

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	288.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I <sub>max</sub>	162.6V x 166.3H
	At 50% of I <sub>max</sub>	145.3V x 142.8H
	At 90% of I <sub>max</sub>	132.6V x 49.5H

Beam Flux	Total	973.8 lumens per klm.
	To 10% of I <sub>max</sub>	954.1 lumens per klm.
	To 50% of I <sub>max</sub>	851.2 lumens per klm.
	To 90% of I <sub>max</sub>	72.1 lumens per klm.

Upward LOR	0.7 %
Downward LOR	96.7 %

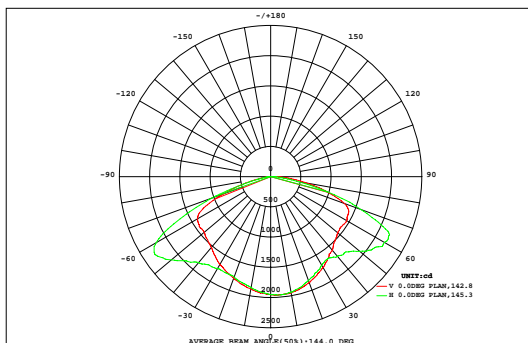
Luminaire Efficiency(Light Output Ratio)	97.4 %
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C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.0DEG  
Operators:YangWenPeng  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.835m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: TP421-W60-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:133.23lm/W	
MODEL	TP421-W60-3000K	Imax(cd)	2307
NOMINAL POWER(W)	60	AVAILABILITY(%)	95.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	7727
NOMINAL FLUX(lm)	7993.8	LOR(%)	97.4
LAMPS INSIDE	1	TOTAL FLUX(lm)	7995
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	143,145DEG

VERTICAL( DEG )	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.06	0.20	0.47	0.99	1.68	2.44	3.32	4.30	5.18	5.31	4.70	3.93	2.99	1.98	1.13	0.84	0.69	0.27	40.5	10.2
90	0.06	0.20	0.47	0.99	1.68	2.44	3.32	4.30	5.18	5.31	4.70	3.93	2.99	1.98	1.13	0.84	0.69	0.27	40.5	10.2
80	0.07	0.41	1.49	3.56	6.36	9.49	14.1	21.2	27.5	28.2	22.8	16.1	10.1	5.91	3.19	2.13	1.26	0.35	174	160
70	0.08	0.83	3.48	8.59	15.5	25.1	37.1	49.4	58.4	60.0	53.9	43.7	28.3	14.5	6.30	3.91	2.01	0.45	412	409
60	0.11	1.41	6.07	14.2	26.6	40.3	51.0	57.5	61.6	62.6	60.4	55.8	43.2	25.0	11.3	6.39	2.91	0.56	527	525
50	0.15	2.09	8.72	19.9	32.6	41.5	46.8	50.5	53.4	54.8	54.8	52.6	45.8	32.5	17.0	9.52	3.92	0.67	527	526
40	0.19	2.77	11.3	23.8	32.0	37.6	43.2	47.5	50.3	51.6	51.5	48.6	44.1	36.1	22.8	12.6	4.97	0.78	522	521
30	0.23	3.36	13.5	25.1	30.9	36.7	43.6	49.8	53.1	53.8	52.2	47.5	42.4	35.6	25.8	15.0	5.99	0.88	535	535
	0.25	3.78	14.8	25.2	31.2	38.0	45.9	52.6	56.8	57.2	53.3	47.7	41.5	34.3	26.3	16.6	6.88	0.97	553	553
	0.26	3.99	15.3	25.0	31.7	39.6	47.5	54.1	58.5	58.9	54.8	49.0	41.4	33.1	25.6	17.7	7.56	1.03	565	564
	0.26	4.01	15.5	25.5	32.4	40.3	47.9	54.2	58.0	58.2	55.3	49.1	41.1	32.7	25.5	18.1	7.71	1.04	567	566
	0.26	3.84	15.2	26.5	33.4	40.4	47.7	53.1	55.5	55.1	52.7	47.4	40.2	33.0	26.1	17.9	7.30	0.99	557	556
	0.25	3.45	14.1	27.2	34.9	40.9	47.8	52.5	53.7	53.0	50.5	46.2	39.8	33.6	26.5	17.2	6.65	0.92	549	548
-30	0.22	2.87	12.1	26.2	36.8	44.3	50.1	53.8	54.8	53.9	51.4	47.4	41.9	34.5	26.2	15.6	5.78	0.83	559	558
-40	0.18	2.23	9.39	22.0	36.2	47.7	56.2	59.5	60.3	59.3	56.5	52.3	45.0	35.1	24.0	13.0	4.76	0.72	584	584
-50	0.14	1.64	6.43	15.7	26.6	39.8	53.1	62.5	67.1	66.7	61.8	54.1	42.4	29.4	18.4	9.78	3.66	0.60	560	559
-60	0.11	1.12	4.02	8.86	14.3	20.6	28.7	39.3	47.3	48.5	42.7	33.7	24.8	17.6	11.7	6.55	2.58	0.49	353	351
-70	0.10	0.65	2.30	4.42	5.80	6.75	8.23	11.3	14.0	14.5	12.9	10.4	8.94	7.86	6.05	3.65	1.63	0.39	120	101
-80	0.08	0.37	0.99	1.64	1.82	1.69	1.63	1.85	1.95	2.08	2.21	2.17	2.31	2.43	2.14	1.58	0.93	0.29	28.2	0.00
-90	0.08	0.37	0.99	1.64	1.82	1.69	1.63	1.85	1.95	2.08	2.21	2.17	2.31	2.43	2.14	1.58	0.93	0.29	28.2	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL( DEG )	20	30	40	50	60	70	80	90			
Φ t	2.98	39.0	155	304	431	553	674	775	837	844	794	708	586	445	306	188	77.2	12.2	7732	---
Φ a	0.00	30.8	149	298	424	546	667	769	832	838	788	702	580	439	300	183	72.6	8.46	---	7627

