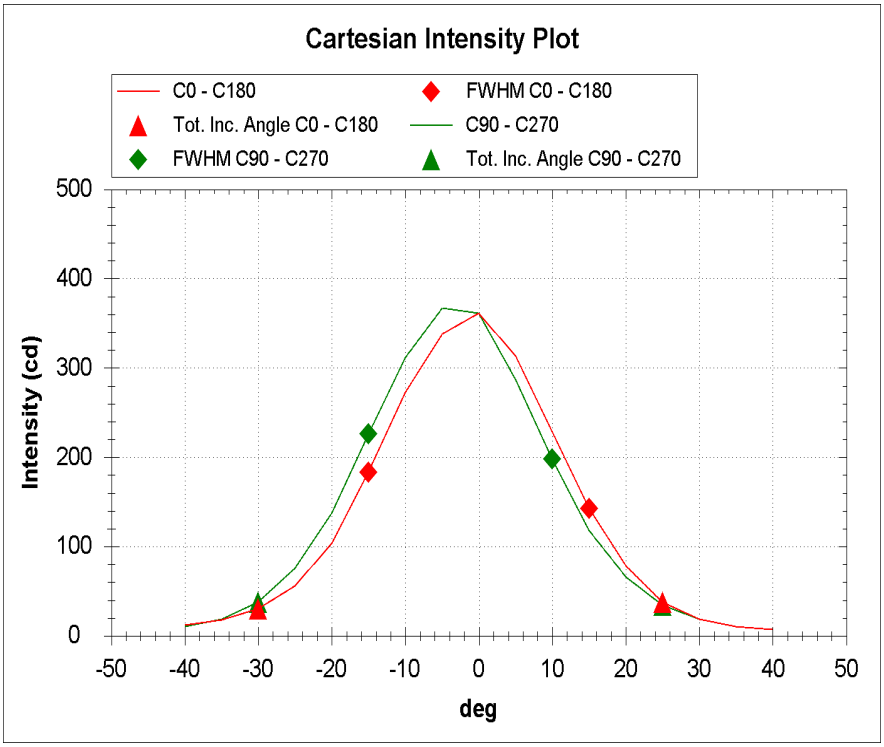
Goniophotometer Type	KLX12M	Operator	SIMONE BASSI
Power Supply Type	ISO TECH ISP3303	Date	29/03/2011
LED Driver Type	////		

Lamp Model	////	Nominal Flux (lm)	105	Angle FWHM C Plane	32
Lens Model	PL353C40TL	Total Flux (lm)	315	Angle FWHM γ Plane	28
LED Model	SEOUL P5 II	Imax (cd)	367		
N. LED	3	Max Ill.@ Meas. Dist. (lux)	14.6	Total Incl. Angle C Plane	55
Rated Voltage (V)	10	Measurement Distance (m)	5	Total Incl. Angle γ Plane	55
LED Drive Current (mA)	1050	Room Temperature (°C)	25		

Notes:

General Optical Measurement Tolerance: +/-10%





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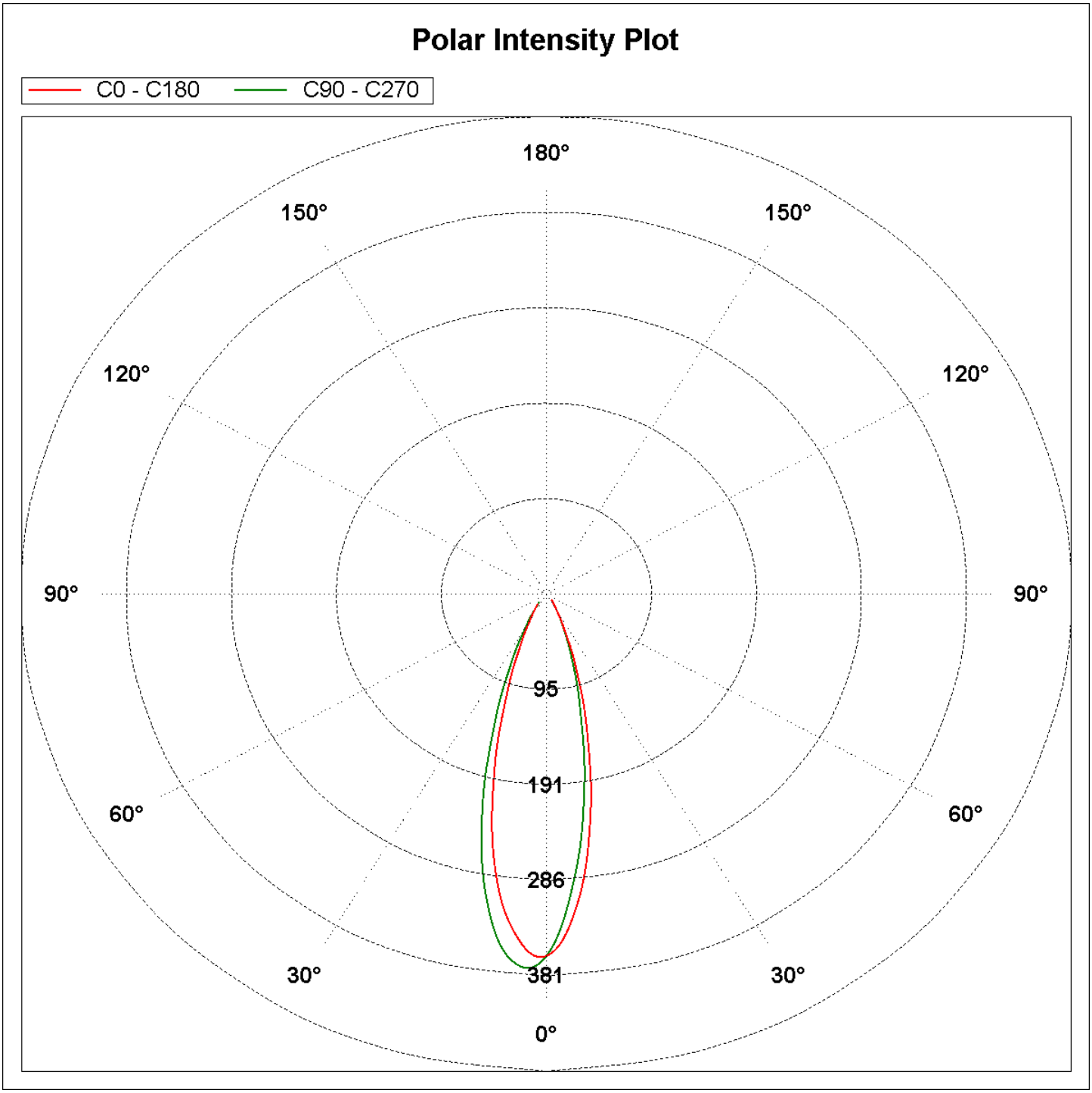

