

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	683.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	123.2V x 114.6H
	At 50% of Imax	76.1V x 71.3H
	At 90% of Imax	53.3V x 23.1H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	928.1 lumens per klm.
	To 50% of Imax	631.5 lumens per klm.
	To 90% of Imax	165.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

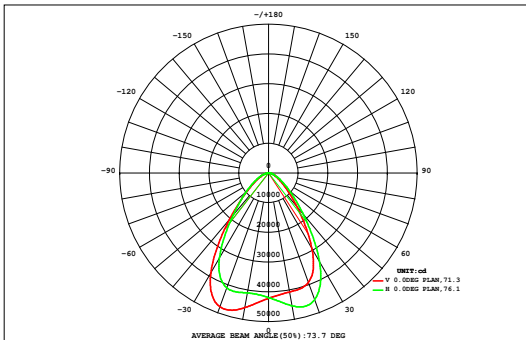
Luminaire Efficiency (Light Output Ratio)	100.0 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 24/09/2021

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:230.53V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:70403.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:22 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	KYH-XL	Imax (cd)	48122
NOMINAL POWER (W)	550	AVAILABILITY (%)	92.7
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	65268
NOMINAL FLUX (lm)	70403.8	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	70404
TEST VOLTAGE (V)	230	θ @50% (H, V)	71,76DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm		Φ t	Φ a	
	0.02	0.10	0.30	0.76	1.57	2.78	4.14	5.39	6.28	6.38	5.75	4.53	3.18	2.05	1.10	0.47	0.17			0.04
90	0.02	0.10	0.30	0.76	1.57	2.78	4.14	5.39	6.28	6.38	5.75	4.53	3.18	2.05	1.10	0.47	0.17	0.04	45.0	0.00
80	0.03	0.43	2.22	6.29	12.8	21.1	29.8	36.9	41.6	42.0	38.0	30.7	22.3	14.3	7.45	2.92	0.70	0.08	310	0.00
70	0.07	1.37	6.85	18.1	35.0	55.1	74.6	90.9	104	107	97.2	78.4	56.1	35.7	19.0	7.84	1.87	0.15	789	0.00
60	0.13	2.80	13.2	33.3	64.0	101	140	178	208	215	190	147	101	62.2	33.0	14.1	3.51	0.26	1506	991
50	0.21	4.46	19.8	48.9	97.7	170	252	333	400	411	352	258	164	94.1	48.7	20.8	5.36	0.39	2679	2403
40	0.31	6.04	25.6	64.1	137	263	427	607	745	766	644	443	259	135	66.1	27.5	7.20	0.54	4624	4418
30	0.40	7.38	30.2	77.6	178	370	670	961	1118	1148	1015	726	395	186	84.1	33.6	8.82	0.67	7010	6846
	0.46	8.33	33.4	87.1	211	477	878	1164	1237	1267	1227	987	557	242	100	38.3	10.00	0.77	8525	8381
	0.49	8.78	35.1	92.3	228	535	962	1186	1241	1270	1305	1144	687	290	111	40.8	10.6	0.83	9149	9015
	0.49	8.82	35.6	93.7	231	545	982	1234	1306	1350	1390	1202	722	303	113	41.0	10.7	0.84	9569	9436
	0.46	8.44	34.7	89.7	206	465	885	1222	1376	1412	1328	1055	606	264	105	38.9	10.2	0.79	9108	8968
	0.39	7.51	31.0	75.7	162	342	655	1005	1200	1236	1087	775	442	208	89.2	34.7	9.15	0.71	7361	7196
-30	0.31	6.11	25.0	60.1	120	226	407	615	758	779	665	473	287	153	71.5	28.8	7.65	0.59	4685	4478
-40	0.21	4.40	18.5	44.6	85.3	147	235	324	386	391	342	260	178	105	53.7	22.2	5.86	0.45	2602	2313
-50	0.13	2.67	12.0	29.8	56.1	92.2	133	169	193	192	172	139	104	67.5	36.4	15.1	3.95	0.31	1418	823
-60	0.07	1.24	6.11	16.2	31.2	50.4	69.7	85.2	94.7	93.7	85.4	71.7	55.6	36.6	20.1	8.41	2.19	0.19	729	0.00
-70	0.03	0.37	1.88	5.41	11.1	18.3	25.0	30.2	33.5	33.9	31.8	26.9	20.6	13.7	7.58	3.20	0.87	0.10	264	0.00
-80	0.02	0.09	0.24	0.57	1.18	2.01	2.77	3.36	3.80	3.95	3.87	3.40	2.69	1.88	1.13	0.58	0.24	0.06	31.8	0.00
-90	0.02	0.09	0.24	0.57	1.18	2.01	2.77	3.36	3.80	3.95	3.87	3.40	2.69	1.88	1.13	0.58	0.24	0.06	31.8	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	4.24	79.3	332	844	1870	3881	6831	9250	10453	10725	9979	7824	4663	2213	969	379	99.1	7.77	70404	---
Φ a	0.00	0.00	0.00	307	1496	3548	6516	8940	10151	10420	9676	7515	4341	1858	501	0.00	0.00	0.00	---	65268

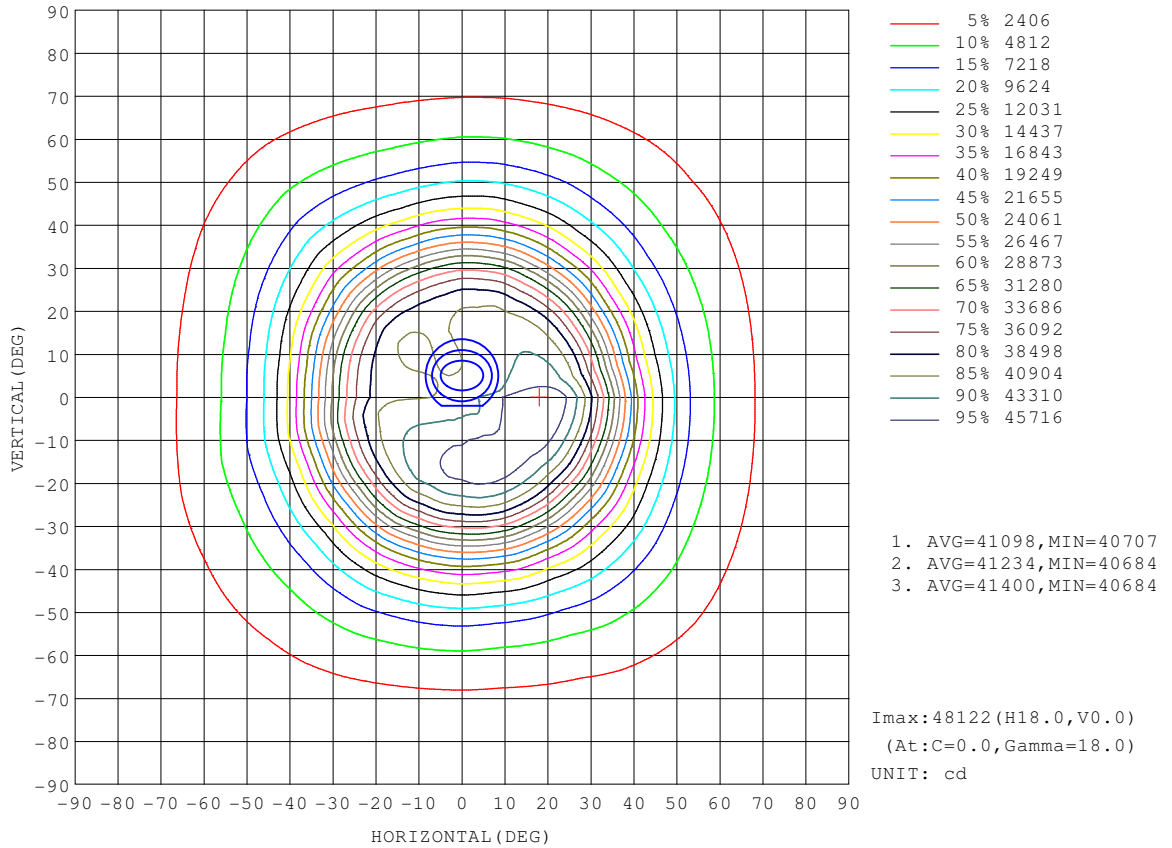
one-half-peak spread: U:22.2,D:21.3 , L:51.4,R:20.2 NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 24/09/2021

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:230.53V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:70403.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:22 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

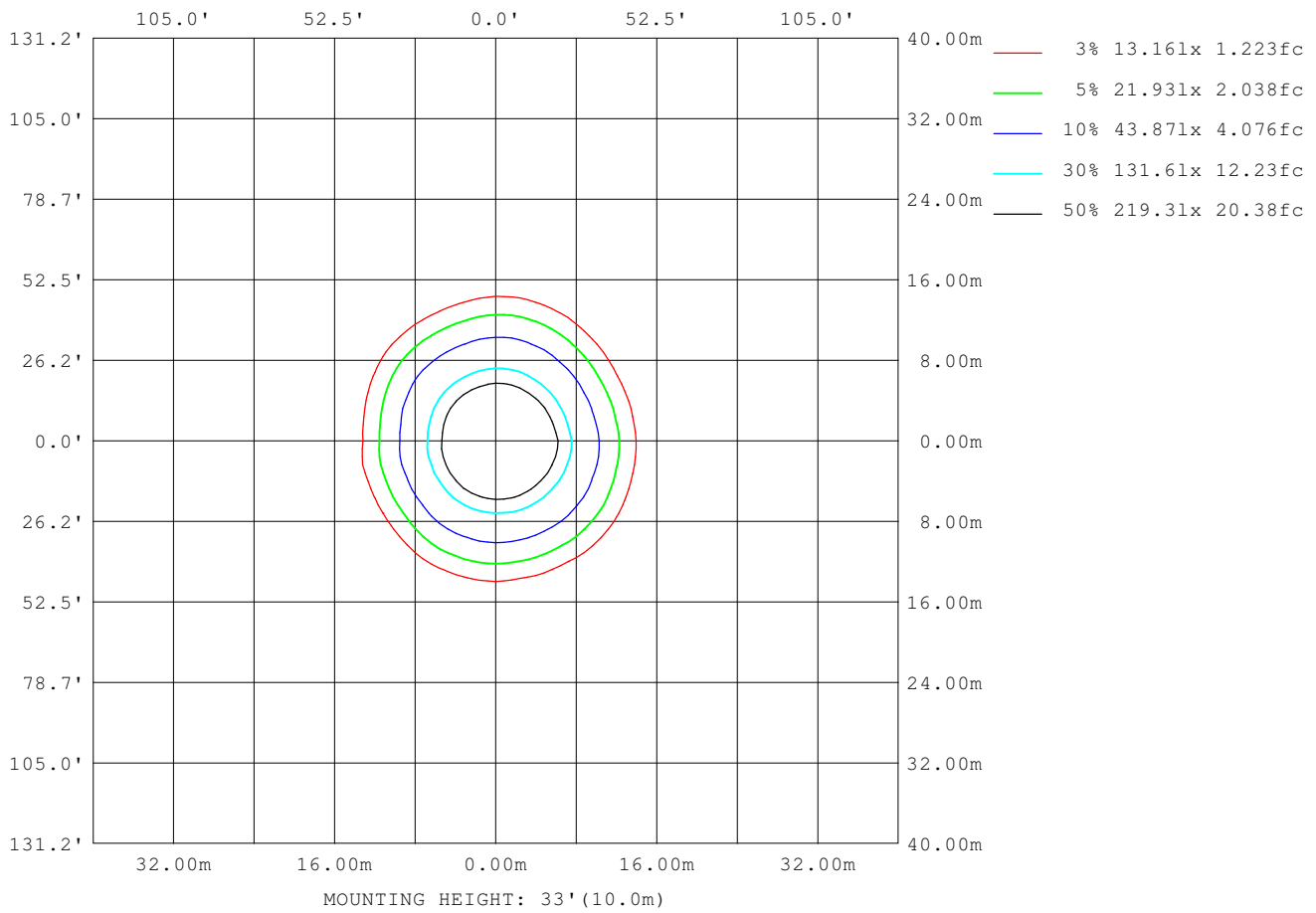


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ISOLUX DIAGRAM

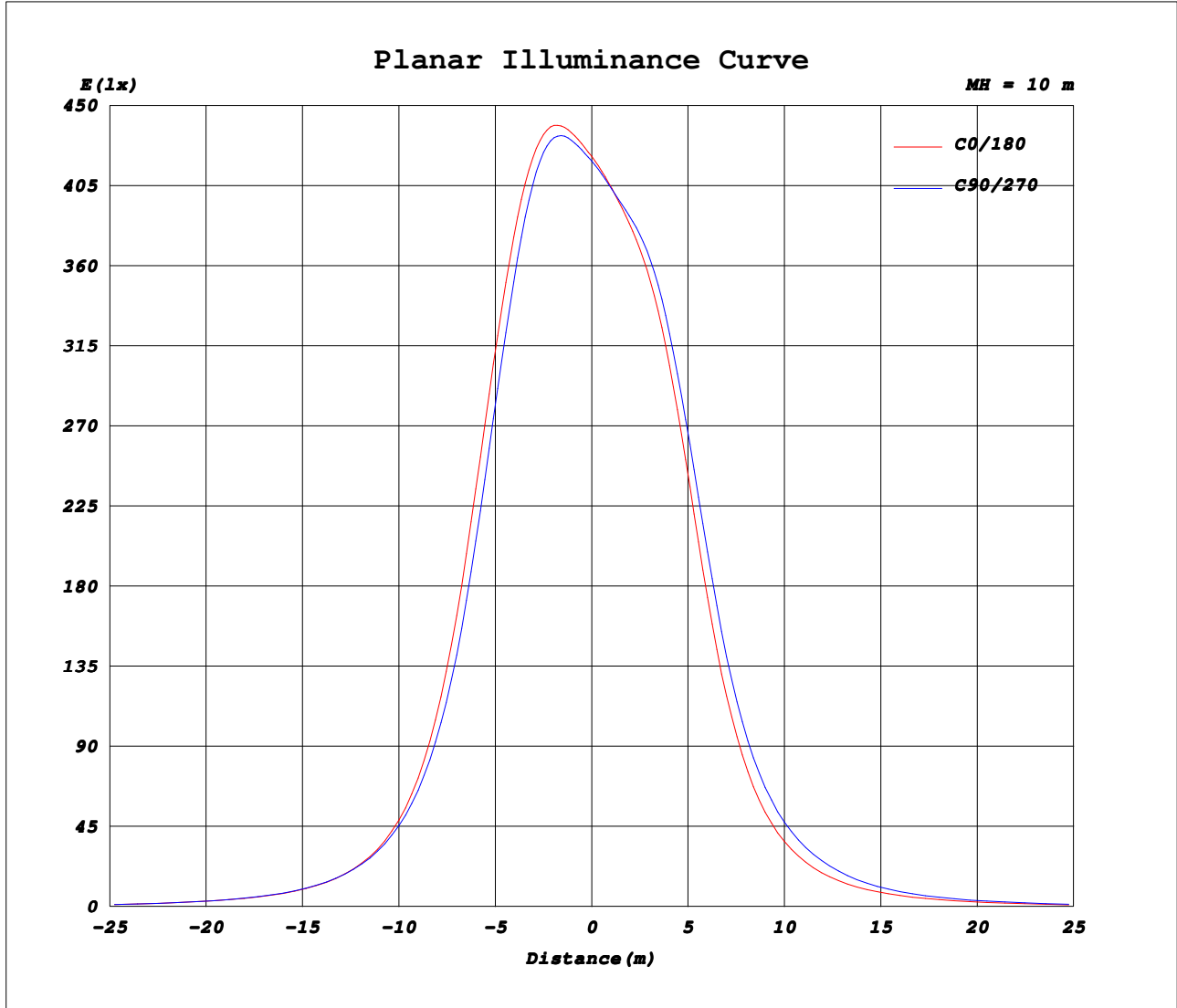
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Planar Illuminance Curve



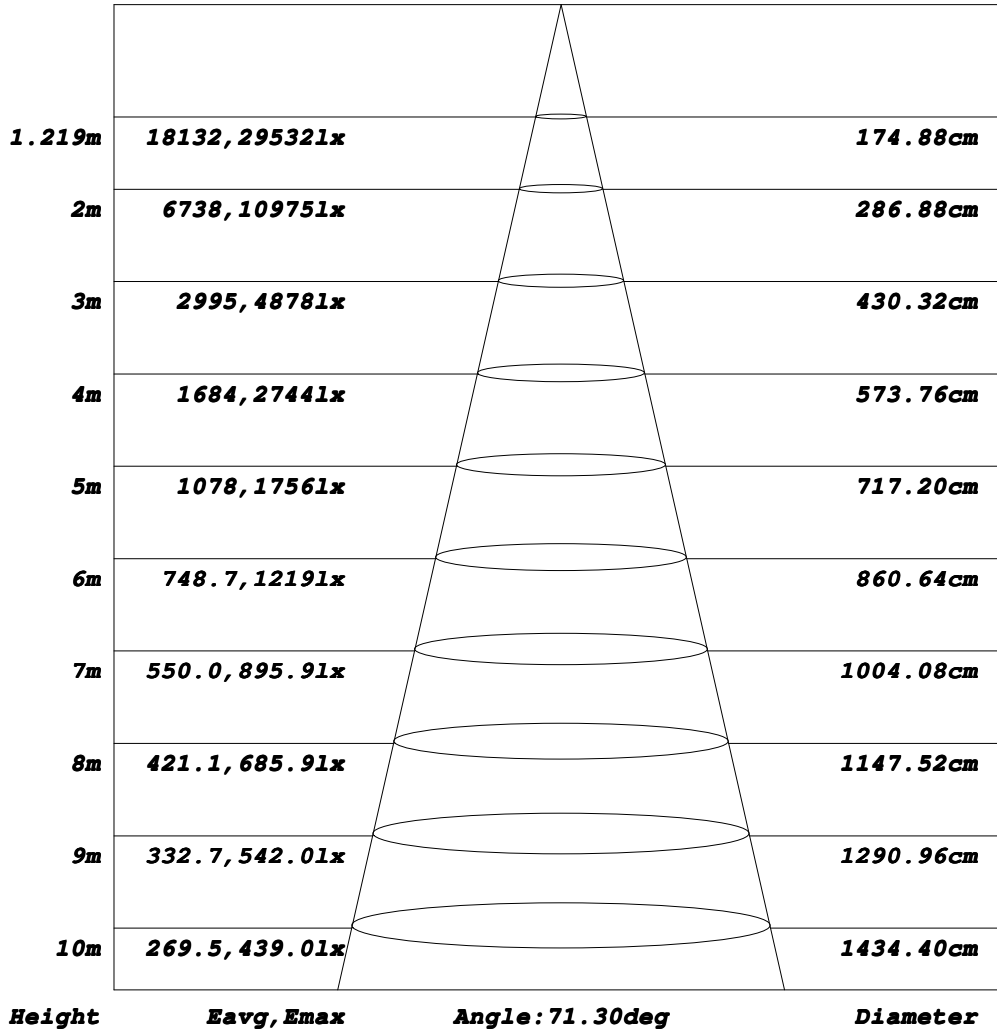
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C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 24/09/2021

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

AAI Figure

Test:U:230.53V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:70403.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:22 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Flux out:44695 lm



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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 Operators: LITPA
 Test Date: 24/09/2021

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 Humidity: 65.0%
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.53V I:0A P:0W PF:0.0000 Freq:50.01Hz Lamp Flux:70403.8x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:22 kg
SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT: μA10cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.54	0.52	0.50	0.49	0.49	0.49	0.49	0.50	0.50	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.54	0.55	0.55
-85	0.54	0.58	0.75	0.95	1.17	1.50	1.93	2.33	2.77	3.36	4.02	4.76	5.68	6.07	6.31	6.79	7.18	7.46	7.63
-80	0.54	0.64	1.31	2.03	2.93	4.38	6.80	10.3	14.1	18.1	23.1	27.4	31.4	34.3	37.1	39.6	41.3	42.9	43.6
-75	0.54	0.89	2.09	3.67	7.19	13.2	20.4	29.0	38.4	49.1	60.7	71.0	79.7	87.7	94.2	99.8	104	107	109
-70	0.54	1.22	3.15	7.45	15.6	26.9	41.1	56.8	74.3	92.2	112	130	146	160	171	181	189	195	198
-65	0.54	1.56	4.73	13.6	27.1	45.3	66.9	91.0	115	143	173	201	227	251	271	289	303	312	315
-60	0.54	1.93	7.18	21.0	41.3	66.5	96.6	129	163	198	238	281	320	355	383	409	430	443	448
-55	0.54	2.28	10.6	29.9	57.0	90.4	128	169	211	257	311	366	421	477	522	564	602	627	638
-50	0.54	2.74	14.4	39.9	74.6	114	161	209	263	323	389	464	545	635	712	780	845	889	906
-45	0.54	3.24	18.3	50.2	92.3	141	193	252	318	391	474	578	700	840	973	1082	1182	1253	1288
-40	0.54	3.70	22.7	60.5	109	166	225	295	374	467	576	717	899	1106	1320	1503	1664	1778	1836
-35	0.54	4.25	26.8	70.1	127	190	258	337	433	548	697	886	1141	1457	1784	2081	2316	2501	2572
-30	0.54	4.97	30.6	78.8	144	213	292	380	493	638	835	1096	1436	1885	2356	2794	3091	3335	3424
-25	0.54	5.58	33.8	86.4	155	235	323	426	553	734	989	1345	1803	2363	2971	3482	3802	4031	4122
-20	0.54	6.08	36.9	92.6	166	252	351	468	619	831	1137	1597	2195	2852	3473	3961	4283	4447	4533
-15	0.54	6.47	39.1	97.5	173	262	370	505	682	934	1296	1823	2529	3252	3818	4209	4475	4572	4647
-10	0.54	6.74	40.7	101	177	267	376	519	723	1021	1446	2053	2796	3494	3994	4279	4425	4498	4532
-5	0.54	6.90	41.5	103	178	268	376	521	733	1044	1510	2172	2960	3644	4056	4243	4289	4304	4339
0	0.54	6.94	41.5	103	177	265	370	512	723	1036	1499	2154	2913	3564	3920	4039	4064	4115	4215
5	0.54	6.92	41.4	102	177	265	370	512	723	1028	1486	2123	2881	3537	3912	4048	4078	4096	4106
10	0.54	6.77	40.6	100	174	261	364	501	705	998	1428	2035	2767	3445	3873	4084	4137	4072	4096
15	0.54	6.51	39.1	96.7	169	252	352	481	678	958	1352	1899	2546	3219	3741	4025	4091	4085	4143
20	0.54	6.13	36.9	91.7	161	241	336	461	640	894	1233	1682	2241	2880	3435	3774	3932	4018	4111
25	0.54	5.64	34.0	85.3	151	228	318	432	593	812	1094	1456	1924	2430	2922	3322	3578	3741	3856
30	0.54	5.03	30.8	77.4	139	212	297	399	536	721	958	1246	1599	1954	2334	2697	2975	3187	3312
35	0.54	4.31	27.0	68.9	126	194	270	359	474	626	819	1049	1278	1525	1801	2056	2275	2457	2555
40	0.54	3.75	22.8	59.8	111	173	242	319	411	533	686	850	1013	1179	1357	1515	1674	1802	1862
45	0.54	3.27	18.4	50.2	95.5	149	210	276	351	446	561	673	789	903	1014	1108	1218	1302	1345
50	0.54	2.74	14.5	40.6	78.5	125	176	233	295	367	445	523	602	678	751	819	889	944	982
55	0.54	2.27	10.8	31.2	61.4	99.8	141	188	240	296	348	400	452	502	549	594	640	678	704
60	0.54	1.93	7.50	22.4	45.1	74.2	107	143	183	226	267	303	338	369	397	427	455	480	498
65	0.54	1.58	4.93	14.6	30.5	50.7	74.3	101	130	161	189	219	246	269	287	306	323	338	349
70	0.54	1.21	3.19	8.41	18.6	30.8	45.8	63.9	83.8	103	123	145	165	182	196	209	220	228	233
75	0.54	0.84	2.08	4.29	8.91	15.7	23.5	33.8	45.2	57.4	69.1	81.9	95.1	105	114	122	130	134	135
80	0.54	0.57	1.29	2.23	3.67	5.86	8.79	12.9	18.2	23.2	28.2	34.7	41.5	46.2	50.1	55.0	59.5	61.3	62.3
85	0.54	0.55	0.60	1.00	1.54	1.92	2.34	2.89	3.78	4.81	5.80	7.50	9.36	10.6	11.6	13.1	14.6	15.0	15.3
90	0.54	0.54	0.54	0.55	0.55	0.56	0.56	0.56	0.57	0.57	0.57	0.63	0.69	0.77	0.86	0.91	0.97	1.05	1.12

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 Humidity: 65.0%
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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:550 WATT	DIM.: 540X660X70	SERIAL No.:
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	0.55	0.55	0.55	0.55	0.55	0.56	0.61	0.65	0.76	0.86	0.94	1.02	1.12	1.22	1.31	1.39	1.49	1.58
-85	7.84	7.94	8.28	8.44	8.23	7.73	7.24	6.87	6.19	5.40	4.80	4.31	3.58	3.12	2.79	2.40	1.97	1.58
-80	43.9	43.6	43.4	42.4	39.6	36.3	33.6	30.6	26.0	21.7	18.1	14.1	10.5	7.41	5.23	3.56	2.44	1.58
-75	108	106	105	101	94.5	86.6	79.7	71.8	61.6	51.1	41.6	32.3	23.4	15.5	9.82	5.59	3.01	1.58
-70	196	192	188	180	169	156	143	127	108	91.0	73.9	56.9	41.3	27.4	16.5	8.60	3.62	1.58
-65	307	296	288	275	257	240	222	195	168	140	113	87.4	62.9	42.2	25.5	12.4	4.36	1.58
-60	438	423	410	387	361	338	313	278	237	195	159	121	88.1	58.7	35.2	16.7	5.49	1.58
-55	623	601	575	538	493	457	415	364	311	258	206	158	114	76.9	46.0	22.2	6.56	1.58
-50	890	857	813	748	677	615	542	464	389	320	255	194	141	95.9	57.2	27.4	7.94	1.58
-45	1264	1221	1148	1036	932	823	703	587	478	385	303	230	168	114	68.5	32.5	9.46	1.58
-40	1813	1749	1618	1426	1265	1086	900	731	582	455	352	265	194	131	79.8	37.7	10.9	1.58
-35	2563	2462	2249	1974	1701	1404	1131	902	700	528	400	300	218	149	90.2	42.6	12.2	1.58
-30	3429	3302	3013	2646	2226	1791	1419	1099	820	604	448	335	240	164	99.5	47.4	13.4	1.58
-25	4150	4031	3752	3345	2811	2258	1757	1301	946	681	497	366	261	177	108	51.5	14.4	1.58
-20	4580	4494	4274	3917	3398	2760	2092	1502	1065	757	541	391	279	188	114	55.0	15.3	1.58
-15	4715	4688	4565	4328	3890	3192	2402	1715	1190	826	578	413	293	197	120	57.8	15.9	1.58
-10	4610	4654	4719	4598	4214	3543	2691	1910	1302	881	608	429	303	203	124	59.8	16.4	1.58
-5	4402	4611	4770	4736	4426	3788	2892	2032	1362	915	625	438	308	206	126	60.9	16.7	1.58
0	4379	4596	4776	4790	4514	3889	2975	2069	1376	924	628	440	309	207	127	61.2	16.8	1.58
5	4155	4302	4426	4420	4159	3579	2735	1920	1303	893	616	436	307	205	125	60.3	16.5	1.58
10	4155	4274	4340	4266	3957	3318	2486	1739	1193	840	593	424	300	201	122	58.5	16.0	1.58
15	4210	4243	4225	4048	3632	2970	2211	1565	1091	776	559	406	288	194	117	56.0	15.4	1.58
20	4136	4095	3961	3691	3189	2524	1880	1353	971	703	517	382	273	184	111	52.6	14.6	1.58
25	3842	3751	3501	3133	2640	2082	1548	1140	846	627	471	352	253	173	103	48.6	13.6	1.58
30	3278	3150	2860	2489	2074	1657	1268	953	723	551	421	319	232	159	93.9	44.0	12.5	1.58
35	2528	2405	2182	1895	1575	1288	1022	793	608	477	372	284	208	142	84.1	39.0	11.2	1.58
40	1854	1760	1606	1420	1203	1001	816	653	515	408	323	248	184	125	73.4	33.8	9.90	1.58
45	1341	1281	1180	1062	924	778	646	530	431	345	275	213	159	106	62.1	28.3	8.47	1.58
50	975	938	874	792	702	601	509	429	356	288	228	179	132	88.9	50.8	23.0	6.96	1.58
55	700	679	637	585	527	462	399	342	286	233	185	146	106	71.4	40.2	17.7	5.63	1.58
60	497	485	459	428	392	351	306	263	222	183	146	112	82.0	54.2	30.2	12.9	4.68	1.58
65	350	344	328	307	283	253	222	193	165	135	107	81.4	58.9	38.5	21.1	9.33	3.71	1.58
70	233	229	216	202	185	168	150	130	110	91.0	71.5	53.2	38.2	24.9	13.3	6.06	3.05	1.58
75	135	132	126	118	109	97.6	86.9	75.8	64.6	53.3	40.8	29.8	21.3	13.7	7.62	3.72	2.51	1.58
80	62.1	60.9	57.9	54.1	49.2	43.9	38.3	32.8	28.0	23.7	17.8	12.5	9.18	6.12	3.69	2.37	2.02	1.58
85	15.4	15.2	14.4	13.4	12.0	10.4	9.07	7.82	6.79	5.61	4.25	3.37	2.77	2.35	1.93	1.55	1.65	1.58
90	1.10	1.07	1.07	1.06	0.97	0.88	0.90	0.92	0.94	0.96	0.94	0.92	0.92	0.93	0.94	0.96	1.27	1.58

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 24/09/2021

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