

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		789.4 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal

Beam Spread	At 10% of Imax	109.6V x 109.7H
	At 50% of Imax	69.4V x 69.2H
	At 90% of Imax	50.3V x 50.9H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	905.0 lumens per klm.
	To 50% of Imax	629.6 lumens per klm.
	To 90% of Imax	178.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

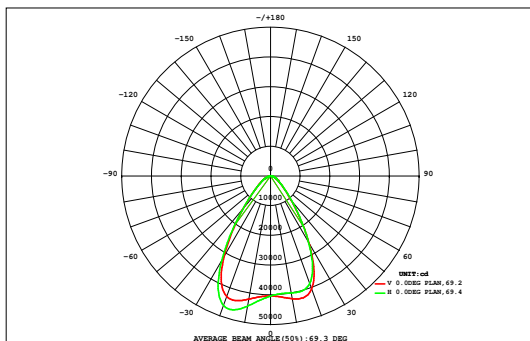
Luminaire Efficiency (Light Output Ratio)	100.0 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 17/12/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: KYH-XL 475W 6500K

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.20V I:2.0901A P:476.45W PF:0.9902 Freq:50.01Hz Lamp Flux:59556.2x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:475 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:125.00lm/W	
MODEL	KYH-XL	Imax (cd)	47015
NOMINAL POWER (W)	475	AVAILABILITY (%)	90.5
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	53902
NOMINAL FLUX (lm)	59556.2	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	59556
TEST VOLTAGE (V)	230	θ @50% (H, V)	69, 69DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.07	0.22	0.57	1.15	1.93	2.77	3.54	3.97	4.07	3.85	3.30	2.55	1.76	1.05	0.52	0.19	0.04	31.6	0.00
80	0.03	0.31	1.60	4.56	9.25	14.9	20.7	25.2	27.4	27.6	26.1	22.4	17.0	11.3	6.32	2.73	0.76	0.08	218	0.00
70	0.05	0.96	4.91	13.0	25.0	38.8	52.4	62.4	67.8	68.2	63.9	55.2	42.4	28.4	15.9	6.88	1.81	0.15	548	0.00
60	0.09	1.98	9.43	23.7	44.5	69.0	95.5	119	133	135	123	102	75.5	49.9	27.6	12.1	3.18	0.25	1026	220
50	0.15	3.16	14.2	34.5	65.4	110	171	238	287	292	253	190	124	74.3	39.8	17.3	4.63	0.36	1920	1540
40	0.22	4.31	18.4	45.0	90.4	176	324	521	672	686	563	373	208	106	52.2	22.1	5.99	0.47	3868	3614
30	0.28	5.29	21.8	54.5	120	271	581	962	1203	1226	1034	675	332	145	64.0	26.0	7.12	0.56	6729	6528
	0.33	6.00	24.2	61.5	147	375	828	1241	1388	1406	1315	956	472	184	73.4	28.9	7.92	0.63	8516	8337
	0.35	6.35	25.5	65.5	163	435	937	1258	1288	1300	1314	1070	550	206	78.7	30.4	8.32	0.66	8738	8572
	0.35	6.34	25.5	65.3	162	430	909	1211	1229	1226	1242	1021	533	203	78.1	30.3	8.31	0.66	8383	8216
	0.32	5.98	24.1	60.6	143	352	755	1102	1207	1212	1142	844	424	173	71.6	28.7	7.89	0.62	7554	7370
-30	0.28	5.27	21.5	52.8	114	250	505	800	973	984	837	557	289	133	61.0	25.6	7.08	0.56	5616	5404
-40	0.21	4.27	17.9	43.5	86.0	160	281	423	521	526	438	301	176	96.6	49.4	21.4	5.92	0.46	3151	2874
-50	0.15	3.10	13.6	33.5	62.2	101	150	201	231	233	205	157	108	68.0	37.9	16.6	4.53	0.35	1627	1177
-60	0.09	1.90	8.94	22.8	42.2	64.8	86.7	105	115	116	107	89.5	68.5	46.1	26.4	11.5	3.06	0.24	916	50.2
-70	0.05	0.88	4.52	12.2	23.2	36.2	47.9	56.6	60.7	61.2	57.9	50.0	39.0	26.2	14.9	6.41	1.70	0.15	500	0.00
-80	0.02	0.26	1.38	4.03	8.19	13.3	18.4	22.3	24.2	24.5	23.2	19.8	15.1	10.1	5.66	2.43	0.67	0.07	193	0.00
-90	0.01	0.06	0.17	0.42	0.85	1.42	2.02	2.56	2.87	2.96	2.83	2.43	1.90	1.32	0.81	0.41	0.16	0.04	23.2	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	2.99	56.5	238	598	1308	2900	5769	8353	9435	9531	8752	6489	3480	1564	705	290	79.3	6.34	59556	---
Φ a	0.00	0.00	0.00	19.7	831	2506	5402	7994	9079	9177	8395	6127	3101	1136	134	0.00	0.00	0.00	---	53902

