

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	278.8 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	162.6V x 166.3H
	At 50% of I _{max}	145.3V x 142.8H
	At 90% of I _{max}	132.6V x 49.5H

Beam Flux	Total	940.6 lumens per klm.
	To 10% of I _{max}	921.6 lumens per klm.
	To 50% of I _{max}	822.2 lumens per klm.
	To 90% of I _{max}	69.6 lumens per klm.

Upward LOR	0.6 %
Downward LOR	93.4 %

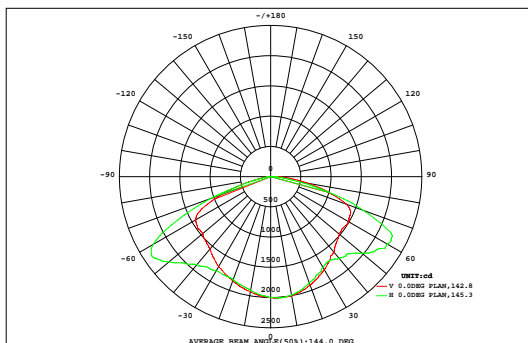
Luminaire Efficiency(Light Output Ratio)	94.1 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

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-W60-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:141.34m/W	
MODEL	TP421-W60-4000K	Imax(cd)	2364
NOMINAL POWER(W)	60	AVAILABILITY(%)	92.2
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	8230
NOMINAL FLUX(lm)	8480.4	LOR(%)	94.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	8482
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	143,145DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.06	0.21	0.48	1.02	1.72	2.50	3.40	4.41	5.30	5.45	4.81	4.03	3.07	2.03	1.16	0.86	0.70	0.27	41.5	10.5
90	0.06	0.21	0.48	1.02	1.72	2.50	3.40	4.41	5.30	5.45	4.81	4.03	3.07	2.03	1.16	0.86	0.70	0.27	41.5	10.5
80	0.07	0.42	1.53	3.65	6.52	9.73	14.5	21.7	28.2	28.9	23.3	16.5	10.4	6.06	3.27	2.19	1.29	0.36	179	164
70	0.08	0.85	3.57	8.81	15.9	25.7	38.0	50.6	59.8	61.4	55.2	44.8	29.0	14.9	6.45	4.00	2.06	0.46	422	419
60	0.11	1.44	6.22	14.5	27.2	41.2	52.2	58.9	63.1	64.1	61.9	57.2	44.2	25.7	11.5	6.55	2.98	0.57	540	538
50	0.16	2.14	8.93	20.4	33.4	42.5	48.0	51.7	54.7	56.2	56.2	53.9	46.9	33.3	17.5	9.75	4.02	0.69	540	539
40	0.20	2.84	11.6	24.4	32.8	38.5	44.3	48.7	51.5	52.9	52.8	49.8	45.2	37.0	23.3	12.9	5.10	0.80	535	534
30	0.23	3.44	13.8	25.7	31.7	37.6	44.7	51.0	54.4	55.1	53.5	48.7	43.4	36.4	26.4	15.3	6.14	0.91	549	548
	0.25	3.87	15.1	25.8	32.0	39.0	47.0	53.9	58.2	58.6	54.6	48.9	42.5	35.1	26.9	17.0	7.05	0.99	567	566
	0.26	4.09	15.7	25.6	32.4	40.5	48.6	55.5	60.0	60.3	56.1	50.2	42.4	33.9	26.2	18.2	7.75	1.05	579	578
	0.27	4.11	15.9	26.1	33.2	41.3	49.1	55.5	59.5	59.6	56.7	50.3	42.1	33.5	26.1	18.6	7.90	1.06	581	580
	0.27	3.94	15.6	27.2	34.2	41.4	48.9	54.4	56.8	56.5	54.0	48.6	41.2	33.8	26.7	18.4	7.48	1.02	570	570
	0.25	3.53	14.4	27.8	35.7	41.9	49.0	53.8	55.1	54.3	51.8	47.3	40.8	34.4	27.1	17.6	6.82	0.95	563	562
-30	0.22	2.94	12.4	26.9	37.7	45.4	51.3	55.2	56.1	55.2	52.7	48.6	42.9	35.4	26.9	16.0	5.92	0.85	573	572
-40	0.18	2.28	9.62	22.6	37.1	48.9	57.6	60.9	61.8	60.8	57.9	53.6	46.2	36.0	24.5	13.3	4.88	0.74	599	598
-50	0.14	1.68	6.59	16.1	27.3	40.7	54.4	64.0	68.8	68.3	63.3	55.5	43.4	30.2	18.9	10.0	3.75	0.62	574	572
-60	0.11	1.15	4.12	9.08	14.6	21.1	29.4	40.3	48.5	49.7	43.8	34.6	25.5	18.0	12.0	6.71	2.64	0.50	362	360
-70	0.10	0.67	2.36	4.53	5.94	6.92	8.43	11.6	14.3	14.9	13.2	10.7	9.16	8.05	6.20	3.74	1.67	0.40	123	104
-80	0.08	0.38	1.02	1.68	1.87	1.73	1.67	1.89	2.00	2.13	2.27	2.23	2.37	2.49	2.20	1.62	0.95	0.30	28.9	0.00
-90	0.08	0.38	1.02	1.68	1.87	1.73	1.67	1.89	2.00	2.13	2.27	2.23	2.37	2.49	2.20	1.62	0.95	0.30	28.9	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)	20	30	40	50	60	70	80	90			
Φ t	3.05	40.0	159	312	441	567	690	794	858	864	814	725	601	456	313	193	79.1	12.5	7923	---
Φ a	0.00	31.5	153	306	435	560	684	788	852	858	808	719	594	450	307	187	74.4	8.66	---	7815

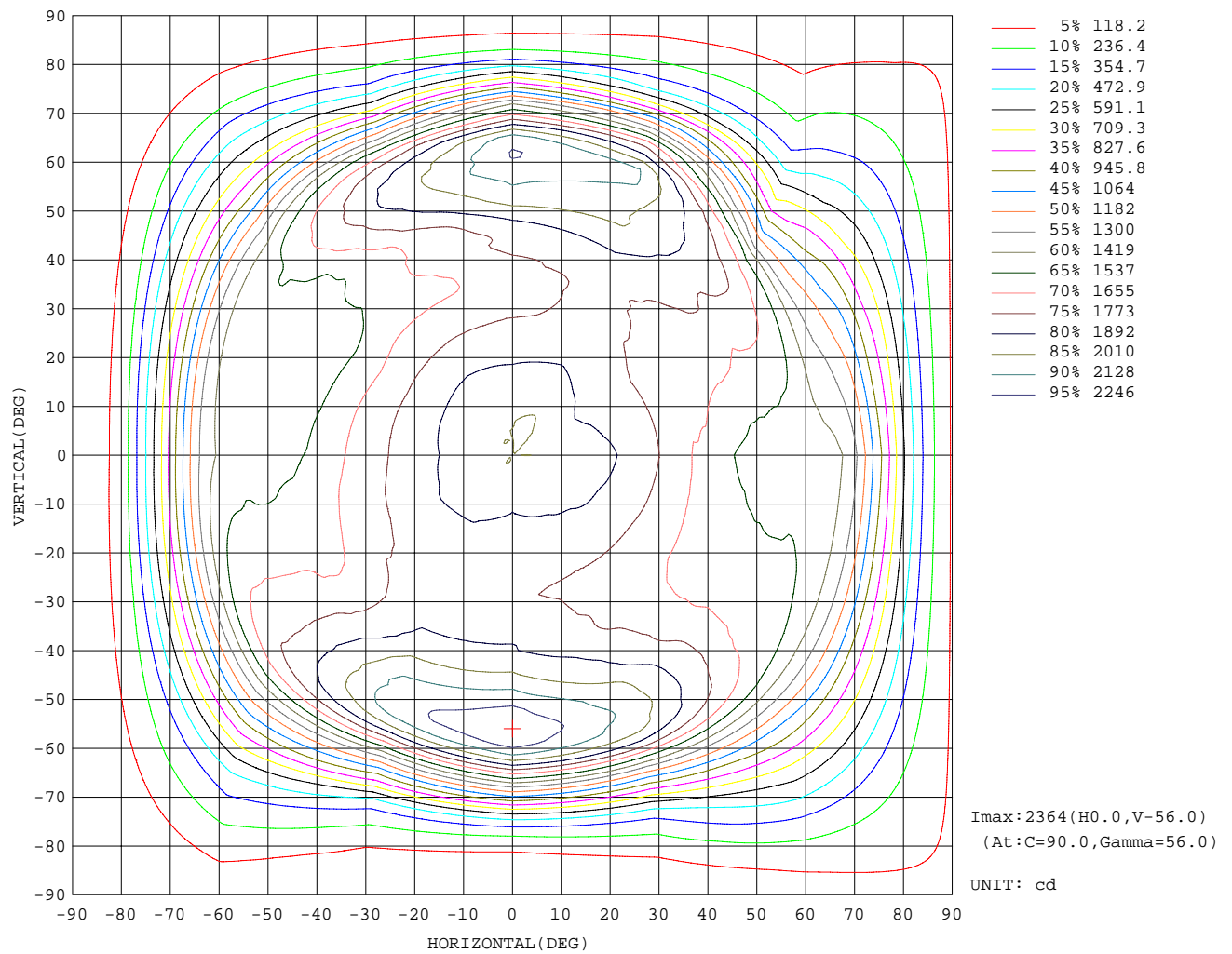
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

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:

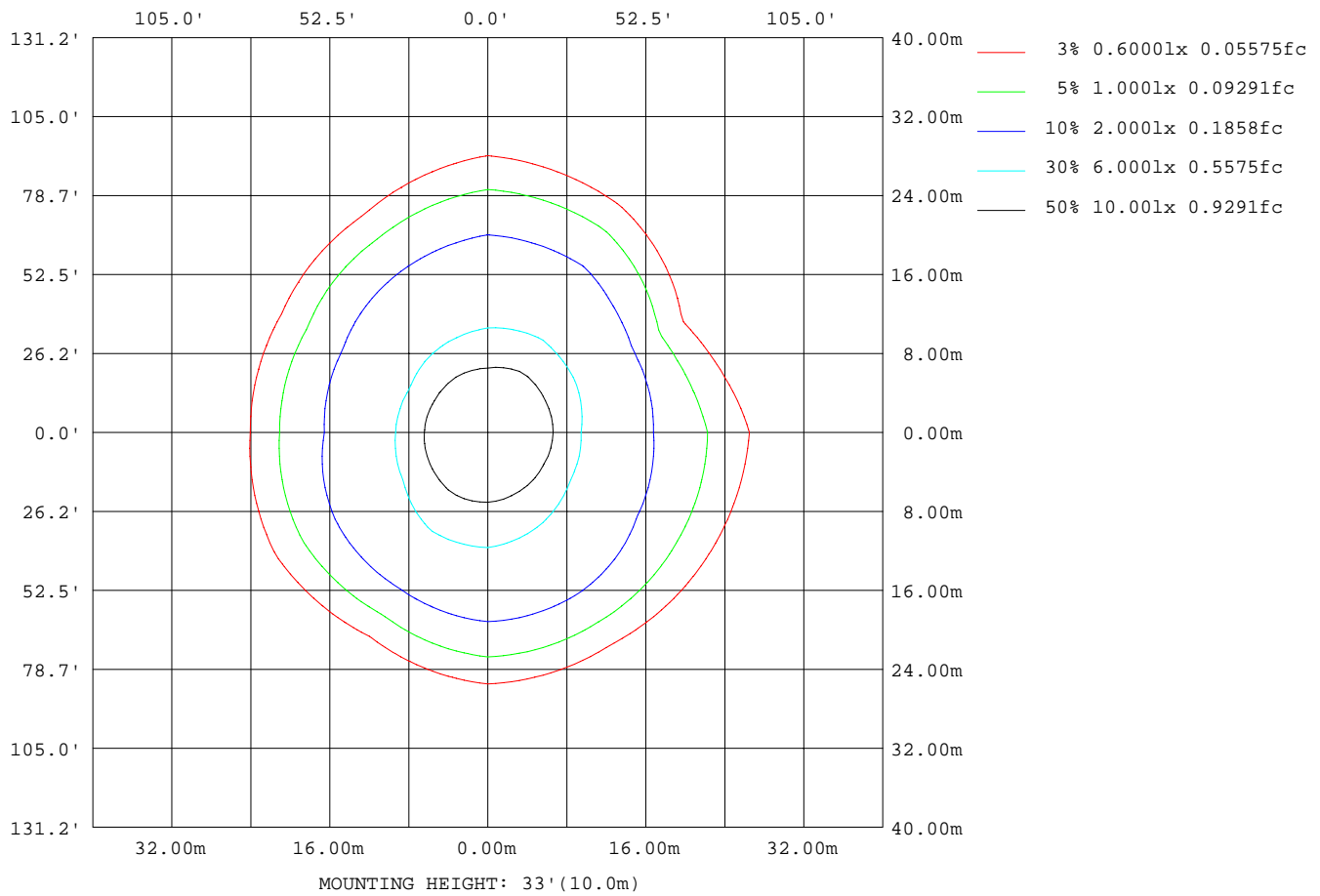
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
Test Date: 2021-06-08

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:

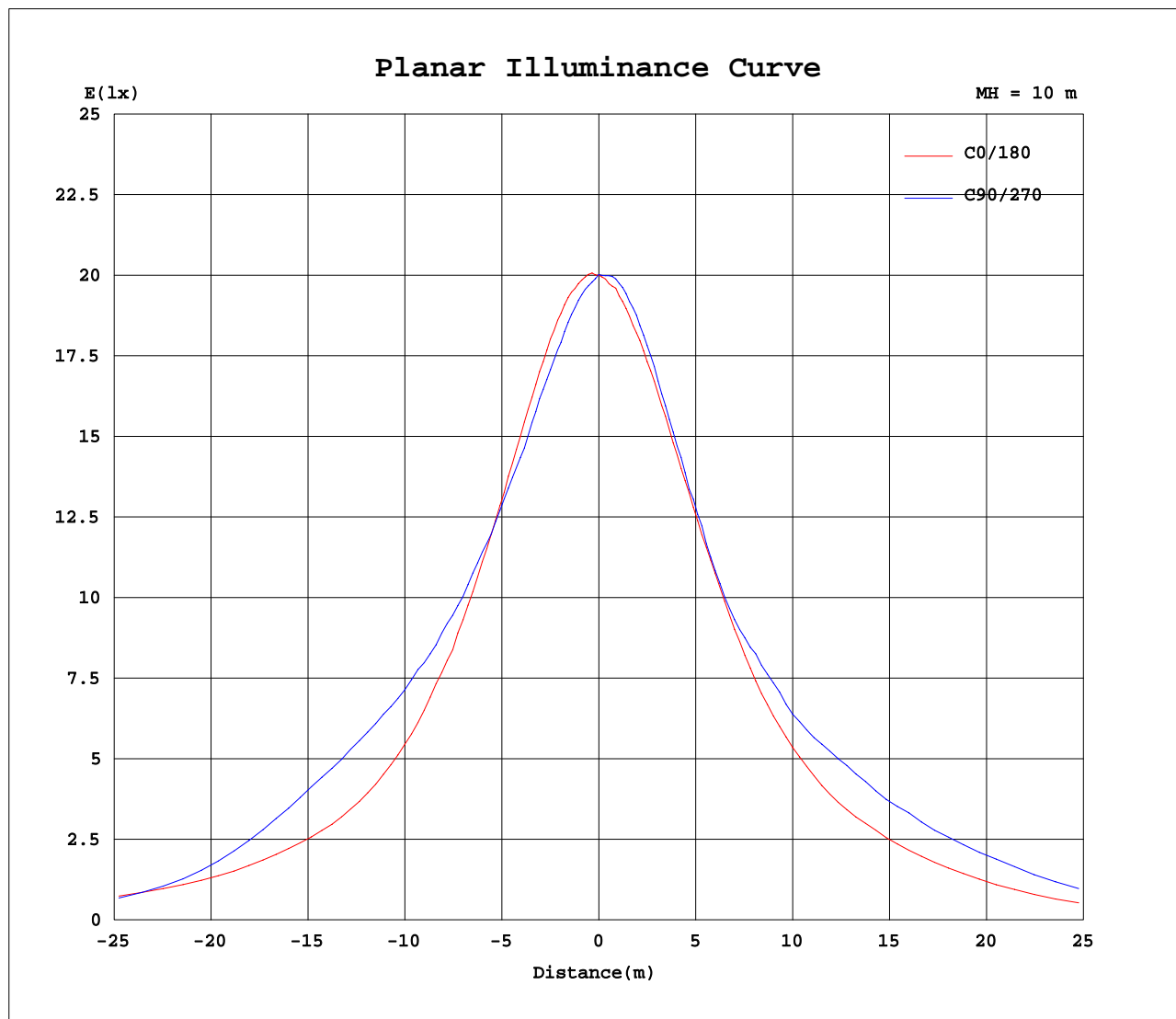
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
Test Date: 2021-06-08

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:

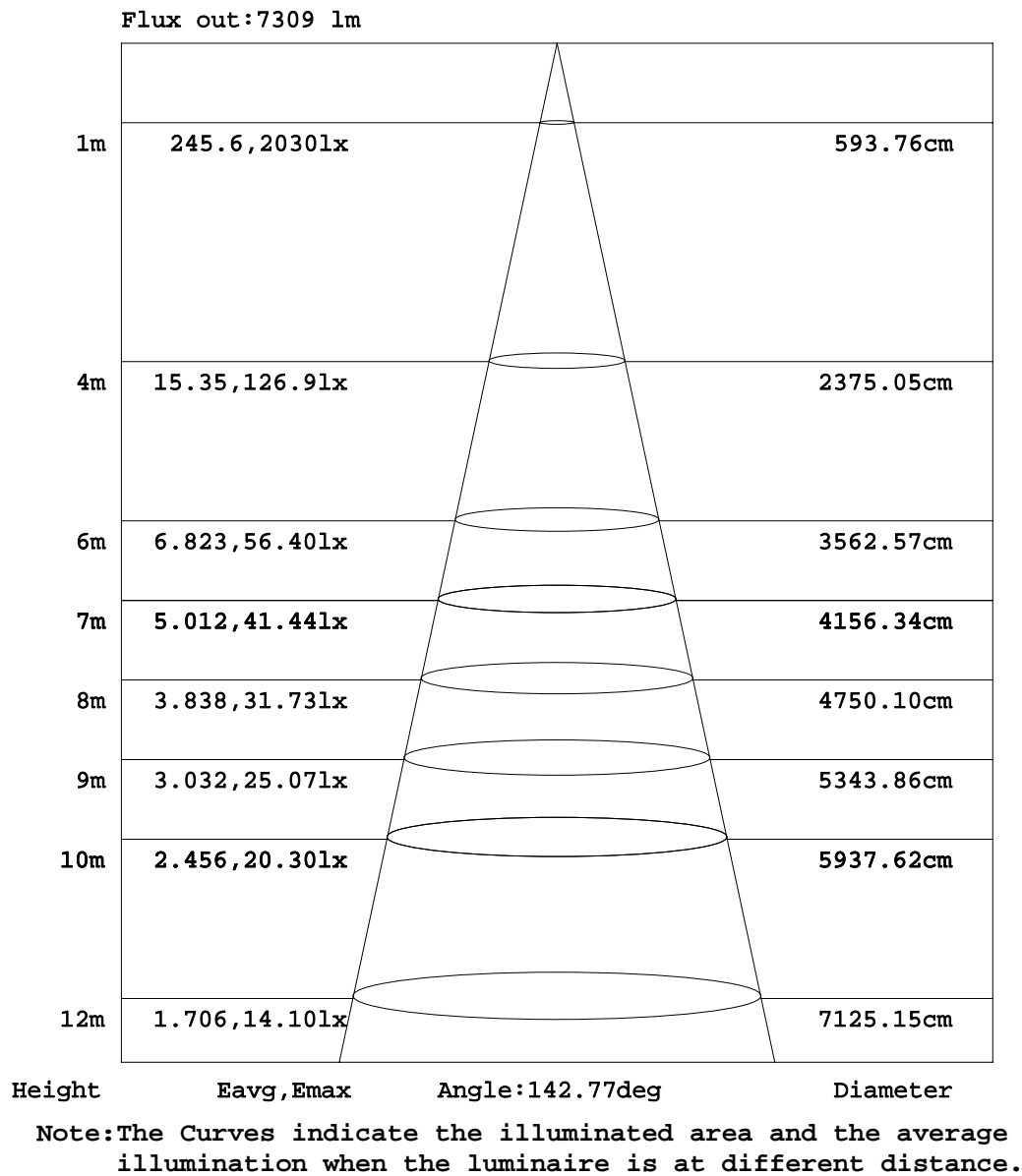
Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
Test Date: 2021-06-08

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:

AAI Figure



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: YangWenPeng
 Test Date: 2021-06-08

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--1

UNIT: cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	22.2	14.4	8.04	4.63	2.68	1.96	1.46	1.26	1.46	1.72	1.91	2.04	2.11	2.18	2.25	2.32	2.40	2.50	2.53
-170	22.2	14.9	8.75	5.44	3.44	2.60	2.13	1.89	1.93	2.06	2.21	2.37	2.51	2.66	2.82	2.84	2.73	2.65	2.61
-160	22.2	15.7	9.78	6.50	4.44	3.37	2.90	2.64	2.53	2.50	2.49	2.64	2.79	2.81	2.81	2.77	2.72	2.71	2.69
-150	22.2	16.7	11.2	7.93	5.90	4.57	3.86	3.56	3.41	3.25	3.06	2.77	2.71	2.72	2.72	2.71	2.69	2.67	2.64
-140	22.2	17.9	13.1	9.74	7.88	6.29	5.28	4.78	4.59	4.24	3.69	3.24	2.93	2.75	2.65	2.63	2.62	2.62	2.61
-130	22.2	19.2	15.6	12.2	10.3	9.11	7.82	6.97	5.81	5.23	4.71	4.28	3.88	3.55	3.28	3.11	3.00	2.92	2.88
-120	22.2	20.5	18.8	16.0	13.7	12.5	11.8	10.7	8.80	7.48	6.55	5.87	5.50	5.19	4.96	4.79	4.67	4.59	4.56
-110	22.2	21.8	22.2	21.3	19.7	18.3	17.2	15.5	13.9	12.4	11.0	9.65	8.57	8.12	7.94	7.82	7.76	7.76	7.82
-100	22.2	23.1	24.6	26.7	28.4	29.3	29.4	26.4	23.8	21.7	20.1	18.7	17.5	17.4	17.4	17.5	17.7	18.1	18.5
-90	22.2	25.3	28.4	31.5	34.6	37.7	40.8	41.0	41.2	41.4	41.5	41.7	41.9	42.0	42.1	42.2	42.3	42.4	42.5
-80	22.2	29.3	42.7	61.6	86.4	119	159	164	163	159	151	139	125	132	140	146	150	152	153
-70	22.2	33.1	54.1	102	171	243	321	366	394	421	449	470	490	581	706	817	913	993	1053
-60	22.2	35.4	78.5	169	265	390	544	715	838	977	1099	1236	1379	1557	1770	1940	2067	2165	2240
-50	22.2	36.1	116	227	390	611	862	1116	1330	1552	1766	1942	2083	2189	2208	2204	2199	2192	2196
-40	22.2	35.5	148	287	540	840	1147	1440	1692	1798	1861	1916	1947	1967	1980	1945	1918	1905	1899
-30	22.2	40.4	171	372	681	1035	1367	1617	1689	1705	1716	1726	1753	1789	1826	1845	1835	1816	1800
-20	22.2	45.6	182	432	785	1166	1479	1596	1612	1624	1626	1649	1718	1771	1806	1832	1847	1831	1812
-10	22.2	47.3	183	467	848	1242	1476	1534	1538	1565	1595	1664	1728	1783	1829	1878	1911	1926	1911
0	22.2	45.6	177	472	858	1253	1431	1477	1470	1513	1563	1641	1718	1779	1833	1891	1931	1983	2000
10	22.2	45.4	180	465	834	1221	1436	1484	1460	1502	1527	1604	1675	1738	1813	1874	1932	1967	1988
20	22.2	42.0	173	428	760	1128	1406	1493	1486	1465	1497	1512	1587	1664	1733	1788	1837	1865	1872
30	22.2	35.3	155	366	652	977	1291	1478	1524	1484	1459	1523	1546	1580	1622	1684	1711	1727	1733
40	22.2	28.9	127	276	522	782	1061	1322	1493	1576	1611	1600	1605	1629	1672	1701	1717	1732	1758
50	22.2	28.1	96.6	200	377	576	779	994	1239	1484	1656	1763	1847	1878	1895	1902	1910	1936	1973
60	22.2	26.5	60.2	128	230	369	518	655	810	995	1203	1430	1623	1797	1931	2032	2103	2165	2228
70	22.2	24.9	34.4	72.1	119	163	264	348	416	490	567	647	738	898	1076	1239	1386	1515	1625
80	22.2	24.1	25.4	31.1	45.2	68.6	96.4	118	136	153	173	196	218	251	291	332	372	411	445
90	22.2	22.7	23.2	23.7	24.2	24.7	25.2	27.3	29.5	31.7	33.9	36.1	38.3	40.5	42.7	44.8	47.0	49.2	51.4
100	22.2	21.2	20.4	19.8	19.3	18.8	18.4	18.8	19.0	19.1	19.2	19.3	19.5	20.1	20.7	21.3	22.0	22.9	23.9
110	22.2	19.8	17.9	16.2	14.6	13.3	12.0	10.9	10.2	9.72	9.39	9.01	8.71	8.49	8.37	8.33	8.40	8.55	8.83
120	22.2	18.5	15.6	12.8	10.5	8.44	6.73	5.59	5.10	4.81	4.56	4.39	4.31	4.22	4.11	4.03	4.00	4.02	4.12
130	22.2	17.4	13.4	10.0	7.39	5.39	4.17	3.47	2.92	2.73	2.63	2.51	2.45	2.39	2.32	2.27	2.26	2.28	2.33
140	22.2	16.5	11.6	7.96	5.35	3.77	2.93	2.30	2.00	1.90	1.86	1.85	1.85	1.91	2.00	2.06	2.11	2.18	2.23
150	22.2	15.7	10.2	6.48	4.12	2.93	2.20	1.82	1.64	1.63	1.68	1.81	1.96	2.11	2.28	2.44	2.54	2.63	2.72
160	22.2	15.0	9.13	5.50	3.35	2.40	1.83	1.53	1.50	1.62	1.80	1.97	2.10	2.21	2.32	2.42	2.51	2.57	2.63
170	22.2	14.6	8.43	4.93	2.92	2.12	1.60	1.37	1.47	1.70	1.89	2.05	2.12	2.18	2.23	2.30	2.38	2.46	2.51
180	22.2	14.4	8.04	4.63	2.68	1.96	1.46	1.26	1.46	1.72	1.91	2.04	2.11	2.18	2.25	2.32	2.40	2.50	2.51

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: YangWenPeng
 Test Date: 2021-06-08

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(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	2.70	2.78	2.81	2.79	2.71	2.63	2.64	2.56	2.56	2.70	3.16	3.82	4.96	7.36	11.5	17.7	24.2	106	
-170	2.69	2.76	2.80	2.76	2.69	2.60	2.57	2.54	2.54	2.75	3.24	3.91	5.12	7.57	11.8	18.0	24.2	106	
-160	2.71	2.72	2.69	2.66	2.60	2.53	2.53	2.49	2.61	2.95	3.47	4.20	5.56	8.21	12.6	18.6	24.3	106	
-150	2.63	2.62	2.59	2.55	2.50	2.53	2.48	2.62	2.91	3.33	3.86	4.87	6.50	9.39	13.9	19.7	24.4	106	
-140	2.58	2.57	2.55	2.53	2.56	2.70	2.90	3.20	3.53	3.91	4.80	6.01	8.09	11.3	15.8	21.1	24.7	106	
-130	2.91	2.98	3.09	3.29	3.54	3.75	3.99	4.26	4.77	5.42	6.47	8.20	10.7	14.1	18.3	23.0	25.4	106	
-120	4.61	4.72	4.88	5.10	5.42	5.74	6.12	6.57	7.24	8.31	9.91	12.0	14.7	17.9	21.5	24.9	38.0	106	
-110	7.91	8.08	8.33	8.67	9.13	9.71	10.5	11.5	12.7	14.0	15.7	17.8	20.1	22.8	25.2	26.0	56.5	106	
-100	18.2	18.0	17.9	18.0	18.1	18.6	19.6	20.8	22.1	23.6	25.2	26.6	27.4	27.5	33.2	51.0	75.8	106	
-90	41.9	41.3	40.7	40.1	39.5	38.9	43.0	47.1	51.2	55.3	59.4	63.5	70.5	77.5	84.5	91.5	98.5	106	
-80	161	167	171	172	171	170	191	207	218	221	218	209	193	176	159	142	126	106	
-70	1023	974	908	827	735	660	624	588	556	534	511	465	395	328	261	203	152	106	
-60	2191	2125	2045	1940	1802	1611	1437	1270	1122	990	883	761	640	516	390	273	180	106	
-50	2159	2133	2112	2086	2054	1981	1882	1769	1621	1439	1264	1080	897	713	527	351	209	106	
-40	1874	1862	1857	1853	1828	1816	1799	1749	1665	1599	1518	1352	1141	904	659	429	236	106	
-30	1786	1774	1758	1745	1715	1689	1662	1640	1620	1593	1565	1486	1326	1075	785	498	261	106	
-20	1812	1805	1794	1762	1729	1676	1632	1596	1584	1561	1547	1511	1420	1201	884	553	281	106	
-10	1917	1913	1892	1851	1798	1738	1672	1612	1559	1522	1510	1509	1453	1288	949	589	294	106	
0	2008	1999	1962	1911	1849	1774	1693	1631	1542	1486	1472	1489	1458	1332	983	607	300	106	
10	1996	1930	1865	1831	1798	1747	1699	1657	1606	1556	1530	1472	1381	1231	913	575	291	106	
20	1880	1875	1841	1802	1756	1730	1717	1699	1651	1632	1557	1384	1271	1093	818	525	275	106	
30	1760	1785	1816	1800	1769	1764	1778	1743	1737	1641	1463	1239	1101	918	698	463	253	106	
40	1774	1793	1815	1848	1874	1877	1868	1833	1695	1418	1149	1003	887	724	560	390	227	106	
50	1985	2003	2024	2023	2014	1971	1895	1713	1401	1044	778	717	617	539	432	314	198	106	
60	2213	2201	2186	2162	2072	1832	1560	1251	945	693	462	417	403	367	314	241	169	106	
70	1559	1475	1372	1248	1098	897	703	554	422	325	253	222	239	230	208	176	141	106	
80	418	386	352	315	279	250	224	198	171	145	120	100	115	121	122	120	116	106	
90	50.4	49.5	48.5	47.6	46.6	45.7	42.4	39.1	35.9	32.6	29.3	26.1	39.3	52.5	65.8	79.0	92.3	106	
100	23.6	23.4	23.4	23.5	23.7	24.0	23.1	22.1	21.2	20.2	19.2	18.2	20.1	22.0	29.7	48.4	73.0	106	
110	8.67	8.66	8.77	9.06	9.52	10.0	10.2	10.4	10.7	10.8	10.8	11.5	14.5	18.0	21.2	23.4	55.2	106	
120	4.05	4.06	4.14	4.27	4.47	4.58	4.73	4.94	5.14	5.37	5.73	7.62	10.5	14.0	18.3	22.4	36.9	106	
130	2.27	2.25	2.26	2.32	2.42	2.53	2.71	2.90	3.12	3.42	4.00	5.31	7.68	11.3	15.7	21.0	24.4	106	
140	2.13	2.00	1.89	1.77	1.75	1.78	1.83	1.94	2.10	2.45	3.22	4.38	6.11	9.20	13.8	19.5	23.8	106	
150	2.66	2.57	2.43	2.26	2.07	1.89	1.72	1.63	1.83	2.26	2.88	3.79	5.33	7.95	12.5	18.5	23.7	106	
160	2.61	2.61	2.56	2.49	2.39	2.25	2.10	1.96	2.00	2.29	2.81	3.56	4.90	7.35	11.7	17.8	23.8	106	
170	2.51	2.48	2.44	2.47	2.49	2.47	2.44	2.31	2.28	2.44	2.92	3.62	4.80	7.17	11.4	17.6	24.0	106	
180	2.70	2.78	2.81	2.79	2.71	2.63	2.64	2.56	2.56	2.70	3.16	3.82	4.96	7.36	11.5	17.7	24.2	106	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
Test Date: 2021-06-08

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: