

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		1135.9 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	93.3V x 89.2H 52.9V x 51.0H 32.0V x 26.3H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	1000.2 lumens per klm. 856.0 lumens per klm. 533.8 lumens per klm. 191.6 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency (Light Output Ratio)		100.0 %

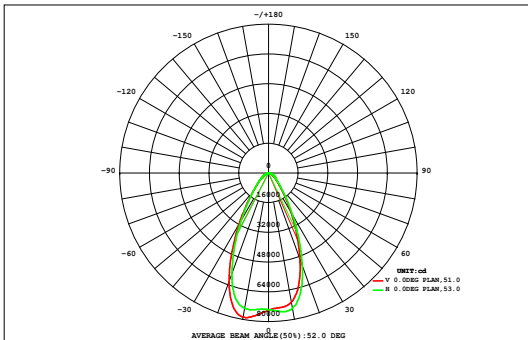
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**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 30/09/2021**

**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 550W 4000K**

### LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.44V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:69353.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:27 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	KYH-XL	Imax (cd)	78782
NOMINAL POWER (W)	550	AVAILABILITY (%)	85.5
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	59271
NOMINAL FLUX (lm)	69353.8	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	69354
TEST VOLTAGE (V)	230	θ @50% (H, V)	51,53DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a	
	0.01	0.09	0.30	0.73	1.41	2.30	3.29	4.19	4.99	5.37	4.94	4.08	3.01	1.98	1.13	0.53	0.21	0.05	38.6	0.00	
80	0.03	0.40	1.88	5.13	10.1	16.1	22.3	27.5	31.1	32.2	29.5	24.5	18.1	11.6	6.28	2.63	0.72	0.09	240	0.00	
70	0.07	1.14	5.41	14.1	26.6	41.4	56.8	68.7	77.0	79.5	71.0	58.5	42.9	27.8	15.3	6.55	1.72	0.16	595	0.00	
60	0.12	2.23	10.2	25.6	48.3	76.1	102	124	140	144	126	103	75.0	47.5	26.1	11.5	3.04	0.26	1065	0.00	
50	0.19	3.46	15.2	37.4	71.7	117	168	219	260	268	224	168	114	71.3	38.2	16.7	4.48	0.38	1797	599	
40	0.26	4.64	19.6	48.5	94.6	172	287	441	575	596	470	300	173	97.5	51.3	21.7	5.90	0.49	3359	2728	
30	0.33	5.64	23.0	57.5	118	244	505	907	1247	1289	983	568	271	129	63.4	26.1	7.13	0.59	6444	5969	
	0.37	6.34	25.4	63.7	138	330	793	1487	2005	2060	1641	936	404	162	72.9	29.6	8.05	0.67	10164	9762	
	0.40	6.67	26.7	67.3	151	388	977	1793	2222	2298	2053	1217	506	187	79.1	31.6	8.57	0.72	12012	11638	
	0.40	6.66	26.8	67.0	149	384	962	1779	2202	2277	2029	1216	507	189	79.6	31.8	8.64	0.73	11916	11540	
	0.37	6.31	25.5	63.0	132	309	742	1399	1881	1935	1557	905	395	164	74.2	30.2	8.24	0.69	9627	9212	
	0.32	5.59	22.7	55.2	108	216	445	802	1097	1136	886	530	269	131	64.9	27.0	7.43	0.62	5803	5305	
-30	0.25	4.55	18.7	44.9	84.7	143	242	371	483	497	408	283	176	101	53.6	22.8	6.25	0.52	2940	2240	
-40	0.18	3.32	14.1	33.7	62.2	99.0	141	184	222	225	199	159	117	75.2	41.1	17.7	4.84	0.41	1599	278	
-50	0.11	2.08	9.30	22.7	41.3	65.7	89.9	110	125	125	116	98.7	76.8	50.5	28.2	12.2	3.32	0.29	977	0.00	
-60	0.06	1.02	4.86	12.4	23.3	36.8	49.9	60.9	69.1	69.4	65.0	55.6	42.2	27.9	16.0	6.94	1.90	0.19	544	0.00	
-70	0.03	0.34	1.62	4.34	8.57	13.8	18.9	23.1	25.8	26.6	25.2	21.5	16.4	11.0	6.28	2.77	0.82	0.11	207	0.00	
-80	0.01	0.07	0.22	0.51	1.00	1.61	2.20	2.73	3.18	3.42	3.35	2.97	2.37	1.70	1.07	0.57	0.24	0.06	27.3	0.00	
-90																					
	0.01	0.09	0.30	0.73	1.41	2.30	3.29	4.19	4.99	5.37	4.94	4.08	3.01	1.98	1.13	0.53	0.21	0.05	38.6	0.00	
Φ t	3.50	60.5	251	624	1269	2655	5608	9803	12669	13066	10891	6651	3209	1487	719	299	81.5	7.03	69354	---	
Φ a	0.00	0.00	0.00	0.00	150	1811	4875	9098	11979	12379	10196	5932	2417	435	0.00	0.00	0.00	0.00	---	59271	

one-half-peak spread: U:18.7,D:19.5 , L:33.8,R:17.5

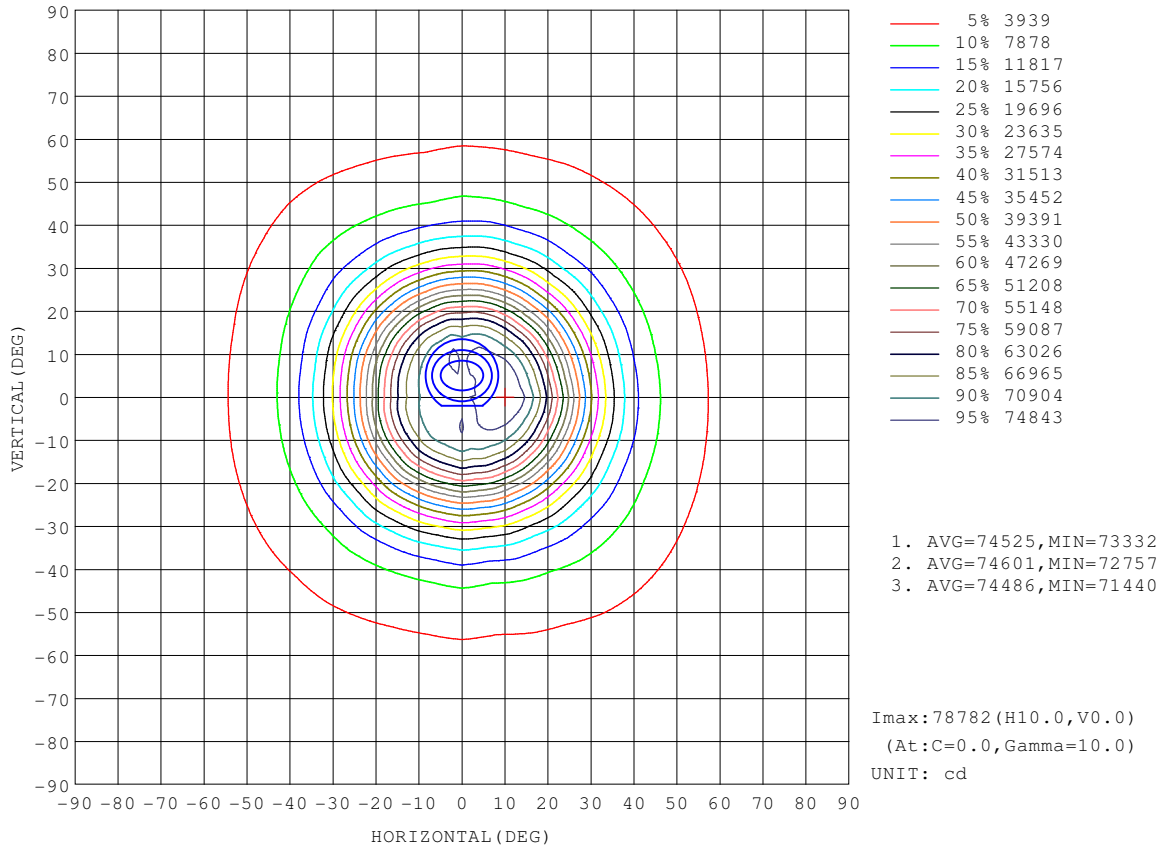
NEMA Beam Type: Type 5

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 20DEG  
 Operators: LITPA  
 Test Date: 30/09/2021

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 550W 4000K

## ISOCANDELA DIAGRAM

Test:U:230.44V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:69353.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:27 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

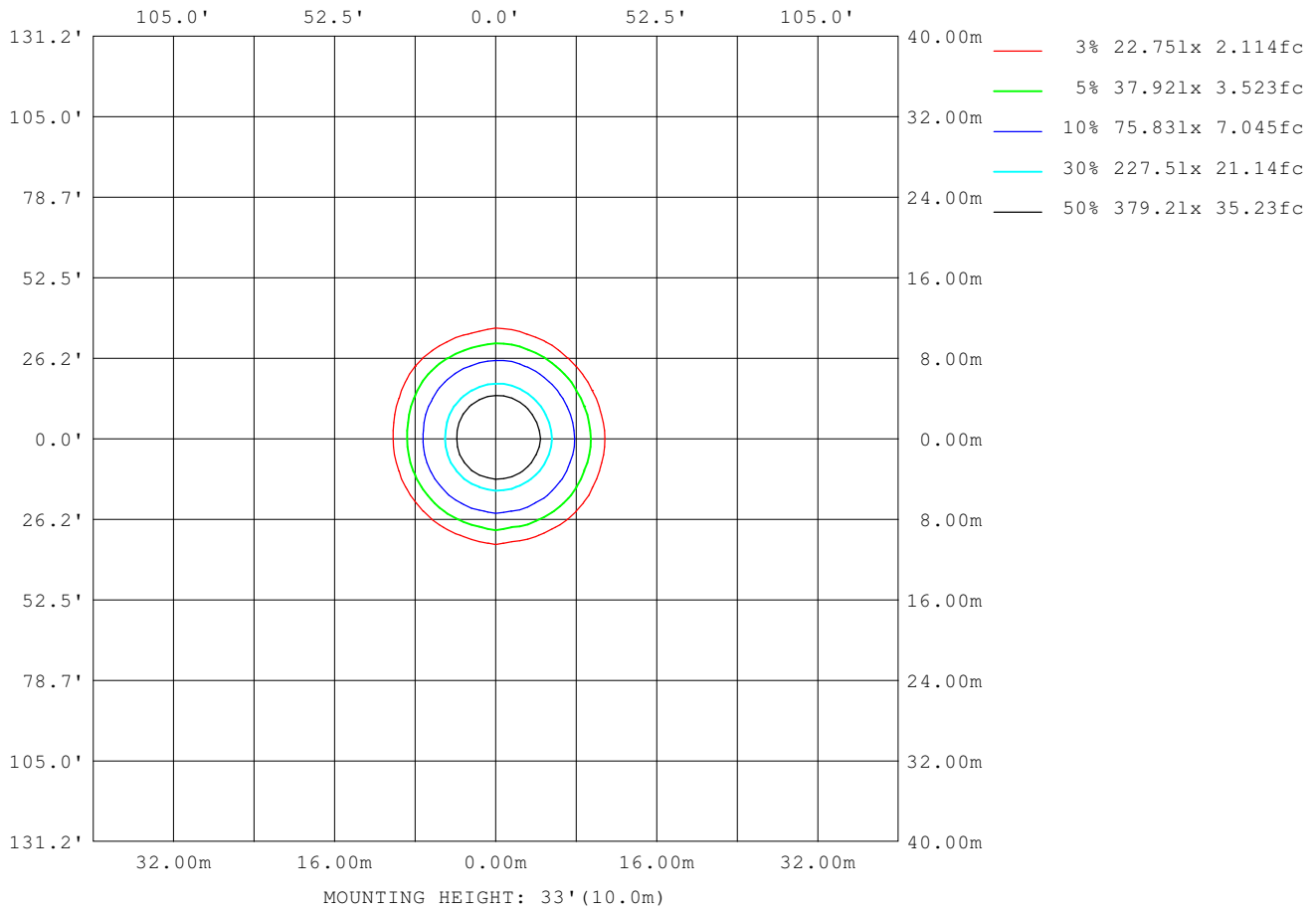


**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 30/09/2021**

**γ Range: 0 - 90DEG**  
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**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 7.200m [K=1.0000]**  
**Remarks: KYH-XL 550W 4000K**

## ISOLUX DIAGRAM

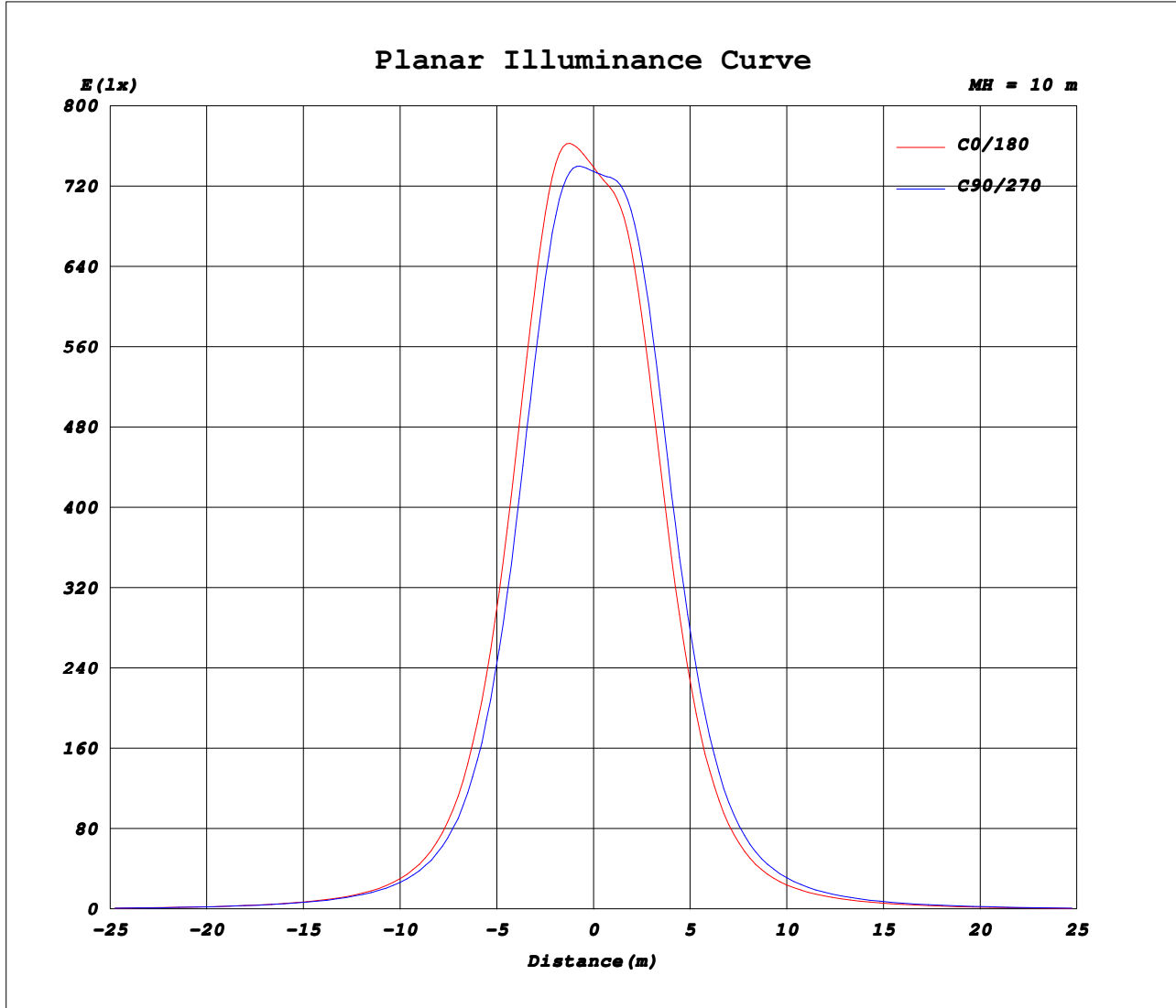
Test:U:230.44V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:69353.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:27 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 30/09/2021**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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 550W 4000K**

## Planar Illuminance Curve

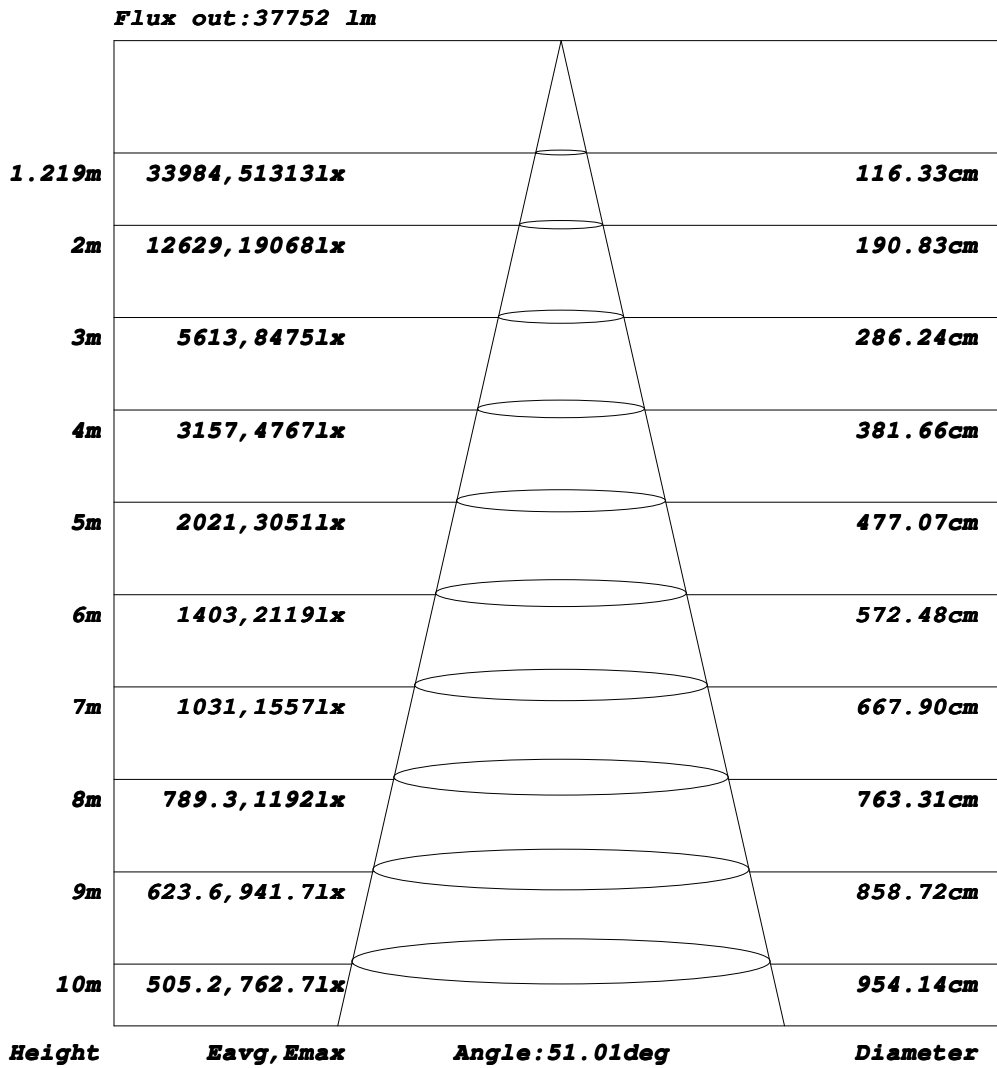


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: LITPA  
Test Date: 30/09/2021

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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 550W 4000K

## AAI Figure

Test:U:230.44V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:69353.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:27 kg
SPEC.:550 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.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: LITPA  
Test Date: 30/09/2021

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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 550W 4000K

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.44V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:69353.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:27 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT:  $\mu$ 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	0.49	0.46	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.45	0.45	0.45	0.45	0.46	0.46	0.47	0.47	0.48
-85	0.49	0.47	0.48	0.67	0.95	1.23	1.68	2.09	2.53	3.09	3.65	4.08	4.55	5.05	5.49	5.84	6.11	6.68	7.17
-80	0.49	0.48	0.84	1.71	2.88	4.32	6.35	9.00	11.8	14.9	18.8	21.5	23.8	26.6	29.3	31.2	32.6	34.6	36.1
-75	0.49	0.65	1.64	3.43	6.74	11.5	17.2	23.5	30.1	38.1	46.6	53.7	60.0	66.2	71.9	76.5	79.8	82.9	84.7
-70	0.49	0.89	2.73	6.53	13.4	22.2	32.8	44.4	56.6	69.5	84.0	97.1	109	119	128	136	143	147	150
-65	0.49	1.20	4.14	11.2	22.1	36.1	52.5	69.7	87.9	107	128	147	165	180	193	206	217	227	234
-60	0.49	1.66	6.07	16.9	32.5	52.6	74.6	98.6	122	147	175	202	226	248	267	286	302	316	325
-55	0.49	2.10	8.67	23.3	44.6	69.9	98.8	128	159	190	225	262	297	327	350	371	390	408	423
-50	0.49	2.59	11.6	30.4	57.0	88.5	123	160	197	236	280	329	370	407	439	469	500	529	554
-45	0.49	3.09	14.7	37.9	69.3	107	147	191	237	287	339	395	450	505	558	611	666	714	753
-40	0.49	3.54	17.8	45.4	81.9	125	172	222	279	340	399	467	552	645	743	846	942	1024	1083
-35	0.49	4.04	20.9	52.3	94.3	142	195	253	321	391	466	559	690	859	1034	1224	1404	1539	1645
-30	0.49	4.62	23.7	58.7	106	157	216	284	360	440	543	683	882	1158	1488	1823	2169	2388	2552
-25	0.49	5.12	26.2	64.4	114	172	236	313	395	492	631	841	1137	1564	2147	2693	3219	3602	3827
-20	0.49	5.54	28.5	69.1	122	184	253	338	426	544	725	1017	1471	2096	2895	3775	4498	5019	5326
-15	0.49	5.87	30.4	73.0	128	192	269	356	455	593	821	1193	1801	2659	3699	4812	5763	6315	6659
-10	0.49	6.10	31.6	75.7	132	198	278	370	477	638	905	1365	2100	3151	4408	5685	6642	7157	7404
-5	0.49	6.25	32.4	77.2	134	201	283	378	493	668	970	1485	2313	3473	4869	6197	7032	7350	7484
0	0.49	6.31	32.6	77.5	134	202	283	380	499	682	993	1533	2380	3575	4963	6271	7066	7266	7391
5	0.49	6.29	32.5	77.3	134	201	282	379	497	677	982	1497	2339	3515	4894	6228	7082	7397	7373
10	0.49	6.18	31.8	76.0	132	198	277	371	485	652	938	1411	2190	3290	4555	5852	6856	7376	7399
15	0.49	5.97	30.6	73.4	128	192	268	358	469	623	876	1285	1924	2841	3973	5121	6142	6779	6936
20	0.49	5.67	28.9	69.8	122	183	256	343	446	582	793	1110	1589	2312	3211	4118	4951	5574	5785
25	0.49	5.28	26.7	65.2	115	173	243	324	419	536	705	952	1303	1792	2389	3078	3671	4137	4329
30	0.49	4.80	24.2	59.6	106	162	226	302	386	484	620	808	1056	1345	1723	2157	2529	2850	2992
35	0.49	4.24	21.4	53.2	96.1	148	207	274	349	432	542	685	839	1023	1234	1465	1678	1861	1935
40	0.49	3.74	18.4	46.4	85.0	132	185	244	309	382	467	567	669	777	894	1018	1123	1215	1270
45	0.49	3.28	15.2	39.2	73.1	115	161	211	268	331	397	464	534	599	665	731	782	834	887
50	0.49	2.78	12.5	31.9	60.7	96.3	135	178	225	278	331	379	425	467	508	545	569	602	643
55	0.49	2.28	9.70	24.9	48.0	76.9	109	145	182	222	265	305	340	368	395	418	432	454	479
60	0.49	1.84	6.78	18.3	35.5	58.0	82.9	111	140	170	200	232	261	285	305	322	332	347	361
65	0.49	1.37	4.77	12.6	24.8	40.1	58.2	78.6	101	122	142	164	185	204	220	232	239	253	266
70	0.49	1.02	3.24	7.60	15.2	25.3	36.7	50.6	65.5	80.2	93.9	109	123	135	146	155	162	168	173
75	0.49	0.71	2.04	4.27	8.05	13.3	19.8	27.9	36.8	45.4	53.7	62.5	70.9	78.9	85.6	91.7	96.5	100	103
80	0.49	0.49	1.11	2.23	3.74	5.65	8.09	11.5	15.5	19.3	23.2	27.5	31.8	35.5	38.7	41.8	44.5	47.2	49.2
85	0.49	0.49	0.50	0.85	1.40	1.90	2.47	3.14	4.01	4.80	5.53	6.57	7.71	8.79	9.89	10.6	11.2	12.4	13.4
90	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.51	0.51	0.57	0.63	0.67	0.71	0.85	0.99

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 30/09/2021**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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 550W 4000K**

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.44V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:69353.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:27 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT:  $\mu\text{A10cd}$

H (DEG) \ V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.47	0.46	0.47	0.47	0.48	0.48	0.52	0.55	0.62	0.68	0.75	0.82	0.90	0.98	1.12	1.26	1.45	1.64
-85	7.44	7.59	7.83	7.89	7.65	7.28	6.91	6.52	5.96	5.31	4.81	4.38	3.75	3.28	2.91	2.45	2.00	1.64
-80	36.5	36.2	36.1	35.3	33.1	30.6	28.3	25.9	22.3	18.7	15.9	12.8	9.89	7.37	5.44	3.84	2.55	1.64
-75	85.6	85.1	83.8	81.1	76.0	70.0	64.4	57.7	49.7	41.9	34.6	27.5	20.4	14.1	9.49	5.83	3.22	1.64
-70	150	148	146	141	132	122	111	98.7	85.5	72.4	59.9	47.3	34.8	23.8	15.1	8.48	3.93	1.64
-65	227	221	220	212	200	185	167	148	128	109	90.3	70.8	52.3	35.7	22.3	11.7	4.73	1.64
-60	316	306	305	294	277	259	237	207	177	150	125	97.5	71.8	49.1	30.1	15.3	5.76	1.64
-55	409	397	392	377	355	335	309	273	232	195	160	125	92.5	63.4	38.9	19.7	6.75	1.64
-50	530	512	503	475	445	416	380	339	292	242	196	153	114	78.1	47.9	23.9	7.95	1.64
-45	718	692	667	615	567	520	463	405	348	290	232	181	135	92.4	57.0	27.9	9.24	1.64
-40	1037	997	930	826	744	656	565	480	404	336	268	208	154	106	65.7	32.3	10.4	1.64
-35	1579	1508	1351	1165	1003	837	693	567	464	380	303	233	173	120	73.8	36.4	11.5	1.64
-30	2466	2326	2015	1696	1372	1080	852	668	527	423	336	258	189	132	80.9	40.1	12.6	1.64
-25	3729	3478	2987	2444	1871	1407	1055	784	593	464	367	280	204	142	87.4	43.3	13.4	1.64
-20	5193	4808	4159	3360	2534	1839	1282	909	662	505	395	299	216	150	92.7	46.2	14.2	1.64
-15	6517	6133	5371	4342	3275	2276	1522	1038	735	544	418	315	227	157	97.1	48.4	14.7	1.64
-10	7313	7091	6387	5218	3906	2708	1788	1174	802	576	436	327	235	162	100	50.0	15.1	1.64
-5	7555	7594	7045	5872	4425	3050	1981	1265	844	597	447	333	240	165	102	50.9	15.4	1.64
0	7677	7878	7423	6218	4663	3198	2048	1298	861	606	450	335	241	165	102	51.2	15.4	1.64
5	7606	7714	7126	5904	4374	3045	1964	1252	839	592	443	332	238	164	101	50.5	15.2	1.64
10	7554	7347	6601	5337	3968	2747	1804	1159	790	567	429	324	232	160	98.8	49.2	14.9	1.64
15	6996	6521	5676	4535	3369	2345	1573	1049	727	536	409	310	222	153	95.0	47.3	14.4	1.64
20	5764	5274	4480	3605	2685	1888	1298	908	657	496	387	291	211	145	89.8	44.7	13.7	1.64
25	4281	3911	3335	2642	2029	1471	1051	770	583	456	359	270	197	136	83.7	41.5	13.0	1.64
30	2966	2695	2325	1875	1458	1119	847	647	511	412	327	247	181	126	76.6	38.1	12.0	1.64
35	1937	1775	1559	1310	1044	850	678	547	446	366	289	221	164	114	68.9	34.2	11.0	1.64
40	1265	1176	1053	928	782	655	551	463	387	317	251	196	146	101	60.7	30.0	9.86	1.64
45	867	815	742	674	596	520	452	390	330	268	215	170	127	86.8	52.4	25.5	8.66	1.64
50	624	592	549	511	470	421	373	324	271	223	181	143	108	72.9	43.8	21.4	7.37	1.64
55	467	449	424	400	375	340	300	258	218	182	147	117	86.8	59.3	35.4	17.3	6.20	1.64
60	356	346	329	309	290	261	230	200	171	143	116	91.1	67.5	46.0	27.2	13.1	5.27	1.64
65	262	255	239	224	211	193	171	149	128	107	85.9	66.6	49.5	33.5	19.9	9.91	4.31	1.64
70	174	172	163	153	144	133	118	103	88.0	72.9	58.5	44.9	33.0	22.4	13.2	6.99	3.59	1.64
75	104	103	98.7	92.8	87.1	79.9	70.6	61.5	52.8	44.0	34.7	26.1	19.3	13.2	8.27	4.68	2.96	1.64
80	49.6	49.2	46.9	43.9	41.3	38.1	33.3	28.5	24.5	20.8	16.3	12.2	9.41	6.75	4.57	3.11	2.35	1.64
85	13.7	13.8	13.1	12.2	11.6	10.8	9.48	8.18	7.25	6.22	5.02	4.11	3.43	2.95	2.52	2.06	1.81	1.64
90	1.00	1.02	0.99	0.96	0.95	0.94	0.91	0.87	0.87	0.86	0.85	0.83	0.84	0.84	0.87	0.90	1.27	1.64

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 20DEG  
 Operators: LITPA  
 Test Date: 30/09/2021

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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 550W 4000K