

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

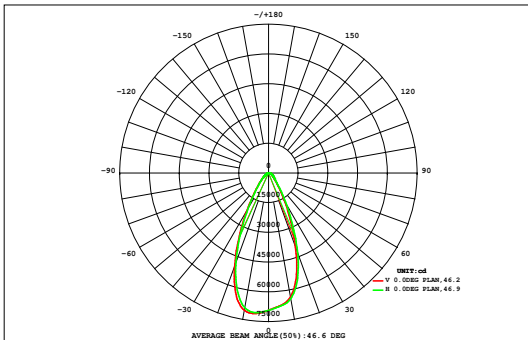
Maximum Intensity (Luminaire orientation as tested.)		1373.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	80.5V x 79.6H 46.9V x 46.2H 24.4V x 24.2H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	1000.2 lumens per klm. 838.5 lumens per klm. 526.5 lumens per klm. 161.5 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency (Light Output Ratio)		100.0 %

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 400W 6500K

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.23V I:1.7832A P:404.50W PF:0.9853 Freq:50.01Hz Lamp Flux:53018.2x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:400 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:131.07lm/W	
MODEL	KYH-XL	Imax (cd)	72799
NOMINAL POWER (W)	400	AVAILABILITY (%)	83.7
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	44402
NOMINAL FLUX (lm)	53018.2	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	53018
TEST VOLTAGE (V)	230	θ @50% (H, V)	46,47DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.06	0.19	0.48	0.95	1.56	2.21	2.75	3.04	3.14	3.00	2.61	2.05	1.45	0.89	0.47	0.19	0.04	25.1	0.00
80	0.02	0.26	1.24	3.44	6.81	10.9	14.9	17.9	19.3	19.4	18.5	15.9	12.1	8.18	4.64	2.07	0.61	0.08	156	0.00
70	0.04	0.74	3.57	9.31	17.8	27.7	37.2	43.6	46.7	47.0	44.5	38.7	29.6	19.9	11.2	4.91	1.35	0.13	384	0.00
60	0.08	1.45	6.71	16.9	31.7	48.6	64.9	78.0	85.7	86.6	80.5	68.2	51.9	34.7	19.3	8.43	2.28	0.20	686	0.00
50	0.12	2.26	10.0	24.5	45.2	70.6	102	135	159	161	141	109	77.1	49.8	27.5	12.0	3.25	0.28	1130	31.5
40	0.17	3.04	12.9	31.2	58.4	102	177	287	379	389	308	198	116	65.9	35.5	15.2	4.17	0.35	2183	1467
30	0.21	3.70	15.1	36.8	72.4	148	331	653	953	989	730	396	179	84.8	42.4	17.9	4.93	0.41	4659	4175
20	0.24	4.16	16.6	40.6	85.2	208	557	1198	1716	1788	1366	706	268	104	47.5	19.8	5.47	0.46	8130	7730
10	0.26	4.38	17.4	42.6	92.6	247	720	1534	2034	2159	1792	946	335	117	50.3	20.8	5.74	0.49	10119	9749
0	0.26	4.36	17.4	42.5	91.9	245	708	1507	1977	2056	1725	920	333	117	50.2	20.8	5.74	0.48	9820	9448
-10	0.24	4.12	16.5	40.0	82.5	195	521	1114	1574	1637	1246	652	254	102	47.1	19.8	5.48	0.46	7511	7099
-20	0.21	3.64	14.7	35.7	69.3	138	295	576	830	861	639	356	169	81.4	41.5	17.8	4.94	0.41	4132	3624
-30	0.17	2.97	12.3	29.9	55.9	93.9	157	246	322	330	268	180	107	63.3	34.6	15.1	4.16	0.35	1922	1078
-40	0.12	2.19	9.39	23.1	42.8	66.4	92.8	120	139	141	126	99.7	72.2	47.8	27.0	11.8	3.22	0.27	1024	0.00
-50	0.07	1.37	6.21	15.7	29.1	45.2	59.9	71.7	77.8	78.3	73.5	63.0	49.1	33.1	18.8	8.14	2.21	0.20	633	0.00
-60	0.04	0.67	3.22	8.45	15.9	24.8	33.3	39.4	42.1	42.4	40.5	35.6	27.7	18.5	10.6	4.60	1.27	0.13	349	0.00
-70	0.02	0.22	1.06	2.94	5.79	9.28	12.7	15.4	16.6	16.8	16.1	13.9	10.7	7.25	4.16	1.85	0.55	0.07	135	0.00
-80	0.01	0.04	0.15	0.35	0.68	1.12	1.56	1.94	2.16	2.23	2.15	1.89	1.51	1.09	0.69	0.37	0.16	0.04	18.2	0.00
-90	0.01	0.04	0.15	0.35	0.68	1.12	1.56	1.94	2.16	2.23	2.15	1.89	1.51	1.09	0.69	0.37	0.16	0.04	18.2	0.00
Φ t	2.28	39.6	165	405	805	1682	3887	7640	10375	10806	8621	4803	2095	957	474	202	55.7	4.85	53018	---
Φ a	0.00	0.00	0.00	0.00	0.00	747	3195	7006	9769	10203	7998	4141	1314	29.9	0.00	0.00	0.00	0.00	---	44402

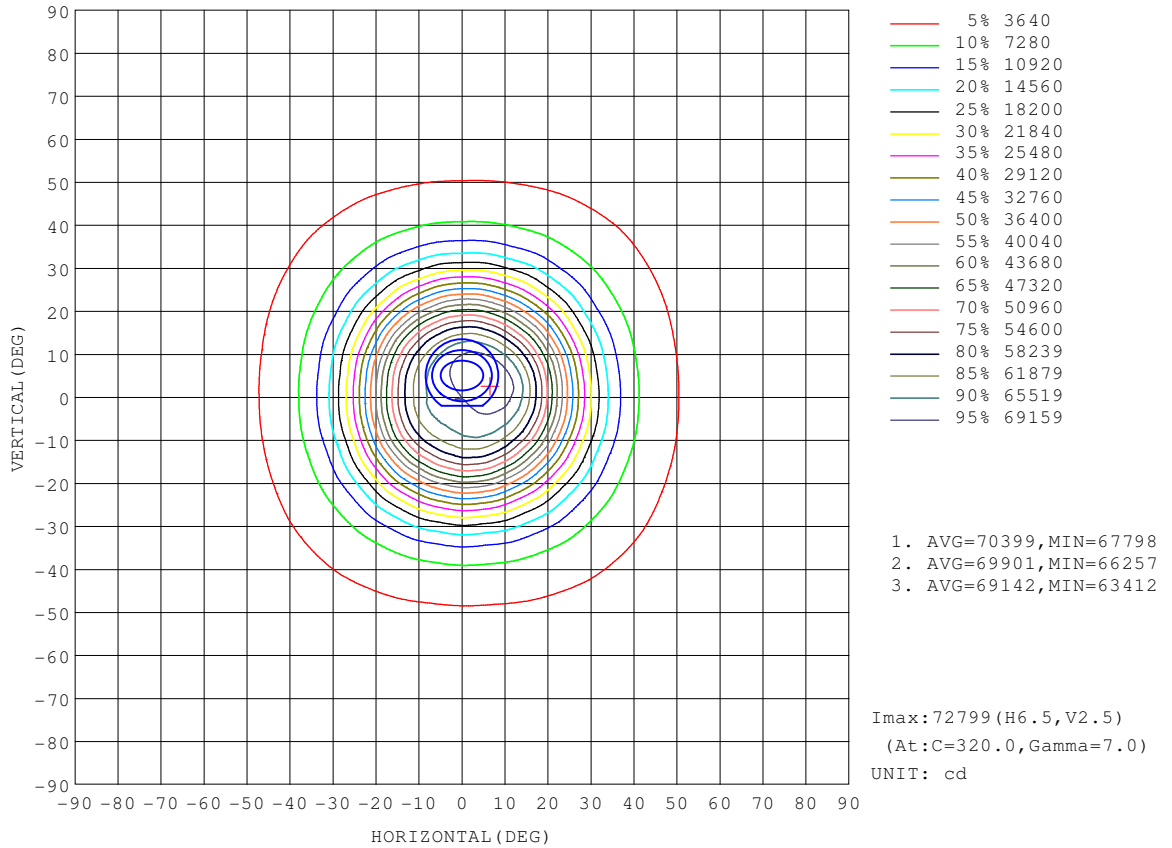
one-half-peak spread: U:28.8,D:18.4 , L:28.6,R:17.9 NEMA Beam Type: Type 5

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 400W 6500K

ISOCANDELA DIAGRAM

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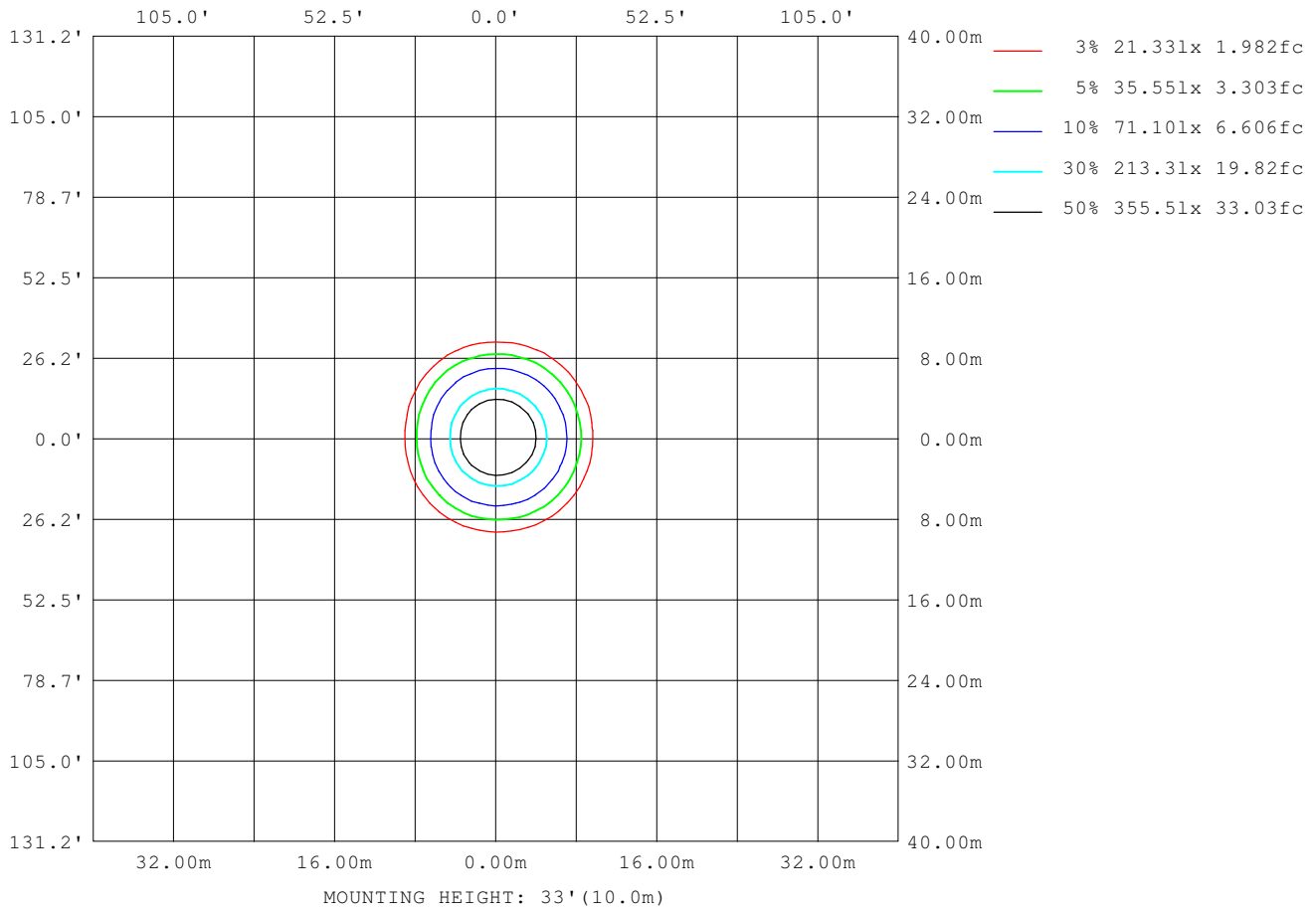


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ISOLUX DIAGRAM

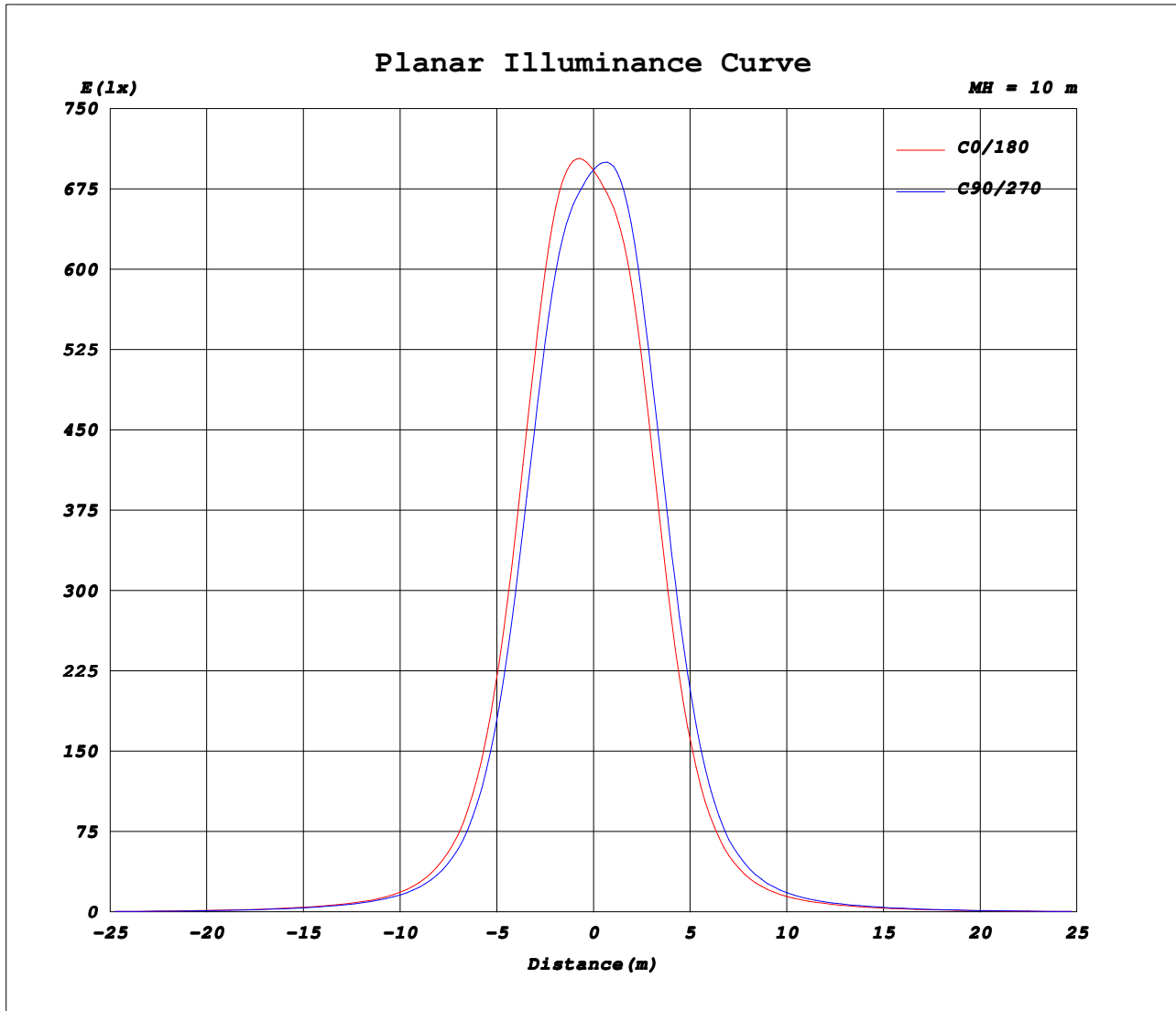
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Planar Illuminance Curve



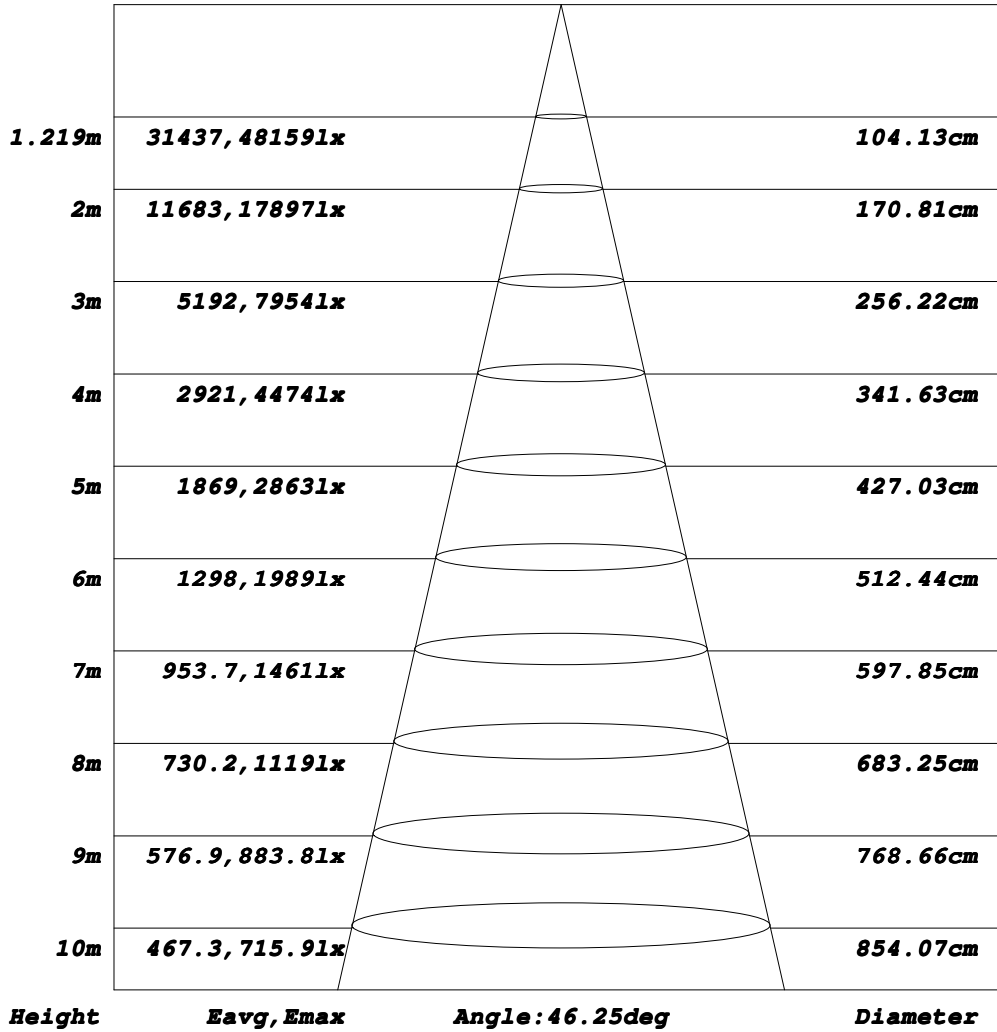
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AAI Figure

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SPEC.:400 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Flux out:29101 lm



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

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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:400 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

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

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.30	0.29	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29
-85	0.30	0.29	0.27	0.41	0.59	0.85	1.18	1.45	1.76	2.17	2.59	2.93	3.29	3.75	4.17	4.36	4.47	4.68	4.83
-80	0.30	0.29	0.60	1.19	1.92	2.93	4.37	6.10	7.93	10.1	12.5	14.5	16.4	18.5	20.7	21.7	22.2	23.1	23.6
-75	0.30	0.42	1.21	2.37	4.31	7.47	11.5	15.9	20.6	25.9	31.3	36.0	40.3	44.7	48.6	51.0	52.0	53.3	53.9
-70	0.30	0.60	1.96	4.35	8.59	14.6	22.2	29.9	38.1	47.1	56.3	64.4	72.2	79.1	85.5	88.9	90.3	92.0	92.7
-65	0.30	0.82	2.88	7.38	14.4	23.9	35.2	47.4	59.8	72.9	85.9	98.9	110	120	128	133	136	138	139
-60	0.30	1.14	4.14	11.1	21.4	34.8	50.4	67.9	84.4	102	121	139	154	167	178	185	189	192	193
-55	0.30	1.44	5.86	15.4	29.1	46.6	67.0	89.5	112	134	159	183	201	217	232	244	251	256	258
-50	0.30	1.75	7.74	20.2	37.5	58.7	83.5	111	138	167	195	222	246	268	290	308	320	329	334
-45	0.30	2.06	9.68	25.0	45.7	71.0	99.7	131	165	198	231	265	299	333	366	400	425	444	454
-40	0.30	2.33	11.8	29.7	53.6	82.5	115	151	189	228	268	312	364	420	480	550	609	648	672
-35	0.30	2.64	13.7	34.2	61.1	93.4	129	169	212	258	308	369	450	555	673	809	936	1019	1071
-30	0.30	3.01	15.6	38.5	68.2	103	142	187	234	287	353	443	569	750	981	1233	1512	1665	1786
-25	0.30	3.32	17.2	42.2	74.2	112	154	202	254	316	403	536	732	1024	1456	1912	2379	2711	2895
-20	0.30	3.57	18.8	45.2	79.3	119	164	215	273	344	455	640	943	1400	2066	2844	3519	4030	4302
-15	0.30	3.77	20.0	47.7	83.4	125	172	226	288	372	511	749	1158	1850	2781	3822	4717	5312	5612
-10	0.30	3.91	20.9	49.5	86.4	129	178	234	301	396	562	860	1371	2220	3432	4716	5676	6180	6445
-5	0.30	3.99	21.4	50.5	88.1	131	182	240	309	412	597	940	1544	2523	3861	5246	6206	6599	6749
0	0.30	4.01	21.5	50.8	88.6	132	183	241	311	416	608	965	1595	2613	4005	5427	6361	6722	6925
5	0.30	4.00	21.4	50.7	88.5	132	182	240	311	415	603	950	1552	2553	3920	5345	6327	6780	7068
10	0.30	3.93	20.9	49.8	87.0	130	180	236	304	401	575	891	1447	2344	3570	4913	5963	6567	6902
15	0.30	3.80	20.1	48.2	84.3	126	174	229	294	384	535	801	1248	1961	2980	4130	5127	5792	6110
20	0.30	3.61	18.9	45.8	80.4	121	166	220	280	359	483	685	1012	1555	2295	3133	3934	4530	4815
25	0.30	3.36	17.4	42.8	75.4	114	158	208	264	330	425	574	813	1164	1619	2204	2714	3153	3335
30	0.30	3.05	15.8	39.1	69.6	107	147	194	243	299	372	479	636	850	1127	1458	1731	2001	2079
35	0.30	2.68	13.9	34.8	63.1	97.6	135	177	221	268	325	399	496	622	782	950	1095	1215	1234
40	0.30	2.38	12.0	30.3	55.8	87.1	122	159	198	239	283	333	393	466	551	633	710	761	773
45	0.30	2.10	10.0	25.6	47.9	75.6	106	139	174	209	245	280	319	362	407	447	486	510	515
50	0.30	1.80	8.00	20.8	39.8	63.3	89.5	118	148	179	209	236	263	290	315	337	356	367	370
55	0.30	1.49	6.02	16.2	31.4	50.4	72.1	95.8	121	147	172	196	216	235	250	264	275	280	281
60	0.30	1.19	4.31	12.0	23.3	38.2	54.5	73.5	93.2	114	133	153	170	184	194	203	210	213	213
65	0.30	0.89	3.02	8.06	16.1	26.5	38.6	51.9	67.1	81.7	95.6	110	124	134	141	147	151	152	152
70	0.30	0.65	2.07	4.87	9.98	16.6	24.4	33.8	43.8	53.7	63.1	72.9	82.5	90.3	96.1	100.0	102	103	103
75	0.30	0.45	1.33	2.73	5.23	8.82	13.2	18.7	24.9	30.5	36.2	42.3	48.0	52.7	56.6	59.8	62.1	62.6	62.0
80	0.30	0.30	0.72	1.45	2.42	3.68	5.34	7.74	10.5	13.0	15.7	18.7	21.8	23.9	25.7	27.6	29.1	29.3	28.9
85	0.30	0.30	0.31	0.54	0.93	1.27	1.63	2.07	2.67	3.25	3.79	4.54	5.35	5.84	6.27	6.85	7.34	7.43	7.43
90	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.37	0.41	0.43	0.46	0.48	0.51

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Table--2

UNIT: jÁ10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.29	0.29	0.29	0.29	0.29	0.30	0.31	0.32	0.36	0.40	0.45	0.51	0.58	0.66	0.78	0.90	1.03	1.16
-85	4.90	4.90	5.01	5.03	4.80	4.50	4.37	4.19	3.82	3.39	3.11	2.87	2.46	2.15	1.91	1.64	1.37	1.16
-80	23.6	23.2	23.2	22.8	21.4	19.8	18.3	16.6	14.4	12.5	10.5	8.53	6.61	4.93	3.63	2.55	1.70	1.16
-75	54.1	53.6	53.4	51.9	49.1	45.3	41.9	37.8	32.6	27.7	23.0	18.4	13.5	9.50	6.39	3.91	2.14	1.16
-70	92.9	92.2	92.3	90.4	86.0	79.8	73.0	65.2	56.2	47.7	39.5	31.1	23.2	15.9	10.2	5.71	2.61	1.16
-65	139	138	137	134	129	120	110	98.3	84.9	72.3	59.6	46.9	34.5	23.8	14.8	7.88	3.15	1.16
-60	193	192	190	184	176	166	154	136	118	100	83.3	64.6	47.6	32.6	20.2	10.4	3.86	1.16
-55	257	254	250	240	228	214	198	177	153	130	107	83.9	61.6	42.0	26.0	13.1	4.54	1.16
-50	333	327	318	302	283	262	240	215	189	159	131	102	75.9	51.8	31.9	16.0	5.32	1.16
-45	451	440	419	389	355	322	287	253	221	188	153	120	89.9	61.5	37.9	18.8	6.13	1.16
-40	662	637	590	527	464	401	345	296	255	215	175	137	103	70.9	43.7	21.7	6.88	1.16
-35	1040	990	885	756	636	516	420	348	291	242	196	153	115	79.7	49.0	24.4	7.62	1.16
-30	1714	1604	1367	1131	890	677	523	411	329	268	216	168	125	87.7	53.8	26.8	8.41	1.16
-25	2814	2544	2123	1699	1246	905	655	484	369	293	235	182	135	94.2	58.1	28.8	9.09	1.16
-20	4205	3780	3163	2427	1742	1202	810	563	412	317	252	194	143	99.8	61.7	30.8	9.65	1.16
-15	5538	5085	4285	3303	2328	1522	975	649	455	340	266	203	150	104	64.6	32.3	10.1	1.16
-10	6436	6090	5315	4147	2871	1847	1149	733	495	359	276	210	154	107	66.6	33.3	10.4	1.16
-5	6860	6697	6010	4764	3332	2119	1280	792	520	370	282	215	157	109	67.7	34.0	10.6	1.16
0	7113	7039	6356	5034	3498	2199	1318	813	528	374	284	216	158	109	68.0	34.1	10.7	1.16
5	7251	7050	6259	4929	3412	2132	1282	798	522	371	283	215	157	109	67.7	34.0	10.7	1.16
10	6928	6518	5681	4428	3074	1935	1181	747	498	360	277	211	154	107	66.6	33.3	10.5	1.16
15	6035	5545	4717	3644	2510	1618	1034	677	467	345	268	204	149	104	64.6	32.3	10.2	1.16
20	4724	4250	3550	2741	1925	1266	855	591	427	325	255	195	143	99.6	61.7	30.8	9.73	1.16
25	3274	2926	2456	1890	1391	981	692	507	384	302	240	184	135	93.8	58.1	28.9	9.18	1.16
30	2070	1840	1598	1272	979	744	561	431	341	277	222	171	126	87.3	53.8	26.8	8.50	1.16
35	1242	1145	1016	858	696	562	455	368	301	249	201	156	115	79.9	49.0	24.4	7.71	1.16
40	773	735	667	594	510	435	371	315	265	221	179	140	104	71.6	43.7	21.7	6.96	1.16
45	515	498	465	431	389	346	306	268	230	192	156	122	91.4	62.6	38.2	18.9	6.22	1.16
50	371	364	349	331	308	281	254	226	196	163	133	104	78.0	53.3	32.4	16.1	5.42	1.16
55	283	280	273	261	247	228	208	186	161	134	109	85.8	64.0	43.9	26.6	13.4	4.64	1.16
60	215	213	209	201	192	179	163	144	126	105	85.8	67.2	50.3	34.5	21.0	10.8	3.96	1.16
65	153	153	150	145	139	130	117	104	91.4	77.3	63.0	49.4	37.1	25.7	15.7	8.18	3.24	1.16
70	104	104	102	98.8	94.6	88.3	79.6	70.4	61.7	52.6	42.7	33.5	25.3	17.7	11.1	5.96	2.70	1.16
75	63.2	63.4	61.8	59.2	56.5	52.6	47.6	42.2	37.0	31.6	25.7	20.1	15.3	10.9	7.08	4.13	2.21	1.16
80	29.8	30.3	29.2	27.7	26.5	25.1	22.6	19.9	17.6	15.3	12.5	9.88	7.86	5.96	4.13	2.73	1.78	1.16
85	7.77	8.01	7.82	7.53	7.38	7.12	6.48	5.85	5.44	4.93	4.21	3.60	3.10	2.71	2.22	1.79	1.47	1.16
90	0.53	0.55	0.58	0.60	0.61	0.61	0.66	0.70	0.74	0.79	0.85	0.91	0.96	1.02	1.08	1.14	1.15	1.16

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 400W 6500K