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Figure C0-C180

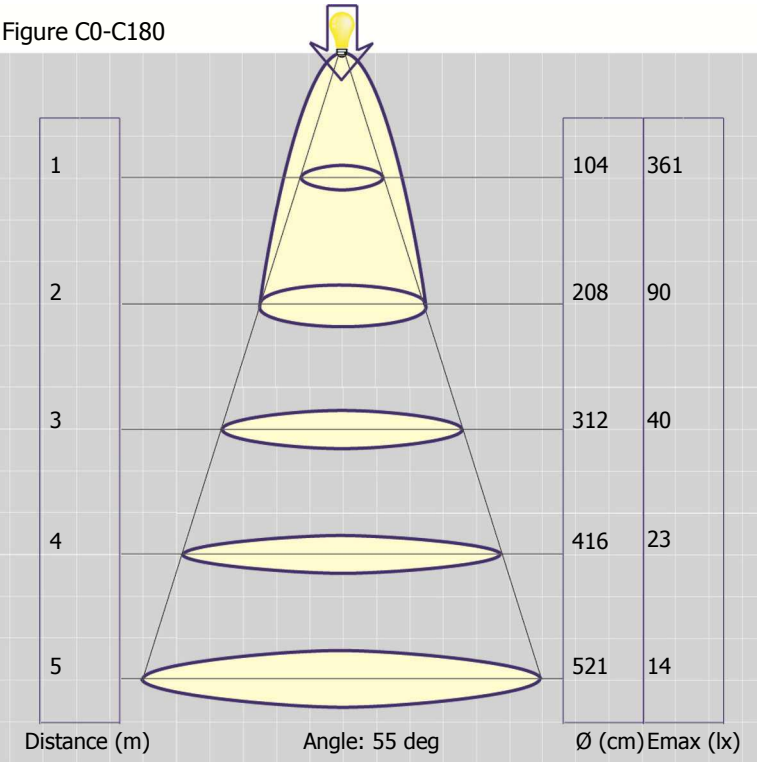
