

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	285.3 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	962.7 lumens per klm.
	To 10% of I _{max}	943.2 lumens per klm.
	To 50% of I _{max}	841.5 lumens per klm.
	To 90% of I _{max}	71.3 lumens per klm.

Upward LOR	0.6 %
Downward LOR	95.6 %

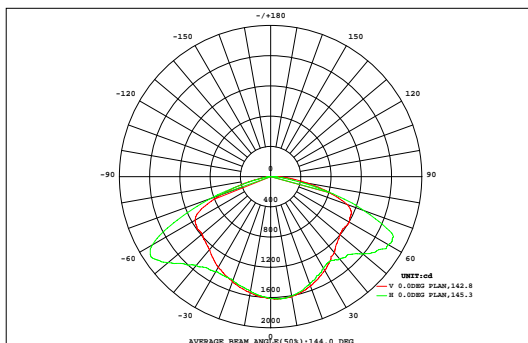
Luminaire Efficiency(Light Output Ratio)	96.3 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

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-W50-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:133.65lm/W	
MODEL	TP421-W50-3000K	Imax(cd)	1907
NOMINAL POWER(W)	50	AVAILABILITY(%)	94.3
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	6403
NOMINAL FLUX(lm)	6682.5	LOR(%)	96.3
LAMPS INSIDE	1	TOTAL FLUX(lm)	6683
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	143,145DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.05	0.17	0.39	0.82	1.39	2.01	2.74	3.55	4.28	4.39	3.88	3.25	2.47	1.64	0.94	0.70	0.57	0.22	33.4	8.46
90	0.05	0.34	1.23	2.94	5.25	7.84	11.7	17.5	22.8	23.3	18.8	13.3	8.36	4.89	2.64	1.76	1.04	0.29	144	132
80	0.07	0.68	2.88	7.10	12.8	20.7	30.7	40.8	48.3	49.5	44.5	36.1	23.4	12.0	5.21	3.23	1.66	0.37	340	338
70	0.09	1.16	5.01	11.7	21.9	33.3	42.1	47.5	50.9	51.7	49.9	46.1	35.7	20.7	9.30	5.28	2.40	0.46	435	434
60	0.13	1.73	7.21	16.5	26.9	34.3	38.7	41.7	44.1	45.3	45.3	43.5	37.8	26.9	14.1	7.86	3.24	0.55	436	435
50	0.16	2.29	9.36	19.7	26.5	31.0	35.7	39.3	41.6	42.7	42.6	40.2	36.4	29.9	18.8	10.4	4.11	0.65	431	431
40	0.19	2.77	11.1	20.7	25.6	30.3	36.0	41.1	43.8	44.5	43.1	39.3	35.0	29.4	21.3	12.4	4.95	0.73	442	442
30	0.20	3.12	12.2	20.8	25.8	31.4	37.9	43.5	46.9	47.3	44.1	39.4	34.3	28.3	21.7	13.7	5.68	0.80	457	457
20	0.21	3.30	12.7	20.6	26.2	32.7	39.2	44.7	48.4	48.6	45.3	40.5	34.2	27.4	21.2	14.6	6.25	0.85	467	466
10	0.21	3.32	12.8	21.0	26.8	33.3	39.6	44.8	48.0	48.1	45.7	40.6	33.9	27.0	21.0	15.0	6.37	0.86	468	468
0	0.21	3.18	12.6	21.9	27.6	33.4	39.4	43.9	45.8	45.5	43.6	39.2	33.3	27.2	21.5	14.8	6.04	0.82	460	459
-10	0.20	2.85	11.6	22.4	28.8	33.8	39.5	43.4	44.4	43.8	41.8	38.2	32.9	27.7	21.9	14.2	5.50	0.76	454	453
-20	0.18	2.37	9.97	21.7	30.4	36.6	41.4	44.5	45.2	44.5	42.5	39.2	34.6	28.5	21.7	12.9	4.78	0.68	462	461
-30	0.15	1.84	7.76	18.2	29.9	39.4	46.4	49.1	49.8	49.0	46.7	43.2	37.2	29.0	19.8	10.7	3.93	0.59	483	482
-40	0.12	1.35	5.31	12.9	22.0	32.9	43.9	51.6	55.5	55.1	51.0	44.7	35.0	24.3	15.2	8.08	3.02	0.50	463	462
-50	0.09	0.93	3.32	7.32	11.8	17.0	23.7	32.5	39.1	40.1	35.3	27.9	20.5	14.5	9.67	5.42	2.13	0.40	292	290
-60	0.08	0.54	1.90	3.65	4.79	5.58	6.80	9.36	11.5	12.0	10.7	8.60	7.38	6.49	5.00	3.02	1.35	0.32	99.1	83.5
-70	0.06	0.31	0.82	1.36	1.51	1.40	1.35	1.53	1.61	1.72	1.83	1.80	1.91	2.01	1.77	1.31	0.77	0.24	23.3	0.00
-80																				
-90																				
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.46	32.2	128	251	356	457	557	640	692	697	657	585	484	368	253	155	63.8	10.1	6389	---
Φ a	0.00	25.4	123	247	351	451	552	635	687	692	651	580	479	363	248	151	60.0	6.99	---	6303

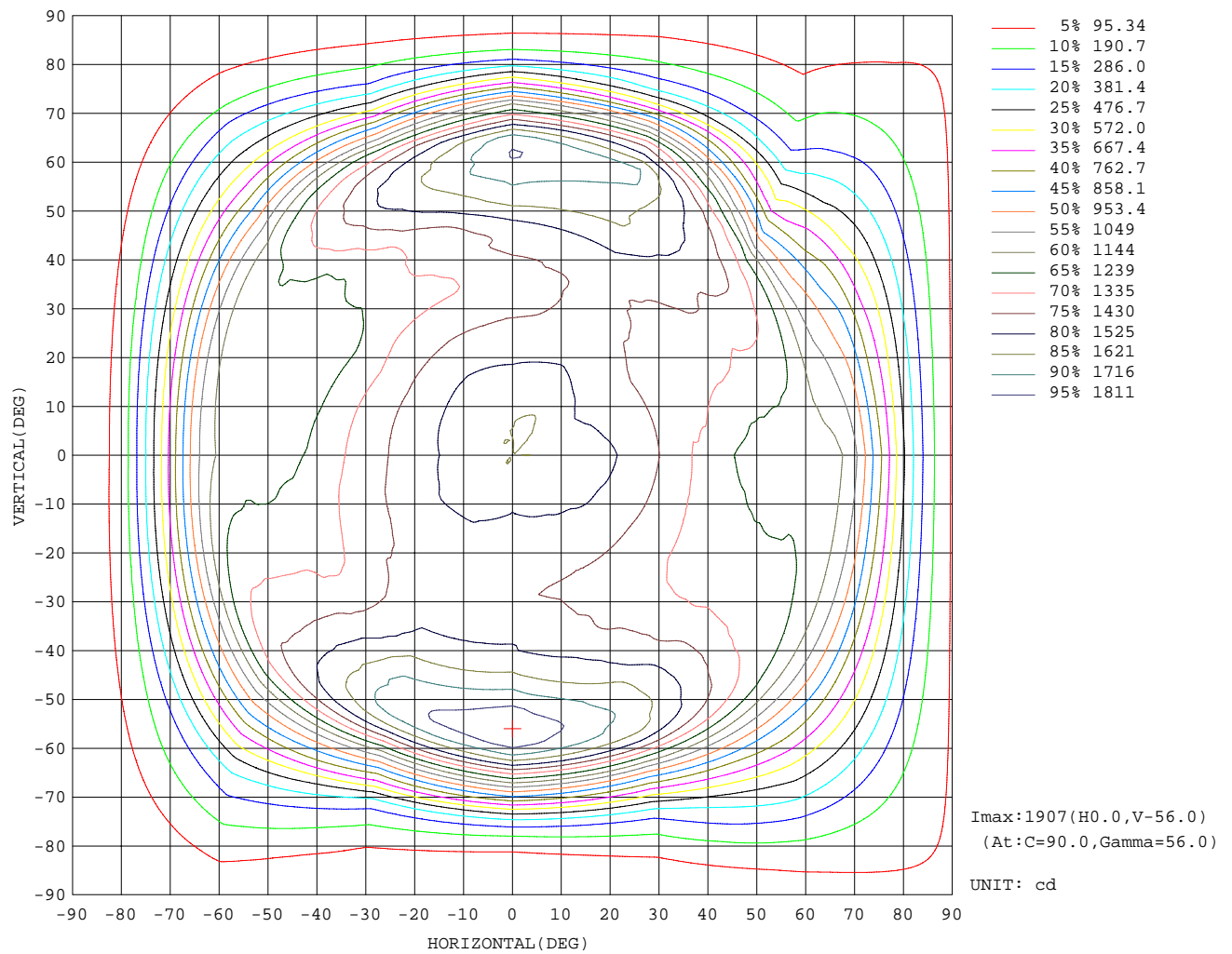
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

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:

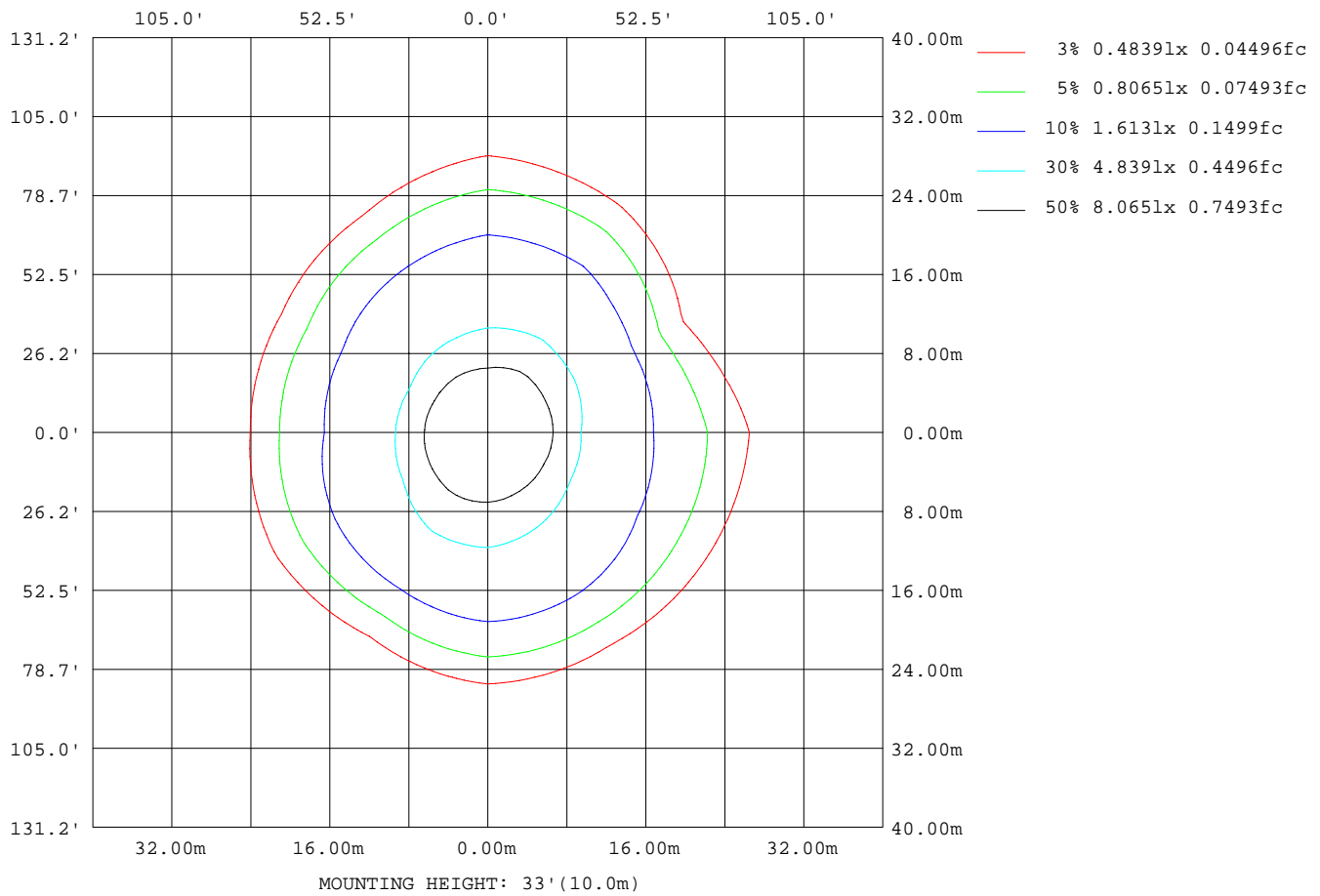
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.0DEG
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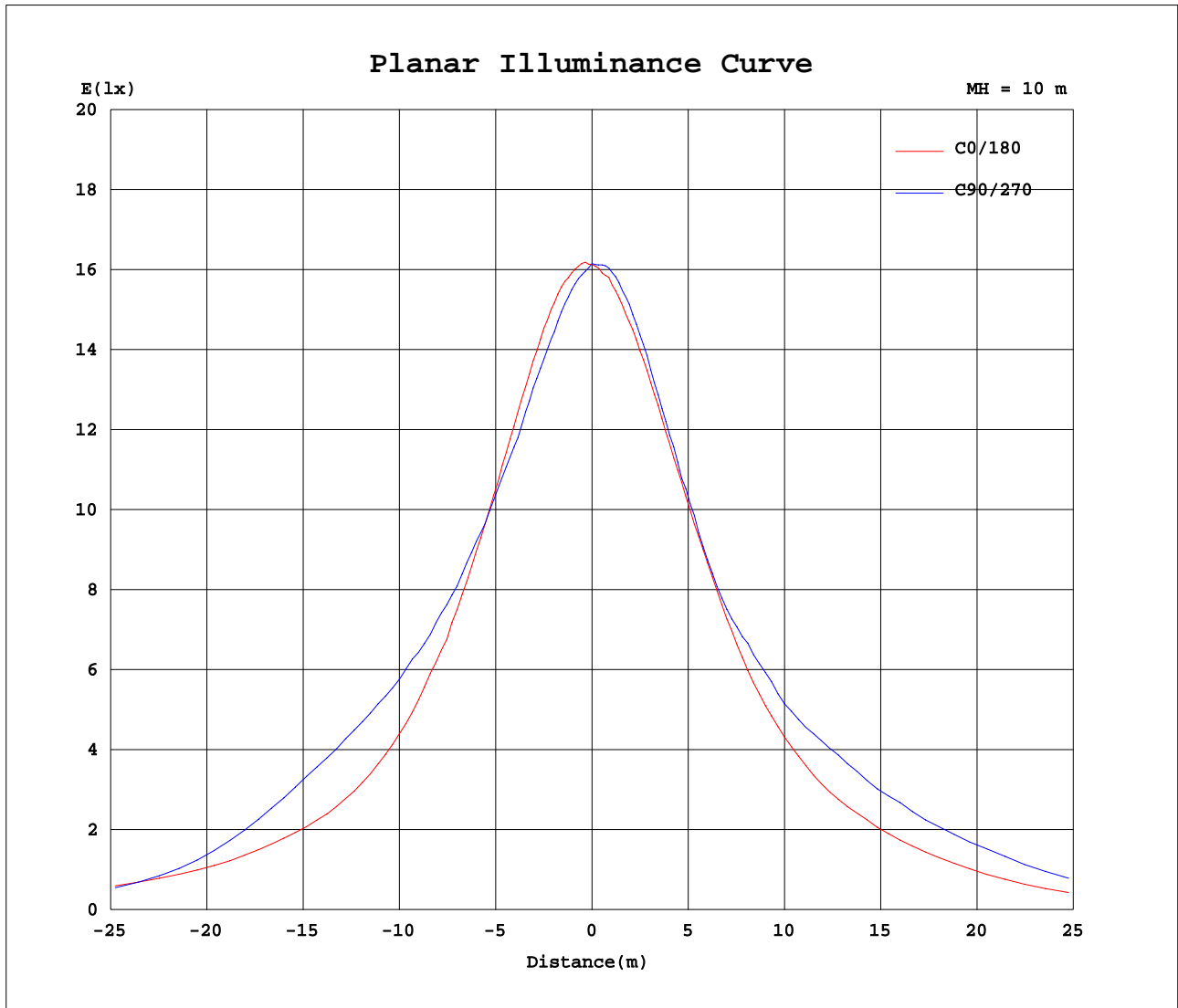
ISOLUX DIAGRAM



C Range: 0 - 360DEG
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Operators: YangWenPeng
Test Date: 2023-11-22

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 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:

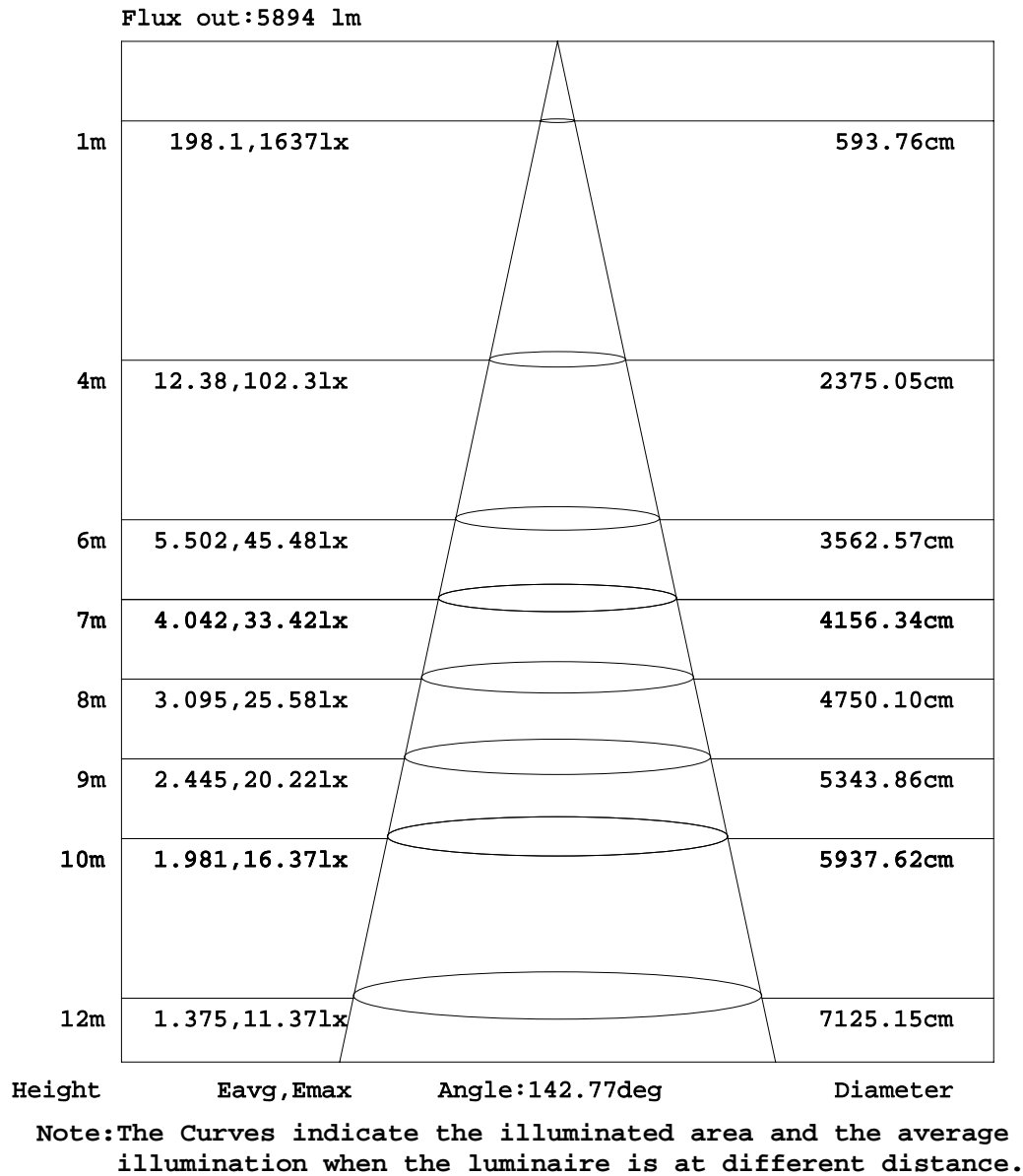
Planar Illuminance Curve



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

AAI Figure



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:

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	17.9	11.6	6.48	3.73	2.16	1.58	1.17	1.02	1.18	1.38	1.54	1.65	1.70	1.75	1.81	1.87	1.94	2.02	2.04
-170	17.9	12.1	7.05	4.39	2.77	2.09	1.71	1.53	1.55	1.66	1.78	1.91	2.02	2.15	2.27	2.29	2.20	2.14	2.10
-160	17.9	12.7	7.89	5.24	3.58	2.72	2.34	2.13	2.04	2.01	2.01	2.13	2.25	2.26	2.26	2.23	2.20	2.19	2.17
-150	17.9	13.5	9.03	6.39	4.76	3.68	3.11	2.87	2.75	2.62	2.47	2.23	2.18	2.19	2.19	2.18	2.17	2.15	2.13
-140	17.9	14.4	10.6	7.86	6.35	5.08	4.26	3.85	3.70	3.42	2.98	2.61	2.36	2.21	2.14	2.12	2.12	2.11	2.10
-130	17.9	15.5	12.5	9.84	8.32	7.35	6.31	5.62	4.68	4.22	3.80	3.45	3.13	2.86	2.65	2.51	2.42	2.36	2.33
-120	17.9	16.6	15.2	12.9	11.1	10.1	9.55	8.65	7.09	6.04	5.28	4.73	4.43	4.19	4.00	3.86	3.76	3.70	3.68
-110	17.9	17.6	17.9	17.2	15.9	14.8	13.9	12.5	11.2	10.0	8.90	7.79	6.92	6.55	6.40	6.31	6.26	6.26	6.31
-100	17.9	18.7	19.9	21.5	22.9	23.6	23.7	21.3	19.2	17.5	16.2	15.1	14.1	14.0	14.0	14.1	14.3	14.6	14.9
-90	17.9	20.4	22.9	25.4	27.9	30.4	32.9	33.1	33.2	33.4	33.5	33.6	33.8	33.9	34.0	34.0	34.1	34.2	34.3
-80	17.9	23.6	34.4	49.7	69.7	96.2	128	132	131	128	122	112	101	107	113	118	121	123	123
-70	17.9	26.7	43.6	82.5	138	196	259	295	318	339	362	379	395	469	569	659	736	801	849
-60	17.9	28.5	63.3	137	213	314	438	577	676	788	886	996	1112	1256	1427	1564	1667	1746	1806
-50	17.9	29.1	93.9	183	314	493	695	900	1073	1252	1424	1566	1679	1766	1781	1777	1774	1768	1771
-40	17.9	28.6	119	232	435	678	925	1161	1364	1450	1501	1545	1570	1586	1597	1568	1547	1536	1531
-30	17.9	32.6	138	300	549	834	1103	1304	1362	1375	1384	1392	1414	1443	1473	1488	1480	1465	1451
-20	17.9	36.7	147	349	633	941	1193	1287	1300	1310	1311	1330	1386	1428	1456	1478	1490	1476	1462
-10	17.9	38.1	148	377	684	1001	1190	1237	1240	1262	1286	1342	1394	1438	1475	1514	1541	1553	1541
0	17.9	36.7	143	380	692	1010	1154	1191	1186	1220	1260	1323	1386	1434	1478	1525	1558	1599	1613
10	17.9	36.6	145	375	672	985	1158	1196	1177	1211	1232	1293	1351	1402	1462	1511	1558	1586	1603
20	17.9	33.8	140	346	613	910	1134	1204	1198	1182	1207	1220	1280	1342	1398	1442	1482	1504	1509
30	17.9	28.4	125	295	525	788	1041	1192	1229	1197	1177	1229	1246	1274	1308	1358	1380	1393	1397
40	17.9	23.3	102	223	421	631	856	1066	1204	1271	1299	1290	1294	1314	1349	1372	1385	1397	1418
50	17.9	22.6	77.9	161	304	465	628	801	999	1197	1335	1422	1490	1514	1528	1534	1541	1561	1591
60	17.9	21.4	48.5	103	185	297	418	528	653	803	970	1153	1308	1449	1557	1638	1696	1746	1797
70	17.9	20.1	27.7	58.2	95.8	132	213	280	336	395	457	522	595	724	868	999	1118	1221	1311
80	17.9	19.4	20.5	25.1	36.4	55.3	77.8	94.9	109	124	140	158	175	203	234	267	300	331	359
90	17.9	18.3	18.7	19.1	19.5	19.9	20.3	22.1	23.8	25.6	27.3	29.1	30.9	32.6	34.4	36.2	37.9	39.7	41.4
100	17.9	17.1	16.4	15.9	15.5	15.2	14.9	15.1	15.3	15.4	15.5	15.6	15.7	16.2	16.7	17.2	17.8	18.5	19.3
110	17.9	16.0	14.4	13.1	11.8	10.7	9.65	8.77	8.19	7.84	7.57	7.27	7.03	6.85	6.75	6.72	6.77	6.90	7.12
120	17.9	15.0	12.6	10.3	8.48	6.81	5.42	4.51	4.11	3.88	3.68	3.54	3.47	3.40	3.31	3.25	3.22	3.24	3.32
130	17.9	14.1	10.8	8.09	5.96	4.35	3.36	2.80	2.35	2.20	2.12	2.02	1.98	1.93	1.87	1.83	1.83	1.84	1.88
140	17.9	13.3	9.35	6.42	4.31	3.04	2.36	1.85	1.61	1.53	1.50	1.49	1.49	1.54	1.62	1.66	1.70	1.76	1.79
150	17.9	12.6	8.20	5.23	3.32	2.36	1.78	1.47	1.32	1.31	1.35	1.46	1.58	1.70	1.84	1.97	2.05	2.12	2.19
160	17.9	12.1	7.36	4.43	2.71	1.94	1.47	1.23	1.21	1.31	1.45	1.59	1.69	1.78	1.87	1.95	2.03	2.07	2.12
170	17.9	11.8	6.79	3.97	2.36	1.71	1.29	1.11	1.19	1.37	1.52	1.65	1.71	1.76	1.80	1.85	1.92	1.99	2.02
180	17.9	11.6	6.48	3.73	2.16	1.58	1.17	1.02	1.18	1.38	1.54	1.65	1.70	1.75	1.81	1.87	1.94	2.02	2.03

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:

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	2.18	2.25	2.27	2.25	2.19	2.12	2.13	2.06	2.06	2.17	2.55	3.08	4.00	5.93	9.29	14.3	19.5	85.1	
-170	2.17	2.23	2.25	2.22	2.17	2.10	2.07	2.05	2.05	2.22	2.61	3.15	4.13	6.10	9.50	14.5	19.5	85.1	
-160	2.19	2.19	2.17	2.15	2.10	2.04	2.04	2.01	2.11	2.38	2.79	3.39	4.49	6.62	10.1	15.0	19.6	85.1	
-150	2.12	2.11	2.09	2.05	2.02	2.04	2.00	2.11	2.34	2.68	3.11	3.92	5.24	7.58	11.2	15.8	19.7	85.1	
-140	2.08	2.07	2.06	2.04	2.06	2.18	2.34	2.58	2.84	3.15	3.87	4.85	6.52	9.11	12.7	17.0	19.9	85.1	
-130	2.35	2.40	2.50	2.65	2.86	3.02	3.21	3.44	3.85	4.37	5.21	6.61	8.67	11.4	14.7	18.5	20.5	85.1	
-120	3.72	3.80	3.93	4.12	4.37	4.63	4.94	5.30	5.84	6.70	7.99	9.64	11.8	14.4	17.3	20.1	30.6	85.1	
-110	6.38	6.51	6.71	6.99	7.37	7.83	8.47	9.29	10.2	11.3	12.7	14.3	16.2	18.4	20.3	21.0	45.5	85.1	
-100	14.7	14.5	14.5	14.5	14.6	15.0	15.8	16.8	17.8	19.0	20.3	21.5	22.1	22.1	26.8	41.2	61.1	85.1	
-90	33.8	33.3	32.8	32.3	31.8	31.3	34.7	38.0	41.3	44.6	47.9	51.2	56.8	62.5	68.2	73.8	79.5	85.1	
-80	130	135	138	139	138	137	154	167	176	178	176	169	156	142	128	115	101	85.1	
-70	825	785	732	667	593	532	503	474	448	431	412	375	319	264	210	163	123	85.1	
-60	1767	1714	1649	1565	1453	1299	1159	1024	905	798	712	614	516	416	314	220	145	85.1	
-50	1741	1720	1703	1682	1656	1598	1518	1427	1307	1160	1020	871	724	575	425	283	168	85.1	
-40	1511	1502	1498	1494	1474	1464	1451	1410	1343	1290	1224	1090	920	729	532	346	191	85.1	
-30	1440	1431	1418	1408	1383	1362	1340	1322	1307	1285	1262	1198	1070	867	633	402	210	85.1	
-20	1461	1455	1447	1421	1394	1352	1316	1287	1277	1259	1248	1218	1145	969	713	446	226	85.1	
-10	1546	1543	1526	1493	1450	1401	1348	1300	1257	1228	1217	1217	1172	1038	765	475	237	85.1	
0	1619	1612	1582	1541	1491	1431	1366	1315	1244	1199	1187	1200	1176	1074	793	490	242	85.1	
10	1610	1557	1504	1477	1450	1409	1370	1336	1295	1255	1233	1187	1114	993	737	463	235	85.1	
20	1516	1512	1484	1453	1416	1395	1384	1370	1331	1316	1256	1116	1025	881	660	424	222	85.1	
30	1419	1440	1464	1452	1427	1423	1434	1405	1401	1323	1180	999	888	740	563	373	204	85.1	
40	1431	1446	1464	1490	1511	1514	1507	1478	1367	1144	927	809	715	584	451	315	183	85.1	
50	1601	1615	1632	1631	1624	1590	1528	1381	1130	842	627	578	497	434	348	253	160	85.1	
60	1785	1775	1763	1743	1671	1477	1258	1009	762	559	373	336	325	296	253	194	137	85.1	
70	1257	1189	1106	1007	885	724	567	447	340	262	204	179	192	186	168	142	114	85.1	
80	337	312	283	254	225	201	181	159	138	117	96.7	80.8	92.6	97.9	98.5	96.8	93.8	85.1	
90	40.7	39.9	39.1	38.4	37.6	36.8	34.2	31.6	28.9	26.3	23.6	21.0	31.7	42.4	53.1	63.7	74.4	85.1	
100	19.0	18.9	18.9	19.0	19.1	19.4	18.6	17.9	17.1	16.3	15.4	14.7	16.2	17.7	23.9	39.0	58.9	85.1	
110	6.99	6.98	7.07	7.30	7.68	8.07	8.23	8.43	8.60	8.74	8.69	9.28	11.7	14.5	17.1	18.9	44.5	85.1	
120	3.27	3.28	3.34	3.44	3.60	3.70	3.82	3.98	4.14	4.33	4.62	6.15	8.50	11.3	14.8	18.1	29.8	85.1	
130	1.83	1.81	1.82	1.87	1.95	2.04	2.18	2.34	2.51	2.76	3.22	4.28	6.19	9.11	12.6	16.9	19.6	85.1	
140	1.72	1.62	1.52	1.43	1.42	1.43	1.48	1.56	1.69	1.98	2.60	3.53	4.92	7.42	11.2	15.8	19.2	85.1	
150	2.14	2.07	1.96	1.82	1.67	1.52	1.38	1.32	1.47	1.82	2.32	3.06	4.30	6.41	10.1	14.9	19.1	85.1	
160	2.10	2.10	2.06	2.01	1.93	1.82	1.69	1.58	1.61	1.85	2.27	2.87	3.95	5.93	9.44	14.4	19.2	85.1	
170	2.03	2.00	1.96	1.99	2.01	1.99	1.97	1.87	1.84	1.97	2.35	2.92	3.87	5.79	9.16	14.2	19.3	85.1	
180	2.18	2.25	2.27	2.25	2.19	2.12	2.13	2.06	2.06	2.17	2.55	3.08	4.00	5.93	9.29	14.3	19.5	85.1	

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: