

# LEADER 60W LED Floodlight

## Key Features

- + IP65 rated
- + High Output
- + Cool White
- + Colour Rendering (CRI) 70
- + No harmful UV, IR Radiation or Mercury
- + 50,000 + hours typical life
- + Power Factor 0.98
- + 2 year warranty
- + Cost effective, sustainable and eco-friendly



With very low power consumption, excellent power factor & minimal maintenance, the **LEADER Floodlight** LED unit is perfect for floodlighting of all internal or external applications.

This Floodlight is well suited for car parks and other exterior areas including those covered by CCTV where good quality lighting with excellent colour rendition is essential.

Lightweight with a slim profile, our Floodlight is a stylish, easy to install and energy saving exterior lighting option.



[www.eventpowerservices.com](http://www.eventpowerservices.com)  
[sales@eventpowerservices.com](mailto:sales@eventpowerservices.com)

For further information on how these floodlights can benefit you, please contact us today for a free, no obligation chat to discuss your requirements. **0845 1363 103**

# LEADER 60W LED Floodlight



## Technical Specification

IP Rating	IP65
Colour	Cool White
Colour Temperature	6000 - 6500k
Power Consumptions	60W
Dimensions	360 x 285 x 110mm
Weight	5.6KG
Power Factor	0.98
Colour Rendering (CRI)	70
Beam Angle	x = 60° y = 80°
Working Voltage	85 - 265 V ac
Frequency Range	50 - 60Hz
Lumen Output	5600 lm
Lumen per Watt	93 lm/W
Illumination Area (Height)	4m = 7x7m 6m = 11x11m 8m = 14x14m
Illumination (lux)	76 lux (4m) 35 lux (6m) 21 lux (8m)
Working Temperature	- 40°C ~ + 55°C
Storage Temperature	- 25°C ~ + 65°C
Colour of External Casing	Black/Grey
Guarantee	2 years

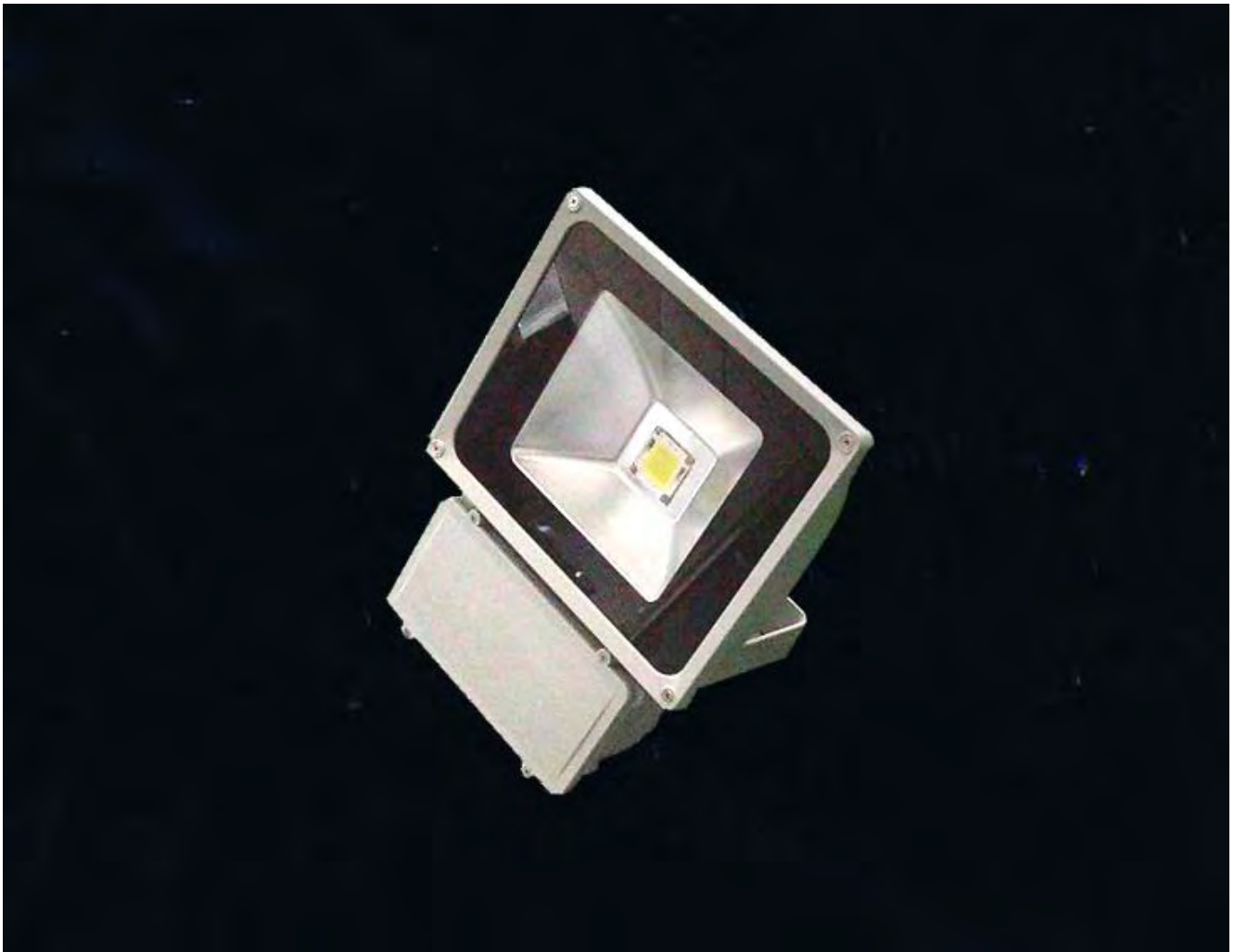


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Luminaire Photograph

泛光灯 LED 60W  
深圳市比速光电科技有限公司



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Rong  
Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65.0%  
Test Distance:5.360m [K=1.0000]  
Remarks:

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

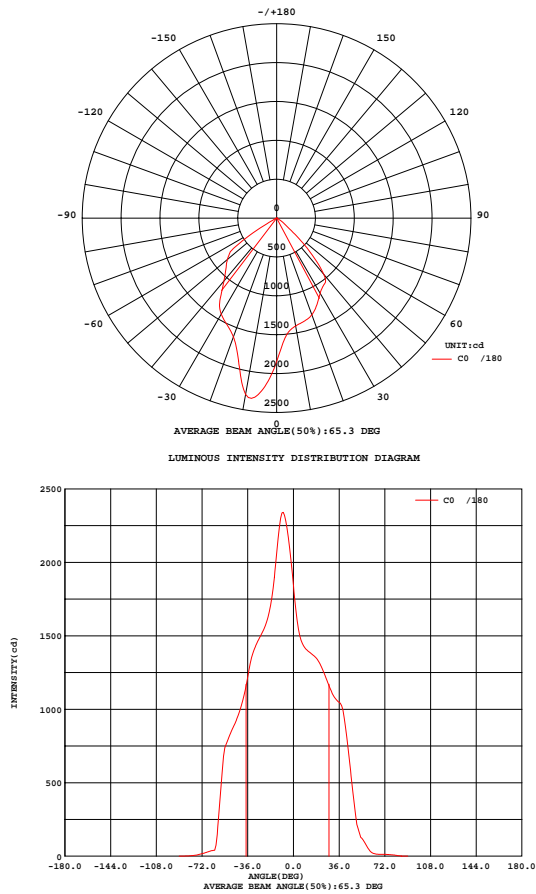


Fig. C0/C180

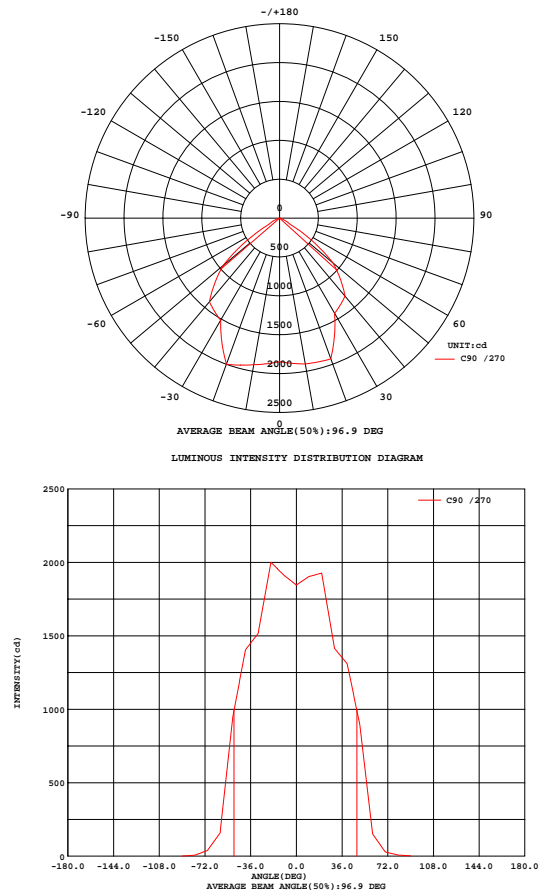


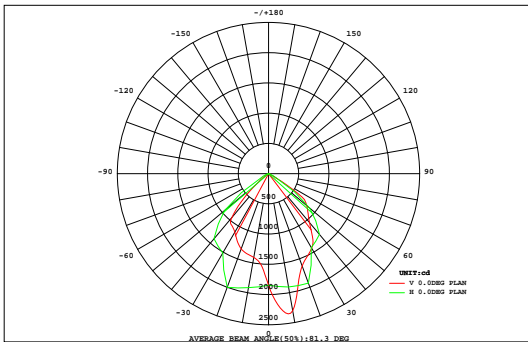
Fig. C90/C270

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Rong  
Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65.0%  
Test Distance:5.360m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:232.9V I:0.2920A P:64.50W PF:0.9510 Lamp Flux:3800x1 lm		
NAME: 泛光灯	TYPE:LED	WEIGHT:5.84
DIMENSION: 360*285*110	SPECIFICATION:60W	SERIAL No.:
MANUFACTURER: 深圳市比通光电科技有限公司	SURFACE:165*145MM	PROTECTION ANGLE:



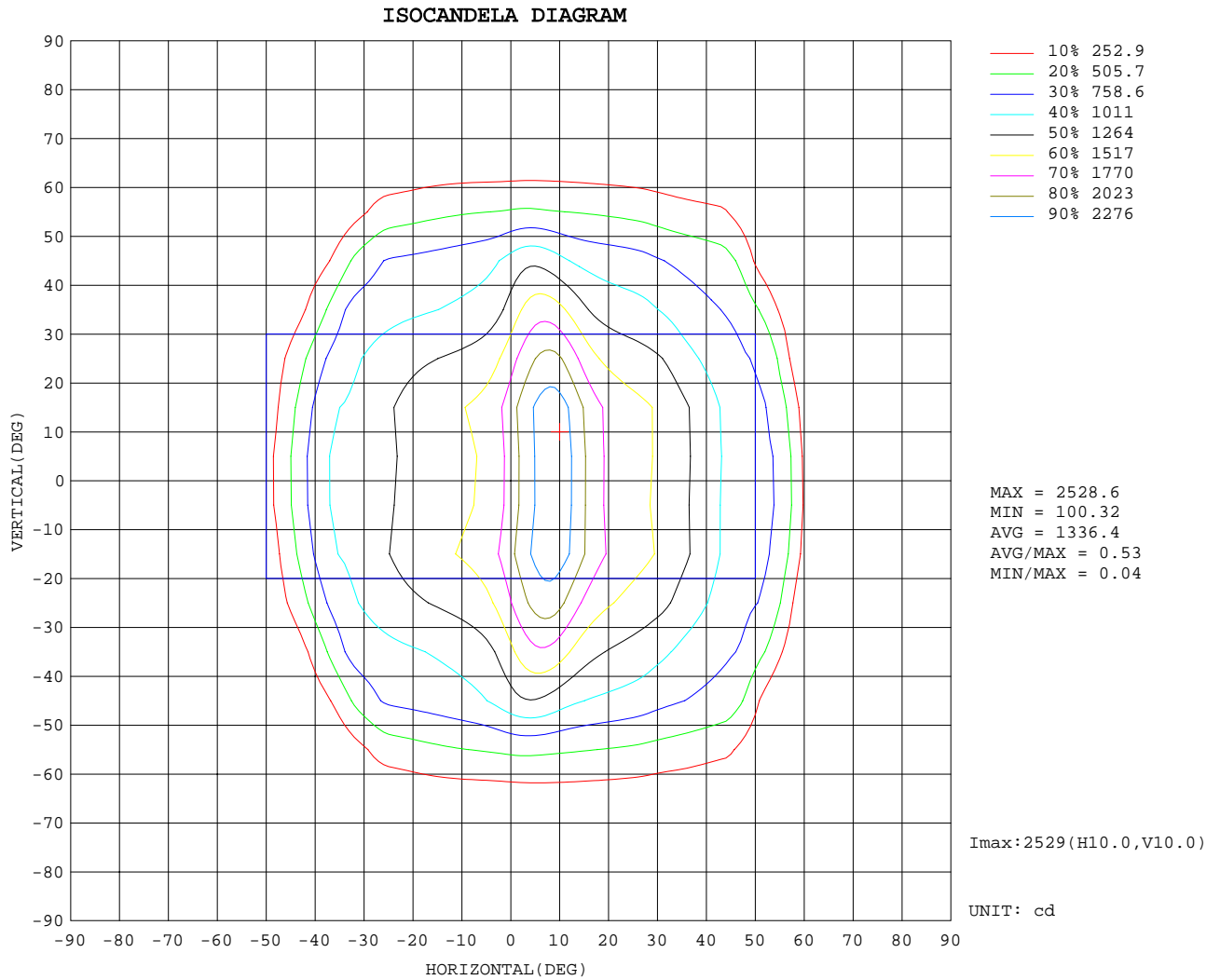
DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	KNFL-360-60W	Imax(cd)	2529
NOMINAL POWER(W)	64.5	AVAILABILITY(%)	90.4
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	3436
NOMINAL FLUX(lm)	3800.0	EFFICIENCY(%)	93.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3536
TEST VOLTAGE(V)	230.6	θ @50%(H,V)	62,83DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.12	0.16	0.16	0.13	0.11	0.09	0.06	0.04	0.03	0.01	1.26	0.00
90	0.01	0.02	0.05	0.07	0.12	0.14	0.26	0.40	0.47	0.58	0.53	0.35	0.22	0.11	0.07	0.04	0.02	0.01	3.46	0.00
80	0.01	0.04	0.10	0.13	0.23	0.28	0.90	2.05	2.38	2.51	2.28	1.67	0.69	0.23	0.13	0.06	0.03	0.01	13.7	0.00
70	0.01	0.06	0.13	0.18	0.45	1.77	7.72	11.3	13.1	13.6	12.3	10.1	6.75	3.51	0.26	0.10	0.03	0.01	81.3	64.3
60	0.01	0.07	0.15	0.36	1.57	8.62	22.2	26.7	31.0	36.3	29.8	25.0	19.2	11.6	0.97	0.17	0.04	0.01	214	209
50	0.01	0.08	0.17	0.73	3.74	17.6	25.8	29.7	35.2	49.2	38.2	30.0	22.2	15.5	4.11	0.33	0.06	0.01	273	268
40	0.01	0.08	0.20	1.13	6.92	21.4	30.6	36.5	42.4	59.1	50.9	37.8	28.2	18.5	8.45	0.52	0.08	0.01	343	339
30	0.01	0.09	0.21	1.60	10.4	25.5	35.0	43.5	51.2	69.8	59.4	44.6	33.2	20.3	9.76	0.64	0.09	0.01	405	401
20	0.01	0.08	0.20	1.63	10.7	25.5	33.5	41.7	49.0	68.7	62.9	45.2	34.3	21.2	11.8	0.84	0.11	0.01	408	404
10	0.01	0.08	0.22	1.80	11.9	26.0	34.1	41.1	47.9	67.1	58.6	42.8	32.1	20.3	11.0	0.68	0.10	0.01	396	392
0	0.01	0.08	0.18	1.29	8.89	24.7	34.6	43.4	51.5	69.7	62.3	45.5	33.9	20.8	11.1	0.91	0.11	0.01	409	405
-10	0.01	0.08	0.19	1.16	7.50	22.5	32.4	39.1	46.7	63.7	51.8	40.3	29.7	19.0	8.39	0.44	0.08	0.00	363	359
-20	0.00	0.06	0.16	0.60	2.88	16.5	25.5	29.8	36.1	50.0	41.7	32.4	24.3	16.9	6.25	0.48	0.07	0.01	284	279
-30	0.00	0.05	0.13	0.42	1.42	10.1	21.6	25.9	31.5	37.8	29.6	24.9	18.8	12.7	1.39	0.24	0.04	0.00	217	212
-40	0.00	0.04	0.09	0.11	0.26	1.54	11.2	15.5	17.8	17.6	16.6	14.2	11.1	6.23	0.30	0.11	0.03	0.00	113	103
-50	0.00	0.02	0.06	0.09	0.13	0.13	0.37	1.17	1.46	1.74	1.74	1.33	0.57	0.12	0.10	0.05	0.02	0.00	9.09	0.00
-60	0.00	0.01	0.02	0.04	0.10	0.11	0.27	0.36	0.38	0.51	0.48	0.40	0.23	0.10	0.06	0.03	0.01	0.00	3.11	0.00
-70	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.04	0.07	0.06	0.03	0.02	0.02	0.02	0.01	0.00	0.00	0.37	0.00
-80	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.04	0.07	0.06	0.03	0.02	0.02	0.02	0.01	0.00	0.00	0.37	0.00
-90	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.04	0.07	0.06	0.03	0.02	0.02	0.02	0.01	0.00	0.00	0.37	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.10	0.97	2.31	11.4	67.3	202	316	388	458	608	520	397	296	187	74.3	5.68	0.94	0.10	3536	---
Φ a	0.00	0.00	0.00	0.00	51.7	197	312	381	450	599	511	390	292	184	67.8	0.44	0.00	0.00	---	3436

H(β) Range:-90 - 90DEG  
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Temperature:30DEG  
Operators:Rong  
Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65.0%  
Test Distance:5.360m [K=1.0000]  
Remarks:

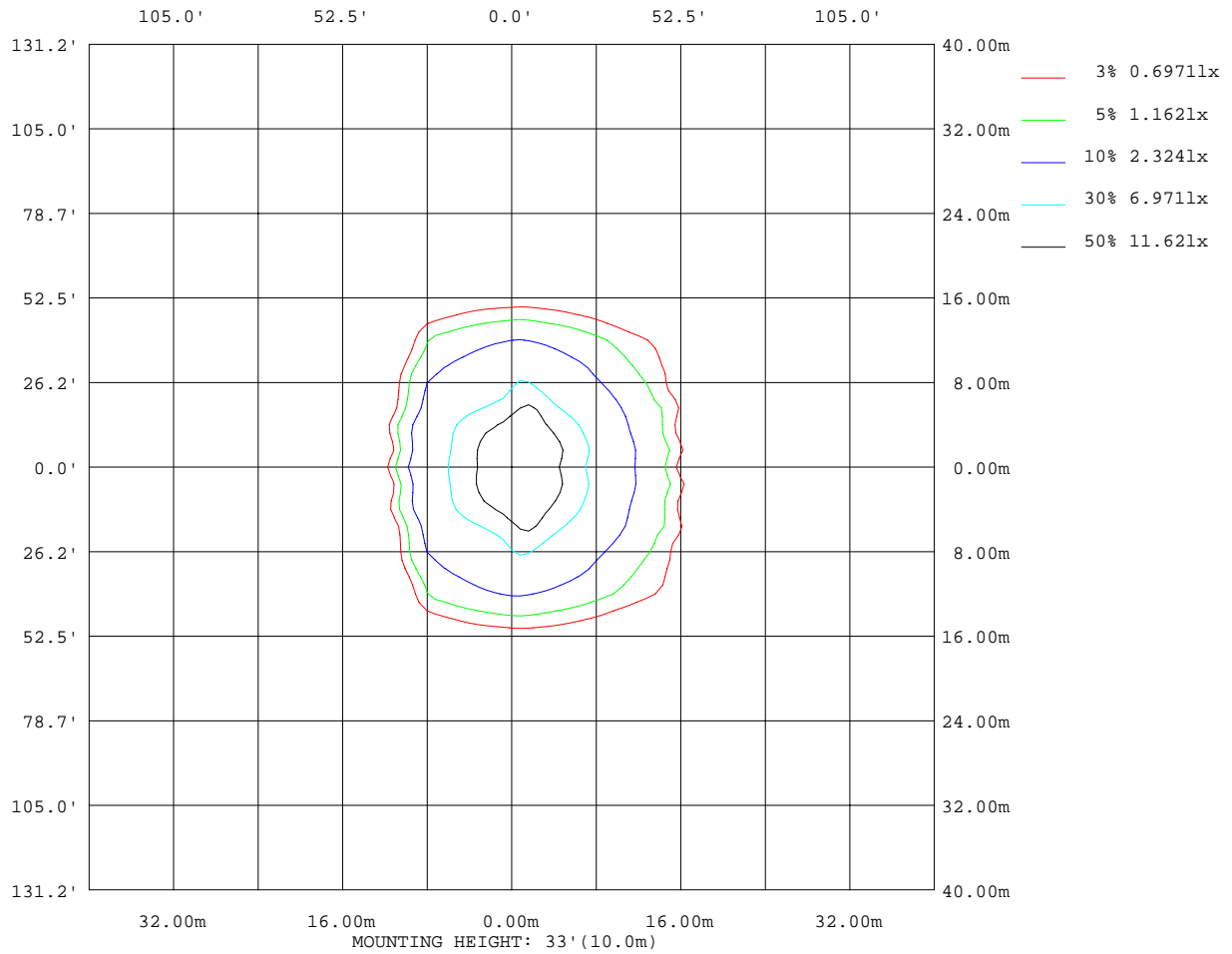
ISOCANDELA DIAGRAM



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:Rong  
 Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
 Humidity:65.0%  
 Test Distance:5.360m [K=1.0000]  
 Remarks:

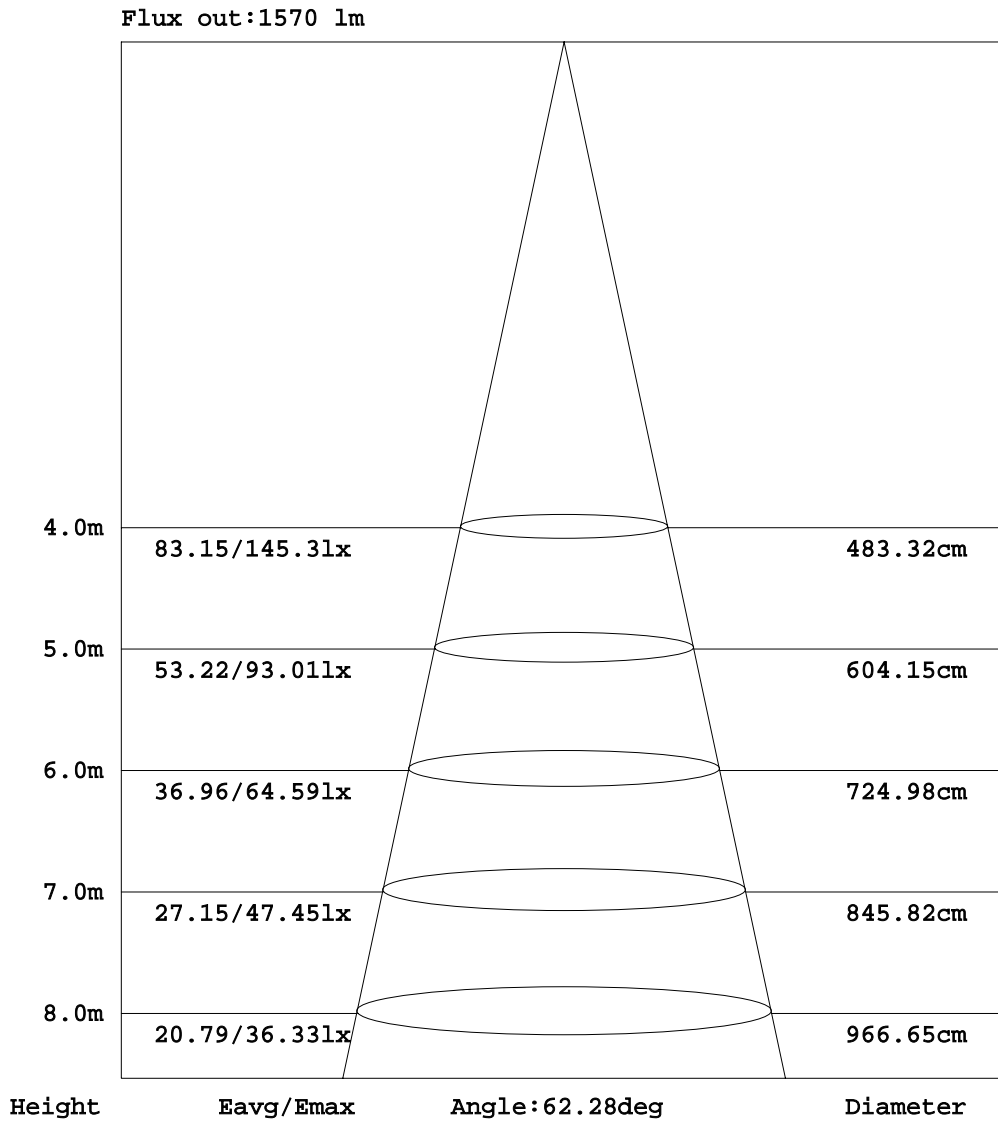
ISOLUX DIAGRAM



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:Rong  
 Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
 Humidity:65.0%  
 Test Distance:5.360m [K=1.0000]  
 Remarks:

AAI Figure



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

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Rong  
Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65.0%  
Test Distance:5.360m [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
-90	0.77	0.77	0.77	0.76	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.76	0.74	0.73
-85	0.76	0.75	0.74	0.73	0.74	0.78	0.81	0.88	1.08	1.27	1.21	1.15	1.19	1.33	1.54	1.89	2.27	2.81	3.84
-80	0.76	0.73	0.71	0.70	0.72	0.79	0.86	1.00	1.40	1.77	1.66	1.53	1.61	1.89	2.33	3.01	3.79	4.88	6.95
-75	0.75	0.72	0.70	0.78	1.59	1.90	1.81	1.95	3.45	4.45	3.63	4.04	6.13	10.3	15.2	19.4	20.7	21.0	22.7
-70	0.74	0.71	0.70	0.86	2.46	3.02	2.76	2.91	5.50	7.12	5.60	6.54	10.6	18.6	28.1	35.8	37.6	37.1	38.5
-65	0.73	0.69	0.94	2.52	4.13	4.70	4.18	4.54	7.35	8.21	6.87	8.23	13.5	27.3	55.2	81.4	91.4	93.7	98.9
-60	0.71	0.67	1.19	4.19	5.79	6.38	5.61	6.18	9.20	9.31	8.14	9.92	16.3	36.0	82.2	127	145	150	159
-55	0.70	0.67	1.28	4.67	6.61	7.64	6.99	7.70	13.7	19.6	12.7	57.3	225	373	419	463	498	524	555
-50	0.70	0.66	1.37	5.15	7.44	8.90	8.36	9.23	18.2	29.9	17.4	105	433	710	755	800	851	897	951
-45	0.69	0.68	2.68	6.48	8.87	10.0	10.3	17.7	46.2	53.0	132	350	636	795	835	878	931	1008	1178
-40	0.67	0.69	4.00	7.82	10.3	11.1	12.2	26.2	74.3	76.1	247	596	840	880	915	957	1011	1120	1405
-35	0.66	0.65	4.18	7.92	10.9	12.3	13.5	30.0	84.3	112	337	685	891	944	989	1036	1095	1196	1461
-30	0.65	0.62	4.36	8.02	11.5	13.5	14.8	33.7	94.2	148	427	774	943	1008	1063	1115	1178	1273	1518
-25	0.63	0.86	4.65	9.18	12.7	13.9	19.7	56.8	119	284	604	889	1036	1142	1224	1287	1352	1460	1759
-20	0.62	1.10	4.94	10.3	13.8	14.4	24.6	79.8	144	419	780	1004	1129	1275	1386	1459	1526	1648	2000
-15	0.63	0.86	4.08	9.97	13.3	13.8	22.9	77.1	140	414	783	1018	1116	1259	1383	1464	1537	1651	1957
-10	0.65	0.62	3.21	9.61	12.7	13.2	21.2	74.4	137	408	786	1032	1103	1243	1380	1469	1549	1654	1914
-5	0.68	0.79	5.21	10.4	12.6	13.9	30.1	91.7	177	496	864	1043	1111	1235	1352	1421	1479	1579	1880
0	0.72	0.97	7.21	11.2	12.4	14.5	39.0	109	217	583	942	1054	1120	1228	1324	1373	1408	1503	1845
5	0.79	0.90	6.64	10.7	12.6	14.0	31.2	95.3	180	503	870	1042	1103	1221	1336	1410	1467	1567	1875
10	0.86	0.83	6.08	10.2	12.8	13.5	23.5	81.5	144	422	799	1030	1086	1215	1348	1448	1525	1631	1904
15	0.97	1.08	6.79	10.8	13.4	14.2	26.4	85.3	151	435	797	1011	1099	1235	1359	1441	1507	1610	1915
20	1.08	1.33	7.51	11.4	13.9	15.0	29.2	89.1	158	449	796	992	1112	1255	1370	1434	1489	1590	1926
25	1.19	1.32	6.66	10.5	13.4	14.6	22.6	64.6	129	311	625	881	1022	1127	1209	1263	1315	1401	1671
30	1.31	1.31	5.80	9.57	12.9	14.2	16.0	40.0	100	173	454	770	932	999	1049	1092	1141	1212	1416
35	1.39	1.52	6.23	9.69	12.5	13.5	14.9	32.5	89.7	137	362	684	876	929	970	1010	1055	1128	1363
40	1.46	1.72	6.66	9.82	12.0	12.8	13.7	24.9	79.2	101	270	599	819	859	892	927	969	1043	1310
45	1.60	1.72	5.64	8.68	10.9	12.0	12.4	17.9	47.7	71.5	149	364	629	774	810	846	890	947	1104
50	1.73	1.72	4.63	7.54	9.79	11.3	11.1	10.9	16.3	42.4	28.9	129	439	690	729	766	811	851	897
55	1.83	1.82	4.56	7.16	9.04	10.3	10.1	9.71	13.5	27.2	19.9	70.5	230	369	410	451	482	503	525
60	1.93	1.93	4.49	6.78	8.28	9.32	9.03	8.52	10.8	12.0	11.0	11.7	21.1	47.7	90.8	136	153	154	153
65	2.00	1.96	3.31	5.33	6.98	7.77	7.43	7.02	9.11	10.6	9.51	10.2	17.0	33.3	57.8	82.0	91.2	91.4	91.2
70	2.06	2.00	2.14	3.88	5.69	6.22	5.84	5.52	7.45	9.31	8.04	8.72	12.8	18.8	24.7	28.4	29.5	29.0	29.1
75	2.11	2.03	2.10	2.99	4.11	4.41	4.14	4.04	5.26	6.41	5.71	5.94	7.98	11.1	14.2	16.4	17.5	17.9	18.5
80	2.16	2.07	2.07	2.09	2.54	2.60	2.45	2.57	3.06	3.50	3.38	3.17	3.16	3.33	3.67	4.42	5.58	6.75	7.88
85	2.19	2.12	2.10	2.06	2.23	2.24	2.15	2.20	2.44	2.68	2.60	2.51	2.51	2.61	2.80	3.21	3.81	4.42	5.03
90	2.23	2.18	2.14	2.04	1.93	1.88	1.86	1.83	1.82	1.85	1.82	1.85	1.86	1.90	1.93	1.99	2.04	2.10	2.18

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Rong  
Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65.0%  
Test Distance:5.360m [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	
-90	0.72	0.71	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.63	0.62	0.62	0.62	0.63	0.63	0.62	
-85	4.88	4.69	4.00	3.31	2.67	2.20	1.84	1.58	1.43	1.35	1.25	1.07	0.94	0.79	0.64	0.63	0.62	0.62	
-80	9.04	8.67	7.29	5.91	4.64	3.72	3.00	2.50	2.22	2.06	1.86	1.51	1.27	0.95	0.65	0.63	0.61	0.63	
-75	27.6	28.9	26.1	24.0	22.6	18.9	13.0	7.36	4.79	4.03	3.54	2.98	2.40	1.80	1.15	0.83	0.61	0.61	
-70	46.1	49.1	44.9	42.1	40.5	34.1	23.1	12.2	7.37	6.00	5.22	4.45	3.54	2.65	1.65	1.03	0.62	0.59	
-65	110	114	109	103	93.1	70.7	50.7	25.8	11.4	9.25	7.56	6.03	4.55	3.27	2.04	1.13	0.62	0.59	
-60	173	178	173	163	146	107	78.3	39.5	15.4	12.5	9.90	7.61	5.57	3.89	2.43	1.23	0.61	0.58	
-55	559	538	517	495	468	425	387	341	278	90.5	17.9	13.7	8.73	5.41	3.38	1.88	0.82	0.58	
-50	946	898	862	827	790	743	696	643	541	169	25.9	19.7	11.9	6.93	4.32	2.53	1.02	0.58	
-45	1252	1123	1013	960	913	835	766	705	622	318	50.8	32.0	17.0	8.36	4.90	2.49	0.94	0.60	
-40	1559	1349	1163	1093	1036	926	835	767	702	468	75.8	44.3	22.1	9.78	5.48	2.45	0.85	0.62	
-35	1721	1632	1377	1251	1174	1076	957	864	776	609	285	59.6	32.8	14.7	7.29	3.26	1.13	0.64	
-30	1882	1915	1591	1409	1311	1226	1080	961	851	751	495	75.0	43.5	19.7	9.09	4.06	1.41	0.65	
-25	2107	2084	1732	1542	1440	1343	1174	1018	875	768	517	73.8	39.9	19.2	8.90	3.72	1.24	0.67	
-20	2331	2254	1872	1675	1570	1460	1268	1076	899	784	539	72.7	36.3	18.7	8.70	3.37	1.06	0.69	
-15	2330	2386	2033	1749	1615	1503	1335	1121	935	818	645	189	37.7	22.6	11.1	4.23	1.36	0.72	
-10	2329	2519	2195	1823	1660	1546	1403	1166	972	852	750	306	39.2	26.5	13.5	5.10	1.66	0.75	
-5	2280	2410	2047	1725	1587	1486	1335	1111	948	839	715	227	37.7	24.0	11.7	4.36	1.40	0.78	
0	2231	2301	1899	1627	1514	1426	1267	1055	925	827	680	149	36.3	21.5	10.0	3.62	1.13	0.80	
5	2282	2415	2047	1729	1592	1497	1347	1122	954	836	710	214	39.9	23.3	11.2	4.32	1.40	0.85	
10	2333	2529	2196	1830	1671	1569	1427	1190	982	845	740	279	43.4	25.0	12.5	5.01	1.67	0.90	
15	2299	2377	2006	1722	1595	1493	1327	1119	932	804	614	170	39.5	20.5	10.2	4.21	1.46	0.99	
20	2265	2225	1816	1613	1518	1418	1227	1048	881	763	488	61.3	35.6	16.0	7.97	3.41	1.26	1.08	
25	2021	2048	1679	1459	1372	1290	1117	969	840	739	454	58.5	36.3	15.8	8.17	3.88	1.58	1.23	
30	1777	1870	1543	1306	1226	1162	1006	889	800	716	419	55.6	37.0	15.6	8.38	4.35	1.91	1.37	
35	1651	1578	1303	1155	1099	1015	894	804	726	541	230	42.1	25.8	11.9	6.81	3.67	1.88	1.59	
40	1525	1287	1064	1003	971	868	782	720	653	367	40.5	28.6	14.7	8.25	5.24	2.99	1.86	1.80	
45	1217	1074	949	900	860	781	711	652	548	225	30.1	21.6	12.5	7.68	5.09	3.13	2.11	2.10	
50	908	862	835	797	748	694	640	585	442	83.3	19.8	14.5	10.2	7.12	4.93	3.26	2.36	2.41	
55	533	510	491	465	435	388	339	302	228	47.4	14.5	11.0	8.08	5.85	4.15	3.00	2.55	2.61	
60	157	157	146	134	121	82.6	38.1	19.0	14.0	11.4	9.29	7.55	5.97	4.59	3.38	2.75	2.74	2.82	
65	95.5	97.1	88.9	80.1	72.1	51.6	27.1	14.9	10.7	8.81	7.40	6.16	5.00	3.95	3.10	2.68	2.79	2.93	
70	33.8	37.1	31.6	26.2	23.3	20.6	16.2	10.8	7.41	6.20	5.50	4.78	4.03	3.30	2.82	2.60	2.84	3.04	
75	21.4	23.2	20.0	16.7	14.5	12.7	10.0	7.14	5.29	4.52	4.04	3.59	3.13	2.79	2.65	2.68	2.93	3.12	
80	9.04	9.29	8.38	7.22	5.73	4.65	3.93	3.45	3.16	2.84	2.58	2.40	2.23	2.28	2.47	2.75	3.03	3.20	
85	5.62	5.75	5.30	4.73	3.99	3.46	3.10	2.86	2.71	2.55	2.42	2.33	2.22	2.29	2.45	2.73	3.01	3.22	
90	2.19	2.20	2.22	2.24	2.25	2.26	2.26	2.26	2.25	2.25	2.25	2.25	2.25	2.21	2.30	2.44	2.70	2.99	3.25

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Rong  
Test Date:2009-08-08

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65.0%  
Test Distance:5.360m [K=1.0000]  
Remarks: