

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		7961.6 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	25.4V x 25.6H 14.5V x 14.7H 6.3V x 6.7H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	1001.1 lumens per klm. 505.5 lumens per klm. 300.3 lumens per klm. 81.2 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.1 %
Luminaire Efficiency (Light Output Ratio)		100.0 %

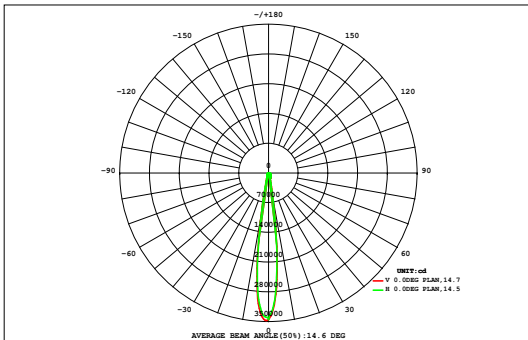
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**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 16/12/2021**

**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 325W 6500K**

### LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.21V I:1.4467A P:324.39W PF:0.9740 Freq:50.01Hz Lamp Flux:43650.6x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:325 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:134.56lm/W	
MODEL	KYH-XL	Imax (cd)	347530
NOMINAL POWER (W)	325	AVAILABILITY (%)	50.3
RATED VOLTAGE (V)	230.0	Avai. FLUX (lm)	21937
NOMINAL FLUX (lm)	43650.6	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	43651
TEST VOLTAGE (V)	230	θ @50% (H, V)	15,14DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.05	0.17	0.39	0.77	1.31	1.95	2.62	3.13	3.27	2.99	2.48	1.85	1.18	0.65	0.30	0.11	0.03	23.3	0.00
80	0.02	0.22	1.09	3.14	6.49	10.8	15.7	20.0	22.8	23.4	21.3	17.5	12.9	8.19	4.23	1.66	0.41	0.05	170	0.00
70	0.04	0.66	3.47	9.60	19.2	31.2	43.7	54.1	60.7	61.8	56.3	47.0	34.5	21.6	11.4	4.54	1.07	0.08	461	0.00
60	0.07	1.39	7.00	18.5	36.5	58.3	80.5	98.1	109	110	101	84.1	62.1	40.3	21.1	8.55	2.00	0.14	838	0.00
50	0.11	2.26	11.0	28.4	55.4	87.8	119	144	158	161	147	124	92.6	60.3	32.9	13.1	3.12	0.21	1240	0.00
40	0.15	3.13	14.6	38.2	73.2	115	154	186	205	208	191	161	122	79.7	43.8	17.8	4.25	0.28	1618	0.00
30	0.19	3.93	17.7	46.6	88.6	137	185	230	274	280	237	193	146	96.6	53.0	21.8	5.20	0.35	2016	0.00
	0.23	4.52	20.2	52.4	99.2	152	210	332	767	874	373	223	164	109	59.5	24.4	5.87	0.40	3469	749
	0.24	4.83	21.5	55.4	104	159	231	591	4910	5914	852	254	170	112	61.6	25.3	6.22	0.43	13474	11360
	0.24	4.75	21.1	54.2	102	161	233	548	4201	5039	781	251	165	110	60.4	24.9	6.19	0.43	11761	9610
	0.22	4.33	19.1	49.0	93.5	150	210	312	555	609	341	215	154	102	56.3	23.2	5.78	0.40	2901	218
-30	0.18	3.66	16.2	42.1	81.0	130	180	221	254	258	227	183	135	89.1	48.8	20.2	5.07	0.35	1894	0.00
-40	0.14	2.83	12.7	33.7	65.1	103	142	174	193	193	178	148	110	72.5	39.4	16.3	4.11	0.29	1488	0.00
-50	0.10	1.94	9.08	24.2	47.2	75.1	103	126	139	141	130	109	81.9	53.5	29.2	12.1	3.04	0.22	1086	0.00
-60	0.06	1.13	5.57	15.0	29.6	48.0	66.0	81.7	89.6	91.7	85.2	71.3	53.6	34.9	19.1	7.89	1.97	0.15	702	0.00
-70	0.03	0.51	2.65	7.52	15.1	24.8	34.7	42.9	47.1	48.4	45.2	38.0	28.6	18.5	10.1	4.14	1.04	0.09	370	0.00
-80	0.02	0.16	0.76	2.29	4.84	8.11	11.5	14.3	15.9	16.6	15.7	13.2	9.93	6.44	3.52	1.48	0.41	0.05	125	0.00
-90	0.01	0.04	0.11	0.25	0.48	0.78	1.13	1.42	1.59	1.72	1.70	1.52	1.21	0.83	0.51	0.27	0.12	0.03	13.7	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	2.05	40.3	184	481	923	1453	2022	3180	12007	14034	3786	2135	1545	1017	556	228	56.0	3.96	43651	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	232	9419	11524	763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	21937

one-half-peak spread: U:6.4,D:8.2 , L:7.6,R:7.3

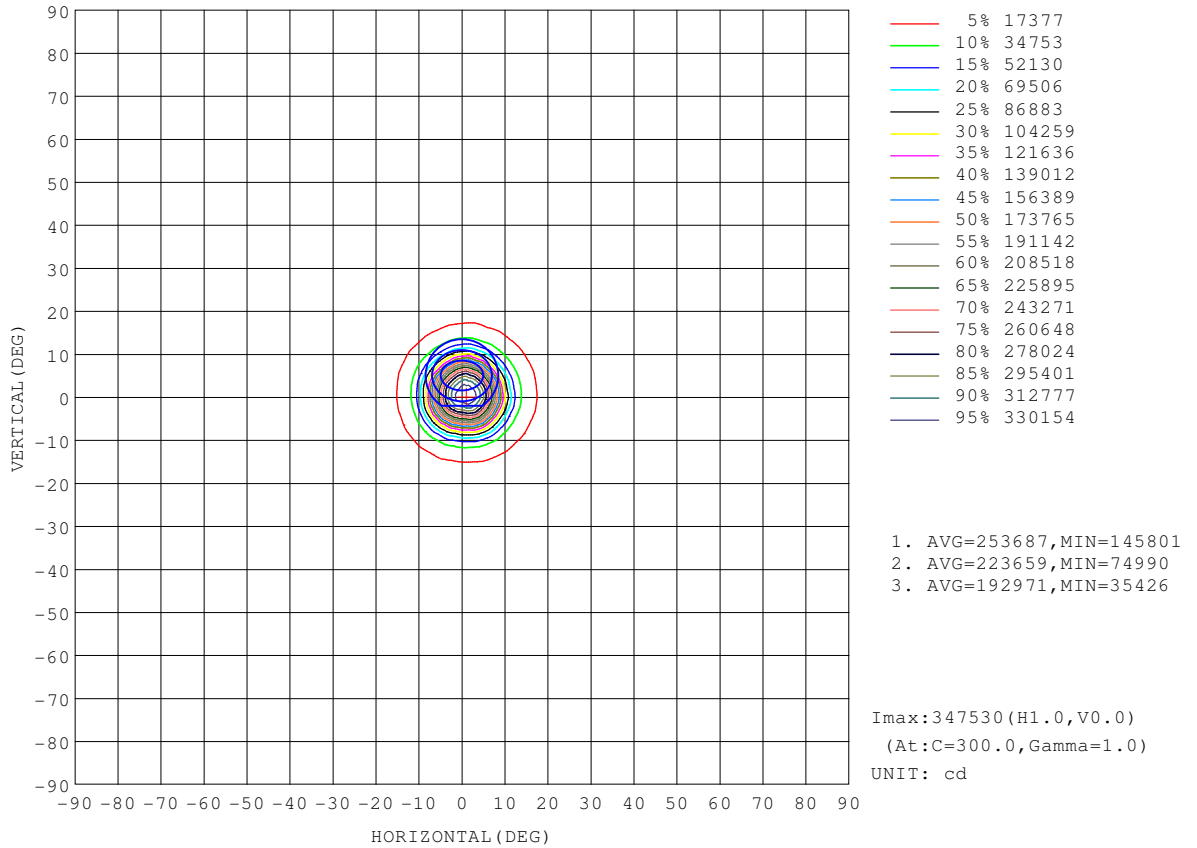
NEMA Beam Type: Type 2

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 20DEG  
 Operators: LITPA  
 Test Date: 16/12/2021

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 325W 6500K

## ISOCANDELA DIAGRAM

Test:U:230.21V I:1.4467A P:324.39W PF:0.9740 Freq:50.01Hz Lamp Flux:43650.6x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:325 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

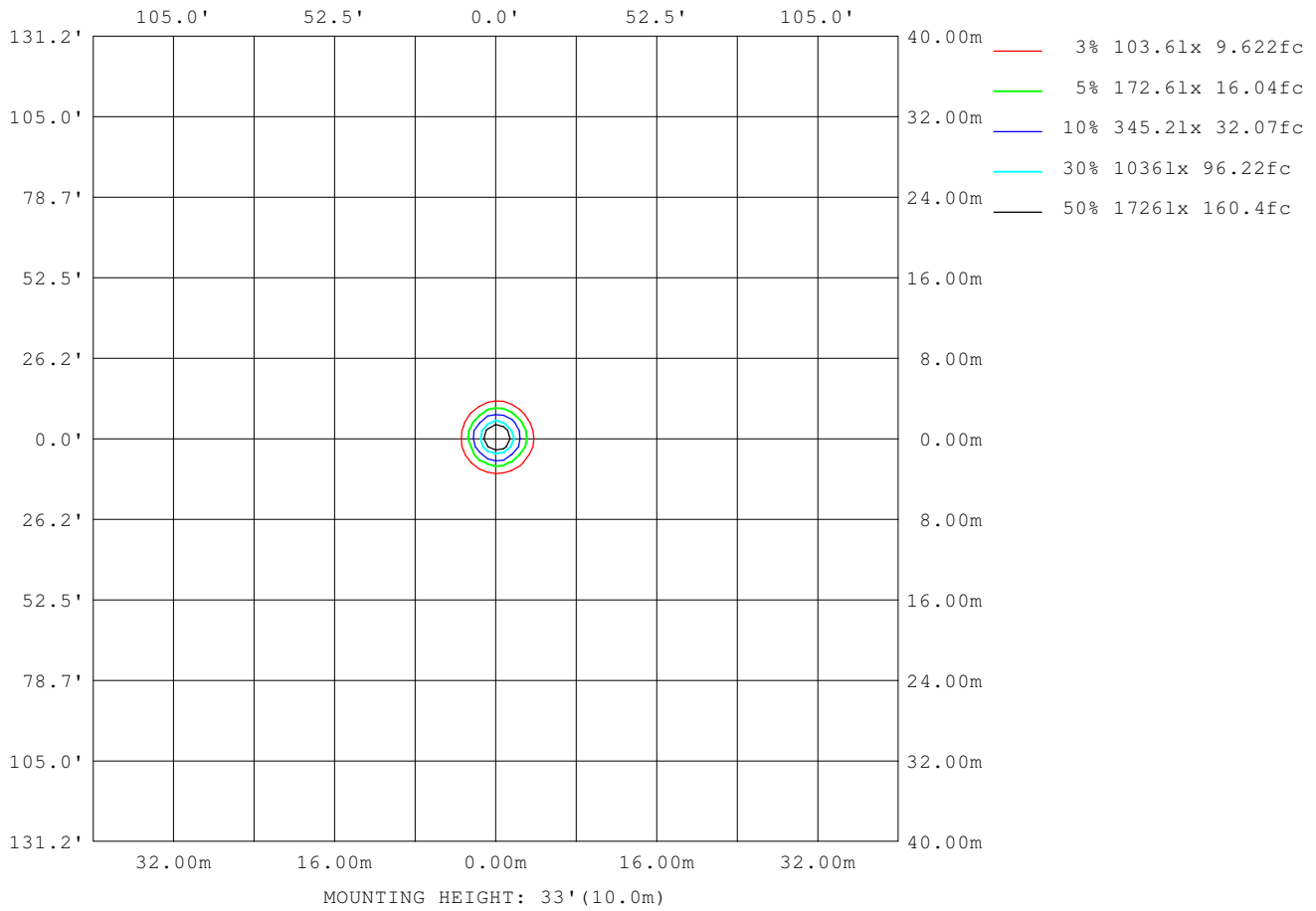


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**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 16/12/2021**

**$\gamma$  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 325W 6500K**

## ISOLUX DIAGRAM

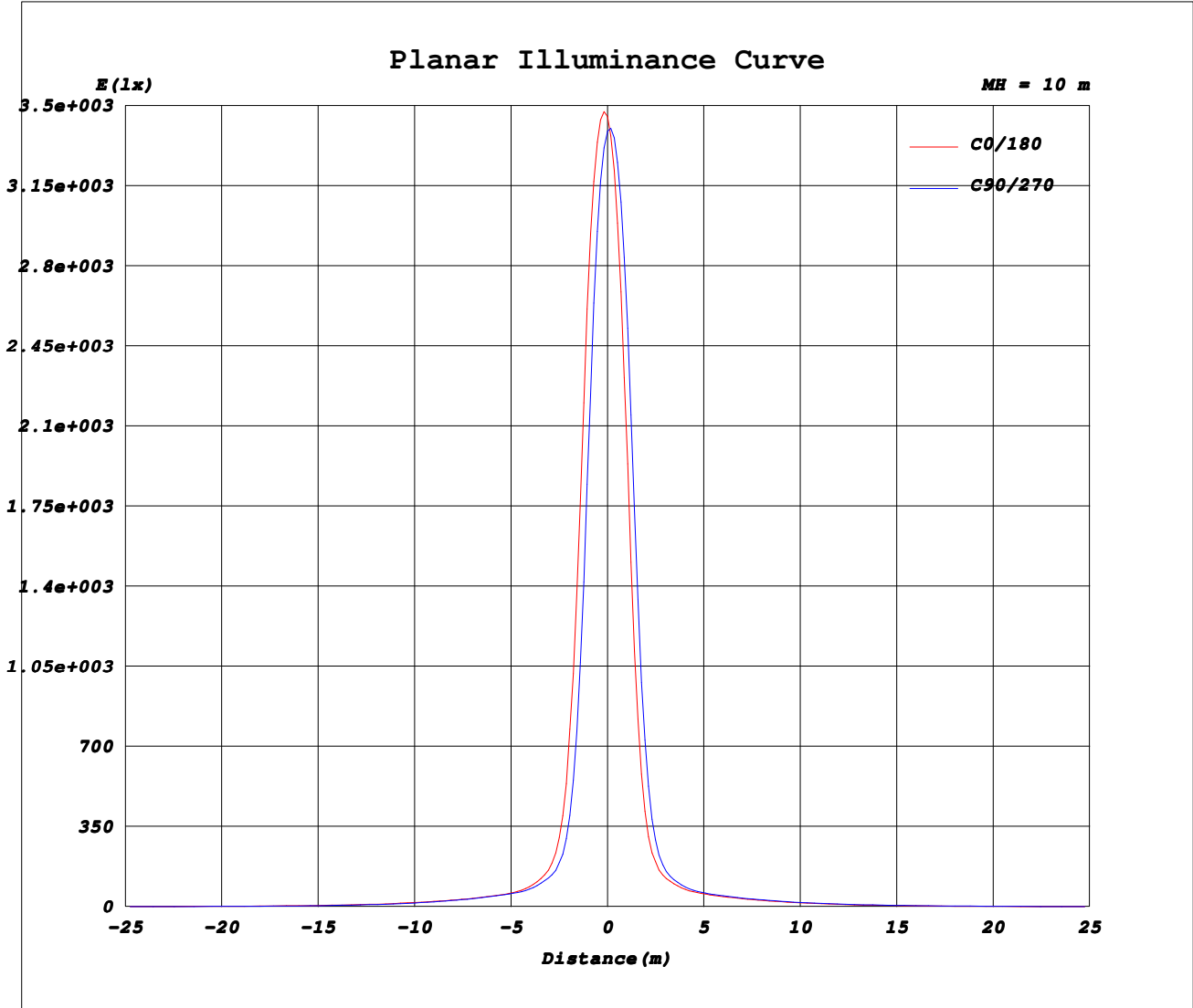
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SPEC.:325 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
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**Test Date: 16/12/2021**

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**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
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**Remarks: KYH-XL 325W 6500K**

## Planar Illuminance Curve

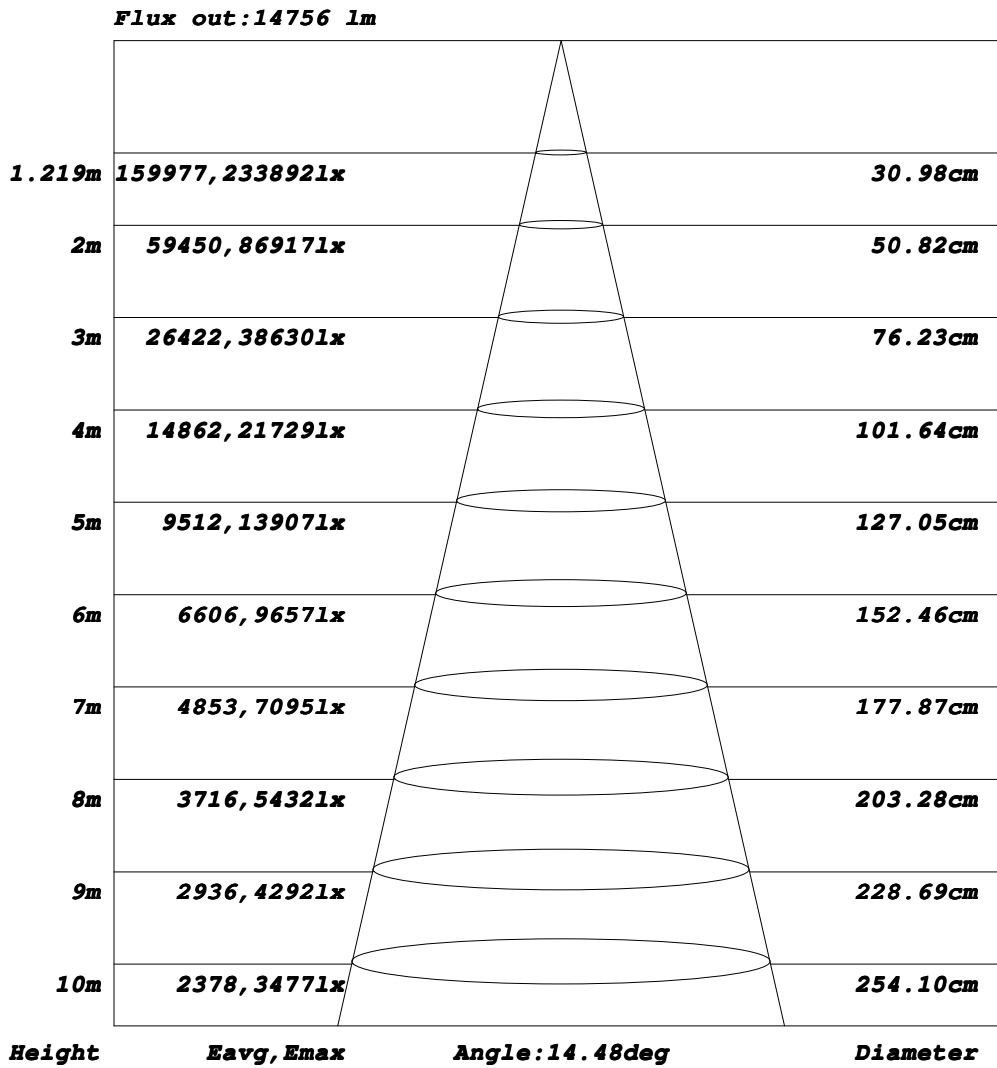


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: LITPA  
Test Date: 16/12/2021

$\gamma$  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 325W 6500K

## AAI Figure

Test:U:230.21V I:1.4467A P:324.39W PF:0.9740 Freq:50.01Hz Lamp Flux:43650.6x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:325 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  
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Temperature:20DEG  
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Test Date:16/12/2021

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 325W 6500K

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.21V I:1.4467A P:324.39W PF:0.9740 Freq:50.01Hz Lamp Flux:43650.6x1 lm		
NAME: KYH-XL	TYPE:OUTDOOR	WEIGHT:28 kg
SPEC.:325 WATT	DIM.: 540X660X70	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT:  $\mu$ A100cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
-85	0.03	0.03	0.03	0.04	0.05	0.06	0.09	0.11	0.13	0.15	0.18	0.19	0.21	0.25	0.28	0.28	0.28	0.30	0.32
-80	0.03	0.03	0.05	0.09	0.14	0.20	0.29	0.41	0.55	0.72	0.91	1.08	1.23	1.43	1.65	1.72	1.74	1.87	1.96
-75	0.03	0.04	0.09	0.17	0.30	0.51	0.82	1.20	1.62	2.12	2.64	3.07	3.45	3.99	4.45	4.69	4.82	5.06	5.23
-70	0.03	0.06	0.15	0.32	0.62	1.11	1.73	2.52	3.32	4.17	5.30	6.14	6.85	7.61	8.44	8.96	9.18	9.63	9.98
-65	0.03	0.08	0.22	0.54	1.12	1.92	3.00	4.13	5.55	6.93	8.39	9.75	11.2	12.6	13.8	14.5	15.0	15.5	15.9
-60	0.03	0.10	0.32	0.85	1.72	2.98	4.43	6.27	8.04	9.85	12.1	14.4	16.2	17.8	19.5	20.7	21.2	22.0	22.6
-55	0.03	0.12	0.45	1.24	2.51	4.06	6.24	8.46	10.8	13.7	16.5	19.1	21.5	23.7	26.1	27.9	28.6	29.6	30.3
-50	0.03	0.15	0.60	1.69	3.32	5.45	8.01	10.9	14.3	17.7	21.0	24.4	27.6	30.4	33.2	35.5	36.6	37.6	38.3
-45	0.03	0.17	0.78	2.19	4.17	6.85	9.83	13.5	17.9	21.8	25.8	30.1	34.0	37.4	40.4	43.2	44.7	45.8	46.7
-40	0.03	0.20	0.98	2.69	5.19	8.19	11.7	16.6	21.2	26.0	30.9	35.8	40.3	44.3	47.9	51.3	53.5	54.9	55.6
-35	0.03	0.22	1.18	3.18	6.10	9.49	13.9	19.0	24.4	30.2	35.8	41.2	46.6	51.8	56.0	59.5	62.1	63.8	64.5
-30	0.03	0.25	1.38	3.65	6.92	10.8	16.1	21.5	27.6	34.0	40.4	46.6	53.1	59.0	63.7	67.5	70.5	72.4	73.2
-25	0.03	0.28	1.56	4.12	7.72	12.0	17.8	23.8	30.5	37.6	44.5	52.1	59.1	65.5	70.9	74.9	78.9	81.9	83.8
-20	0.03	0.30	1.73	4.54	8.45	13.3	19.3	25.9	33.3	40.6	48.4	56.7	64.4	71.0	77.1	84.1	93.6	105	112
-15	0.03	0.32	1.88	4.91	9.12	14.5	20.7	27.7	35.4	43.1	51.8	60.4	68.4	75.8	84.4	102	131	160	176
-10	0.03	0.33	1.99	5.18	9.67	15.3	22.0	29.4	37.3	45.3	54.4	63.2	71.4	79.5	94.4	132	201	391	578
-5	0.03	0.34	2.06	5.35	10.1	15.8	23.0	30.8	39.0	47.3	56.0	64.6	73.1	83.0	106	157	402	1461	2266
0	0.03	0.35	2.10	5.43	10.3	16.1	23.6	31.6	40.0	48.5	56.6	64.1	72.0	82.9	109	178	606	2337	3452
5	0.03	0.35	2.09	5.40	10.3	16.0	23.5	31.4	39.9	48.4	56.4	63.7	71.5	82.0	106	169	486	1774	2869
10	0.03	0.34	2.04	5.28	10.0	15.7	23.0	30.8	39.1	47.5	55.4	62.7	70.3	79.6	96.3	137	244	597	1026
15	0.03	0.33	1.95	5.08	9.66	15.1	22.1	29.7	37.8	46.1	53.9	60.9	68.0	75.6	86.6	108	144	198	250
20	0.03	0.31	1.83	4.79	9.12	14.3	20.9	28.3	36.0	43.9	51.5	58.3	64.7	71.6	78.9	87.8	102	119	128
25	0.03	0.29	1.67	4.44	8.45	13.3	19.3	26.4	33.7	41.1	48.3	55.0	61.2	67.0	72.4	77.7	82.9	87.9	90.5
30	0.03	0.27	1.50	4.02	7.70	12.3	17.7	24.3	30.9	37.7	44.5	51.0	56.8	61.9	66.4	70.4	73.4	75.8	77.0
35	0.03	0.23	1.30	3.56	6.82	11.1	15.7	21.7	27.7	33.9	40.2	46.3	51.6	56.1	60.2	63.5	65.9	67.7	68.7
40	0.03	0.21	1.09	3.02	5.89	9.70	13.9	18.9	24.2	29.9	35.6	41.0	45.7	49.9	53.6	56.4	58.7	60.2	61.1
45	0.03	0.18	0.89	2.50	4.93	8.27	11.9	16.0	20.6	25.7	30.7	35.3	39.4	43.3	46.5	49.0	51.0	52.5	53.1
50	0.03	0.16	0.70	2.01	4.04	6.79	9.81	13.1	17.1	21.3	25.5	29.3	33.0	36.3	39.0	41.3	43.1	44.3	44.9
55	0.03	0.13	0.53	1.52	3.10	5.19	7.69	10.4	13.5	16.9	20.1	23.3	26.4	29.2	31.5	33.4	35.0	36.0	36.5
60	0.03	0.11	0.38	1.07	2.26	3.81	5.66	7.75	10.1	12.7	15.1	17.5	20.0	22.2	24.0	25.6	26.9	27.8	28.2
65	0.03	0.09	0.26	0.70	1.50	2.57	3.83	5.37	7.11	8.81	10.6	12.4	14.2	15.7	17.0	18.3	19.3	19.9	20.2
70	0.03	0.07	0.18	0.42	0.88	1.52	2.29	3.27	4.34	5.51	6.54	7.80	9.14	10.2	11.1	11.9	12.6	13.0	13.3
75	0.03	0.05	0.12	0.23	0.44	0.76	1.18	1.67	2.27	2.85	3.49	4.17	4.82	5.40	5.92	6.55	7.16	7.29	7.28
80	0.03	0.03	0.08	0.13	0.20	0.30	0.44	0.63	0.87	1.11	1.35	1.64	2.00	2.24	2.46	2.77	3.04	3.15	3.20
85	0.03	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.35	0.42	0.48	0.54	0.62	0.71	0.73	0.73
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06

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MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT:  $\mu$ A100cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08
-85	0.33	0.34	0.36	0.37	0.36	0.34	0.33	0.31	0.28	0.25	0.22	0.21	0.18	0.16	0.14	0.12	0.10	0.08
-80	1.96	1.93	1.96	1.93	1.79	1.66	1.52	1.35	1.14	0.95	0.79	0.63	0.48	0.35	0.26	0.18	0.13	0.08
-75	5.22	5.13	5.06	4.88	4.58	4.22	3.86	3.42	2.87	2.36	1.92	1.49	1.06	0.71	0.46	0.28	0.16	0.08
-70	10.0	9.95	9.73	9.32	8.71	7.91	7.13	6.26	5.27	4.38	3.57	2.69	1.95	1.28	0.77	0.41	0.19	0.08
-65	15.8	15.6	15.3	14.6	13.7	12.6	11.4	10.0	8.47	7.06	5.68	4.36	3.06	2.04	1.19	0.58	0.22	0.08
-60	22.6	22.3	21.7	20.7	19.4	17.9	16.2	14.2	12.1	10.1	8.11	6.24	4.41	2.91	1.71	0.79	0.28	0.08
-55	30.3	29.9	29.0	27.7	25.8	23.8	21.4	18.8	16.0	13.5	10.8	8.26	6.00	3.87	2.30	1.03	0.32	0.08
-50	38.2	37.6	36.6	34.9	32.6	30.1	27.1	23.7	20.3	17.0	13.7	10.4	7.55	4.93	2.91	1.30	0.38	0.08
-45	46.5	45.7	44.4	42.1	39.6	36.5	32.9	28.8	24.7	20.5	16.6	12.6	9.16	6.09	3.53	1.58	0.45	0.08
-40	55.1	54.3	52.6	49.8	46.5	42.7	38.5	34.0	29.3	24.3	19.5	14.8	10.7	7.19	4.14	1.89	0.50	0.08
-35	63.7	62.8	60.7	57.6	53.8	49.1	44.0	39.0	33.7	27.9	22.2	17.1	12.3	8.25	4.72	2.17	0.56	0.08
-30	72.4	71.5	68.7	65.0	60.4	54.9	49.5	43.7	37.6	31.3	25.0	19.3	13.7	9.26	5.27	2.43	0.63	0.08
-25	82.8	80.5	76.5	72.2	66.4	60.3	54.3	48.1	41.3	34.5	27.7	21.2	15.1	10.1	5.84	2.66	0.69	0.08
-20	109	99.1	87.7	78.9	72.0	65.2	58.4	51.7	44.6	37.3	30.0	23.0	16.4	10.9	6.33	2.87	0.73	0.08
-15	171	142	111	88.4	77.1	69.2	61.6	54.7	47.5	39.7	32.0	24.5	17.5	11.5	6.73	3.03	0.77	0.08
-10	495	251	150	104	82.2	72.1	64.4	57.2	49.8	41.6	33.4	25.6	18.4	12.0	7.03	3.16	0.80	0.08
-5	1869	635	207	123	87.6	74.3	66.1	58.6	51.1	42.7	34.4	26.3	19.0	12.3	7.22	3.23	0.82	0.08
0	2975	1066	262	132	89.7	75.1	66.7	59.3	51.7	43.3	34.8	26.6	19.2	12.5	7.30	3.26	0.82	0.08
5	2249	764	238	124	88.9	76.2	68.2	60.4	52.3	43.6	35.0	26.7	19.3	12.5	7.26	3.23	0.81	0.08
10	790	327	163	108	84.9	74.8	67.8	60.4	52.1	43.4	34.7	26.5	19.0	12.2	7.10	3.15	0.79	0.08
15	220	162	119	92.0	79.6	72.4	65.8	58.5	50.3	42.1	33.9	25.8	18.4	11.8	6.85	3.02	0.76	0.08
20	124	109	91.9	81.9	74.8	69.0	62.7	55.8	47.9	40.1	32.2	24.5	17.6	11.2	6.49	2.85	0.72	0.08
25	89.7	84.7	79.9	74.6	70.2	64.9	58.8	52.1	44.8	37.6	30.1	23.1	16.6	10.5	6.05	2.63	0.67	0.08
30	77.0	74.4	72.2	68.8	64.7	60.1	54.3	47.7	41.1	34.4	27.6	21.2	15.2	9.59	5.53	2.38	0.62	0.08
35	69.1	67.1	65.0	62.4	58.6	54.2	48.9	43.1	36.9	30.8	24.8	19.1	13.2	8.62	4.87	2.10	0.55	0.08
40	61.4	59.9	57.7	55.5	52.0	47.7	43.3	38.1	32.5	27.0	21.8	16.8	11.4	7.57	4.18	1.82	0.49	0.08
45	53.3	52.1	50.0	48.0	45.0	41.2	37.1	32.7	27.9	23.2	18.7	14.0	9.80	6.47	3.53	1.52	0.43	0.08
50	44.9	44.0	42.2	40.3	37.8	34.6	30.9	27.2	23.3	19.3	15.4	11.3	8.15	5.28	2.90	1.26	0.37	0.08
55	36.4	35.8	34.3	32.6	30.6	27.8	24.7	21.8	18.6	15.4	11.7	8.99	6.48	4.10	2.28	1.00	0.31	0.08
60	28.1	27.6	26.4	25.0	23.4	21.4	19.1	16.7	14.1	11.2	8.95	6.86	4.77	3.11	1.70	0.73	0.26	0.08
65	20.3	19.9	19.0	18.0	17.0	15.7	13.8	11.6	9.84	8.16	6.44	4.74	3.39	2.18	1.20	0.53	0.21	0.08
70	13.4	13.4	12.6	11.8	11.1	10.00	8.79	7.68	6.55	5.33	4.11	3.05	2.16	1.40	0.77	0.37	0.18	0.08
75	7.39	7.36	6.92	6.40	6.11	5.69	5.03	4.28	3.64	3.02	2.32	1.67	1.20	0.78	0.45	0.24	0.15	0.08
80	3.22	3.19	3.03	2.81	2.64	2.48	2.18	1.85	1.56	1.29	1.00	0.73	0.54	0.38	0.25	0.16	0.12	0.08
85	0.76	0.77	0.73	0.68	0.66	0.62	0.54	0.46	0.41	0.35	0.28	0.23	0.19	0.16	0.14	0.11	0.10	0.08
90	0.06	0.07	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.08

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 16/12/2021**

**$\gamma$  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 325W 6500K**