one-half-peak spread: U:19.3,D:19.3 , L:19.4,R:19.1

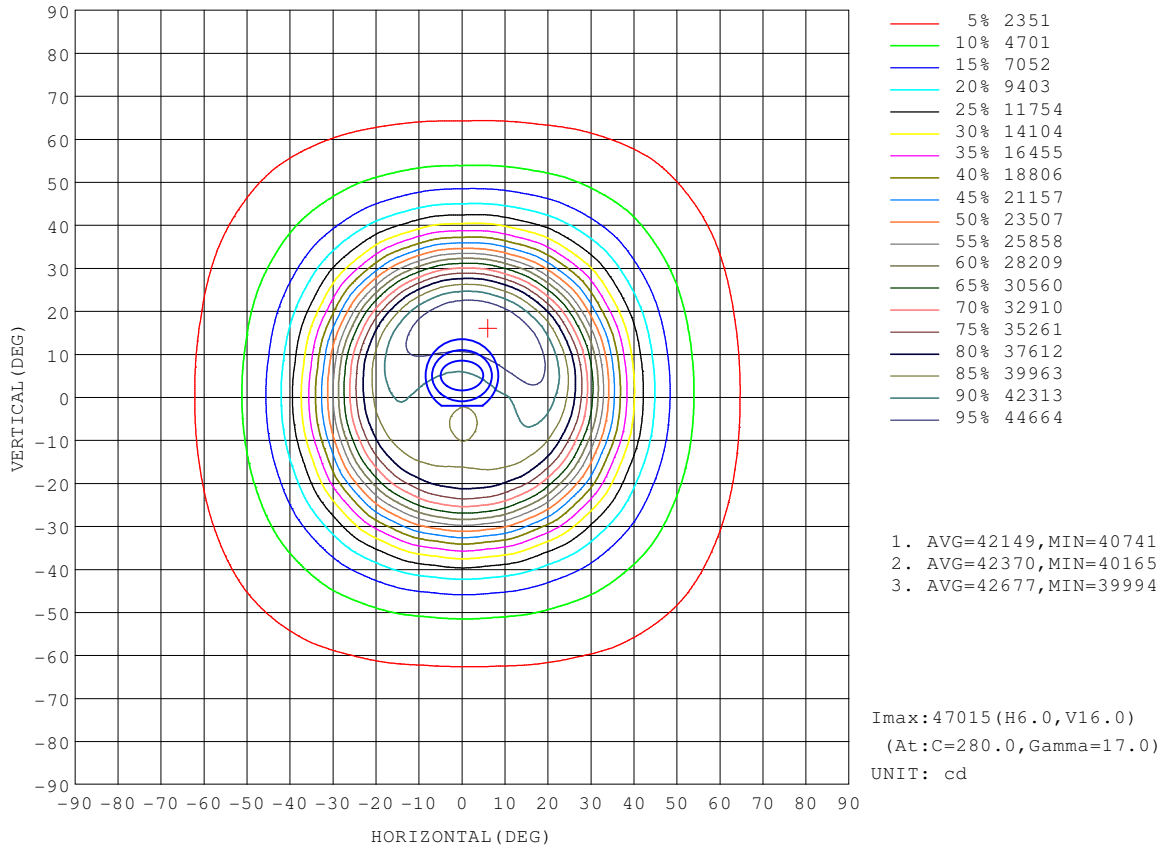
NEMA Beam Type: Type 6

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 17/12/2021

γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
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ISOCANDELA DIAGRAM

Test:U:230.20V I:2.0901A P:476.45W PF:0.9902 Freq:50.01Hz Lamp Flux:59556.2x1 lm		
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SPEC.:475 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

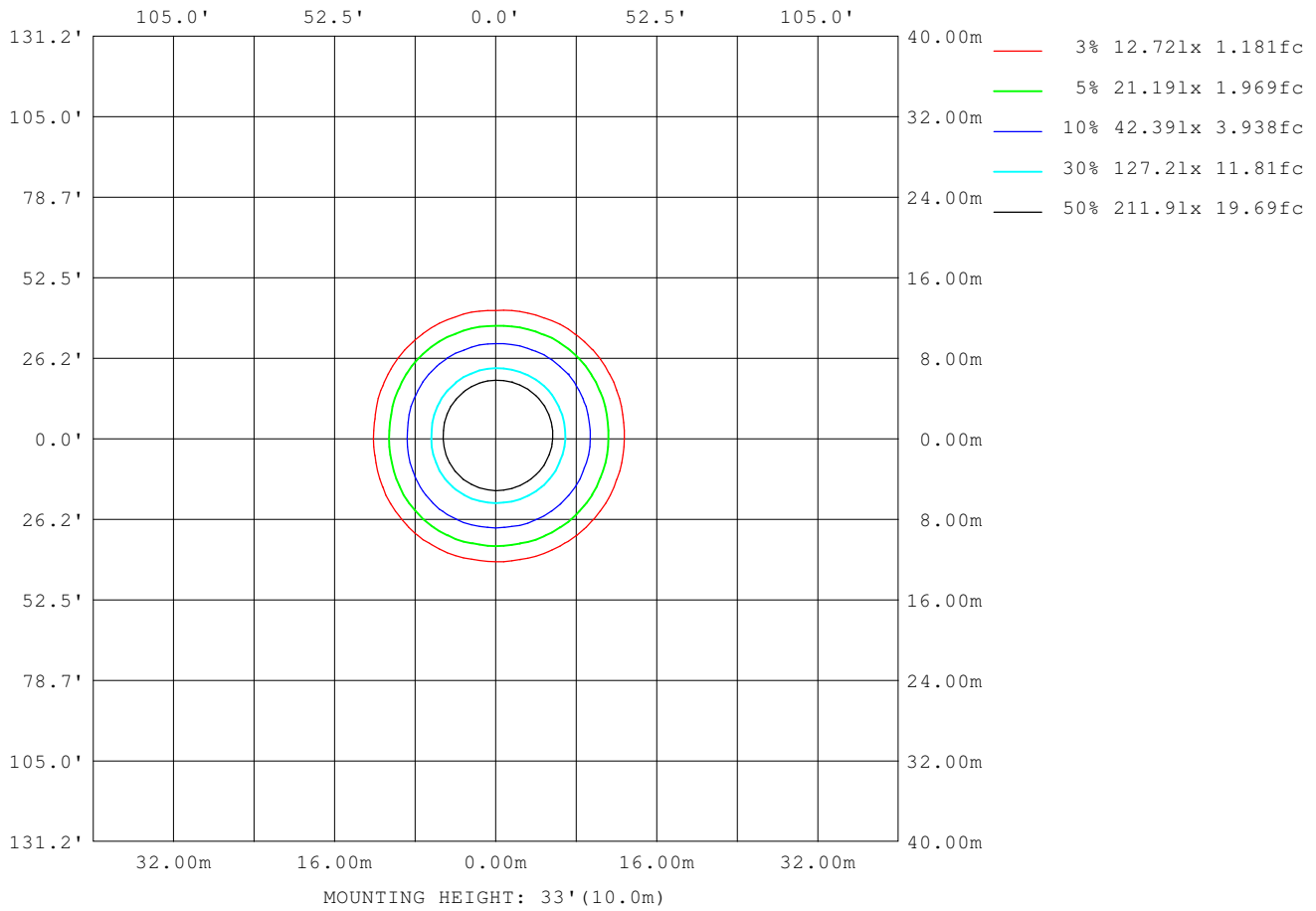


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ISOLUX DIAGRAM

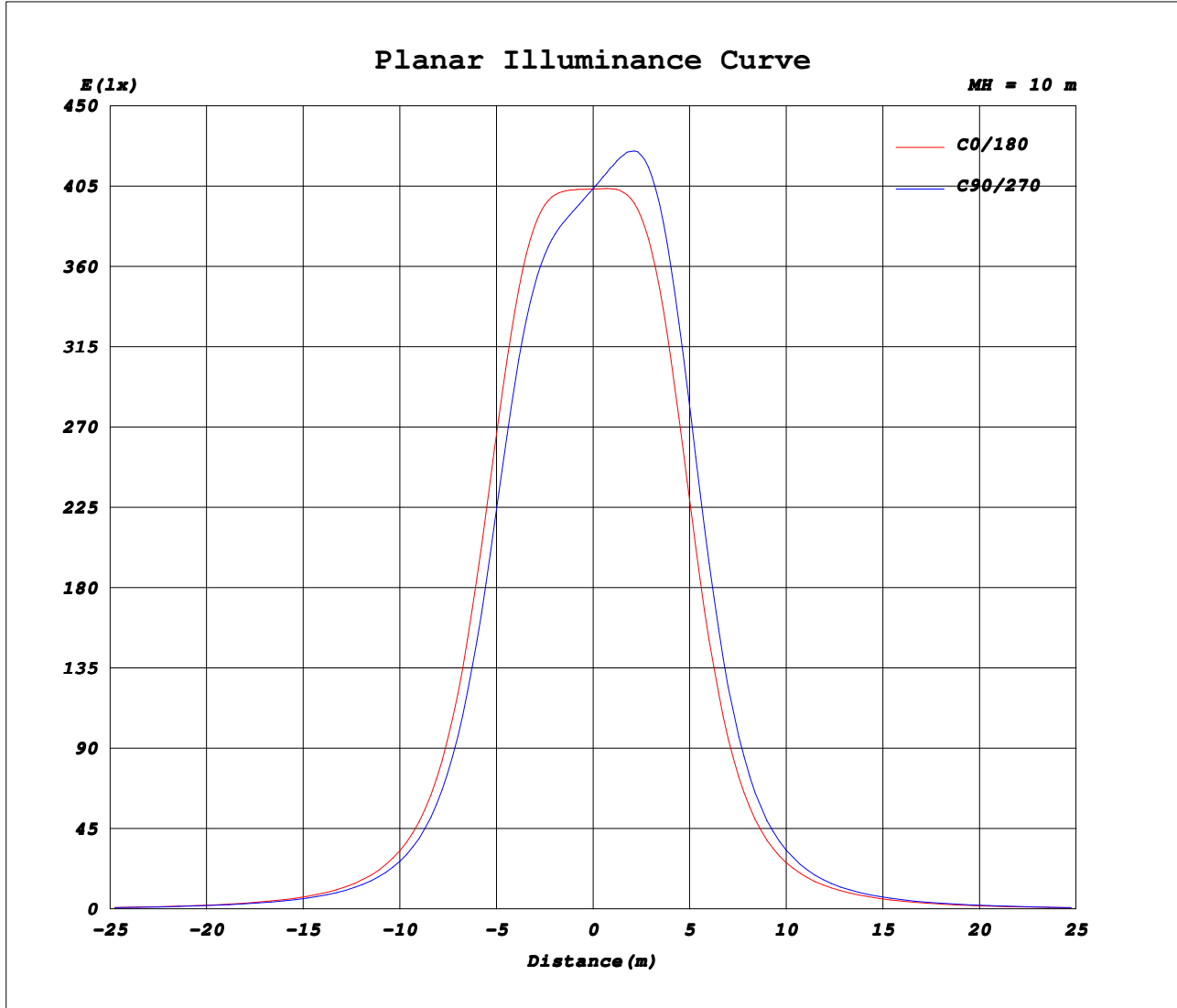
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Planar Illuminance Curve

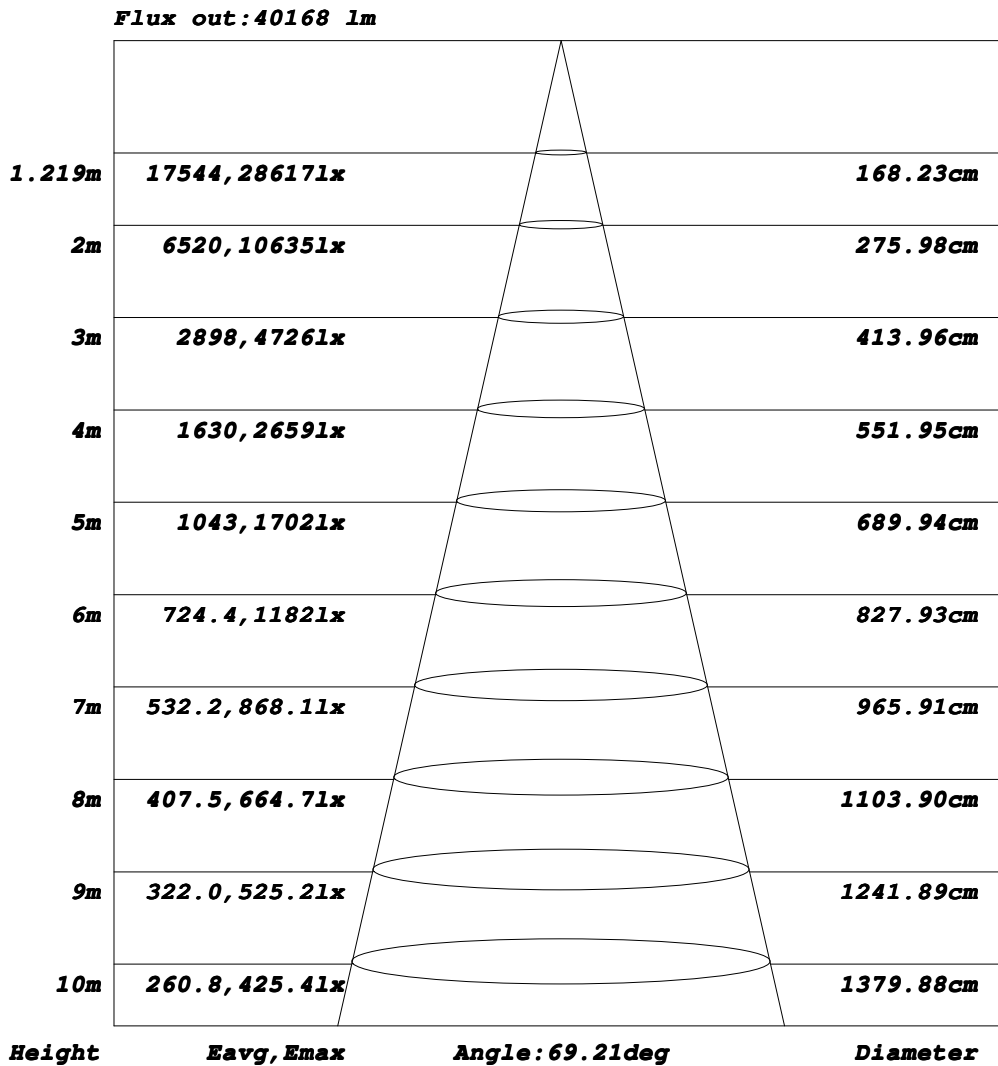


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AAI Figure

Test:U:230.20V I:2.0901A P:476.45W PF:0.9902 Freq:50.01Hz Lamp Flux:59556.2x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:475 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 Test Date: 17/12/2021

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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:475 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT: μ Á10cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.44	0.42	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.41
-85	0.44	0.41	0.39	0.58	0.84	1.12	1.39	1.61	1.94	2.41	2.91	3.29	3.75	4.36	4.91	5.12	5.23	5.56	5.80
-80	0.44	0.41	0.89	1.42	2.12	3.34	5.23	7.59	10.2	13.3	16.8	19.6	22.3	25.4	28.5	30.2	31.1	32.4	33.1
-75	0.44	0.61	1.44	2.62	5.16	9.51	15.3	21.6	28.5	36.3	44.6	51.6	57.8	64.5	70.5	74.0	75.6	78.3	80.0
-70	0.44	0.89	2.16	5.23	11.1	19.7	30.7	42.3	54.9	68.3	82.3	94.3	105	116	124	129	132	134	135
-65	0.44	1.16	3.27	9.46	19.5	33.4	50.0	68.3	86.9	106	126	145	160	173	184	191	195	199	200
-60	0.44	1.40	4.96	14.9	29.7	49.4	72.7	98.5	123	150	177	201	220	238	253	265	271	276	278
-55	0.44	1.63	7.37	21.2	41.3	67.2	97.0	130	162	196	228	260	286	311	335	354	365	374	378
-50	0.44	1.94	10.0	28.0	53.6	85.0	121	160	200	240	280	323	364	404	444	479	500	516	524
-45	0.44	2.27	12.8	35.2	66.0	103	145	189	238	286	339	400	468	535	603	668	713	742	758
-40	0.44	2.58	15.9	42.3	77.7	120	167	218	274	337	409	498	607	726	843	966	1058	1110	1146
-35	0.44	2.95	18.8	49.0	88.9	136	187	245	311	394	494	624	796	1004	1203	1416	1591	1687	1757
-30	0.44	3.45	21.6	55.1	99.3	150	207	272	349	453	595	786	1036	1367	1715	2030	2314	2465	2552
-25	0.44	3.87	24.1	60.7	108	163	225	296	387	516	705	978	1343	1809	2321	2746	3079	3266	3351
-20	0.44	4.22	26.2	65.5	116	173	240	319	425	579	816	1177	1703	2305	2918	3392	3668	3806	3854
-15	0.44	4.50	27.8	69.3	122	182	253	338	458	640	928	1362	2018	2768	3408	3818	3993	4020	4012
-10	0.44	4.69	28.9	72.1	126	188	262	353	485	692	1027	1555	2295	3109	3744	4057	4105	4041	3993
-5	0.44	4.80	29.5	73.7	129	192	268	363	503	727	1095	1690	2500	3358	3945	4172	4139	4033	3974
0	0.44	4.83	29.7	74.1	129	193	270	367	509	737	1117	1736	2574	3458	4044	4241	4190	4083	4035
5	0.44	4.81	29.5	73.8	129	192	269	365	506	730	1100	1700	2546	3448	4082	4326	4314	4227	4197
10	0.44	4.71	28.9	72.2	126	189	264	356	490	699	1049	1612	2422	3331	4023	4387	4482	4453	4440
15	0.44	4.53	27.8	69.5	122	183	254	342	468	661	973	1471	2183	3029	3800	4304	4552	4634	4658
20	0.44	4.26	26.3	65.7	116	174	242	326	439	607	864	1260	1842	2603	3365	3958	4352	4554	4633
25	0.44	3.92	24.2	61.0	109	164	229	305	405	542	745	1052	1507	2098	2722	3326	3773	4067	4178
30	0.44	3.49	21.7	55.3	99.9	153	212	282	365	475	630	859	1181	1572	2040	2517	2894	3192	3290
35	0.44	2.99	18.9	49.1	90.3	139	193	255	324	411	528	688	892	1139	1450	1749	2008	2214	2259
40	0.44	2.61	16.0	42.5	79.5	124	172	225	284	353	439	544	672	828	1001	1161	1321	1428	1448
45	0.44	2.31	13.0	35.5	68.0	107	150	195	245	300	363	432	512	605	702	787	870	922	935
50	0.44	1.98	10.2	28.6	56.0	89.3	126	165	207	252	298	344	396	452	503	550	591	615	621
55	0.44	1.67	7.54	22.0	43.8	71.2	101	134	169	206	241	274	309	343	371	398	419	430	432
60	0.44	1.45	5.19	15.7	32.1	53.2	76.5	103	131	160	187	214	238	260	277	293	305	311	311
65	0.44	1.22	3.40	10.3	21.9	36.3	53.3	72.6	93.9	115	134	154	174	189	201	211	218	221	221
70	0.44	0.94	2.26	5.89	13.0	22.3	32.9	46.1	60.5	74.5	88.2	102	116	127	135	142	147	148	147
75	0.44	0.65	1.55	3.02	6.31	11.3	17.0	24.6	33.0	41.3	49.3	58.0	65.8	72.9	78.9	83.9	87.8	89.0	88.9
80	0.44	0.45	0.99	1.66	2.66	4.22	6.34	9.71	13.2	16.6	20.1	24.3	28.5	31.7	34.6	37.6	40.0	40.3	40.0
85	0.44	0.44	0.46	0.76	1.18	1.48	1.79	2.23	2.92	3.57	4.15	5.07	6.13	6.76	7.29	8.16	8.96	9.08	9.05
90	0.44	0.44	0.44	0.45	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.49	0.53	0.57	0.61	0.64	0.65	0.67

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MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT: $\mu\text{A}10\text{cd}$

H (DEG) \ V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.41	0.41	0.42	0.42	0.43	0.43	0.47	0.50	0.56	0.61	0.66	0.72	0.78	0.85	0.93	1.00	1.09	1.17
-85	5.87	5.84	5.93	5.92	5.62	5.19	4.97	4.74	4.26	3.68	3.32	3.02	2.46	2.10	1.86	1.57	1.35	1.17
-80	33.2	32.7	32.3	31.2	28.9	26.5	24.4	21.9	18.8	15.8	13.2	10.5	7.90	5.60	3.91	2.54	1.61	1.17
-75	79.3	77.6	76.9	74.4	69.6	63.9	59.0	52.6	45.2	37.8	31.0	24.7	17.7	11.9	7.67	4.29	2.06	1.17
-70	135	134	133	130	122	113	103	92.4	79.8	67.2	55.2	43.0	31.6	21.0	12.9	6.77	2.59	1.17
-65	200	198	196	190	181	169	156	139	121	102	84.2	66.0	48.0	32.5	19.7	9.80	3.24	1.17
-60	277	274	269	260	246	231	213	192	166	141	117	91.0	67.2	45.2	27.4	13.2	4.20	1.17
-55	375	369	359	343	321	298	274	244	213	182	150	118	86.5	59.2	35.7	17.3	5.13	1.17
-50	519	505	486	454	418	381	342	300	260	222	183	144	106	73.5	44.4	21.4	6.21	1.17
-45	747	722	681	620	558	494	428	366	312	263	214	169	127	87.1	53.2	25.5	7.35	1.17
-40	1118	1073	989	876	764	649	540	449	372	306	247	193	145	101	61.8	29.6	8.39	1.17
-35	1705	1624	1462	1260	1070	866	690	551	442	351	278	217	163	114	69.9	33.4	9.41	1.17
-30	2496	2373	2121	1827	1489	1151	888	678	517	399	310	240	179	126	77.1	37.1	10.4	1.17
-25	3307	3164	2880	2495	2004	1530	1134	822	601	449	342	262	194	136	83.5	40.3	11.3	1.17
-20	3841	3750	3537	3141	2578	1975	1397	973	688	500	372	280	207	144	88.9	43.1	12.0	1.17
-15	4033	4049	3953	3653	3109	2368	1655	1129	776	549	399	296	217	150	93.4	45.3	12.6	1.17
-10	4035	4129	4165	3991	3494	2731	1927	1283	856	588	420	307	224	155	96.6	46.9	13.0	1.17
-5	4021	4146	4260	4191	3781	3008	2117	1386	907	614	433	315	229	158	98.5	47.9	13.3	1.17
0	4078	4202	4341	4315	3922	3131	2190	1423	928	625	438	317	230	159	99.2	48.2	13.3	1.17
5	4269	4407	4515	4423	3959	3125	2174	1412	921	621	436	316	229	158	98.7	47.9	13.3	1.17
10	4495	4599	4617	4391	3834	2972	2063	1342	883	600	425	310	226	156	96.9	47.0	13.0	1.17
15	4683	4692	4561	4181	3511	2669	1866	1233	823	569	407	299	219	151	93.8	45.5	12.7	1.17
20	4621	4509	4223	3740	3037	2255	1579	1080	746	527	385	285	209	145	89.4	43.4	12.1	1.17
25	4140	3933	3584	3048	2442	1831	1290	917	656	481	357	269	197	136	84.0	40.6	11.4	1.17
30	3253	3033	2724	2295	1840	1418	1040	760	564	427	327	249	183	127	77.7	37.4	10.5	1.17
35	2250	2107	1894	1625	1313	1051	819	624	479	375	294	226	167	116	70.5	33.7	9.51	1.17
40	1457	1382	1249	1116	944	777	633	508	405	325	260	202	150	103	62.6	29.9	8.50	1.17
45	938	903	835	765	673	577	490	412	340	278	225	176	132	89.9	54.1	25.8	7.46	1.17
50	624	609	577	538	493	437	383	332	283	236	191	150	112	76.4	45.5	21.7	6.33	1.17
55	435	428	413	391	367	334	299	266	232	193	156	123	91.5	62.5	37.0	17.6	5.24	1.17
60	313	310	301	288	275	255	232	207	181	150	122	95.6	71.5	48.3	28.6	13.6	4.31	1.17
65	223	221	216	208	199	186	169	150	131	110	89.2	69.6	51.8	35.5	20.9	10.1	3.33	1.17
70	149	148	145	141	135	125	113	100	87.3	73.9	59.5	46.0	34.7	23.5	14.1	7.07	2.67	1.17
75	89.8	89.4	86.8	82.9	79.1	73.5	66.4	58.6	51.1	43.5	34.8	26.9	20.1	14.0	8.59	4.54	2.12	1.17
80	40.9	41.1	39.7	37.7	35.7	33.4	29.8	26.0	23.2	20.1	15.9	12.2	9.59	6.99	4.53	2.71	1.66	1.17
85	9.42	9.64	9.48	9.11	8.76	8.35	7.55	6.73	6.21	5.54	4.60	3.83	3.19	2.71	2.14	1.68	1.41	1.17
90	0.70	0.73	0.75	0.77	0.79	0.80	0.83	0.86	0.89	0.92	0.97	1.02	1.05	1.08	1.12	1.15	1.16	1.17

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 17/12/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: KYH-XL 475W 6500K