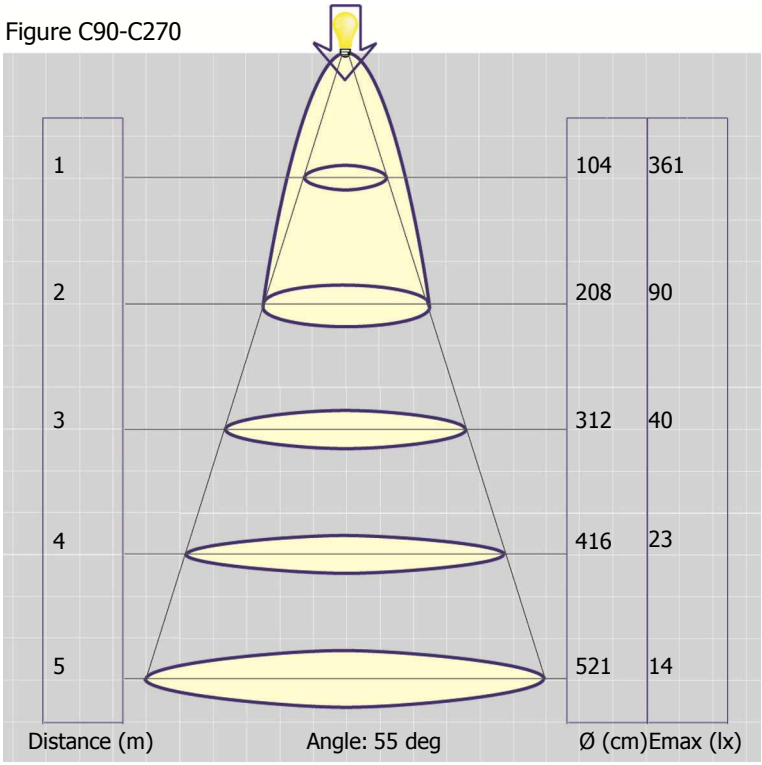
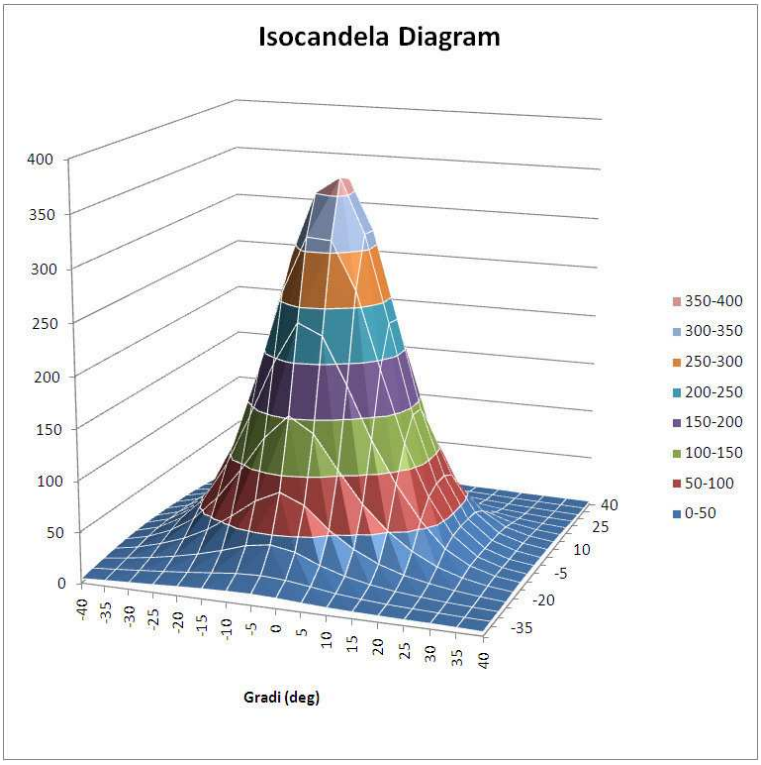
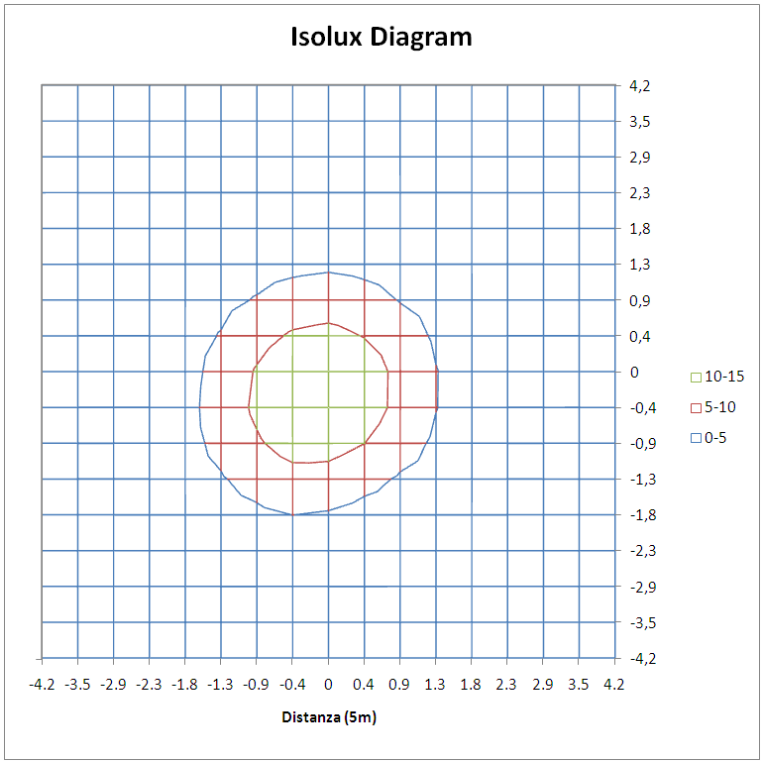


Figure C90-C270







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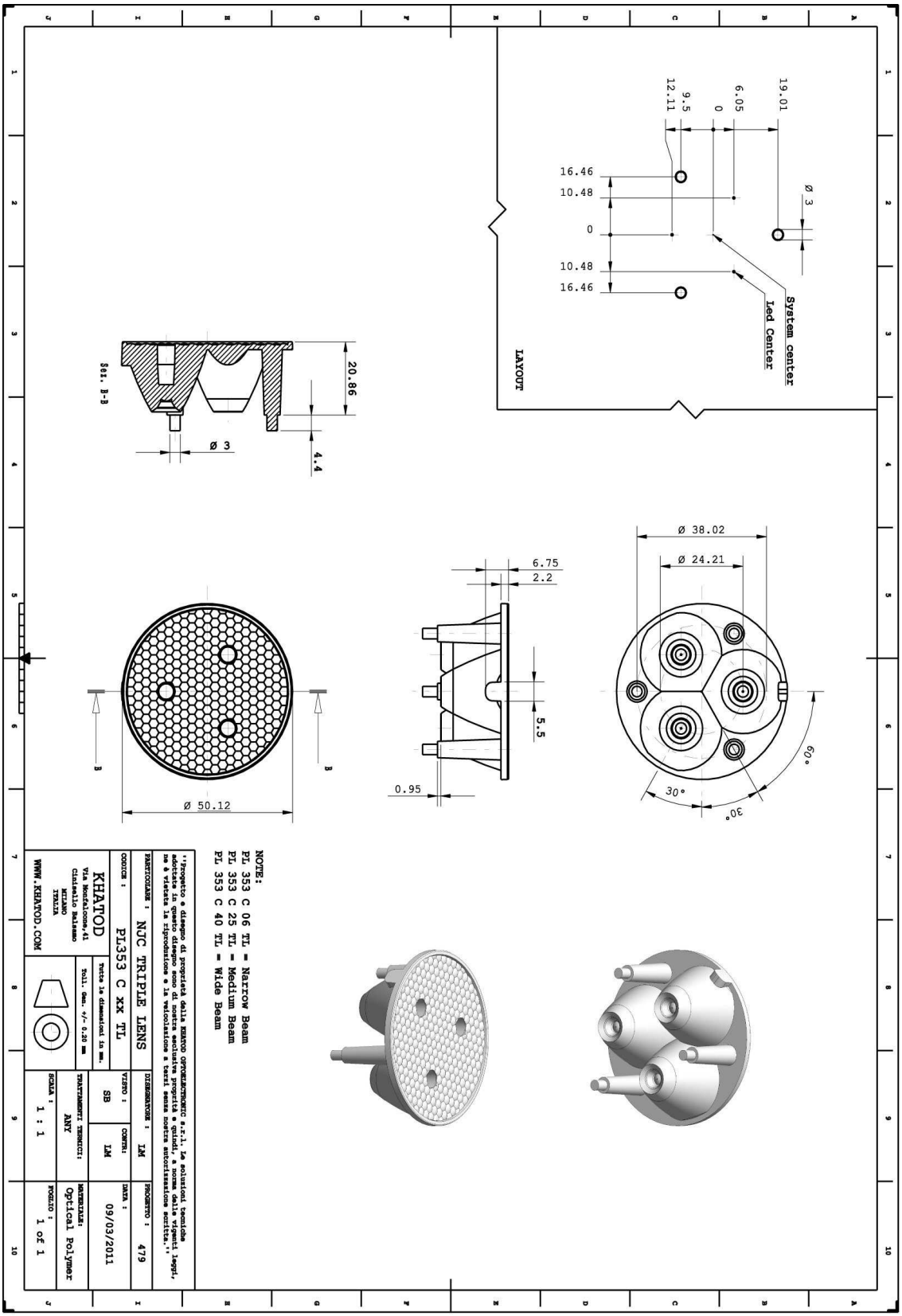

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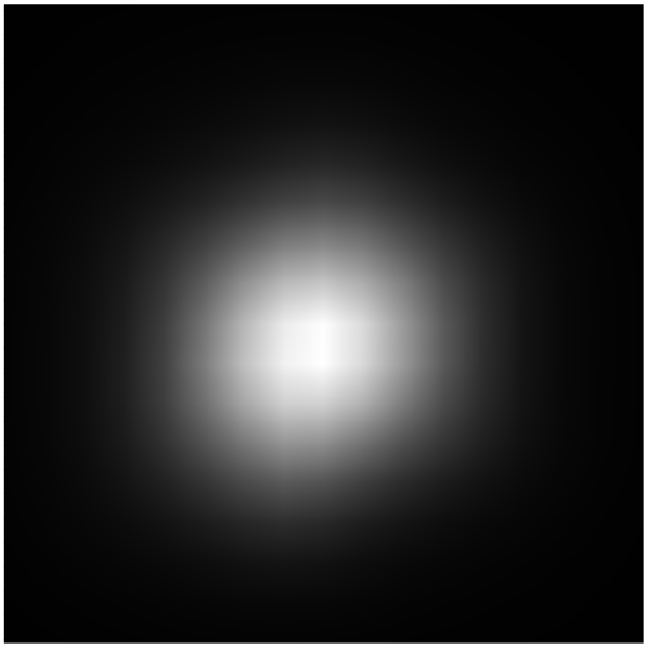
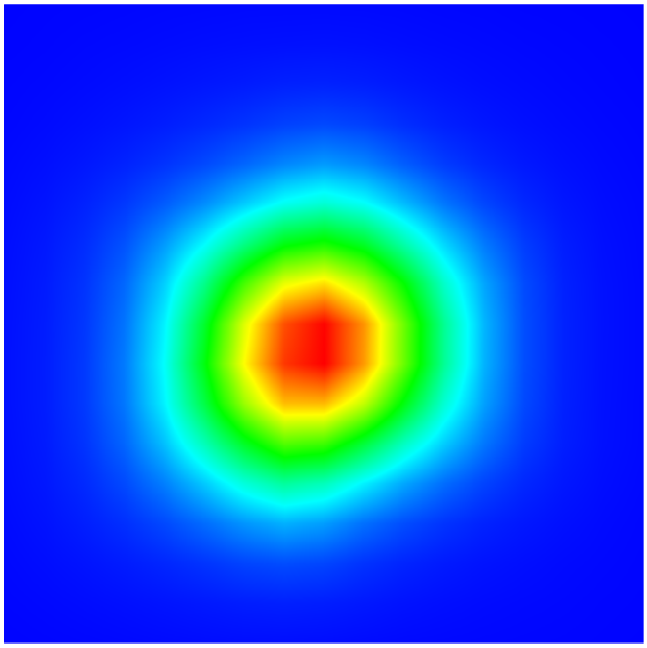
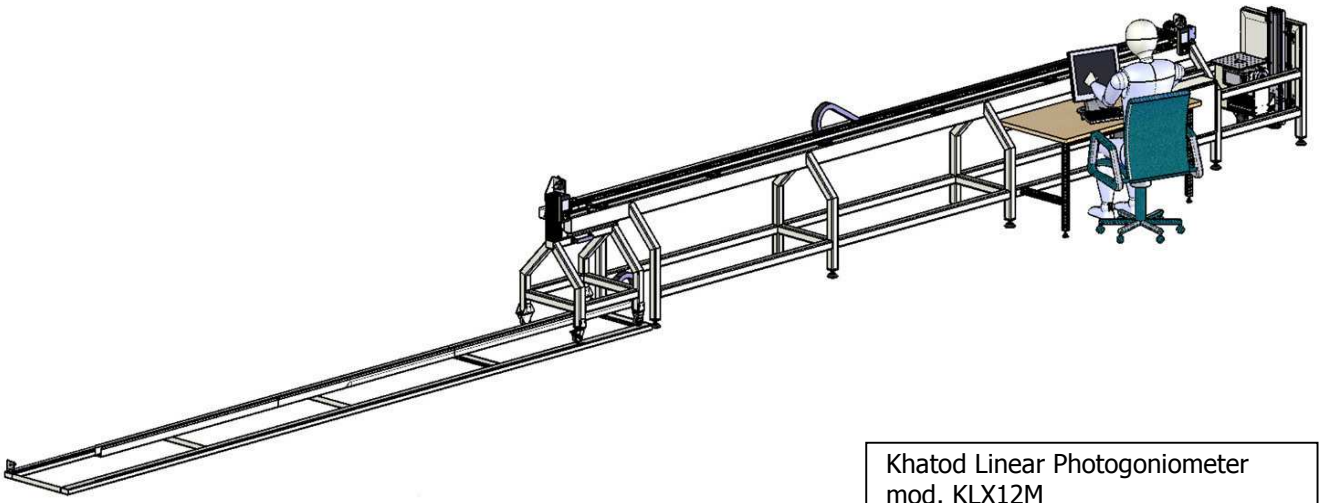
Gray Scale Illuminance @ 5m Distance



False Colours Illuminance @ 5m Distance





Khatod Linear Photogoniometer
mod. KLX12M

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Luminous Distribution Intensity Data

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C (deg) / γ (deg)	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°	160°	170°	180°	190°
0°	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361
5°	313	303	295	288	283	279	278	279	281	287	285	286	288	293	299	307	316	327	338	341
10°	229	218	212	208	200	197	196	193	193	198	196	200	209	213	221	232	242	256	273	280
15°	143	136	134	128	122	118	116	117	114	118	116	121	124	130	138	149	159	168	183	194
20°	78.5	77.3	76.3	73	66.1	61.2	60.9	62.2	63.2	66	63.3	64.1	66.3	69.3	78.1	87.8	94.1	98	104	114
25°	37.5	39.4	40.4	37.9	33.1	29.8	29.7	31.3	33.1	34.5	33.7	33.6	34.1	36.5	42.2	49.2	53	53.8	55.5	62.7
30°	18.5	19.6	21	19	17.1	15.8	15.1	16.4	17.6	18.3	18.6	18.5	18.8	20.7	23.5	27.4	30.2	30.1	30	34.1
35°	10.8	11.1	11.6	10.9	10.1	9.41	9.21	9.76	10.3	10.8	10.9	11.5	11.8	12.8	14.6	16.7	18.1	18.1	18	19.9
40°	7	7.3	7.56	7.18	6.6	6.39	6.39	6.38	6.68	6.75	7.15	7.74	8.22	8.76	9.62	10.8	11.7	11.7	12	13.1
45°	0	0	0	5.16	4.83	4.78	4.56	0	0	0	0	0	6.01	6.59	6.8	7.36	0	0	0	0
50°	0	0	0	0	3.59	3.59	0	0	0	0	0	0	0	5.01	5.13	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

200°	210°	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°	330°	340°	350°
361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361
344	347	351	354	358	361	364	367	358	349	340	333	326	321	317	314
291	305	308	314	323	318	313	311	297	286	279	266	258	253	240	232
213	223	238	243	244	249	235	226	206	194	185	178	174	165	159	147
130	148	155	161	164	163	153	138	120	110	104	104	101	99.1	90.3	82.1
74.4	85.3	93	95.4	96.5	95.1	89.2	75.5	61	55.1	52.8	53.5	56.6	54.1	48	40.8
41.8	48.6	53	53.3	51.4	50.7	45.8	37.8	29.8	26.4	24.5	26.7	28.8	28.6	24.7	20.2
24	27.6	30.7	29.8	26.5	25.4	22.3	18.8	16	14.1	13.2	14.4	15.8	15.4	13.6	11.3
15.1	17.4	18.9	17.3	15	13.5	11.8	10	8.76	8.46	8.27	8.92	9.53	9.59	8.78	7.56
0	11.5	12.1	11	9.15	0	0	0	0	0	6.11	6.57	6.69	6.49	0	0
0	0	8.09	7.12	0	0	0	0	0	0	0	5.3	5.21	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lens characteristics

Parameter	Symbol	Rating	Unit
Lens Material	PMMA Optics	--	--
Holder Material	--	--	--
Operating Temperature	Topr	-30 to +80	°C
Storage Temperature	Tstg	-30 to +80	°C

Notes:

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specification described in the section "OPTICAL CHARACTERISTICS"

– Should you require further information, please contact Khatod for advice.
– All lens testing must be subject to identical conditions as Khatod test condition.
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KHATOD LENS Use And Maintenance

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES

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