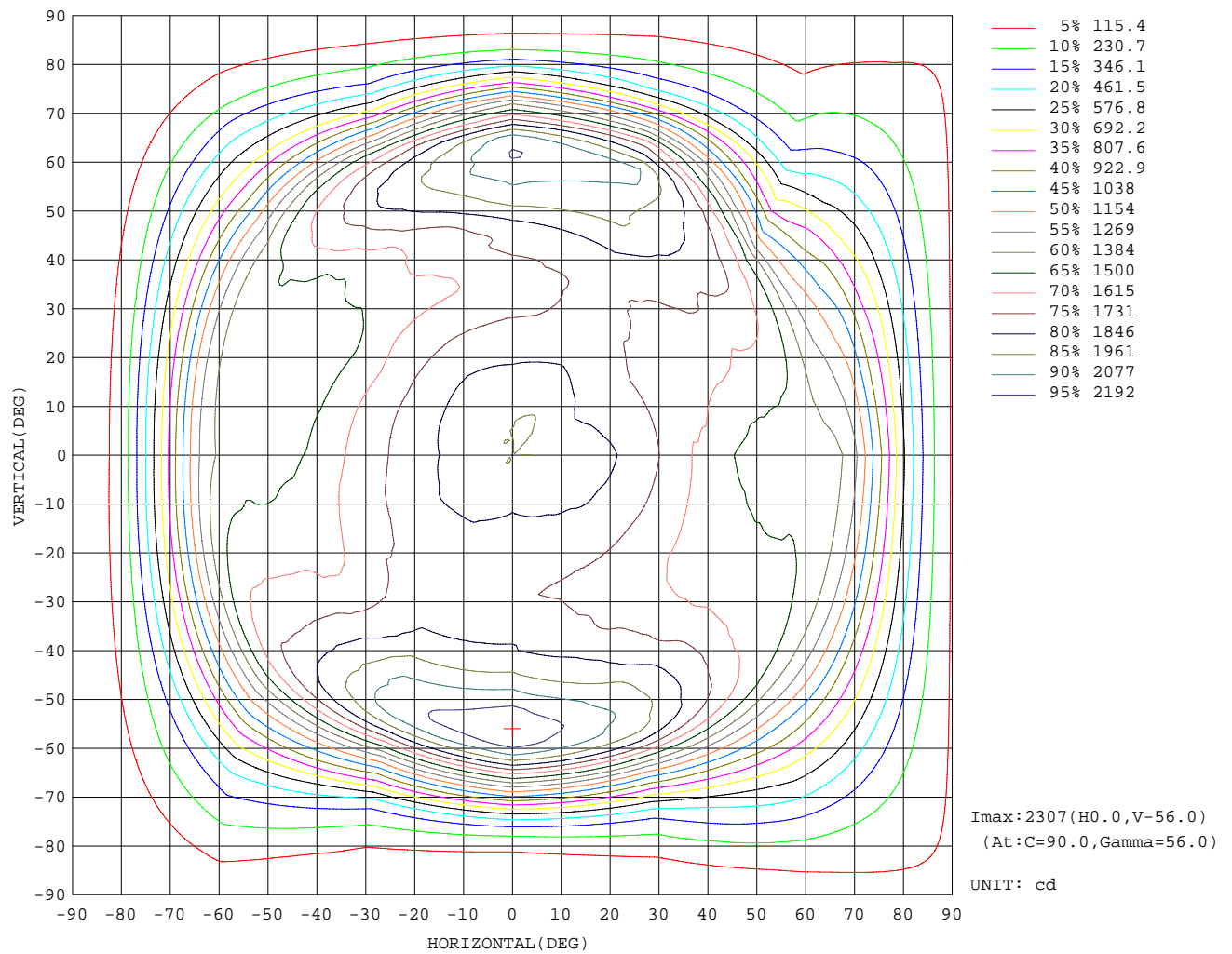
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

NEMA Beam Type: Type 7

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.0DEG  
Operators:YangWenPeng  
Test Date:2023-11-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.835m [K=1.0000]  
Remarks:

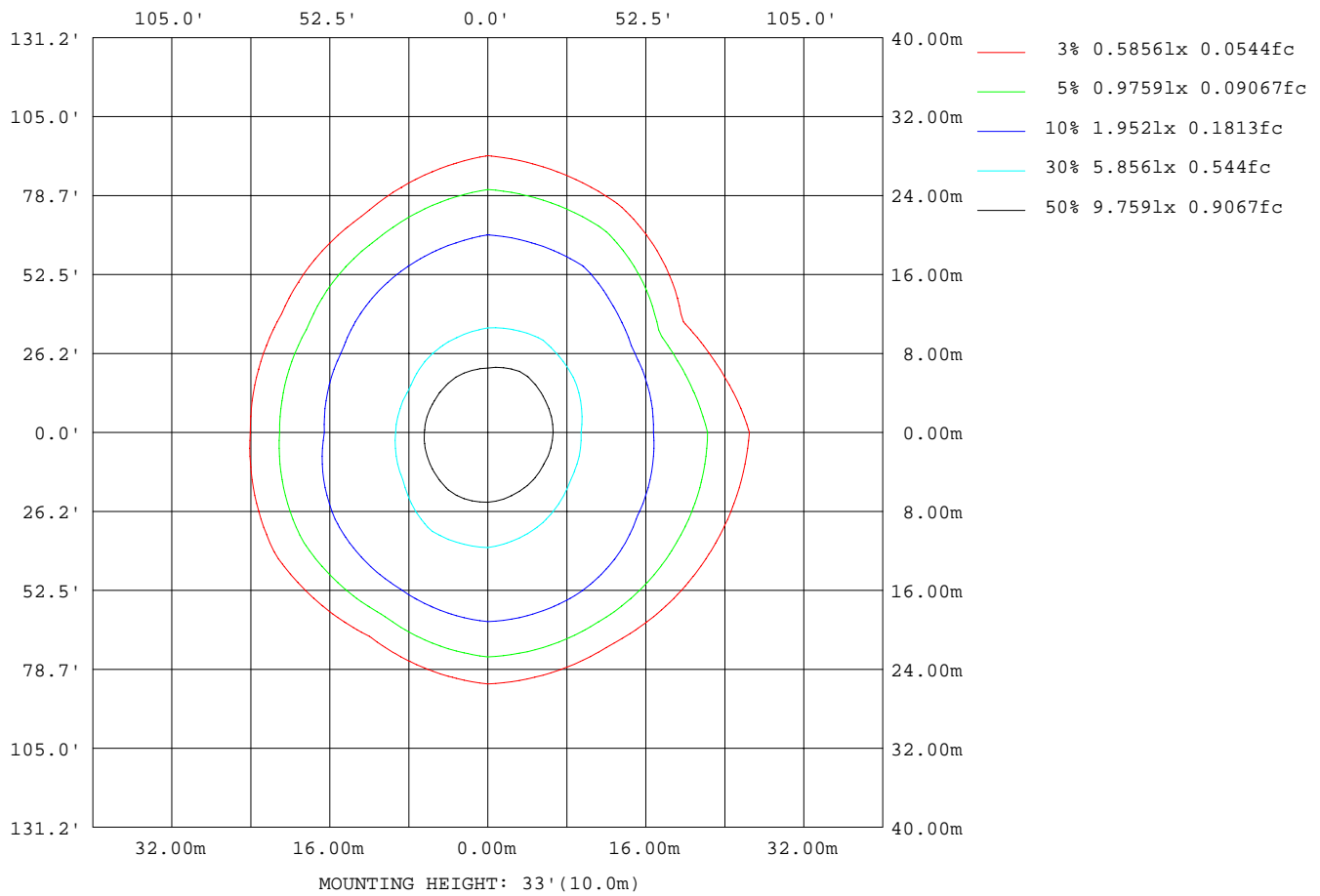
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: YangWenPeng  
Test Date: 2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.835m [K=1.0000]  
Remarks:

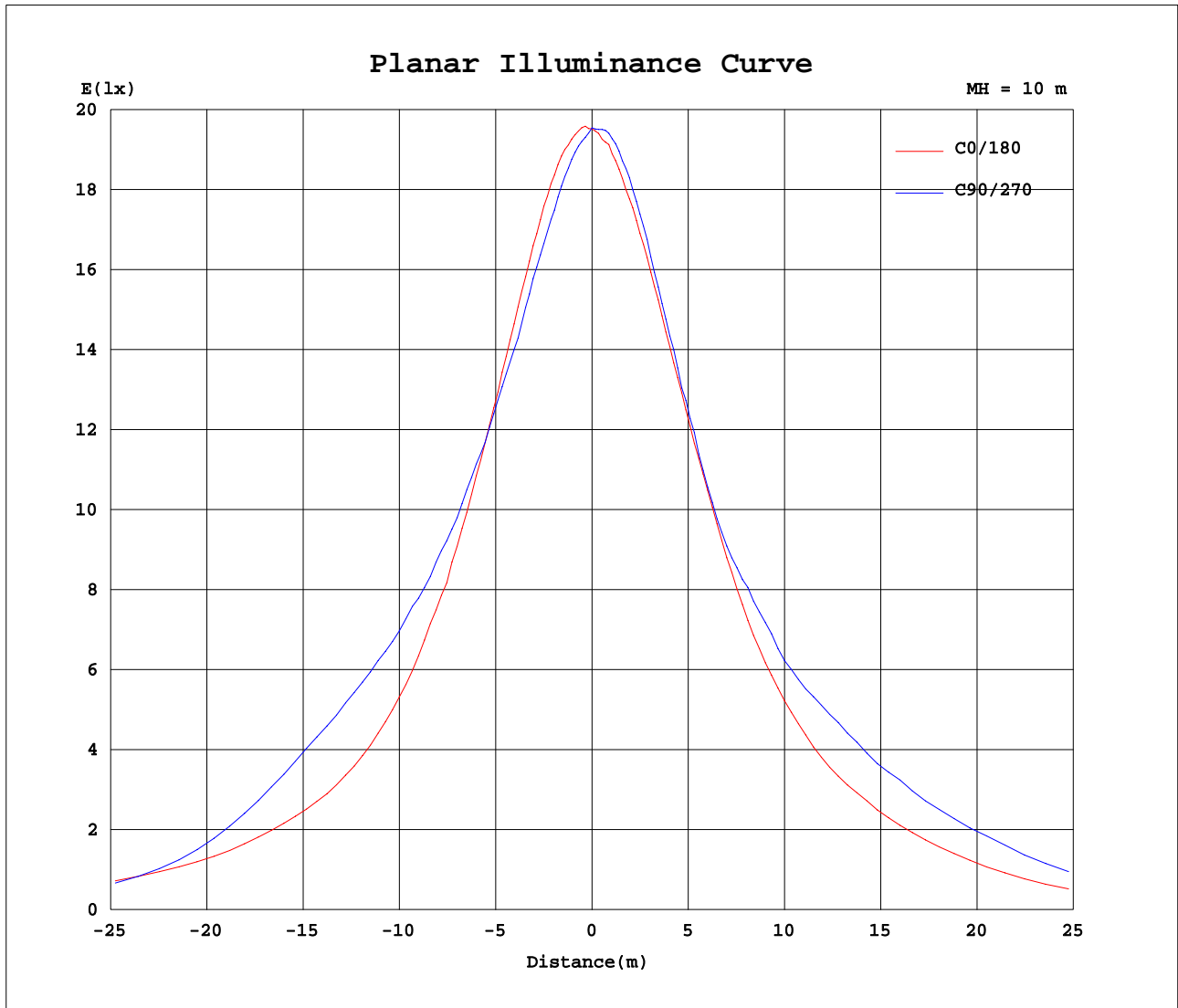
## ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: YangWenPeng  
Test Date: 2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.835m [K=1.0000]  
Remarks:

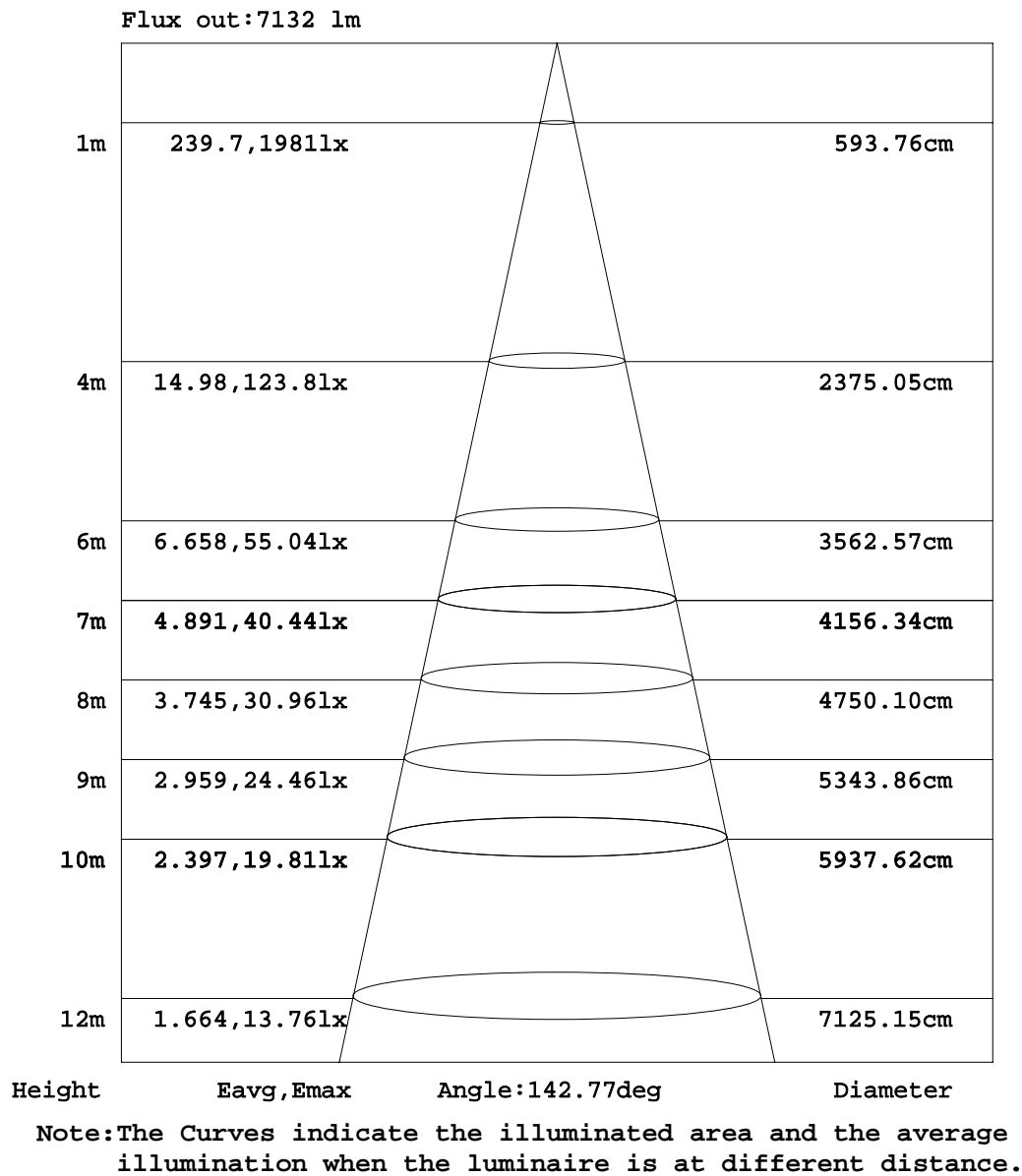
## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: YangWenPeng  
Test Date: 2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.835m [K=1.0000]  
Remarks:

AAI Figure



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.0DEG  
Operators:YangWenPeng  
Test Date:2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.835m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	21.6	14.0	7.84	4.52	2.61	1.92	1.42	1.23	1.42	1.68	1.87	1.99	2.06	2.12	2.19	2.26	2.34	2.44	2.46
-170	21.6	14.6	8.53	5.31	3.35	2.53	2.07	1.85	1.88	2.01	2.15	2.31	2.45	2.60	2.75	2.78	2.66	2.59	2.54
-160	21.6	15.3	9.54	6.35	4.34	3.29	2.83	2.57	2.47	2.44	2.43	2.57	2.72	2.74	2.74	2.70	2.66	2.65	2.62
-150	21.6	16.3	10.9	7.74	5.75	4.46	3.77	3.47	3.33	3.18	2.99	2.70	2.64	2.65	2.65	2.64	2.63	2.61	2.57
-140	21.6	17.5	12.8	9.51	7.69	6.14	5.15	4.66	4.48	4.14	3.60	3.16	2.86	2.68	2.59	2.56	2.56	2.55	2.55
-130	21.6	18.8	15.2	11.9	10.1	8.89	7.64	6.80	5.67	5.11	4.60	4.18	3.79	3.46	3.20	3.04	2.92	2.85	2.81
-120	21.6	20.1	18.3	15.6	13.4	12.2	11.6	10.5	8.58	7.30	6.39	5.73	5.37	5.07	4.84	4.67	4.55	4.48	4.45
-110	21.6	21.3	21.7	20.8	19.2	17.9	16.8	15.2	13.6	12.1	10.8	9.42	8.37	7.93	7.75	7.63	7.57	7.57	7.63
-100	21.6	22.6	24.0	26.0	27.7	28.6	28.7	25.8	23.3	21.2	19.6	18.2	17.1	16.9	17.0	17.1	17.3	17.6	18.0
-90	21.6	24.7	27.7	30.7	33.8	36.8	39.9	40.0	40.2	40.4	40.5	40.7	40.9	41.0	41.1	41.2	41.3	41.4	41.5
-80	21.6	28.6	41.6	60.1	84.3	116	155	160	159	155	147	136	122	129	137	142	147	149	149
-70	21.6	32.3	52.8	99.8	167	237	313	357	385	411	438	459	478	567	688	797	891	969	1028
-60	21.6	34.5	76.6	165	258	380	530	698	818	954	1072	1206	1346	1520	1727	1893	2017	2113	2186
-50	21.6	35.3	114	221	380	596	841	1089	1298	1515	1724	1895	2032	2136	2155	2150	2146	2139	2143
-40	21.6	34.6	145	280	527	820	1119	1405	1651	1755	1816	1870	1900	1920	1932	1898	1872	1859	1853
-30	21.6	39.5	167	363	665	1010	1334	1577	1648	1664	1675	1685	1710	1746	1782	1801	1790	1772	1756
-20	21.6	44.5	178	422	766	1138	1444	1558	1573	1585	1587	1609	1677	1728	1762	1788	1802	1786	1768
-10	21.6	46.1	179	456	827	1212	1441	1497	1501	1527	1556	1623	1687	1740	1785	1832	1865	1879	1865
0	21.6	44.5	173	460	838	1222	1396	1441	1435	1477	1525	1601	1677	1736	1789	1845	1885	1935	1952
10	21.6	44.3	175	453	813	1192	1401	1448	1425	1466	1490	1565	1635	1696	1769	1828	1885	1919	1940
20	21.6	41.0	169	418	742	1101	1372	1457	1450	1430	1461	1476	1549	1624	1691	1745	1793	1820	1826
30	21.6	34.4	151	357	636	954	1260	1443	1487	1448	1424	1487	1508	1542	1583	1643	1670	1685	1691
40	21.6	28.2	124	269	510	763	1035	1290	1457	1538	1572	1561	1566	1590	1632	1660	1675	1691	1716
50	21.6	27.4	94.3	195	368	563	761	970	1209	1448	1616	1721	1803	1832	1849	1856	1864	1889	1925
60	21.6	25.8	58.7	125	224	360	506	639	790	971	1173	1395	1583	1753	1885	1983	2052	2113	2174
70	21.6	24.3	33.6	70.4	116	159	258	339	406	478	553	631	720	876	1050	1209	1352	1478	1586
80	21.6	23.5	24.8	30.4	44.1	66.9	94.1	115	132	150	169	191	212	245	284	324	363	401	434
90	21.6	22.1	22.6	23.1	23.6	24.1	24.6	26.7	28.8	31.0	33.1	35.2	37.4	39.5	41.6	43.8	45.9	48.0	50.1
100	21.6	20.6	19.9	19.3	18.8	18.4	18.0	18.3	18.6	18.7	18.7	18.8	19.1	19.6	20.2	20.8	21.5	22.3	23.3
110	21.6	19.3	17.5	15.8	14.3	13.0	11.7	10.6	9.91	9.49	9.16	8.79	8.50	8.29	8.17	8.13	8.19	8.35	8.61
120	21.6	18.1	15.2	12.5	10.3	8.24	6.56	5.45	4.97	4.69	4.45	4.29	4.20	4.12	4.01	3.93	3.90	3.92	4.02
130	21.6	17.0	13.1	9.79	7.21	5.26	4.06	3.39	2.85	2.67	2.57	2.45	2.39	2.33	2.26	2.22	2.21	2.22	2.27
140	21.6	16.1	11.3	7.77	5.22	3.68	2.86	2.24	1.95	1.85	1.82	1.80	1.80	1.87	1.95	2.01	2.06	2.13	2.17
150	21.6	15.3	9.92	6.33	4.02	2.85	2.15	1.77	1.60	1.59	1.64	1.77	1.92	2.06	2.23	2.38	2.48	2.57	2.65
160	21.6	14.7	8.90	5.36	3.27	2.35	1.78	1.49	1.47	1.58	1.75	1.92	2.05	2.15	2.26	2.36	2.45	2.51	2.56
170	21.6	14.3	8.22	4.81	2.85	2.07	1.56	1.34	1.43	1.65	1.84	2.00	2.07	2.13	2.18	2.24	2.33	2.40	2.44
180	21.6	14.0	7.84	4.52	2.61	1.92	1.42	1.23	1.42	1.68	1.87	1.99	2.06	2.12	2.19	2.26	2.34	2.44	2.45

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C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
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γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.835m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	2.63	2.72	2.74	2.73	2.65	2.57	2.58	2.49	2.50	2.63	3.08	3.73	4.84	7.18	11.2	17.3	23.6	103	
-170	2.62	2.69	2.73	2.69	2.62	2.54	2.51	2.48	2.48	2.69	3.16	3.82	5.00	7.38	11.5	17.5	23.6	103	
-160	2.65	2.65	2.63	2.60	2.54	2.46	2.47	2.43	2.55	2.88	3.38	4.10	5.43	8.01	12.3	18.1	23.7	103	
-150	2.57	2.56	2.53	2.49	2.44	2.46	2.42	2.56	2.84	3.25	3.77	4.75	6.34	9.17	13.6	19.2	23.8	103	
-140	2.52	2.51	2.49	2.47	2.49	2.64	2.83	3.13	3.44	3.81	4.69	5.86	7.90	11.0	15.4	20.6	24.1	103	
-130	2.84	2.91	3.02	3.21	3.46	3.66	3.89	4.16	4.65	5.29	6.31	8.00	10.5	13.8	17.8	22.4	24.8	103	
-120	4.50	4.60	4.76	4.98	5.29	5.60	5.98	6.41	7.06	8.11	9.67	11.7	14.3	17.4	21.0	24.3	37.0	103	
-110	7.72	7.88	8.12	8.46	8.91	9.48	10.2	11.2	12.4	13.7	15.4	17.4	19.7	22.2	24.6	25.4	55.1	103	
-100	17.8	17.6	17.5	17.5	17.7	18.1	19.1	20.3	21.5	23.0	24.6	26.0	26.8	26.8	32.4	49.8	74.0	103	
-90	40.9	40.3	39.7	39.1	38.5	37.9	41.9	45.9	49.9	53.9	57.9	61.9	68.8	75.6	82.5	89.3	96.2	103	
-80	157	163	167	168	167	166	186	202	213	216	212	204	189	172	155	139	123	103	
-70	998	950	886	807	717	644	609	574	542	521	498	454	386	320	255	198	148	103	
-60	2138	2074	1995	1893	1758	1572	1402	1239	1095	966	861	743	624	504	380	266	176	103	
-50	2107	2081	2061	2035	2004	1933	1836	1726	1582	1404	1234	1054	876	696	514	343	204	103	
-40	1829	1817	1812	1808	1784	1772	1755	1706	1625	1560	1481	1319	1113	883	644	418	231	103	
-30	1743	1731	1716	1703	1673	1648	1622	1600	1581	1555	1527	1450	1294	1049	766	486	255	103	
-20	1768	1761	1751	1720	1687	1636	1592	1558	1545	1523	1510	1474	1386	1172	863	539	274	103	
-10	1870	1867	1846	1807	1755	1696	1632	1574	1521	1486	1473	1472	1418	1256	926	575	287	103	
0	1959	1951	1914	1864	1804	1731	1653	1591	1505	1450	1436	1453	1422	1300	959	593	293	103	
10	1948	1884	1819	1787	1754	1705	1658	1617	1567	1519	1493	1437	1348	1202	891	561	284	103	
20	1834	1830	1796	1759	1714	1688	1675	1658	1611	1593	1520	1350	1240	1067	798	513	268	103	
30	1717	1742	1772	1757	1726	1722	1735	1701	1695	1601	1428	1209	1075	896	681	452	247	103	
40	1731	1749	1771	1803	1829	1832	1823	1788	1654	1384	1122	978	866	707	546	381	221	103	
50	1937	1954	1975	1974	1965	1924	1849	1672	1368	1019	759	700	602	526	422	306	194	103	
60	2160	2148	2133	2109	2022	1788	1522	1220	922	676	451	407	393	358	306	235	165	103	
70	1521	1439	1339	1218	1071	876	686	541	412	317	247	217	233	225	203	172	138	103	
80	408	377	343	308	272	244	218	193	167	142	117	97.8	112	118	119	117	113	103	
90	49.2	48.3	47.4	46.4	45.5	44.6	41.4	38.2	35.0	31.8	28.6	25.4	38.4	51.3	64.2	77.1	90.1	103	
100	23.0	22.8	22.8	22.9	23.1	23.4	22.5	21.6	20.7	19.8	18.7	17.8	19.6	21.4	29.0	47.2	71.3	103	
110	8.46	8.45	8.56	8.84	9.29	9.76	9.96	10.2	10.4	10.6	10.5	11.2	14.2	17.6	20.7	22.8	53.8	103	
120	3.96	3.96	4.04	4.16	4.36	4.47	4.62	4.82	5.01	5.24	5.59	7.44	10.3	13.7	17.9	21.9	36.0	103	
130	2.22	2.19	2.20	2.26	2.36	2.47	2.64	2.83	3.04	3.34	3.90	5.18	7.50	11.0	15.3	20.5	23.8	103	
140	2.08	1.96	1.84	1.73	1.71	1.73	1.79	1.89	2.05	2.39	3.14	4.27	5.96	8.98	13.5	19.1	23.2	103	
150	2.59	2.51	2.37	2.21	2.02	1.84	1.67	1.59	1.78	2.20	2.81	3.70	5.20	7.76	12.2	18.0	23.1	103	
160	2.55	2.54	2.50	2.43	2.34	2.20	2.05	1.91	1.95	2.23	2.75	3.48	4.78	7.17	11.4	17.4	23.2	103	
170	2.45	2.42	2.38	2.41	2.43	2.41	2.38	2.26	2.22	2.38	2.85	3.53	4.68	7.00	11.1	17.1	23.4	103	
180	2.63	2.72	2.74	2.73	2.65	2.57	2.58	2.49	2.50	2.63	3.08	3.73	4.84	7.18	11.2	17.3	23.6	103	

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: YangWenPeng  
Test Date: 2023-11-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.835m [K=1.0000]  
Remarks: