

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

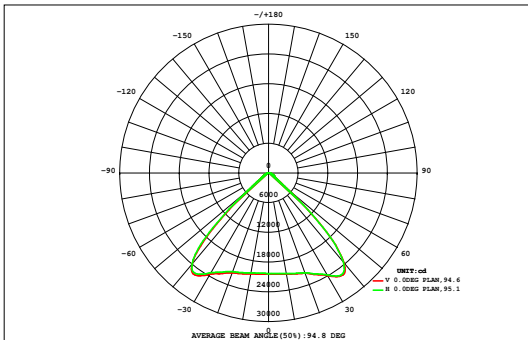
Maximum Intensity (Luminaire orientation as tested.)		515.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	109.8V x 109.7H 95.1V x 94.6H 88.0V x 87.6H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	1000.0 lumens per klm. 958.9 lumens per klm. 887.3 lumens per klm. 199.7 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: 16/11/2021

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:230.33V I:1.7581A P:398.92W PF:0.9851 Freq:50.01Hz Lamp Flux:55033.4x1 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:137.96lm/W	
MODEL	KYH-XL	Imax (cd)	28379
NOMINAL POWER (W)	400	AVAILABILITY (%)	95.9
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	52784
NOMINAL FLUX (lm)	55033.4	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	55033
TEST VOLTAGE (V)	230	θ @50% (H, V)	95,95DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.02	0.07	0.19	0.39	0.67	0.99	1.33	1.61	1.77	1.83	1.60	1.25	0.93	0.60	0.35	0.17	0.07	0.02	13.9	0.00
80	0.03	0.25	1.04	2.46	4.43	6.80	9.14	10.8	12.1	12.7	11.3	9.00	6.68	4.26	2.25	0.93	0.22	0.03	94.4	0.00
70	0.05	0.66	2.76	6.34	11.0	16.0	20.5	23.9	27.3	28.9	26.5	21.1	15.8	10.8	5.98	2.60	0.61	0.04	221	0.00
60	0.08	1.23	4.80	10.6	18.9	35.0	61.3	83.4	81.5	71.5	59.6	44.7	30.3	18.9	10.4	4.66	1.16	0.07	538	181
50	0.12	1.84	6.84	15.0	39.9	217	456	553	527	464	390	308	177	45.8	14.8	6.63	1.77	0.11	3224	3103
40	0.17	2.44	8.81	20.9	113	542	754	767	753	741	731	699	560	169	20.6	8.36	2.37	0.16	5892	5804
30	0.22	2.97	10.7	28.5	220	632	707	694	678	674	684	695	668	309	31.3	9.85	2.90	0.21	6045	5965
	0.26	3.37	12.1	36.2	293	633	656	643	637	633	634	641	637	366	42.4	11.3	3.31	0.25	5883	5806
	0.28	3.61	12.8	41.3	326	624	628	622	622	616	613	613	616	358	45.3	12.6	3.57	0.27	5757	5680
	0.28	3.55	12.3	41.5	333	620	624	619	620	623	625	627	624	339	42.4	12.8	3.57	0.27	5771	5694
	0.25	3.21	10.7	35.4	316	637	655	646	642	641	647	659	639	309	37.0	12.0	3.30	0.25	5894	5815
	0.21	2.74	9.18	26.2	261	659	712	701	689	688	700	715	651	234	27.8	10.4	2.87	0.21	6091	6011
-30	0.16	2.19	7.79	18.8	144	542	713	742	750	757	762	740	539	120	20.0	8.42	2.33	0.16	5871	5784
-40	0.11	1.63	6.16	14.0	41.3	172	312	387	434	471	478	378	186	37.8	14.4	6.43	1.74	0.11	2942	2821
-50	0.07	1.06	4.29	9.93	18.1	29.9	44.0	58.8	67.4	70.8	66.9	48.3	30.9	17.9	10.1	4.41	1.12	0.07	484	120
-60	0.04	0.54	2.37	5.74	10.4	15.4	20.2	25.3	27.9	26.5	23.2	19.5	15.2	10.2	5.83	2.44	0.57	0.04	211	0.00
-70	0.02	0.19	0.84	2.12	4.12	6.53	8.65	10.7	12.1	11.5	10.2	8.55	6.21	3.88	2.09	0.85	0.20	0.02	88.9	0.00
-80	0.01	0.05	0.15	0.32	0.57	0.90	1.21	1.50	1.68	1.60	1.43	1.15	0.81	0.52	0.29	0.14	0.06	0.01	12.4	0.00
-90																				
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	2.35	31.6	114	316	2156	5388	6382	6591	6583	6534	6466	6228	5404	2354	333	115	31.7	2.30	55033	---
Φ a	0.00	0.00	0.00	64.1	2000	5262	6248	6442	6423	6374	6313	6088	5276	2207	86.7	0.00	0.00	0.00	---	52784

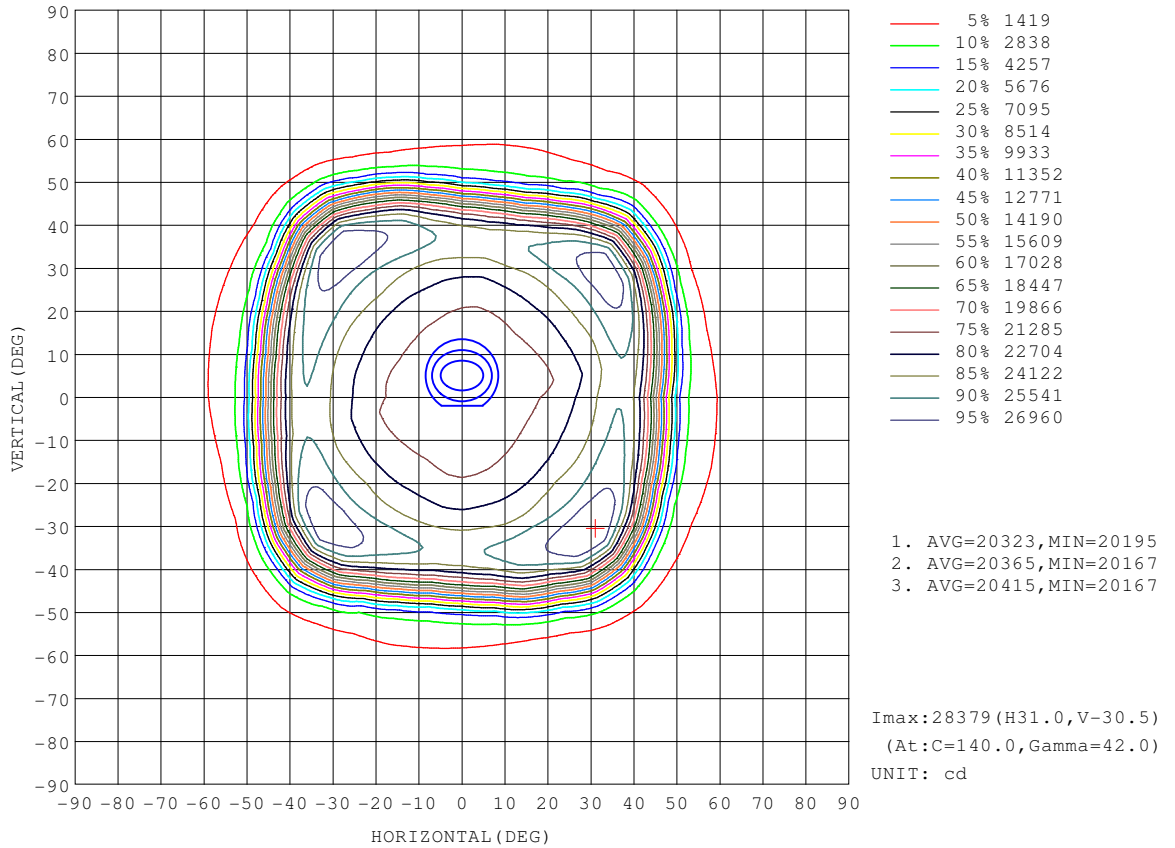
one-half-peak spread: U:11.3,D:10.9 , L:11.3,R:11.4 NEMA Beam Type: Type 6

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 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 16/11/2021

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

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

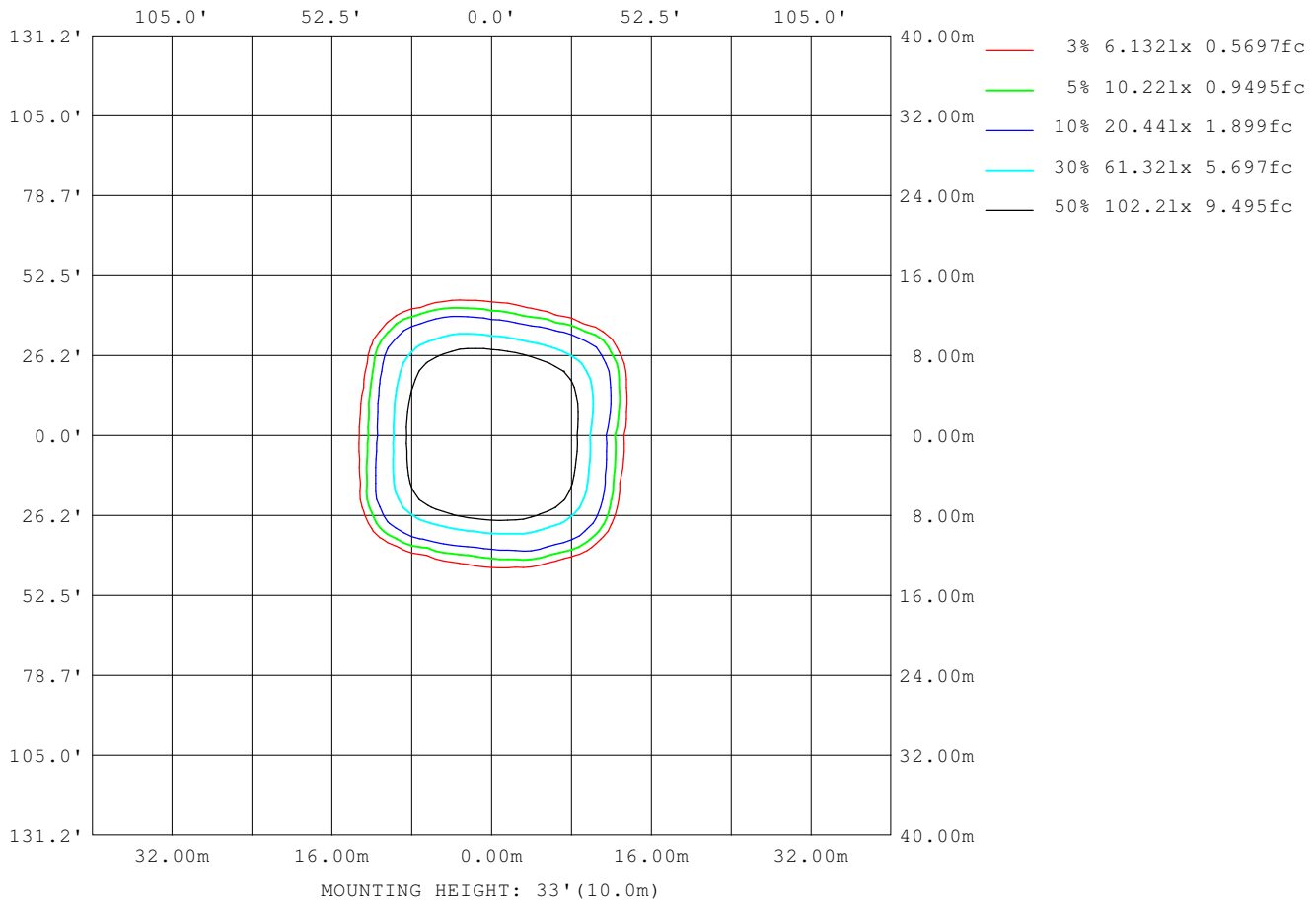


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ISOLUX DIAGRAM

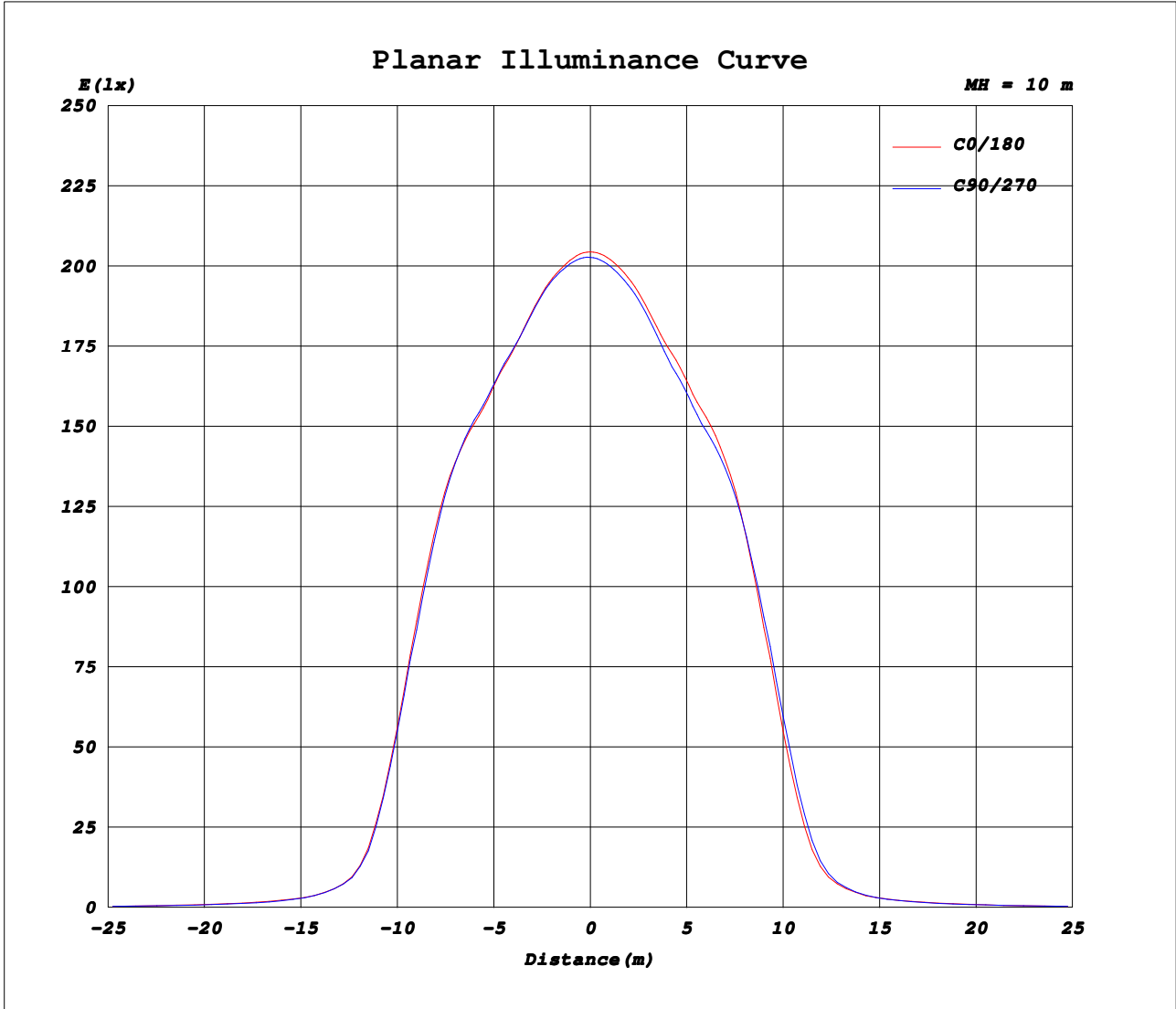
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Planar Illuminance Curve



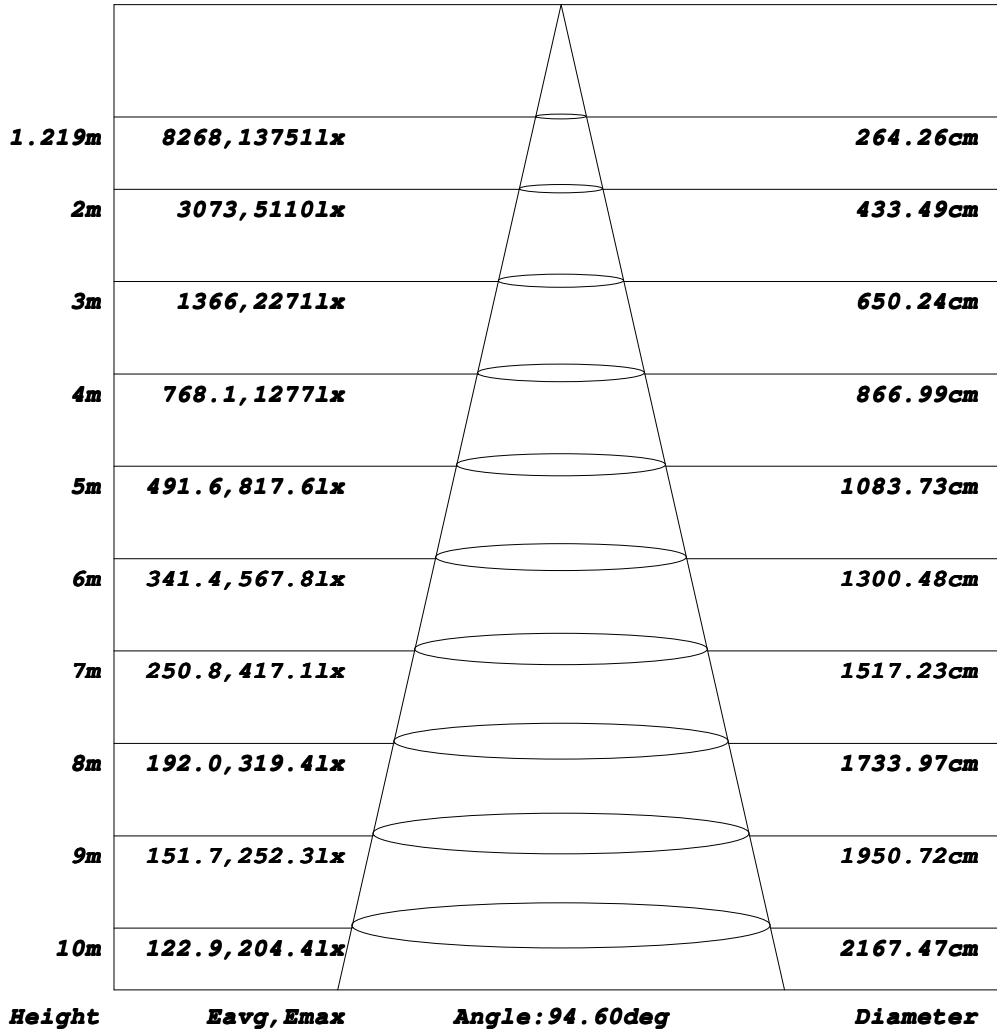
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AAI Figure

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

Flux out:47625 lm



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

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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	0.37	0.35	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.37	0.37	0.36	0.35	0.34	0.33	0.33	0.32	0.33	0.33
-85	0.37	0.47	0.49	0.62	0.77	0.94	1.16	1.34	1.57	1.89	2.20	2.40	2.66	2.93	3.13	3.18	3.17	3.29	3.36
-80	0.37	0.58	0.77	1.11	1.67	2.56	3.75	4.92	6.06	7.64	9.51	11.1	12.7	13.8	14.8	16.5	17.9	18.2	18.1
-75	0.37	0.71	1.11	2.04	3.59	6.06	8.77	11.5	14.4	18.2	22.3	25.8	28.4	30.7	32.9	35.7	38.2	39.2	39.5
-70	0.37	0.85	1.67	3.68	7.01	11.4	15.8	20.9	27.1	32.9	38.5	43.3	47.0	50.8	54.6	59.1	63.1	64.6	65.3
-65	0.37	1.00	2.52	6.03	11.5	17.8	24.8	32.6	40.1	48.1	55.2	61.5	66.7	72.5	79.0	84.8	89.3	90.9	91.1
-60	0.37	1.19	3.66	8.86	16.4	25.1	34.5	44.2	54.5	63.9	73.0	81.1	89.5	98.6	111	120	125	126	124
-55	0.37	1.38	5.07	12.1	21.7	32.6	44.1	56.7	68.5	81.6	97.4	113	129	143	164	179	190	196	199
-50	0.37	1.68	6.68	15.4	27.1	40.2	53.5	68.0	83.4	106	144	191	249	294	346	377	417	450	485
-45	0.37	2.02	8.46	18.8	32.3	47.1	62.1	78.3	101	150	325	588	915	1104	1222	1320	1402	1473	1557
-40	0.37	2.35	10.7	22.1	37.3	53.6	69.7	88.8	126	278	805	1505	1990	2173	2223	2270	2301	2315	2349
-35	0.37	2.68	12.8	25.8	42.1	59.6	76.9	98.9	167	551	1464	2347	2640	2690	2627	2593	2559	2528	2521
-30	0.37	3.05	14.7	29.4	46.5	65.1	84.1	110	232	888	2026	2674	2807	2706	2599	2520	2451	2398	2376
-25	0.37	3.37	16.4	32.5	51.3	69.9	91.3	126	289	1156	2273	2747	2719	2570	2458	2376	2314	2265	2246
-20	0.37	3.65	18.0	35.3	55.7	75.2	98.5	145	386	1339	2356	2677	2595	2457	2365	2273	2211	2164	2144
-15	0.37	3.87	19.3	37.9	59.8	81.7	108	159	451	1480	2379	2609	2498	2373	2264	2187	2144	2113	2098
-10	0.37	4.04	20.4	40.2	63.3	87.5	118	180	483	1527	2366	2557	2426	2299	2190	2132	2096	2071	2062
-5	0.37	4.15	21.3	42.0	66.2	92.6	127	193	515	1590	2374	2534	2387	2256	2148	2097	2060	2038	2036
0	0.37	4.20	21.9	43.2	68.4	96.7	134	197	488	1558	2373	2539	2391	2262	2154	2107	2072	2051	2044
5	0.37	4.18	21.5	42.5	67.7	96.1	133	197	487	1547	2378	2554	2406	2273	2164	2112	2073	2046	2030
10	0.37	4.10	20.9	41.3	66.3	94.3	131	190	438	1432	2349	2577	2448	2315	2202	2140	2095	2063	2048
15	0.37	3.96	19.9	39.5	64.1	91.2	127	179	395	1353	2306	2604	2512	2372	2261	2181	2131	2099	2083
20	0.37	3.76	18.8	37.2	61.1	87.0	119	166	332	1164	2209	2623	2594	2450	2349	2249	2181	2143	2121
25	0.37	3.51	17.3	34.8	57.2	81.5	109	150	263	922	2047	2632	2682	2549	2451	2359	2283	2230	2209
30	0.37	3.20	15.8	31.9	52.2	74.5	98.5	132	208	637	1729	2565	2788	2703	2570	2474	2399	2342	2323
35	0.37	2.84	14.0	28.6	47.1	67.1	87.7	115	162	355	1282	2341	2753	2806	2717	2638	2571	2515	2492
40	0.37	2.50	11.9	25.1	41.7	59.9	77.6	98.5	129	230	749	1667	2349	2594	2620	2617	2551	2469	2399
45	0.37	2.17	9.61	21.5	36.1	52.5	68.0	84.3	105	148	322	780	1393	1725	1907	2018	1970	1854	1689
50	0.37	1.82	7.67	17.9	30.5	44.7	58.2	72.1	87.1	109	150	255	440	581	730	815	779	683	552
55	0.37	1.51	5.87	14.2	24.9	36.5	48.6	59.8	72.4	85.3	102	122	145	164	195	212	222	220	203
60	0.37	1.31	4.27	10.7	19.3	28.6	38.5	48.0	57.9	68.0	76.8	86.3	93.8	99.7	105	110	117	122	125
65	0.37	1.09	3.02	7.46	13.9	20.8	28.4	36.0	43.5	50.8	57.8	64.0	69.7	73.7	77.0	80.5	84.0	89.0	93.7
70	0.37	0.94	2.05	4.68	8.91	13.6	18.5	24.0	29.6	34.7	39.6	44.8	49.5	52.9	55.2	57.8	60.2	63.7	66.7
75	0.37	0.82	1.37	2.67	4.91	7.56	10.4	13.5	16.6	19.9	23.1	26.9	30.7	33.0	34.8	36.5	37.8	39.4	40.6
80	0.37	0.69	0.97	1.43	2.29	3.30	4.41	5.94	7.41	8.65	10.0	11.7	13.5	14.8	16.0	16.9	17.5	18.3	18.9
85	0.37	0.54	0.70	0.86	1.02	1.17	1.41	1.68	2.05	2.32	2.51	2.80	3.13	3.27	3.33	3.62	3.88	3.80	3.66
90	0.37	0.38	0.40	0.42	0.44	0.45	0.46	0.46	0.47	0.46	0.45	0.44	0.42	0.41	0.40	0.39	0.37	0.36	0.36

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Table--2

UNIT: μA10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.33	0.34	0.35	0.36	0.36	0.37	0.38	0.38	0.39	0.39	0.38	0.37	0.36	0.35	0.35	0.34	0.34	0.34
-85	3.31	3.21	3.10	2.96	2.71	2.42	2.16	1.94	1.69	1.42	1.22	1.08	0.93	0.79	0.68	0.56	0.46	0.34
-80	17.0	15.8	15.5	15.0	13.3	11.5	10.0	8.49	7.05	5.74	4.61	3.41	2.46	1.67	1.18	0.86	0.58	0.34
-75	37.5	35.3	34.6	33.1	30.8	27.9	24.4	20.8	17.2	13.9	11.4	8.76	6.08	3.81	2.14	1.23	0.72	0.34
-70	61.5	57.4	55.7	53.4	50.2	46.4	41.9	36.8	31.6	26.1	21.1	16.3	11.6	7.28	3.89	1.80	0.87	0.34
-65	86.6	81.5	78.1	74.4	70.5	66.0	60.8	54.2	46.9	39.7	33.3	25.7	18.2	11.9	6.43	2.67	1.03	0.34
-60	119	113	106	99.6	93.6	88.3	81.8	73.2	63.8	54.2	45.4	35.5	25.8	17.0	9.55	3.79	1.21	0.34
-55	197	192	180	160	139	129	113	95.9	81.1	69.0	57.3	45.6	33.2	22.7	13.0	5.30	1.38	0.34
-50	529	576	589	502	401	324	208	138	105	83.7	69.2	55.1	41.1	28.3	16.6	7.07	1.66	0.34
-45	1619	1693	1737	1565	1385	1143	644	290	142	102	80.8	64.3	49.3	33.8	20.3	9.06	1.99	0.34
-40	2389	2449	2485	2439	2386	2153	1534	705	226	126	93.8	73.3	56.8	39.4	23.9	11.2	2.29	0.34
-35	2547	2586	2641	2703	2780	2723	2343	1318	397	160	109	83.4	64.2	44.8	27.5	13.2	2.61	0.34
-30	2399	2430	2517	2615	2735	2828	2646	1876	706	212	125	94.2	71.7	50.2	30.8	15.0	2.96	0.34
-25	2266	2303	2372	2470	2578	2726	2720	2167	1000	259	145	106	79.1	55.3	33.7	16.7	3.26	0.34
-20	2161	2198	2269	2376	2469	2604	2670	2301	1222	340	165	117	85.2	59.5	36.2	18.2	3.52	0.34
-15	2110	2141	2192	2279	2389	2513	2622	2376	1439	420	181	126	90.1	63.0	38.6	19.4	3.72	0.34
-10	2074	2106	2152	2215	2325	2441	2585	2411	1560	476	195	131	93.8	65.7	40.4	20.3	3.87	0.34
-5	2051	2079	2123	2173	2274	2390	2550	2420	1626	515	203	135	96.2	67.6	41.8	21.0	3.96	0.34
0	2049	2069	2103	2144	2240	2361	2527	2400	1590	497	203	136	97.4	68.7	42.5	21.4	4.00	0.34
5	2027	2042	2075	2118	2205	2325	2504	2445	1727	599	210	131	94.4	67.3	41.9	20.9	3.98	0.34
10	2049	2072	2107	2155	2250	2360	2529	2482	1779	618	205	124	90.5	65.2	40.7	20.2	3.90	0.34
15	2085	2111	2152	2214	2329	2432	2594	2518	1766	596	186	115	85.7	62.4	38.9	19.3	3.77	0.34
20	2123	2160	2221	2305	2407	2528	2677	2525	1657	520	166	106	80.1	58.8	36.6	18.1	3.58	0.34
25	2213	2258	2318	2402	2505	2658	2766	2453	1426	387	142	97.8	75.1	54.9	34.1	16.6	3.34	0.34
30	2329	2390	2453	2541	2641	2760	2725	2211	1080	295	120	89.7	70.0	50.7	31.2	14.9	3.05	0.34
35	2484	2519	2550	2576	2627	2615	2434	1635	680	195	106	81.7	64.1	46.2	27.8	13.0	2.71	0.34
40	2356	2325	2265	2203	2146	1952	1596	916	316	137	94.0	74.0	57.7	40.9	23.9	11.0	2.39	0.34
45	1606	1484	1306	1226	1073	876	608	367	162	108	82.4	65.8	50.8	35.5	20.2	8.86	2.09	0.34
50	507	445	376	344	299	243	195	151	112	87.4	70.9	56.8	43.6	29.9	16.6	7.00	1.76	0.34
55	202	194	181	165	146	130	114	100	86.1	71.5	58.9	46.6	35.8	24.1	13.1	5.41	1.47	0.34
60	129	129	124	114	102	92.3	83.2	75.5	66.8	56.9	45.9	36.4	27.5	18.4	9.71	4.11	1.28	0.34
65	94.7	93.9	89.1	82.8	75.9	69.4	63.1	56.8	50.0	42.0	33.7	26.1	19.7	13.0	6.62	2.99	1.08	0.34
70	67.2	66.5	62.2	57.4	53.3	49.0	44.4	39.4	33.9	28.2	22.0	16.7	12.7	7.98	4.18	2.06	0.93	0.34
75	41.2	40.9	37.3	33.8	31.8	29.3	26.1	22.4	19.1	15.5	12.2	9.40	6.70	4.05	2.48	1.39	0.79	0.34
80	19.6	19.8	17.5	15.0	14.3	13.4	11.4	9.53	7.96	6.63	5.32	4.01	2.84	2.01	1.39	0.98	0.65	0.34
85	3.66	3.61	3.37	3.10	3.01	2.84	2.48	2.18	2.01	1.75	1.46	1.26	1.08	0.95	0.82	0.71	0.52	0.34
90	0.35	0.35	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.43	0.44	0.39	0.34

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 16/11/2021

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