



SHENZHEN YAORONG TECHNOLOGY CO., LTD GONIOPHOTOMETERS SYSTEM TEST REPORT

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		1245.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	86.7V x 84.0H
	At 50% of Imax	50.6V x 50.5H
	At 90% of Imax	16.2V x 21.6H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	883.4 lumens per klm.
	To 50% of Imax	535.3 lumens per klm.
	To 90% of Imax	85.6 lumens per klm.
	Upward LOR	0.0 %
	Downward LOR	100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

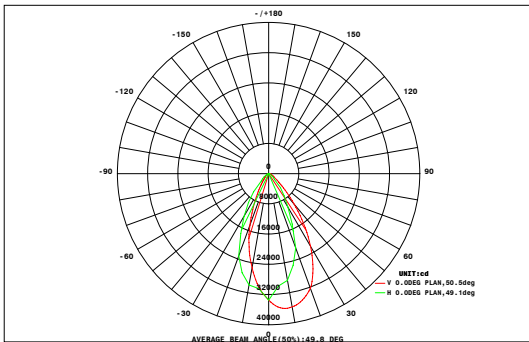
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenpeng
Test Date:2014-04-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:



LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: flood light	TYPE:philips	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:94.34lm/W	
MODEL	FL390-W280	Imax(cd)	35952
NOMINAL POWER(W)	306.1	AVAILABILITY(%)	88.6
RATED VOLTAGE(V)	212	Avai. FLUX(lm)	25589
NOMINAL FLUX(lm)	28877.8	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	28878
TEST VOLTAGE(V)	212.8	θ @50%(H,V)	51,51DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm	Φ t	Φ a	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
80	0.00	0.01	0.01	0.02	0.06	0.31	0.97	1.97	2.94	3.90	4.97	5.65	5.72	5.06	3.92	2.62	1.33	0.34	39.8	0.00
70	0.01	0.01	0.05	0.50	2.02	4.58	7.75	11.2	14.4	17.2	18.9	19.0	16.9	13.3	9.13	5.32	2.36	0.51	143	0.00
60	0.00	0.01	0.21	1.54	4.80	9.77	15.9	23.2	30.6	37.0	40.4	38.6	31.5	22.1	13.6	7.22	2.92	0.56	280	0.00
50	0.00	0.02	0.70	3.70	9.11	17.0	28.0	42.5	58.8	73.5	80.5	74.3	56.1	35.1	19.1	9.23	3.41	0.60	512	0.00
40	0.00	0.09	1.52	5.92	13.8	27.6	54.4	105	181	250	268	220	134	62.9	27.0	11.3	3.83	0.62	1367	1120
30	0.00	0.18	2.34	8.06	18.7	40.3	93.0	206	364	488	506	400	230	95.0	34.6	13.0	4.13	0.62	2504	2310
20	0.00	0.33	3.15	10.1	24.1	58.0	159	389	665	848	844	648	361	135	41.6	14.1	4.22	0.60	4207	4045
10	0.00	0.44	3.62	11.3	27.7	71.8	215	503	808	991	962	743	411	150	43.4	14.1	4.13	0.56	4960	4809
0	0.01	0.53	3.97	12.1	29.9	80.2	245	554	864	1036	991	757	412	146	41.8	13.6	3.91	0.51	5191	5042
-10	0.01	0.57	4.08	12.1	29.3	75.4	218	484	744	888	836	610	319	110	34.2	11.8	3.46	0.43	4379	4219
-20	0.01	0.52	3.84	11.1	25.4	59.0	149	313	481	571	527	373	189	70.5	25.8	9.74	2.89	0.34	2811	2628
-30	0.01	0.47	3.46	9.71	20.9	42.4	86.5	163	248	291	261	177	88.3	39.9	18.2	7.48	2.22	0.24	1460	1219
-40	0.01	0.38	2.80	7.80	15.6	27.6	45.6	66.3	83.1	88.1	76.7	56.4	36.3	21.4	11.3	4.89	1.35	0.11	546	199
-50	0.02	0.36	2.21	6.01	11.3	18.3	27.1	36.1	43.0	44.9	40.6	31.8	21.8	13.3	7.08	2.95	0.74	0.05	308	0.00
-60	0.02	0.30	1.52	3.98	6.97	10.2	13.0	14.7	15.1	14.4	13.2	11.4	8.92	6.06	3.33	1.29	0.27	0.02	125	0.00
-70	0.02	0.14	0.61	1.50	2.79	4.08	5.12	5.70	5.75	5.50	5.03	4.17	3.01	1.76	0.82	0.25	0.05	0.01	46.3	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.14	4.36	34.1	106	242	547	1363	2918	4609	5646	5476	4169	2325	927	335	129	41.2	6.12	28878	---
Φ a	0.00	0.00	0.00	0.00	0.00	99.2	1042	2676	4412	5422	5241	3941	2100	636	21.5	0.00	0.00	0.00	---	25589

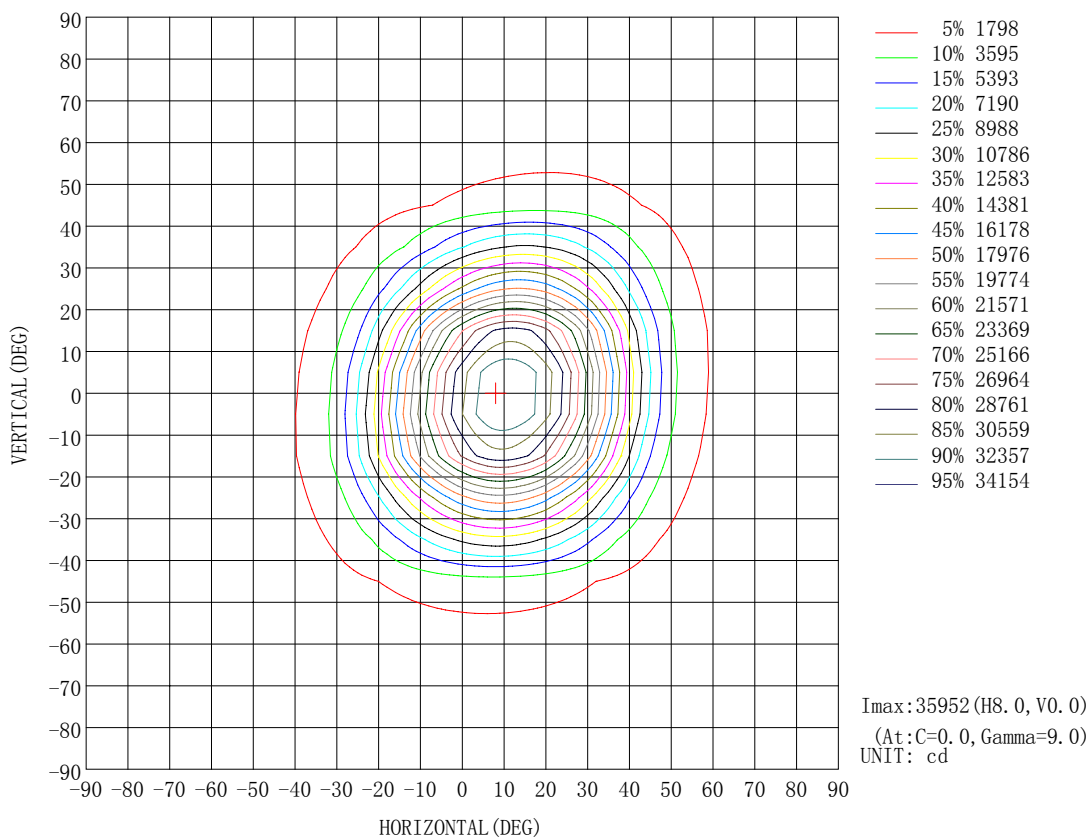
one-half-peak spread: U:26.2,D:24.7 , L:25.2,R:25.6 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenpeng
Test Date:2014-04-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: flood light	TYPE:philips	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

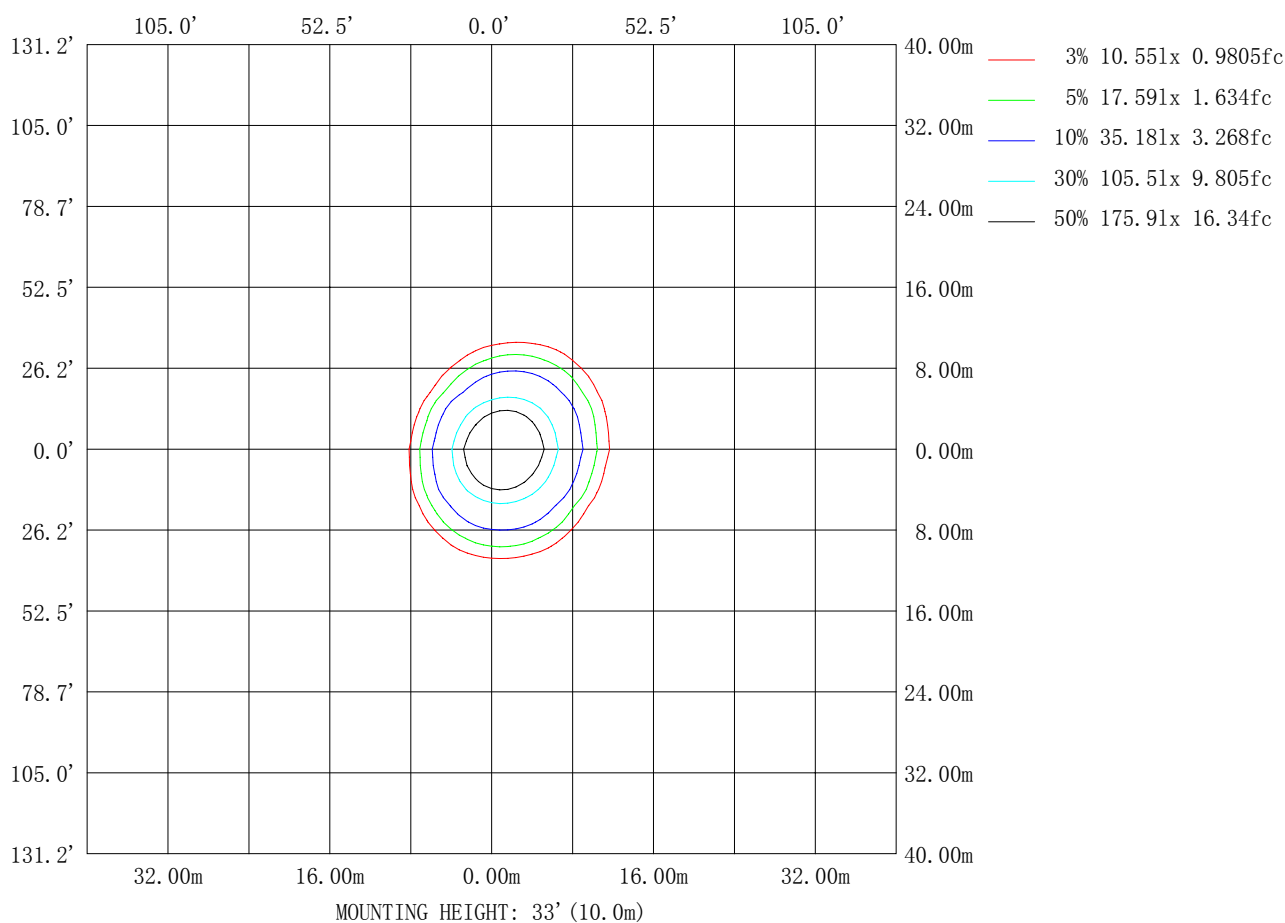


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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:
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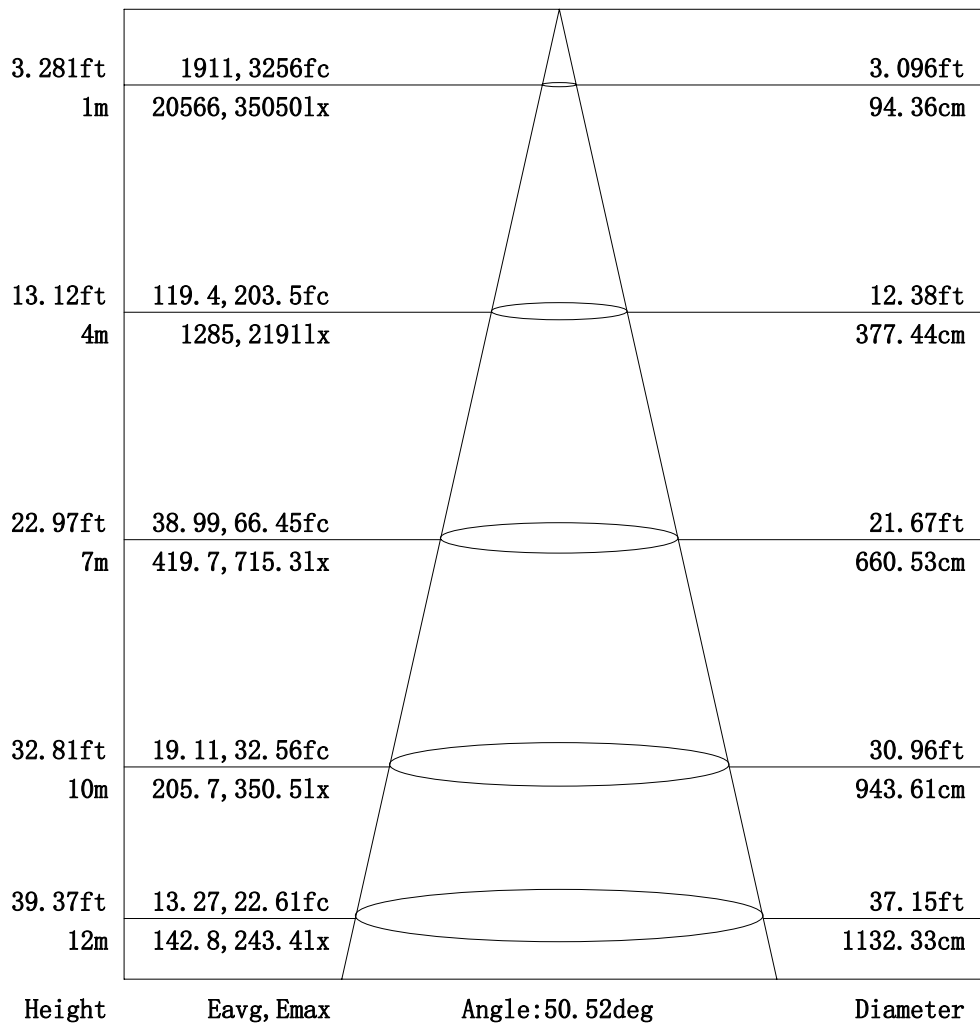
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AAI Figure

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Flux out:14699 lm

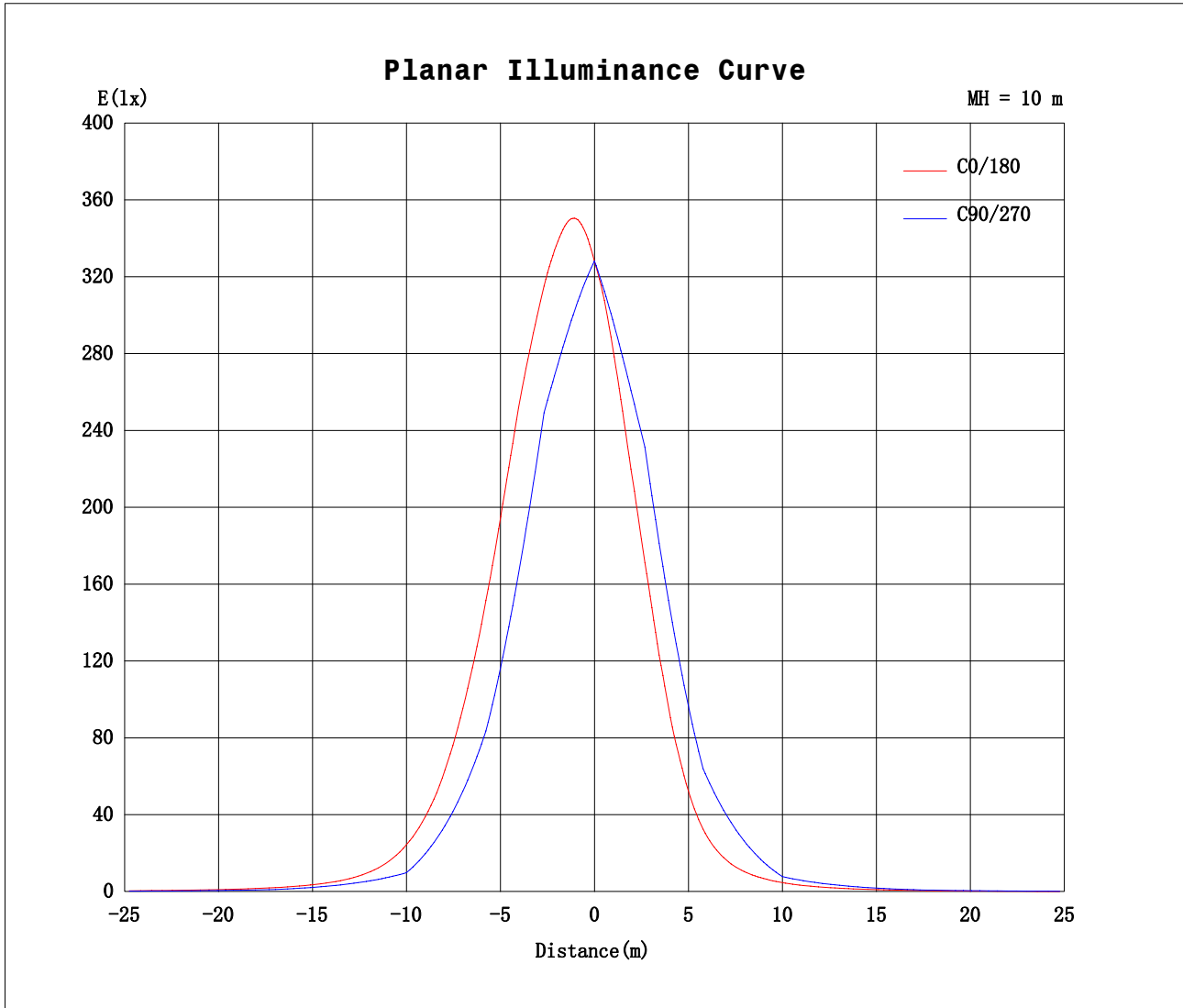


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: flood light	TYPE:philips	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
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Table--1

UNIT: ×10cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.19	0.52	0.79	1.29	2.28	3.82	5.73	7.77	9.94	12.3	14.2	15.8	17.1	18.1	18.8	19.2	19.3	19.0	18.5
-70	0.28	0.70	1.20	2.60	4.68	8.14	12.2	15.7	19.4	23.0	26.3	29.5	32.4	34.8	36.7	38.2	39.0	39.2	39.1
-65	0.17	0.55	1.11	2.59	5.26	9.44	15.6	20.8	25.9	31.1	36.0	40.7	45.3	49.5	53.2	56.2	58.2	59.4	59.8
-60	0.22	0.80	1.80	4.51	8.37	15.3	23.6	30.1	36.4	42.7	49.4	55.9	61.9	67.3	72.0	75.9	78.6	80.1	80.6
-55	0.16	0.42	1.05	3.13	7.20	14.3	23.7	31.9	40.4	49.6	59.2	69.7	81.3	94.0	107	119	130	140	146
-50	0.18	0.41	1.36	4.64	10.4	20.8	30.8	40.7	51.5	63.4	77.1	92.8	111	131	151	171	190	205	215
-45	0.17	0.14	0.60	2.90	8.09	18.5	30.1	41.1	53.6	67.8	83.8	103	125	152	180	208	236	260	277
-40	0.16	0.20	1.18	5.07	13.3	25.8	37.9	51.5	67.2	86.1	110	142	187	247	321	409	496	570	625
-35	0.17	0.14	0.56	3.26	10.5	23.0	36.0	50.3	67.5	88.7	116	154	209	291	403	540	688	827	935
-30	0.15	0.17	1.26	5.78	17.0	30.5	45.0	62.3	83.5	111	149	205	291	416	581	789	998	1175	1310
-25	0.18	0.14	0.51	3.66	12.3	26.0	40.4	57.7	79.0	107	146	208	306	472	706	988	1274	1537	1748
-20	0.17	0.14	1.16	6.73	18.0	32.4	48.8	69.2	94.6	131	186	276	435	700	1034	1418	1774	2080	2315
-15	0.20	0.15	0.44	4.10	13.4	27.5	43.3	63.2	88.0	123	175	262	417	694	1089	1550	1992	2389	2716
-10	0.18	0.13	1.07	6.91	18.0	32.8	50.2	72.2	100	141	206	318	525	878	1326	1825	2286	2691	2993
-5	0.20	0.15	0.35	3.59	12.4	26.3	42.3	62.3	87.6	123	178	269	440	748	1195	1717	2214	2683	3053
0	0.18	0.13	0.98	6.31	16.8	31.8	49.2	71.4	100	142	210	332	561	950	1457	2009	2534	3010	3344
5	0.21	0.15	0.24	2.87	10.8	24.1	39.7	58.8	83.1	117	167	251	407	686	1109	1615	2118	2601	2983
10	0.19	0.14	0.65	4.77	14.1	28.2	44.3	64.4	90.2	125	181	274	442	731	1141	1619	2107	2533	2868
15	0.22	0.16	0.14	1.94	8.91	20.8	35.4	52.6	74.5	103	144	208	320	509	832	1245	1703	2143	2507
20	0.20	0.14	0.36	3.11	10.7	23.1	37.5	54.8	76.4	104	146	209	318	502	776	1114	1483	1813	2093
25	0.23	0.16	0.12	1.03	5.49	14.9	27.7	42.0	59.5	81.4	110	152	218	322	492	709	961	1232	1473
30	0.20	0.14	0.13	1.34	6.65	16.2	28.6	42.5	58.9	78.7	104	139	189	262	362	494	665	849	1021
35	0.23	0.17	0.12	0.43	2.78	9.24	19.3	30.8	44.3	60.4	79.4	104	138	185	253	341	448	581	709
40	0.21	0.16	0.13	0.57	3.24	9.48	18.5	29.6	41.9	55.9	72.6	93.6	121	158	205	265	338	417	491
45	0.24	0.19	0.14	0.11	0.77	3.82	10.1	19.2	29.0	40.0	51.9	65.3	80.6	98.0	118	141	165	190	216
50	0.22	0.17	0.13	0.16	1.06	4.26	9.63	17.1	25.4	34.8	45.2	56.9	69.7	84.2	100	118	137	156	175
55	0.24	0.19	0.15	0.12	0.33	1.46	4.22	8.72	14.6	22.1	30.2	38.9	48.3	58.4	69.4	81.3	93.7	106	118
60	0.22	0.18	0.15	0.12	0.12	0.53	1.93	4.94	9.40	15.3	21.8	28.5	34.9	41.2	47.6	54.1	60.5	66.4	72.1
65	0.24	0.21	0.17	0.15	0.13	0.24	0.88	2.38	4.93	8.83	13.1	17.6	22.4	27.3	32.3	37.4	42.3	47.0	51.5
70	0.23	0.21	0.18	0.16	0.15	0.27	0.73	1.72	3.23	5.44	7.93	10.8	13.9	17.4	21.0	24.6	28.0	31.3	34.5
75	0.24	0.23	0.21	0.19	0.17	0.15	0.13	0.12	0.12	0.31	0.75	1.58	2.76	4.59	6.77	8.94	11.0	12.9	14.9
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
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Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: flood light	TYPE:philips	WEIGHT:
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MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	18.2	18.0	17.4	16.7	15.7	14.4	12.7	10.9	8.81	6.80	5.26	3.61	2.32	1.32	0.75	0.50	0.44	0.44
-70	38.7	37.9	36.6	34.7	32.2	29.3	26.1	22.7	18.9	15.3	12.0	8.82	5.88	3.61	1.90	0.89	0.44	0.39
-65	59.6	58.7	56.9	54.3	50.8	46.8	42.1	37.1	32.0	26.6	21.4	16.5	11.7	7.56	4.39	1.97	0.69	0.35
-60	79.9	78.2	75.4	71.4	66.2	60.5	54.3	47.7	40.6	33.6	27.0	20.4	13.9	8.73	4.52	1.75	0.45	0.31
-55	149	147	141	132	120	106	91.6	77.5	64.7	53.1	42.6	33.1	24.3	16.7	10.2	4.99	1.72	0.41
-50	217	212	200	183	163	140	118	96.9	79.0	63.8	50.5	38.7	28.1	19.1	11.0	5.26	1.47	0.17
-45	285	283	270	249	223	192	161	132	107	86.4	68.8	53.5	40.2	28.7	18.1	9.56	3.54	0.60
-40	649	639	596	527	441	345	257	190	140	106	80.1	60.3	44.1	30.7	19.1	9.91	3.49	0.38
-35	1000	1010	963	867	729	575	419	297	209	150	110	81.8	60.5	43.2	29.0	17.0	7.72	2.01
-30	1374	1359	1264	1102	902	675	472	326	224	160	116	85.3	61.7	43.5	28.8	15.7	6.53	0.95
-25	1880	1913	1839	1675	1421	1134	822	552	353	229	155	110	79.0	55.9	38.0	23.2	11.2	3.34
-20	2441	2434	2305	2055	1730	1341	933	604	365	230	154	107	75.7	52.8	34.9	20.1	8.72	1.69
-15	2925	2990	2897	2672	2298	1869	1369	895	540	323	203	138	95.5	66.6	45.1	28.3	14.0	4.60
-10	3171	3174	3037	2763	2356	1853	1314	843	496	294	188	126	87.5	60.6	40.2	24.0	10.8	2.48
-5	3308	3394	3317	3113	2751	2253	1695	1139	692	399	240	157	107	74.2	50.4	32.0	16.8	6.19
0	3563	3580	3461	3226	2780	2211	1613	1045	617	352	216	142	97.0	67.0	44.7	27.4	12.8	3.31
5	3261	3374	3322	3137	2791	2298	1746	1185	728	421	252	165	113	78.2	53.5	34.5	18.9	7.58
10	3097	3156	3061	2826	2441	1948	1413	930	556	328	208	140	96.8	67.9	45.9	28.8	14.2	4.82
15	2783	2931	2913	2744	2419	2005	1521	1032	647	389	241	162	112	78.5	54.4	35.8	20.4	8.77
20	2294	2374	2320	2137	1856	1491	1084	732	455	283	189	131	93.1	66.7	46.0	29.6	15.5	6.10
25	1665	1784	1801	1717	1531	1279	985	690	457	298	201	141	102	74.3	52.9	35.7	21.2	9.92
30	1156	1233	1237	1160	1027	840	627	449	315	218	159	117	86.2	63.5	45.1	29.9	16.5	7.16
35	817	894	921	895	815	696	555	412	297	214	157	117	89.1	67.4	49.4	34.4	21.4	10.9
40	551	589	597	572	520	444	354	273	208	157	121	94.6	73.1	55.7	40.9	28.4	16.7	8.33
45	240	260	274	279	273	255	229	198	166	136	111	90.9	73.3	57.6	44.1	31.8	20.9	11.6
50	192	205	214	215	208	193	174	151	128	107	89.0	73.7	59.7	47.3	36.3	26.3	16.5	9.38
55	130	140	148	151	151	145	134	121	107	93.1	80.0	68.0	57.2	47.0	37.5	28.4	19.6	12.2
60	77.5	82.3	86.2	88.8	89.6	88.3	85.6	81.3	75.2	68.3	61.3	54.0	46.1	38.4	31.2	23.6	16.1	10.3
65	56.0	60.3	64.0	66.9	68.8	69.4	68.2	65.7	62.2	57.9	52.8	47.3	41.8	36.1	30.3	24.2	18.0	12.5
70	37.9	41.4	44.5	47.0	48.7	49.4	49.3	48.1	45.9	43.1	40.2	36.7	32.9	28.7	24.5	19.8	14.9	11.0
75	17.1	19.8	22.6	25.1	27.4	29.3	30.7	31.4	31.4	30.8	30.0	28.7	27.1	25.1	22.4	19.2	15.9	12.6
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenpeng
Test Date:2014-04-17

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks: