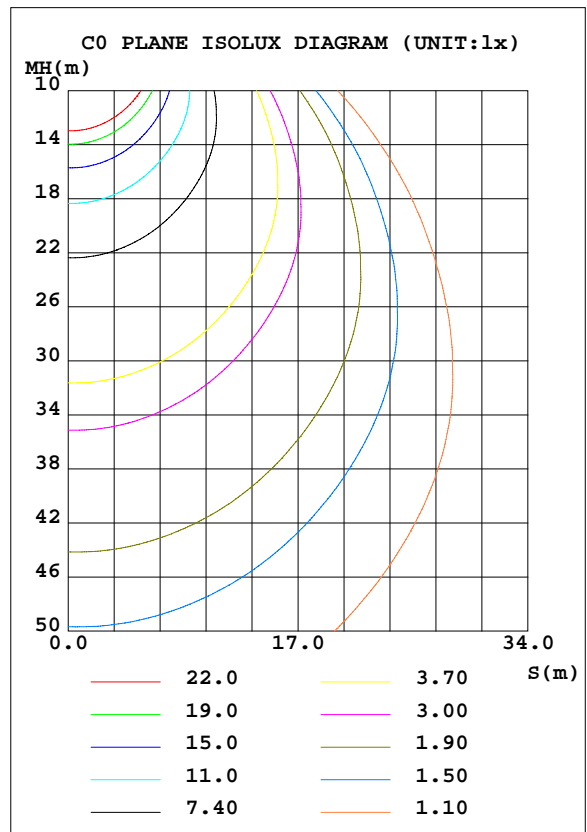
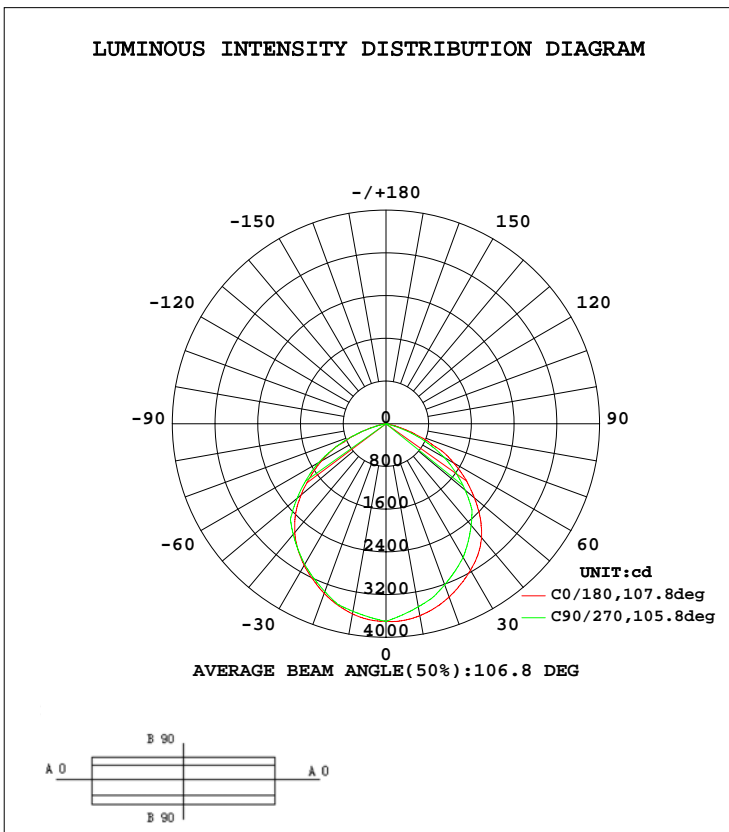


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.67 lm/W			
MODEL	QH-FLTG-80W	I _{max} (cd)	3706	S/MH(C0/180)	1.24
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	9207.6	η UP, DN(C0-180)	0.0, 48.4
NOMINAL FLUX(lm)	9207.63	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	3699	3627	3591	3615	3682	3644	3634	3656	0- 5	87.58	87.58	0.95,0.95
10	3650	3527	3482	3504	3616	3564	3567	3588	5- 10	257.3	344.9	3.75,3.75
15	3567	3410	3372	3380	3511	3464	3499	3504	10- 15	415.7	760.6	8.26,8.26
20	3453	3274	3211	3242	3382	3350	3348	3401	15- 20	558.2	1319	14.3,14.3
25	3315	3098	3051	3055	3226	3170	3196	3231	20- 25	678.6	1997	21.7,21.7
30	3167	2910	2890	2855	3063	2976	3044	3042	25- 30	776.4	2774	30.1,30.1
35	2999	2720	2686	2656	2874	2780	2873	2856	30- 35	850.8	3625	39.4,39.4
40	2784	2526	2481	2456	2658	2583	2703	2662	35- 40	899.0	4524	49.1,49.1
45	2496	2292	2277	2218	2398	2365	2532	2440	40- 45	918.4	5442	59.1,59.1
50	2162	2036	1937	1963	2076	2136	2174	2200	45- 50	900.4	6342	68.9,68.9
55	1826	1750	1596	1697	1728	1881	1817	1933	50- 55	832.8	7175	77.9,77.9
60	1465	1370	1256	1329	1393	1492	1460	1533	55- 60	727.6	7903	85.8,85.8
65	1030	999.8	866.5	966.7	1042	1107	1045	1137	60- 65	590.3	8493	92.2,92.2
70	598.2	638.1	476.9	620.9	589.7	733.0	630.9	752.6	65- 70	414.7	8908	96.7,96.7
75	236.3	293.7	87.33	291.6	253.3	366.5	216.5	369.6	70- 75	225.9	9134	99.2,99.2
80	20.20	10.78	0	18.84	39.31	50.11	0	42.79	75- 80	68.66	9202	99.9,99.9
85	2.855	0	0	0	4.546	0	0	0	80- 85	5.085	9207	100,100
90	0.6892	0	0	0	1.372	0	0	0	85- 90	0.1988	9208	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

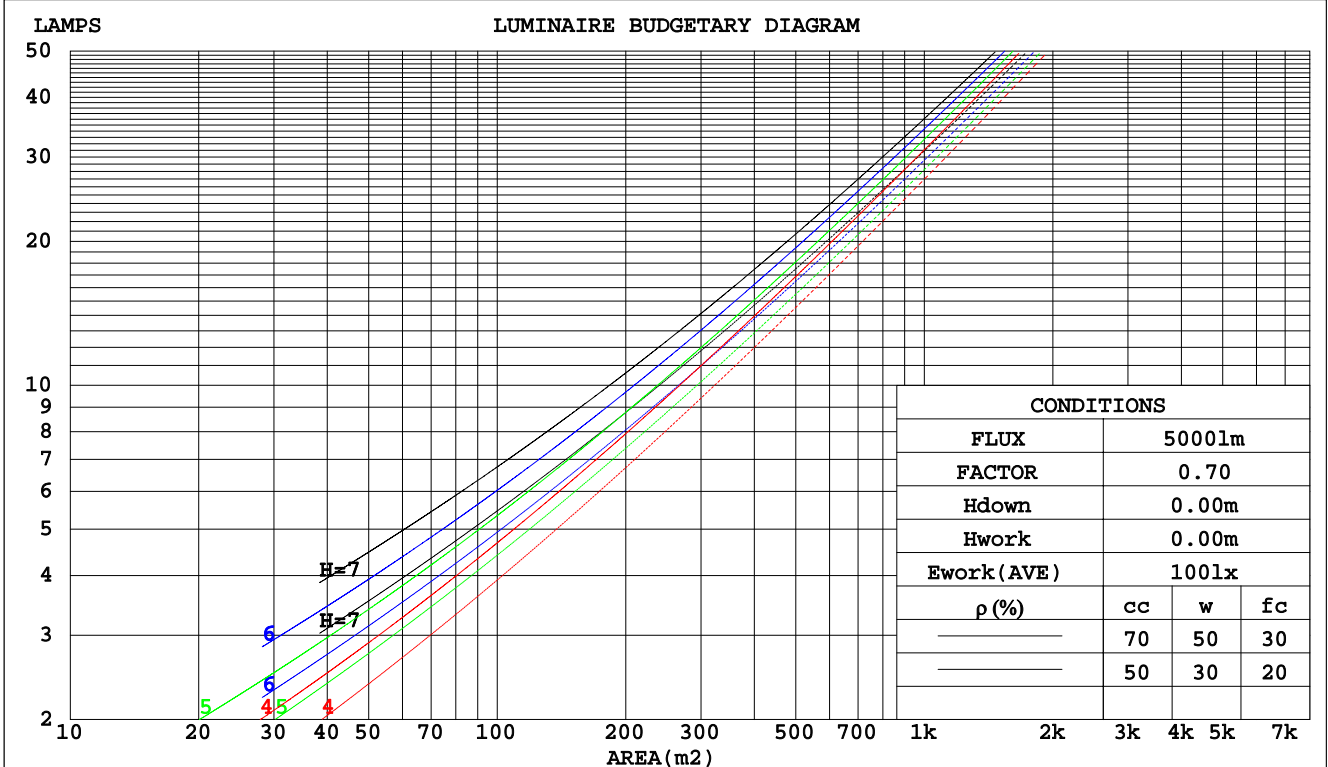
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.94	.91	.92	.90	.89	.87
2.0	.93	.87	.82	.92	.86	.81	.88	.83	.79	.85	.81	.77	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.69	.65	.63
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.58	.67	.62	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.65	.57	.51	.63	.55	.50	.61	.54	.50	.59	.53	.49	.47
6.0	.59	.51	.45	.58	.50	.44	.57	.49	.44	.55	.48	.44	.53	.48	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.44	.39	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.41	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.33
9.0	.45	.37	.32	.45	.37	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.38	.32	.28	.27



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.268	.152	.048	.261	.149	.047	.248	.142	.045	.236	.136	.044	.225	.130	.042	
2.0	.263	.144	.044	.257	.141	.044	.245	.136	.042	.235	.132	.041	.225	.127	.040	
3.0	.249	.133	.040	.244	.131	.039	.234	.127	.038	.224	.123	.038	.216	.119	.037	
4.0	.234	.121	.036	.229	.120	.035	.220	.117	.035	.212	.114	.034	.204	.111	.034	
5.0	.219	.111	.032	.214	.110	.032	.206	.107	.032	.199	.105	.031	.192	.103	.031	
6.0	.204	.103	.029	.201	.101	.029	.194	.099	.029	.187	.097	.029	.181	.095	.028	
7.0	.192	.095	.027	.188	.094	.027	.182	.092	.026	.176	.090	.026	.170	.088	.026	
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.166	.084	.024	.161	.083	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.157	.078	.022	.152	.077	.022	
10.0	.160	.076	.021	.157	.076	.021	.153	.075	.021	.148	.074	.021	.144	.072	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.138	.098	.067	.094	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.146	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm										
NAME: LED FLOOD LIGHT					TYPE:IP65			WEIGHT:2.5		
SPEC.:PHILIPS 3030					DIM.:			SERIAL No.:		
MFR.: QINHAN LIGHTING					SUR.:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	24.8	26.3	25.1	26.5	26.7	24.3	25.8	24.6	26.0	26.2
3H	25.6	27.0	25.9	27.2	27.4	25.0	26.3	25.3	26.6	26.8
4H	25.7	27.0	26.0	27.2	27.5	25.0	26.3	25.3	26.5	26.8
6H	25.6	26.8	25.9	27.1	27.3	24.9	26.1	25.2	26.3	26.6
8H	25.6	26.7	25.9	27.0	27.3	24.8	26.0	25.2	26.3	26.6
12H	25.5	26.6	25.9	26.9	27.2	24.8	25.9	25.1	26.2	26.5
4H 2H	25.2	26.5	25.5	26.7	27.0	24.8	26.1	25.1	26.3	26.6
3H	26.1	27.2	26.5	27.5	27.8	25.6	26.7	26.0	27.0	27.3
4H	26.3	27.2	26.6	27.6	27.9	25.6	26.6	26.0	27.0	27.3
6H	26.2	27.1	26.6	27.4	27.8	25.6	26.4	26.0	26.8	27.1
8H	26.1	27.0	26.6	27.3	27.7	25.5	26.3	25.9	26.7	27.1
12H	26.1	26.8	26.5	27.2	27.6	25.5	26.2	25.9	26.6	27.0
8H 4H	26.2	27.1	26.7	27.4	27.8	25.7	26.5	26.1	26.8	27.2
6H	26.2	26.9	26.6	27.3	27.7	25.6	26.2	26.0	26.6	27.1
8H	26.2	26.8	26.6	27.2	27.6	25.5	26.1	26.0	26.5	27.0
12H	26.1	26.6	26.6	27.1	27.5	25.5	26.0	26.0	26.4	26.9
12H 4H	26.2	26.9	26.6	27.3	27.7	25.6	26.4	26.0	26.7	27.1
6H	26.2	26.7	26.6	27.2	27.6	25.5	26.1	26.0	26.5	27.0
8H	26.1	26.6	26.6	27.1	27.5	25.5	26.0	26.0	26.4	26.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.4 / - 0.5				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.7				
2.0H	+ 0.6 / - 0.6					+ 0.5 / - 0.7				

CIE Pub.117 Corrected 9208 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.7)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	69	62	78	68	61	76	69	61	54
1.25	86	76	70	85	76	69	82	74	69	62
1.50	91	82	76	89	81	75	87	79	74	67
2.00	98	90	84	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	96	90	86	78
3.00	104	98	94	102	97	92	99	94	90	82
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	103	108	104	101	103	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

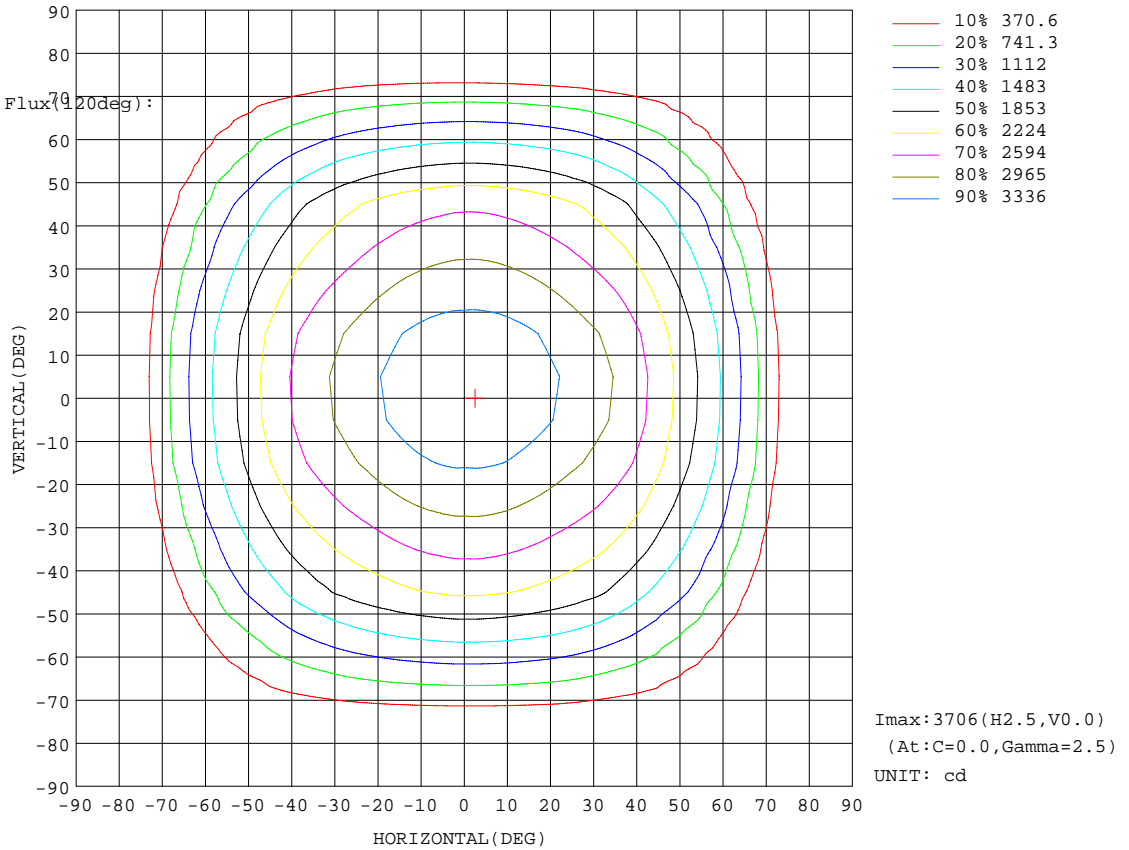
Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

5442.1 lm
%lum = 59.1%
%lamp = 59.1%

Conical surface Flux(70deg):

7902.9 lm
%lum = 85.8%
%lamp = 85.8%

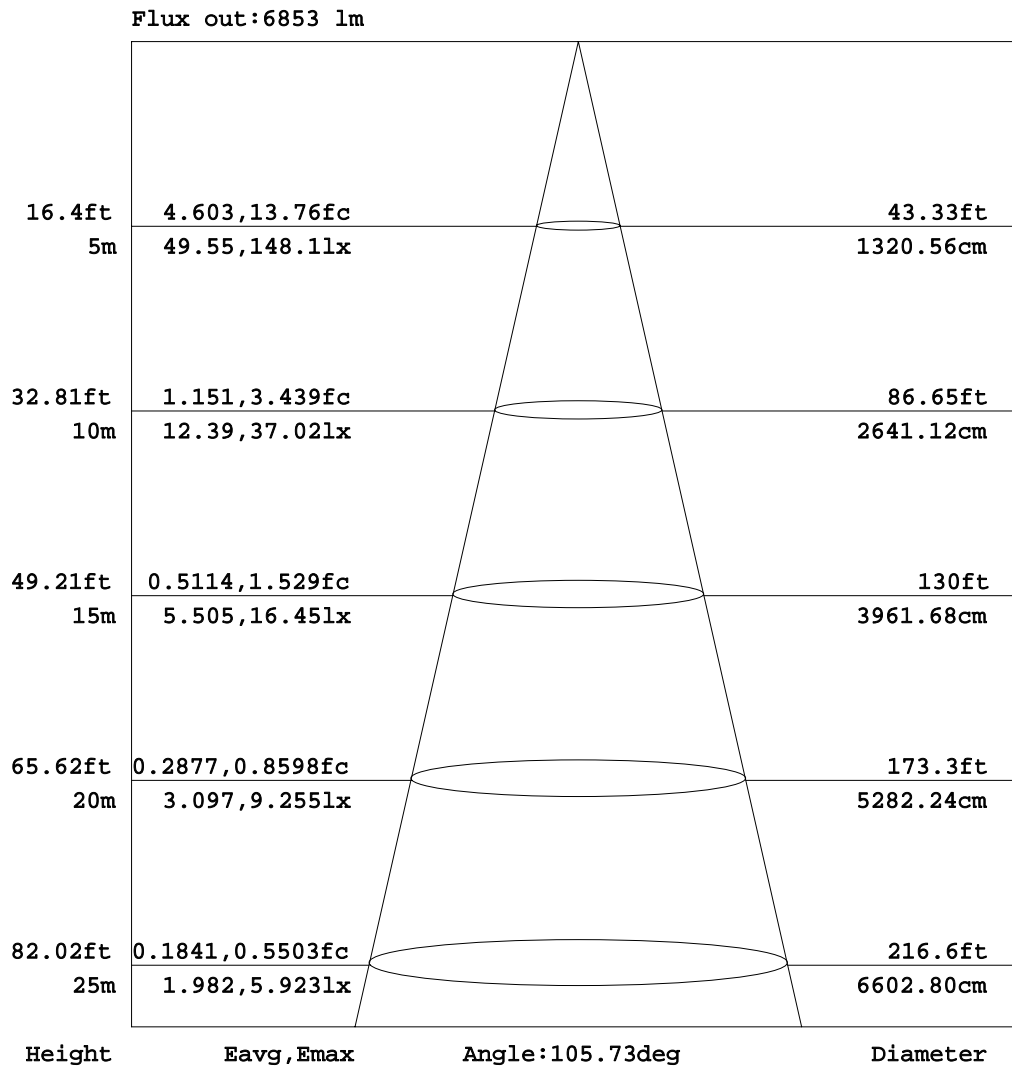


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-01-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



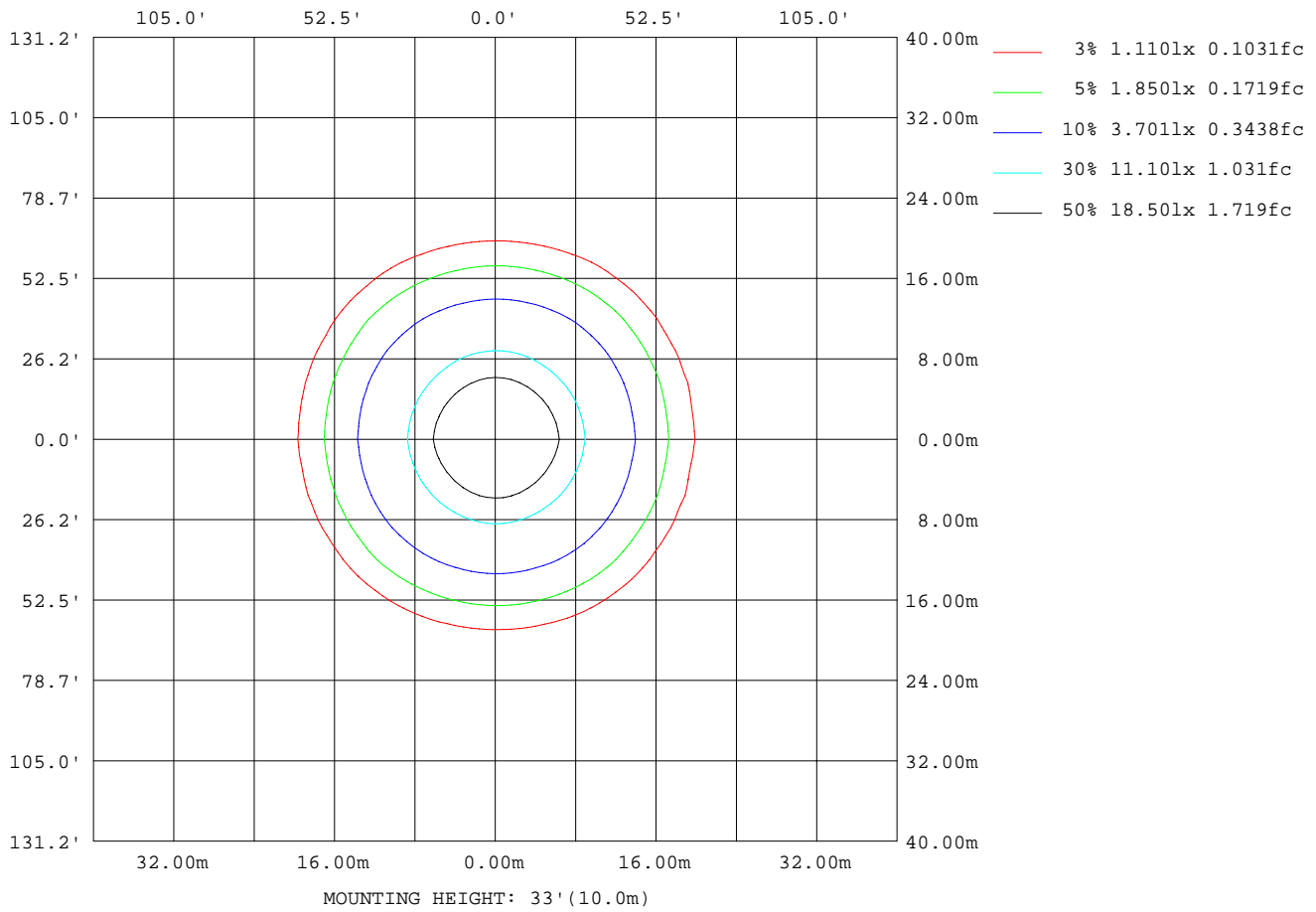
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

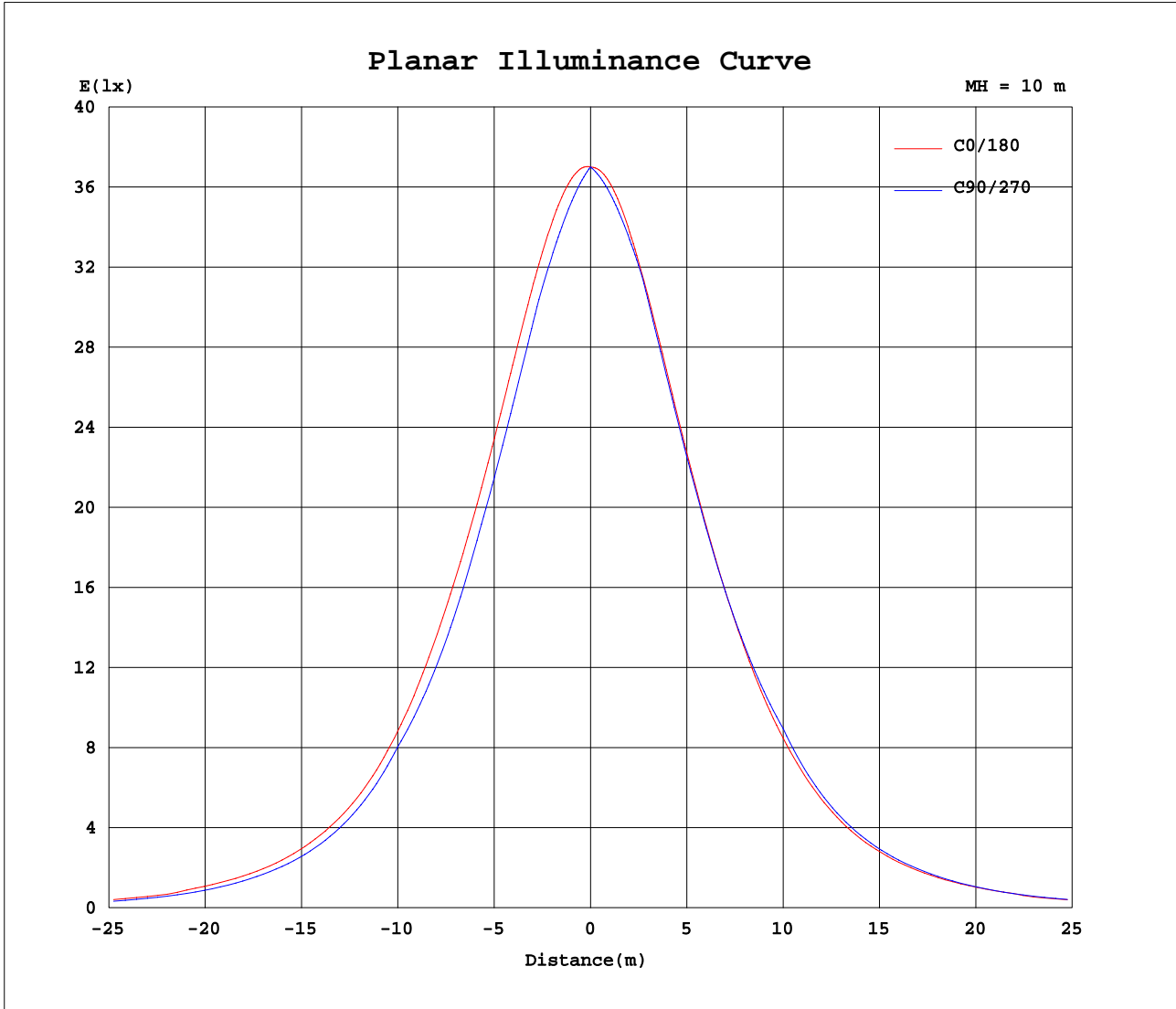
Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701
5	3699	3689	3680	3671	3662	3654	3646	3639	3632	3627	3621	3616	3611	3606	3602	3598	3595	3593	3591
10	3650	3631	3614	3597	3582	3569	3556	3545	3536	3527	3519	3513	3507	3502	3498	3493	3488	3484	3482
15	3567	3540	3514	3492	3471	3453	3439	3426	3417	3410	3404	3397	3393	3389	3386	3384	3380	3375	3372
20	3453	3418	3386	3359	3337	3317	3301	3288	3280	3274	3264	3255	3246	3237	3231	3226	3222	3216	3211
25	3315	3272	3235	3205	3181	3161	3148	3140	3117	3098	3084	3074	3068	3066	3063	3061	3060	3056	3051
30	3167	3119	3078	3045	3020	3001	2975	2946	2925	2910	2899	2892	2887	2888	2893	2895	2897	2896	2890
35	2999	2946	2903	2870	2849	2819	2784	2757	2735	2720	2709	2705	2698	2690	2690	2690	2692	2692	2686
40	2784	2728	2690	2667	2645	2606	2576	2556	2543	2526	2502	2486	2478	2476	2476	2478	2483	2486	2481
45	2496	2443	2414	2407	2376	2355	2344	2340	2311	2292	2273	2265	2261	2261	2264	2267	2273	2281	2277
50	2162	2112	2093	2080	2058	2060	2069	2045	2033	2036	2039	2039	2020	1991	1969	1954	1945	1942	1937
55	1826	1779	1772	1743	1731	1729	1718	1719	1732	1750	1732	1699	1672	1649	1628	1615	1607	1601	1596
60	1465	1428	1425	1401	1407	1386	1382	1394	1375	1370	1355	1340	1323	1307	1288	1276	1269	1260	1256
65	1030	993	1017	1017	1012	1016	1027	998	1004	1000	987	974	960	941	917	895	883	871	867
70	598	582	583	583	579	603	620	606	603	638	620	596	577	555	531	508	493	481	477
75	236	231	228	229	242	239	260	286	297	294	260	226	198	173	146	121	103	91.7	87.3
80	20.2	17.8	13.3	35.0	33.5	69.7	74.6	58.7	19.9	10.8	12.3	14.2	15.6	14.0	9.92	5.71	2.59	0.65	0.00
85	2.86	3.07	3.56	3.61	3.06	1.33	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	0.69	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

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
0	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	
5	3591	3593	3594	3597	3600	3603	3606	3610	3615	3620	3626	3632	3639	3647	3655	3664	3673	3682	3676	
10	3483	3485	3487	3488	3490	3492	3495	3499	3504	3511	3520	3529	3540	3552	3566	3581	3598	3616	3605	
15	3375	3375	3374	3372	3370	3370	3371	3375	3380	3385	3392	3401	3412	3426	3443	3463	3486	3511	3496	
20	3214	3213	3212	3210	3213	3219	3227	3236	3242	3243	3247	3252	3262	3277	3297	3321	3349	3382	3362	
25	3052	3047	3042	3041	3039	3040	3043	3048	3055	3067	3084	3086	3091	3107	3128	3154	3186	3226	3202	
30	2889	2884	2873	2867	2860	2855	2852	2851	2855	2861	2880	2904	2920	2933	2954	2982	3018	3063	3036	
35	2684	2674	2670	2664	2661	2658	2658	2653	2656	2663	2678	2699	2731	2754	2769	2793	2828	2874	2847	
40	2478	2465	2457	2448	2440	2434	2433	2440	2456	2463	2470	2486	2511	2545	2561	2578	2610	2658	2631	
45	2272	2256	2246	2234	2219	2213	2209	2209	2218	2228	2250	2253	2263	2286	2320	2323	2349	2398	2371	
50	1934	1929	1932	1939	1951	1972	1984	1976	1963	1963	1972	1990	1986	1987	2015	2023	2033	2076	2057	
55	1594	1591	1593	1600	1611	1628	1647	1670	1697	1682	1660	1658	1662	1657	1668	1692	1693	1728	1716	
60	1255	1254	1256	1263	1270	1286	1299	1312	1329	1333	1343	1328	1327	1341	1340	1364	1363	1393	1385	
65	867	871	881	896	912	932	944	953	967	967	965	991	998	969	997	989	1017	1042	1047	
70	479	486	499	517	540	562	580	602	621	602	593	606	587	575	583	579	583	590	615	
75	90.5	101	117	141	169	198	228	262	292	293	283	256	244	253	245	239	254	253	284	
80	0.65	2.54	5.51	9.48	13.7	17.1	19.5	21.0	18.8	25.2	60.8	77.3	71.6	43.7	41.9	30.8	34.4	39.3	46.0	
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	1.86	3.93	4.79	4.84	4.71	4.55	4.86
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	1.37	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701
5	3671	3666	3661	3657	3653	3650	3647	3644	3642	3641	3639	3638	3636	3635	3634	3633	3634	3635	3637
10	3595	3587	3580	3575	3571	3568	3566	3564	3564	3564	3564	3564	3566	3568	3567	3567	3567	3569	3573
15	3483	3472	3465	3461	3459	3459	3461	3464	3468	3474	3479	3484	3489	3493	3499	3500	3499	3503	3506
20	3346	3335	3328	3325	3327	3332	3340	3350	3352	3347	3344	3343	3343	3344	3346	3348	3348	3353	3357
25	3185	3174	3170	3171	3180	3190	3177	3170	3167	3167	3169	3173	3179	3184	3189	3195	3196	3202	3203
30	3018	3007	3005	3010	3004	2988	2978	2976	2977	2982	2991	3000	3011	3023	3031	3040	3044	3049	3048
35	2833	2830	2832	2823	2800	2786	2779	2780	2785	2796	2806	2820	2832	2845	2856	2868	2873	2877	2876
40	2621	2625	2626	2602	2591	2583	2581	2583	2587	2597	2613	2633	2650	2665	2680	2694	2703	2705	2701
45	2369	2390	2369	2360	2360	2368	2364	2365	2378	2397	2421	2444	2468	2487	2504	2521	2532	2533	2526
50	2069	2082	2071	2082	2104	2105	2114	2136	2164	2190	2196	2182	2173	2166	2164	2168	2174	2179	2183
55	1740	1734	1739	1768	1775	1804	1849	1881	1863	1851	1832	1823	1814	1810	1809	1812	1817	1821	1825
60	1406	1399	1417	1421	1445	1483	1492	1492	1481	1480	1471	1464	1456	1454	1455	1456	1460	1463	1468
65	1033	1068	1046	1093	1103	1101	1104	1107	1103	1111	1099	1083	1066	1056	1049	1045	1045	1048	1056
70	611	642	685	678	690	695	742	733	718	711	700	682	663	649	639	633	631	632	638
75	284	297	311	321	340	372	386	367	343	322	306	283	262	244	230	221	217	217	221
80	48.9	58.1	74.0	101	99.7	88.6	55.4	50.1	53.9	51.9	45.9	35.1	24.1	14.1	6.43	1.62	0.00	1.59	6.11
85	4.84	5.03	4.58	2.33	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

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.3740A P:79.60W PF:0.9640 Lamp Flux:9207.63x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:2.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701	3701				
5	3640	3642	3645	3648	3650	3653	3656	3660	3663	3667	3672	3677	3682	3687	3693				
10	3575	3577	3578	3580	3583	3585	3588	3592	3596	3600	3606	3612	3620	3629	3639				
15	3506	3506	3506	3506	3505	3504	3504	3501	3503	3506	3510	3518	3527	3538	3551				
20	3361	3366	3373	3380	3386	3398	3401	3396	3392	3390	3391	3395	3403	3415	3432				
25	3205	3207	3208	3210	3215	3221	3231	3244	3258	3251	3248	3251	3258	3271	3290				
30	3046	3041	3038	3036	3035	3038	3042	3052	3067	3090	3099	3099	3105	3118	3139				
35	2870	2863	2859	2855	2854	2852	2856	2860	2874	2896	2926	2941	2941	2950	2969				
40	2691	2682	2672	2663	2657	2657	2662	2666	2676	2689	2711	2740	2741	2738	2752				
45	2513	2500	2485	2470	2457	2446	2440	2446	2461	2457	2456	2465	2482	2465	2468				
50	2191	2203	2221	2243	2245	2223	2200	2186	2178	2185	2160	2146	2154	2145	2137				
55	1833	1843	1858	1876	1901	1914	1933	1894	1854	1835	1830	1814	1808	1819	1802				
60	1476	1482	1496	1508	1515	1519	1533	1522	1531	1497	1480	1487	1462	1466	1449				
65	1067	1082	1103	1124	1130	1137	1137	1139	1116	1136	1130	1081	1112	1060	1020				
70	649	663	685	706	717	738	753	765	719	711	677	635	647	622	597				
75	230	245	268	290	313	341	370	366	368	328	301	293	269	249	244				
80	13.0	21.6	31.0	38.0	42.7	44.6	42.8	45.8	78.8	97.7	89.2	58.3	42.8	29.4	25.1				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.94	3.28	3.13	2.94			
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				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-01-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: