

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	787.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	109.7V x 109.8H
	At 50% of I _{max}	69.5V x 69.3H
	At 90% of I _{max}	50.4V x 51.0H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of I _{max}	905.6 lumens per klm.
	To 50% of I _{max}	630.7 lumens per klm.
	To 90% of I _{max}	178.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

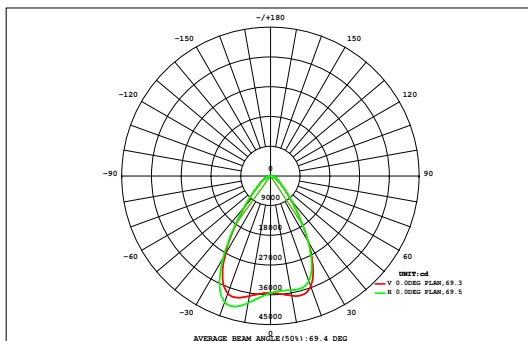
Luminaire Efficiency (Light Output Ratio)	100.0 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 17/12/2021

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 400W 6500K

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.15V I:1.7605A P:399.20W PF:0.9852 Freq:50.01Hz Lamp Flux:52407.5x1 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:131.28lm/W	
MODEL	KYH-XL	Imax (cd)	41273
NOMINAL POWER (W)	400	AVAILABILITY (%)	90.5
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	47446
NOMINAL FLUX (lm)	52407.5	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	52408
TEST VOLTAGE (V)	230	θ @50% (H, V)	69, 69DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.06	0.20	0.50	1.02	1.71	2.46	3.13	3.51	3.61	3.42	2.92	2.24	1.54	0.92	0.45	0.17	0.03	27.9	0.00
80	0.02	0.27	1.41	4.03	8.19	13.2	18.4	22.3	24.3	24.5	23.1	19.9	15.0	10.0	5.56	2.41	0.65	0.07	193	0.00
70	0.04	0.85	4.35	11.5	22.1	34.3	46.3	55.1	59.8	60.2	56.6	48.9	37.5	25.1	14.0	6.05	1.59	0.13	484	0.00
60	0.08	1.76	8.37	21.0	39.4	61.0	84.4	105	118	119	109	90.4	66.7	44.0	24.3	10.6	2.79	0.21	905	199
50	0.13	2.81	12.6	30.6	57.8	96.9	151	210	253	258	224	168	110	65.4	35.0	15.3	4.07	0.31	1694	1360
40	0.19	3.82	16.3	39.9	79.9	155	286	459	591	605	496	329	183	93.1	45.9	19.4	5.26	0.40	3409	3186
30	0.25	4.69	19.3	48.2	106	240	513	847	1056	1077	909	594	292	128	56.3	22.9	6.27	0.49	5920	5745
20	0.29	5.31	21.4	54.4	130	332	730	1090	1219	1234	1154	839	414	162	64.5	25.4	6.97	0.55	7484	7329
10	0.31	5.62	22.5	58.0	145	385	826	1105	1131	1141	1153	938	483	181	69.2	26.7	7.32	0.58	7678	7531
0	0.31	5.62	22.5	57.7	144	380	801	1065	1079	1076	1091	896	469	178	68.8	26.6	7.31	0.58	7369	7222
-10	0.29	5.29	21.3	53.5	126	311	666	970	1061	1065	1003	742	373	152	63.1	25.2	6.94	0.54	6645	6486
-20	0.25	4.66	19.0	46.6	101	221	446	705	856	866	736	491	255	117	53.8	22.5	6.22	0.48	4946	4761
-30	0.19	3.77	15.8	38.4	76.0	141	249	373	459	464	386	265	156	85.1	43.5	18.9	5.20	0.40	2779	2536
-40	0.13	2.74	12.0	29.6	54.9	89.4	133	177	204	205	180	138	95.5	59.9	33.4	14.6	3.98	0.31	1435	1041
-50	0.08	1.67	7.89	20.2	37.2	57.2	76.5	92.9	101	102	94.3	78.9	60.3	40.6	23.2	10.1	2.68	0.21	807	49.3
-60	0.04	0.77	3.98	10.7	20.5	32.0	42.2	49.9	53.4	53.8	50.9	44.0	34.3	23.1	13.1	5.61	1.48	0.12	440	0.00
-70	0.02	0.23	1.21	3.54	7.18	11.7	16.1	19.5	21.2	21.4	20.3	17.3	13.2	8.80	4.92	2.11	0.58	0.06	169	0.00
-80	0.01	0.05	0.15	0.36	0.73	1.22	1.74	2.21	2.48	2.55	2.41	2.07	1.63	1.13	0.69	0.35	0.14	0.03	19.9	0.00
-90	0.01	0.05	0.15	0.36	0.73	1.22	1.74	2.21	2.48	2.55	2.41	2.07	1.63	1.13	0.69	0.35	0.14	0.03	19.9	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	2.64	50.0	210	529	1156	2564	5088	7351	8294	8378	7693	5704	3061	1376	620	255	69.6	5.51	52408	---
Φ a	0.00	0.00	0.00	18.3	743	2216	4765	7037	7984	8069	7380	5385	2728	1002	120	0.00	0.00	0.00	---	47446

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

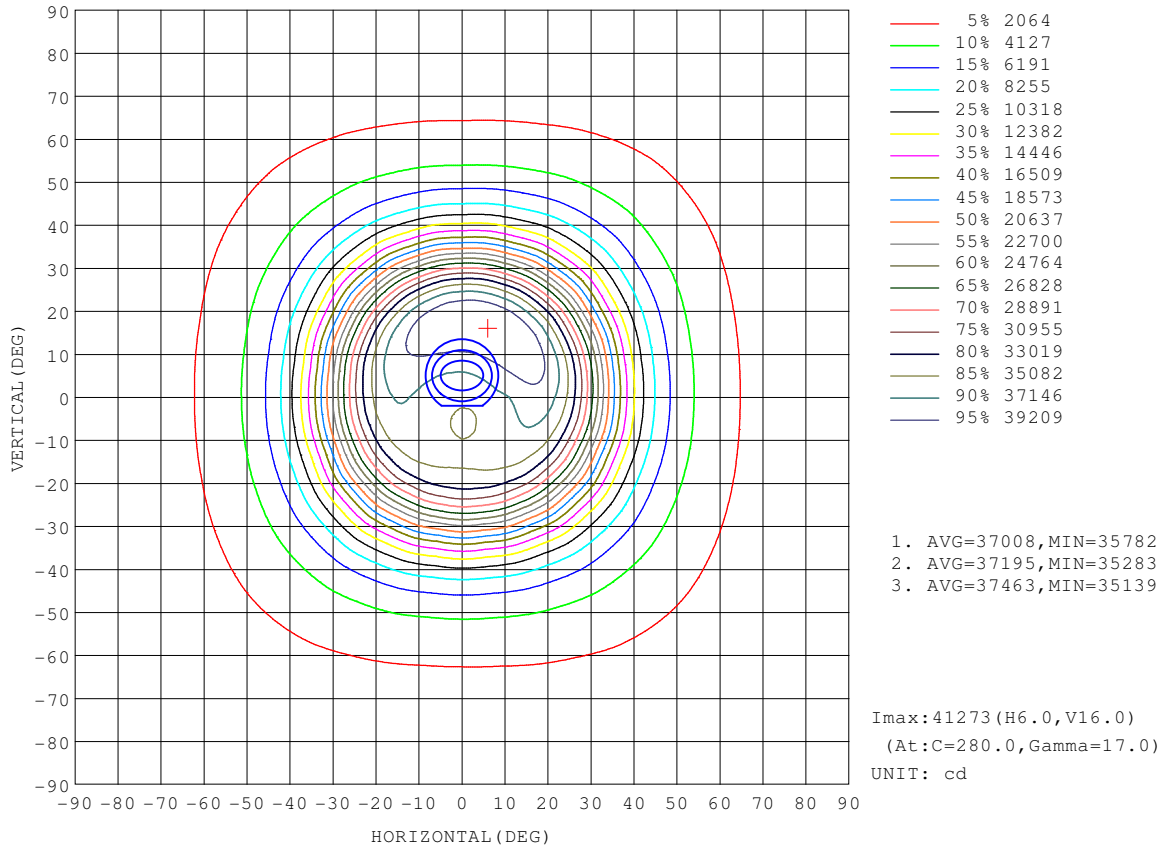
NEMA Beam Type: Type 6

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

γ Range: 0 - 90DEG
 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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NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:400 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

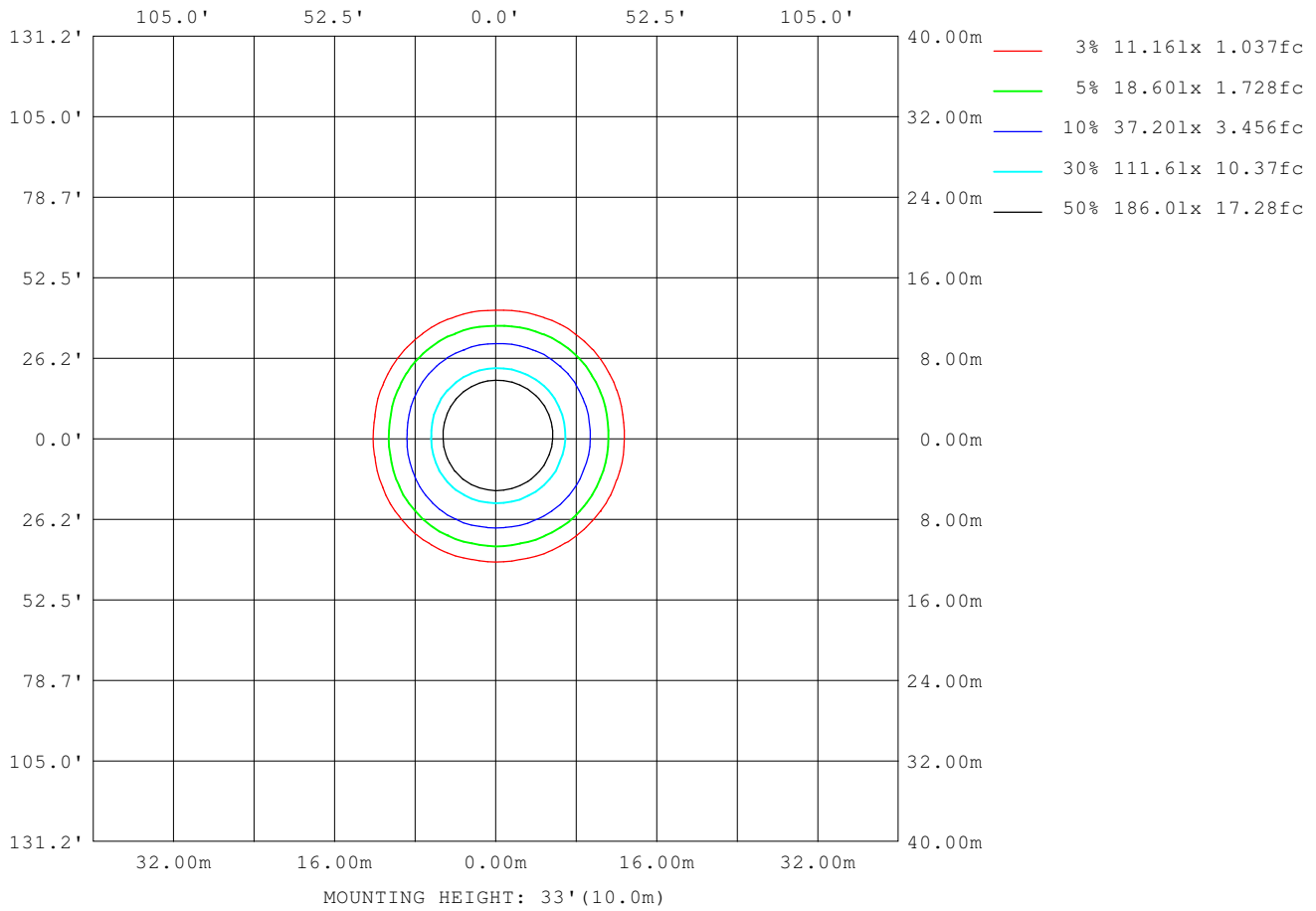


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ISOLUX DIAGRAM

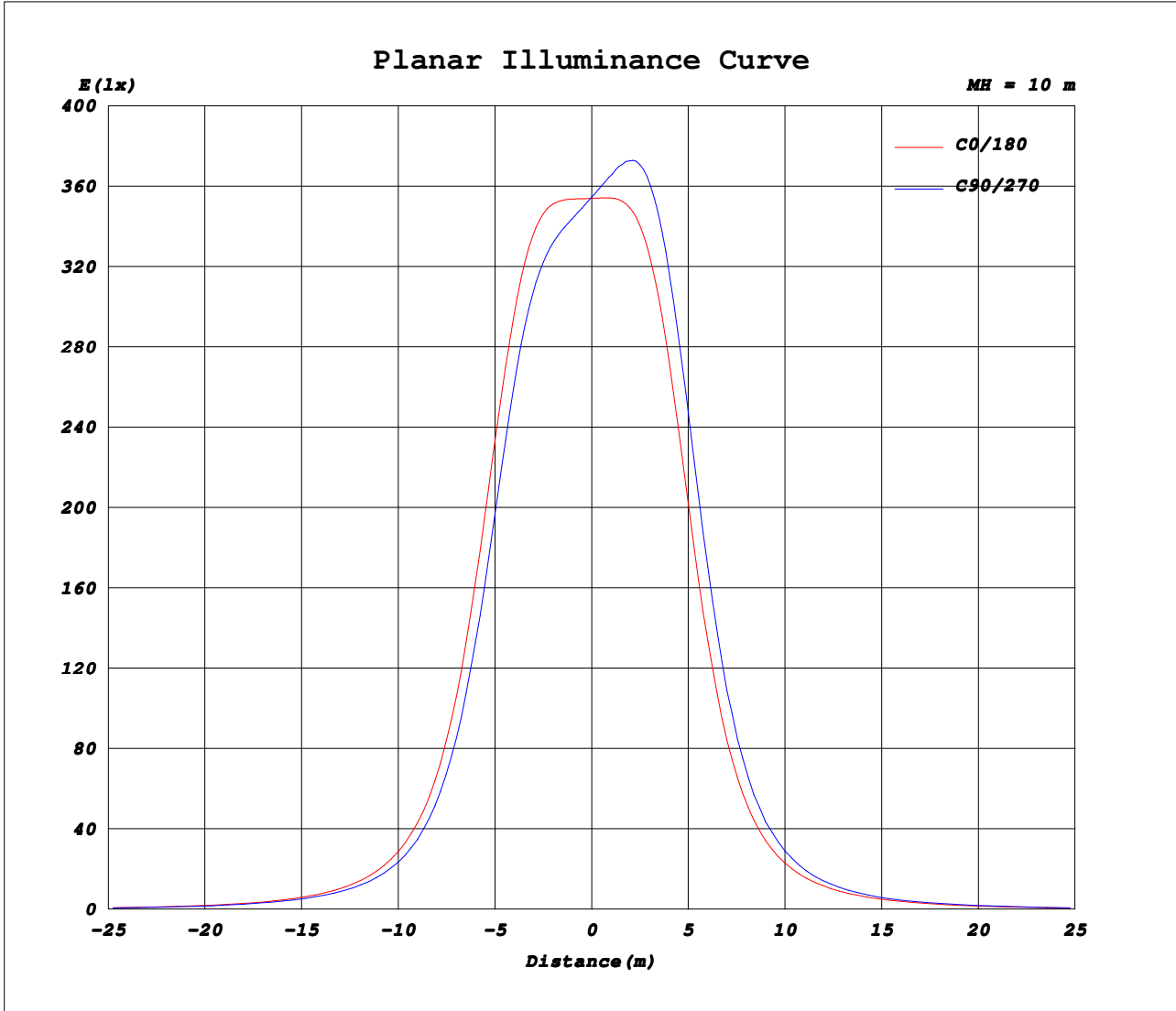
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Planar Illuminance Curve

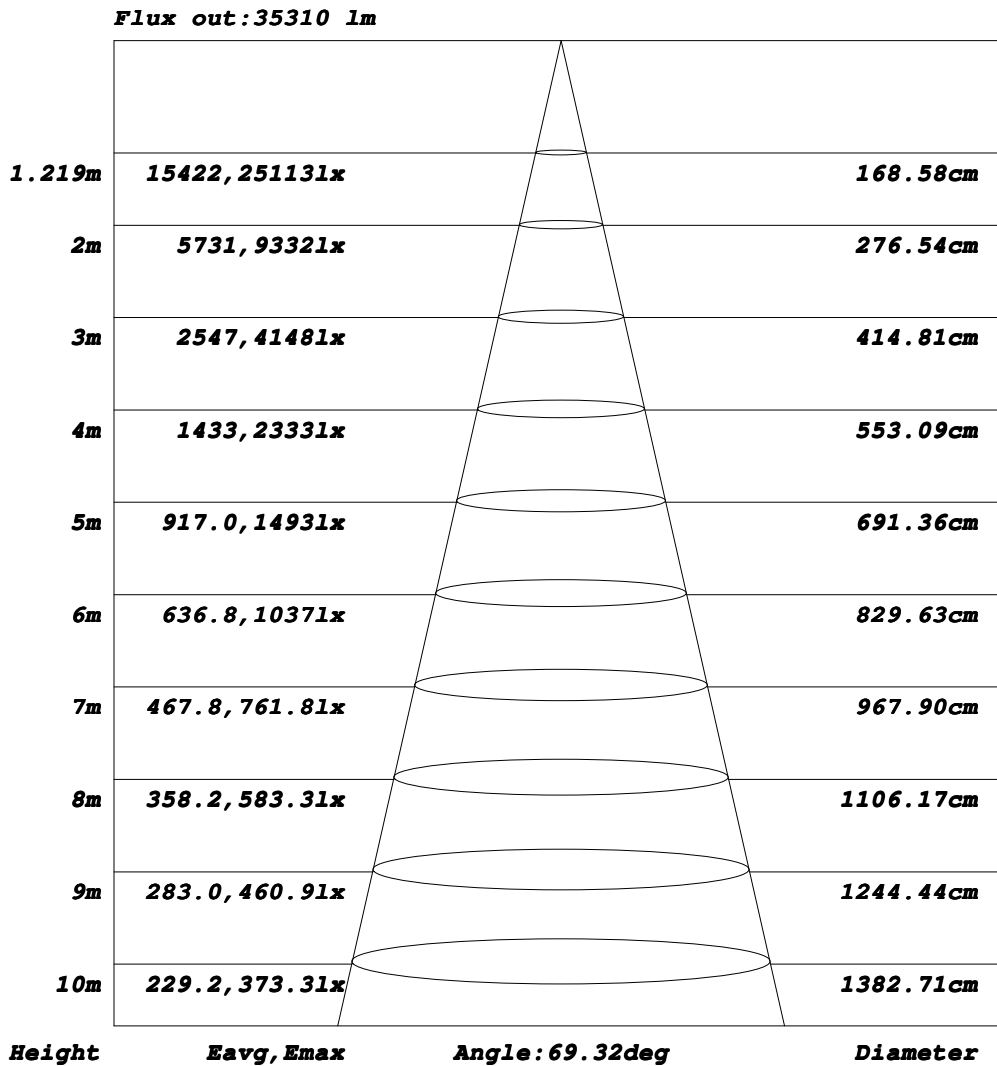


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AAI Figure

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NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:400 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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C Interval: 10.0DEG
Test Speed: HIGH
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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: 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	0.39	0.37	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
-85	0.39	0.36	0.34	0.51	0.74	0.97	1.19	1.37	1.64	2.04	2.44	2.75	3.13	3.65	4.11	4.31	4.43	4.70	4.88
-80	0.39	0.36	0.78	1.22	1.81	2.86	4.50	6.54	8.96	11.7	14.6	17.0	19.3	22.3	25.1	26.3	27.0	28.2	28.8
-75	0.39	0.54	1.24	2.24	4.45	8.35	13.4	19.0	24.9	31.7	39.0	45.1	50.5	56.3	61.6	64.8	66.3	68.6	70.2
-70	0.39	0.79	1.85	4.54	10.0	17.3	27.0	37.2	48.4	60.0	72.3	83.0	92.8	102	109	114	116	118	119
-65	0.39	1.03	2.82	8.32	17.1	29.4	44.1	60.2	76.7	93.9	111	127	141	152	162	168	171	175	176
-60	0.39	1.22	4.33	13.1	26.2	43.6	64.2	86.8	109	132	156	177	194	209	223	233	239	243	245
-55	0.39	1.41	6.45	18.7	36.4	59.4	85.6	115	143	173	201	229	253	275	296	312	322	329	333
-50	0.39	1.67	8.80	24.7	47.3	75.0	107	142	177	212	247	285	322	357	392	423	441	455	462
-45	0.39	1.97	11.3	31.0	58.3	91.0	128	167	210	252	299	354	413	473	533	590	630	654	668
-40	0.39	2.24	14.0	37.3	68.6	106	147	193	242	297	361	440	537	642	745	852	935	983	1010
-35	0.39	2.57	16.6	43.2	78.5	120	165	217	275	348	436	552	703	886	1065	1249	1402	1485	1550
-30	0.39	3.02	19.2	48.6	87.7	133	183	240	308	400	526	694	921	1208	1513	1790	2048	2169	2251
-25	0.39	3.40	21.4	53.7	95.7	144	198	262	342	456	623	865	1186	1595	2059	2417	2710	2873	2951
-20	0.39	3.72	23.2	57.9	102	153	211	281	375	511	720	1042	1503	2036	2572	2986	3226	3346	3390
-15	0.39	3.96	24.6	61.3	108	161	222	298	405	566	820	1203	1781	2441	3001	3359	3512	3534	3525
-10	0.39	4.14	25.6	63.8	112	166	231	312	429	612	908	1373	2027	2739	3295	3568	3609	3552	3510
-5	0.39	4.24	26.2	65.3	114	170	237	321	445	642	968	1493	2211	2957	3470	3666	3636	3543	3492
0	0.39	4.27	26.3	65.7	114	171	238	324	451	653	989	1534	2275	3047	3556	3727	3678	3583	3540
5	0.39	4.25	26.2	65.4	114	170	237	323	448	646	977	1502	2248	3038	3590	3801	3788	3710	3685
10	0.39	4.16	25.7	64.0	112	167	233	315	434	619	929	1426	2144	2937	3538	3854	3934	3911	3898
15	0.39	4.00	24.7	61.6	108	162	225	303	414	585	861	1301	1931	2671	3342	3782	3999	4070	4089
20	0.39	3.76	23.3	58.3	103	154	215	288	389	537	765	1115	1628	2296	2962	3479	3824	3998	4065
25	0.39	3.45	21.5	54.1	96.3	145	203	270	358	480	659	933	1332	1852	2400	2928	3316	3570	3663
30	0.39	3.07	19.3	49.1	88.6	135	188	249	323	421	558	760	1043	1387	1802	2220	2547	2804	2884
35	0.39	2.62	16.8	43.6	80.0	123	171	225	286	364	467	609	788	1012	1279	1539	1766	1949	1981
40	0.39	2.29	14.2	37.7	70.5	110	153	199	251	312	388	481	594	731	884	1030	1161	1256	1270
45	0.39	2.01	11.5	31.6	60.3	95.0	133	173	217	266	321	382	453	535	619	695	766	812	822
50	0.39	1.72	9.02	25.4	49.7	79.2	112	146	183	223	263	304	350	399	444	485	521	542	546
55	0.39	1.45	6.67	19.6	38.8	63.1	89.7	119	150	182	212	242	273	303	327	351	370	379	380
60	0.39	1.27	4.58	13.9	28.5	47.1	67.8	91.1	116	142	166	189	210	229	245	258	269	274	274
65	0.39	1.08	2.99	9.10	19.4	32.2	47.2	64.3	83.2	102	119	137	154	167	177	186	193	196	195
70	0.39	0.84	1.97	5.20	11.5	19.7	29.2	40.8	53.6	65.9	78.1	90.5	102	112	119	125	130	131	130
75	0.39	0.58	1.36	2.64	5.58	9.91	15.1	21.8	29.2	36.6	43.7	51.4	58.3	64.6	69.7	74.2	77.7	78.9	78.9
80	0.39	0.40	0.89	1.45	2.32	3.70	5.59	8.42	11.7	14.6	17.8	21.6	25.3	28.0	30.5	33.2	35.4	35.8	35.5
85	0.39	0.39	0.41	0.69	1.04	1.30	1.57	1.95	2.56	3.12	3.63	4.44	5.37	5.95	6.46	7.22	7.92	8.02	8.01
90	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.43	0.47	0.51	0.54	0.56	0.60

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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	0.36	0.36	0.37	0.37	0.37	0.38	0.41	0.44	0.48	0.53	0.57	0.62	0.67	0.72	0.79	0.85	0.92	1.00
-85	4.95	4.92	5.00	5.00	4.74	4.37	4.18	3.99	3.59	3.09	2.78	2.53	2.06	1.76	1.57	1.32	1.14	1.00
-80	28.9	28.4	28.1	27.1	25.1	23.0	21.4	19.3	16.3	13.7	11.4	9.01	6.80	4.76	3.30	2.13	1.35	1.00
-75	69.5	68.0	67.4	65.1	60.9	55.9	51.6	46.0	39.5	33.0	27.1	21.2	15.3	10.6	6.56	3.63	1.73	1.00
-70	119	118	117	114	107	99.6	91.0	81.2	70.0	58.9	48.3	37.6	27.5	18.2	11.3	5.78	2.17	1.00
-65	176	174	172	167	159	149	137	122	106	90.0	74.0	57.8	42.0	28.4	17.1	8.42	2.73	1.00
-60	244	241	237	228	217	203	188	169	146	124	103	80.0	58.9	39.6	23.9	11.4	3.56	1.00
-55	331	325	317	302	283	263	241	215	188	160	132	104	76.0	51.9	31.2	15.0	4.35	1.00
-50	457	445	428	400	369	336	301	265	229	195	161	127	93.8	64.5	38.9	18.7	5.29	1.00
-45	659	637	600	547	492	436	377	323	275	231	189	149	112	76.6	46.6	22.4	6.28	1.00
-40	990	947	871	772	674	573	476	395	328	269	217	170	128	88.5	54.3	25.8	7.19	1.00
-35	1501	1430	1288	1110	943	763	608	486	389	309	245	191	143	100	61.4	29.2	8.08	1.00
-30	2196	2102	1867	1609	1312	1019	783	598	456	351	273	212	158	111	67.7	32.4	8.98	1.00
-25	2908	2781	2533	2202	1762	1347	1000	724	530	396	301	230	171	119	73.4	35.3	9.75	1.00
-20	3375	3295	3109	2762	2266	1738	1230	857	606	440	328	247	182	126	78.2	37.8	10.4	1.00
-15	3543	3557	3472	3210	2732	2086	1455	997	683	483	351	261	191	132	82.0	39.7	10.9	1.00
-10	3544	3626	3658	3504	3067	2398	1692	1128	753	518	370	271	197	136	84.8	41.1	11.2	1.00
-5	3529	3640	3740	3679	3318	2640	1862	1217	798	540	381	277	201	139	86.5	41.9	11.5	1.00
0	3577	3688	3811	3787	3442	2747	1923	1249	816	549	385	279	202	140	87.1	42.2	11.5	1.00
5	3747	3867	3960	3877	3471	2741	1908	1239	810	546	384	278	202	139	86.7	41.9	11.5	1.00
10	3946	4037	4051	3851	3361	2607	1810	1178	775	528	374	273	198	137	85.1	41.2	11.3	1.00
15	4111	4119	4003	3668	3080	2342	1638	1083	724	500	358	263	192	133	82.4	39.8	10.9	1.00
20	4057	3959	3708	3283	2668	1980	1386	950	656	464	338	251	184	127	78.6	38.0	10.4	1.00
25	3637	3458	3149	2682	2153	1608	1134	806	576	423	314	237	173	120	73.9	35.6	9.83	1.00
30	2861	2669	2398	2024	1617	1247	915	668	496	376	288	219	161	112	68.3	32.8	9.07	1.00
35	1991	1856	1669	1432	1158	926	720	549	422	330	258	199	147	102	62.0	29.5	8.18	1.00
40	1284	1218	1104	984	833	685	558	448	357	286	228	178	132	90.9	55.0	26.1	7.30	1.00
45	827	796	738	676	594	509	432	364	300	245	198	155	116	79.1	47.5	22.5	6.40	1.00
50	550	538	510	476	435	386	337	293	249	207	168	132	99.1	67.3	39.9	18.9	5.41	1.00
55	383	378	364	346	324	295	264	235	204	170	137	109	80.6	54.9	32.4	15.3	4.47	1.00
60	276	274	266	255	243	225	205	183	160	133	108	84.2	63.0	42.4	25.2	11.8	3.67	1.00
65	197	196	191	184	176	165	150	133	115	97.3	78.6	61.4	45.6	31.1	18.3	8.73	2.82	1.00
70	132	131	129	125	119	111	99.9	88.4	77.1	65.2	52.6	40.5	30.4	21.0	12.2	6.07	2.25	1.00
75	79.6	79.1	77.1	73.8	70.2	65.0	58.7	51.9	45.3	38.3	30.6	23.6	17.7	12.2	7.41	3.88	1.79	1.00
80	36.3	36.5	35.3	33.6	31.8	29.6	26.4	23.0	20.4	17.6	14.0	11.1	8.35	6.04	3.88	2.29	1.40	1.00
85	8.37	8.59	8.26	7.81	7.64	7.36	6.60	5.85	5.42	4.81	3.97	3.30	2.73	2.30	1.82	1.42	1.20	1.00
90	0.62	0.65	0.67	0.70	0.71	0.72	0.74	0.75	0.78	0.80	0.84	0.88	0.91	0.94	0.97	0.99	0.99	1.00

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