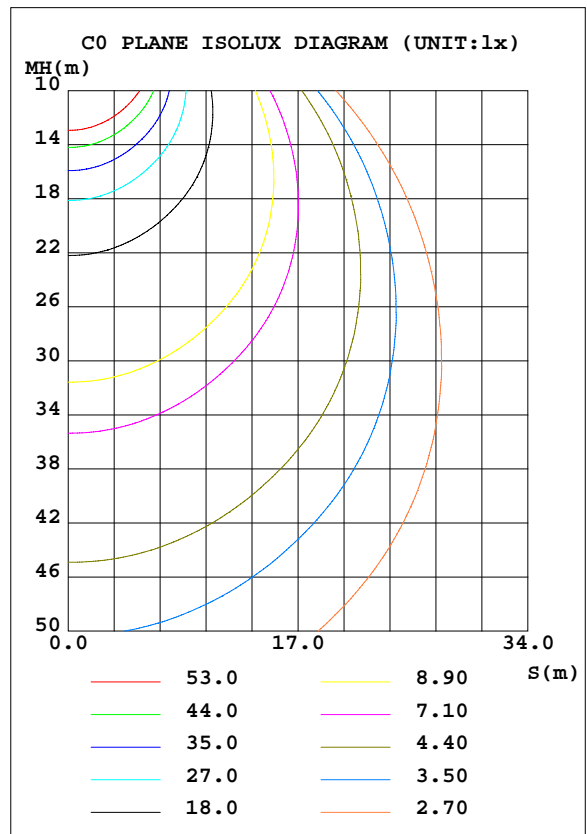
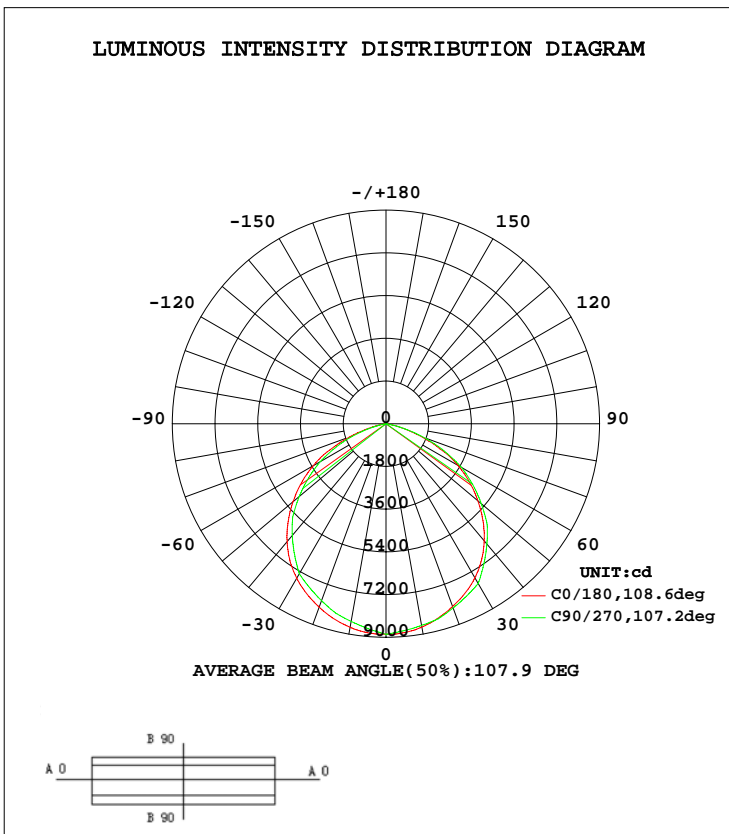


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.80 lm/W			
MODEL	QH-FLTG-200W	Imax(cd)	8872	S/MH(C0/180)	1.26
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	22752	$\eta$ UP, DN(C0-180)	0.0, 51.3
NOMINAL FLUX(lm)	22752.1	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	0.0, 48.7
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	$\eta$ 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:2016-01-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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	8837	8772	8751	8774	8838	8714	8665	8712	0- 5	210.3	210.3	0.92,0.92
10	8700	8619	8630	8628	8709	8509	8458	8500	5- 10	619.8	830.1	3.65,3.65
15	8482	8415	8509	8436	8506	8260	8252	8241	10- 15	1005	1836	8.07,8.07
20	8198	8184	8264	8219	8228	7989	7936	7960	15- 20	1357	3193	14,14
25	7878	7840	8019	7876	7907	7610	7620	7574	20- 25	1663	4856	21.3,21.3
30	7495	7460	7774	7491	7520	7190	7304	7155	25- 30	1921	6777	29.8,29.8
35	7018	7076	7195	7088	7053	6761	6723	6732	30- 35	2114	8891	39.1,39.1
40	6439	6618	6615	6620	6481	6270	6142	6242	35- 40	2222	11113	48.8,48.8
45	5778	5920	6035	5943	5833	5606	5561	5580	40- 45	2246	13359	58.7,58.7
50	5058	5190	5244	5230	5117	4911	4771	4881	45- 50	2183	15543	68.3,68.3
55	4304	4444	4453	4507	4349	4192	3982	4168	50- 55	2023	17566	77.2,77.2
60	3492	3548	3662	3598	3540	3311	3193	3295	55- 60	1783	19348	85,85
65	2512	2682	2691	2709	2616	2447	2309	2448	60- 65	1464	20812	91.5,91.5
70	1589	1819	1719	1827	1646	1619	1424	1627	65- 70	1060	21872	96.1,96.1
75	740.8	945.3	747.0	956.0	771.4	827.7	539.6	832.4	70- 75	623.9	22496	98.9,98.9
80	166.4	188.2	0	192.4	197.6	143.4	0	146.3	75- 80	233.0	22729	99.9,99.9
85	3.451	0	0	0	4.102	0	0	0	80- 85	23.01	22752	100,100
90	1.603	0	0	0	3.158	0	0	0	85- 90	0.2977	22752	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			

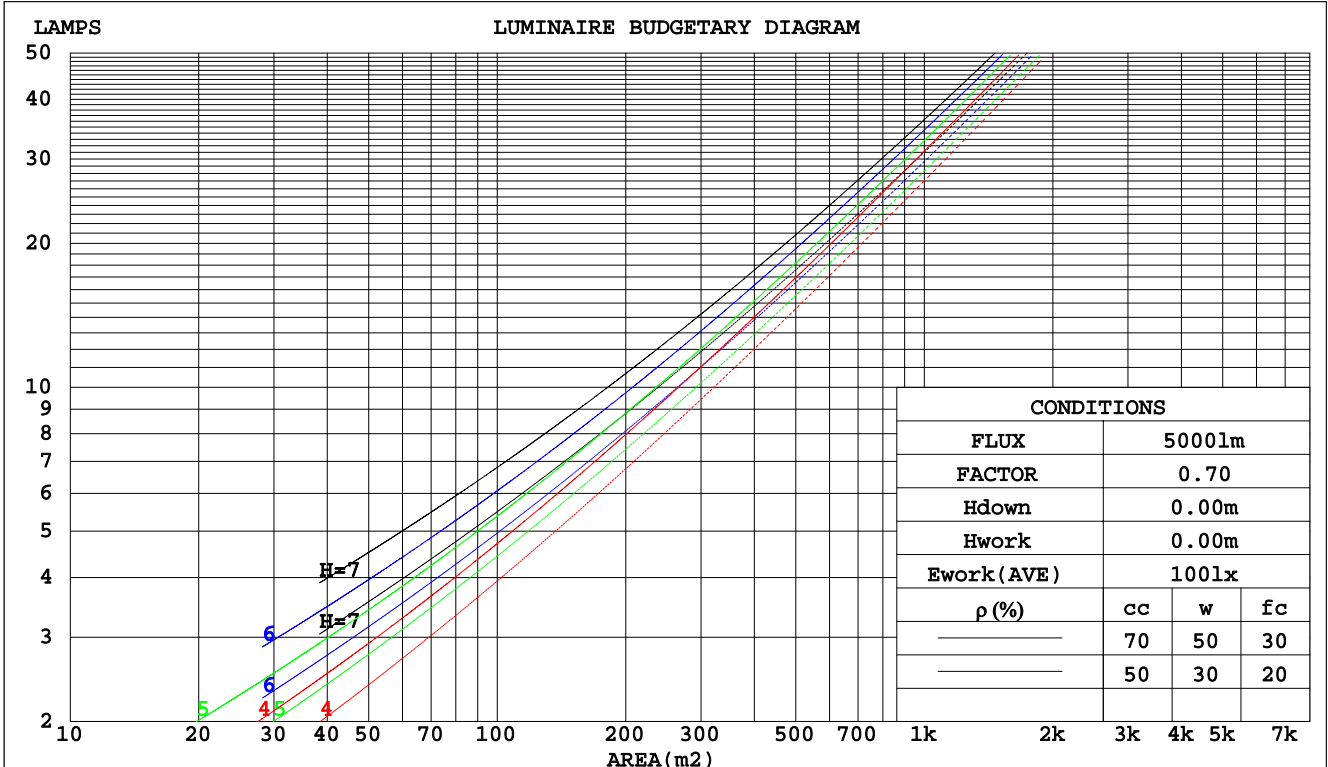
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	.99	.97	.94	.96	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.85	.81	.77	.82	.78	.75	.73
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.64	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.63	.57	.67	.61	.56	.65	.60	.56	.54
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.44	.39	.34	.32
9.0	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.28	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	.272	.155	.049	.265	.151	.048	.252	.144	.046	.240	.138	.044	.229	.133	.043	
2.0	.266	.146	.045	.260	.143	.044	.248	.138	.043	.238	.133	.042	.228	.129	.041	
3.0	.251	.134	.040	.246	.132	.040	.236	.128	.039	.226	.124	.038	.218	.121	.037	
4.0	.235	.122	.036	.231	.121	.036	.222	.118	.035	.213	.115	.035	.206	.112	.034	
5.0	.220	.112	.032	.216	.111	.032	.208	.108	.032	.200	.106	.031	.193	.103	.031	
6.0	.205	.103	.029	.202	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.192	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026	
8.0	.180	.088	.025	.177	.087	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.144	.073	.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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.087	.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	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.115	.060	.023	.100	.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:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm										
NAME: LED FLOOD LIGHT					TYPE:IP65			WEIGHT:4		
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	28.0	29.4	28.2	29.6	29.8	28.2	29.6	28.5	29.8	30.0
3H	28.9	30.2	29.2	30.4	30.7	29.2	30.5	29.5	30.8	31.0
4H	29.0	30.3	29.3	30.5	30.8	29.3	30.6	29.7	30.9	31.1
6H	29.0	30.2	29.3	30.4	30.7	29.3	30.5	29.6	30.7	31.0
8H	28.9	30.1	29.3	30.3	30.6	29.2	30.4	29.6	30.7	31.0
12H	28.9	30.0	29.2	30.3	30.6	29.2	30.3	29.5	30.6	30.9
4H 2H	28.5	29.7	28.8	30.0	30.2	28.7	29.9	29.0	30.2	30.4
3H	29.5	30.6	29.9	30.9	31.2	29.8	30.9	30.2	31.2	31.5
4H	29.7	30.7	30.1	31.0	31.4	30.0	31.0	30.4	31.3	31.7
6H	29.7	30.6	30.1	30.9	31.3	30.0	30.9	30.4	31.2	31.6
8H	29.7	30.5	30.1	30.8	31.2	29.9	30.8	30.3	31.1	31.5
12H	29.6	30.4	30.0	30.7	31.2	29.9	30.6	30.3	31.0	31.4
8H 4H	29.8	30.6	30.2	31.0	31.3	30.1	30.9	30.5	31.2	31.6
6H	29.8	30.5	30.2	30.9	31.3	30.0	30.7	30.5	31.1	31.5
8H	29.8	30.4	30.2	30.8	31.2	30.0	30.6	30.5	31.0	31.5
12H	29.7	30.2	30.2	30.7	31.2	30.0	30.5	30.4	30.9	31.4
12H 4H	29.7	30.5	30.2	30.9	31.3	30.0	30.8	30.4	31.1	31.6
6H	29.8	30.4	30.2	30.8	31.2	30.0	30.6	30.5	31.0	31.5
8H	29.7	30.2	30.2	30.7	31.2	30.0	30.5	30.4	30.9	31.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				

CIE Pub.117 Corrected 22752 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.9)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	41	58	48	41	35
0.80	70	59	52	69	58	52	67	58	51	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	67
2.00	97	90	84	96	89	83	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	97	92	98	94	90	82
4.00	108	103	99	106	101	97	102	98	95	86
5.00	110	106	102	108	104	101	103	100	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:2016-01-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

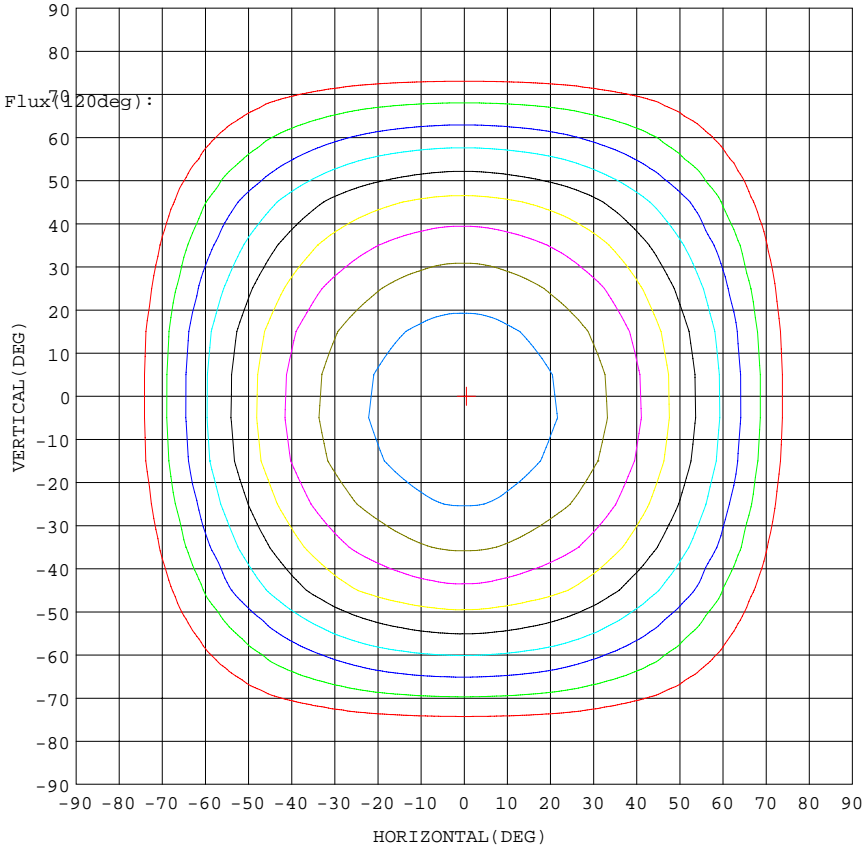
Test:U:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

13359 lm  
 %lum = 58.7%  
 %lamp = 58.7%

Conical surface Flux(70deg):

19348 lm  
 %lum = 85.0%  
 %lamp = 85.0%



- 10% 887.2
- 20% 1774
- 30% 2662
- 40% 3549
- 50% 4436
- 60% 5323
- 70% 6210
- 80% 7098
- 90% 7985

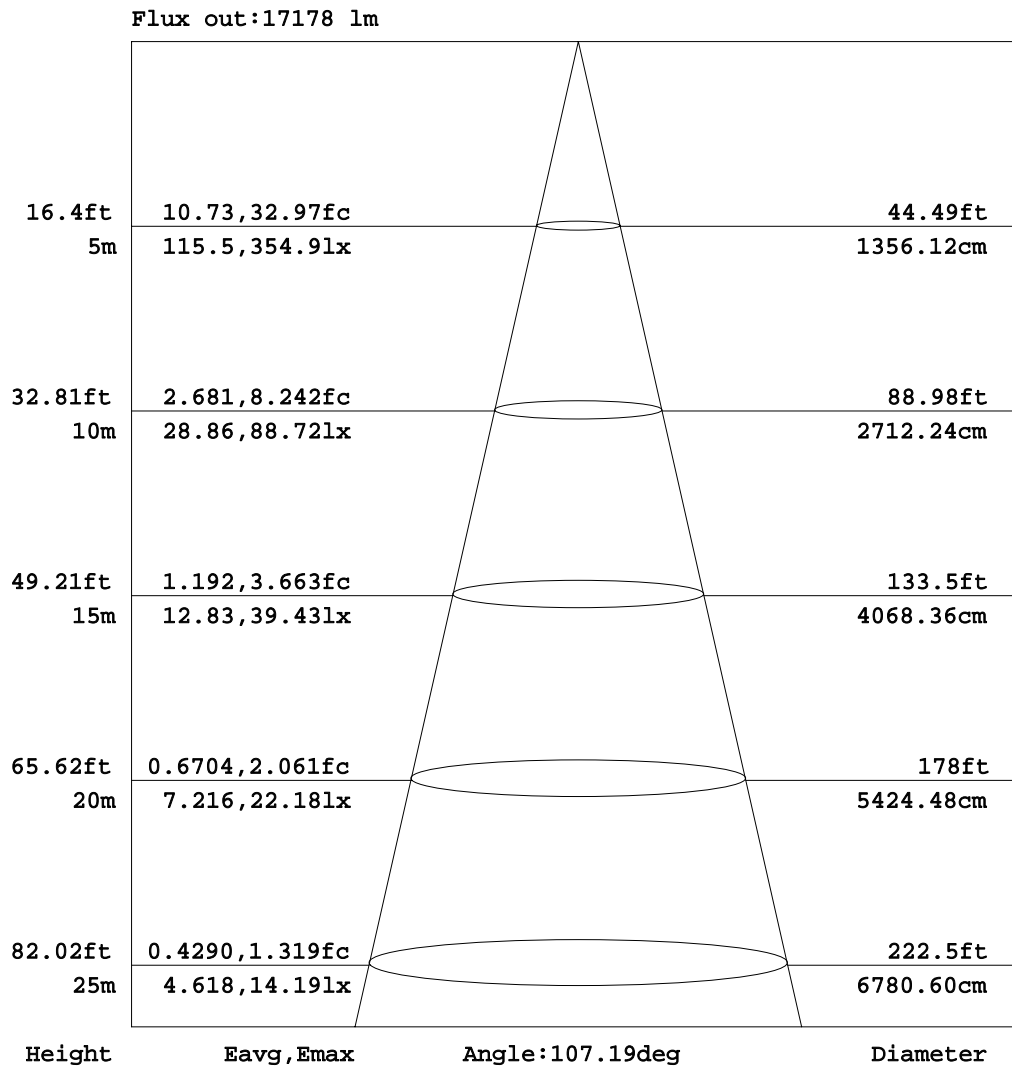
I<sub>max</sub>:8872(H0.5,V0.0)  
 (At:C=0.0,Gamma=0.5)  
 UNIT: cd

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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.

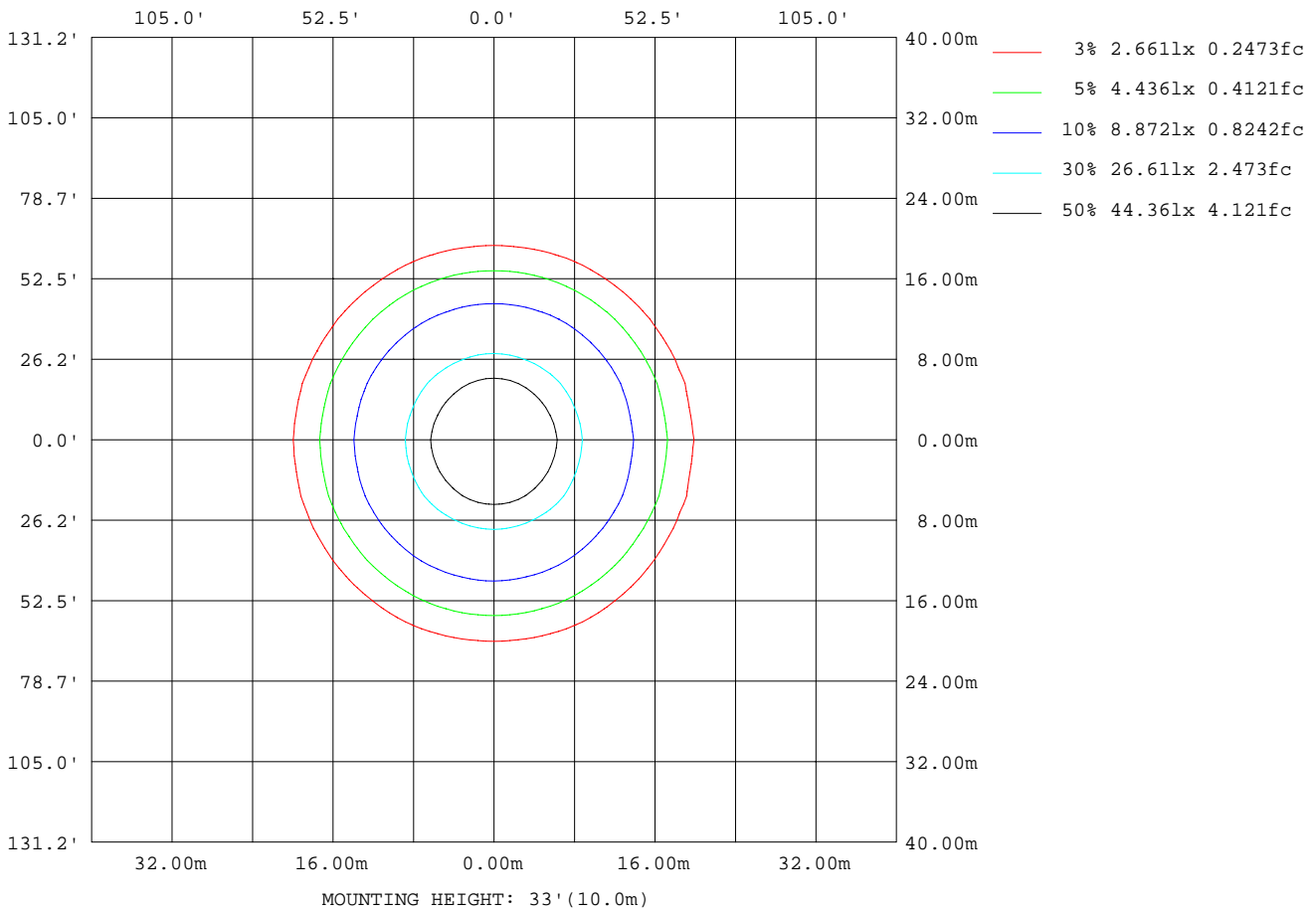
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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

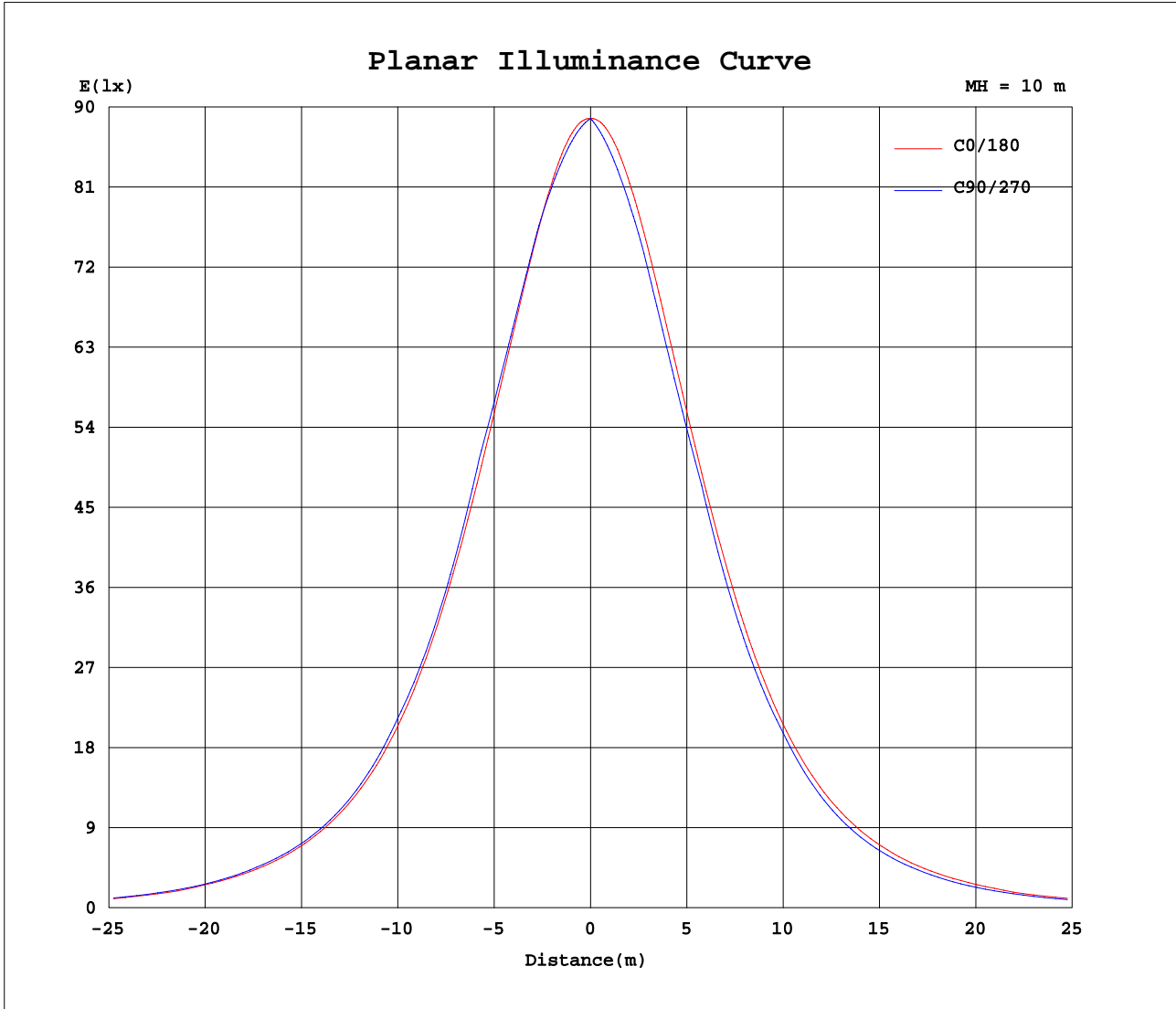
Test:U:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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: 2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872
5	8837	8826	8817	8808	8800	8792	8786	8781	8776	8772	8768	8765	8762	8759	8756	8754	8752	8751	8751
10	8700	8680	8663	8648	8638	8630	8625	8622	8620	8619	8620	8622	8624	8627	8629	8631	8631	8630	8630
15	8482	8453	8430	8414	8402	8396	8395	8397	8404	8415	8430	8449	8464	8477	8489	8499	8506	8508	8509
20	8198	8161	8135	8118	8111	8111	8119	8135	8157	8184	8198	8202	8214	8231	8243	8253	8261	8264	8264
25	7878	7834	7805	7790	7786	7792	7810	7837	7835	7840	7854	7877	7902	7931	7965	7989	8008	8019	8019
30	7495	7445	7417	7411	7424	7449	7458	7446	7447	7460	7490	7529	7576	7625	7674	7721	7752	7773	7774
35	7018	6963	6939	6948	6983	6998	6990	7008	7039	7076	7117	7170	7162	7158	7162	7174	7188	7197	7195
40	6439	6381	6367	6392	6430	6428	6456	6510	6576	6618	6583	6554	6543	6540	6554	6572	6595	6614	6615
45	5778	5718	5715	5767	5766	5795	5860	5950	5932	5920	5918	5925	5927	5936	5946	5972	5998	6032	6035
50	5058	4996	5005	5033	5046	5110	5185	5161	5164	5190	5233	5276	5270	5247	5218	5219	5222	5241	5244
55	4304	4242	4277	4272	4312	4371	4341	4352	4383	4444	4440	4439	4442	4441	4431	4430	4434	4447	4453
60	3492	3439	3472	3473	3546	3507	3518	3561	3551	3548	3558	3584	3606	3633	3642	3644	3649	3654	3662
65	2512	2491	2534	2580	2600	2616	2649	2631	2663	2682	2707	2731	2735	2743	2730	2708	2696	2688	2691
70	1589	1568	1561	1576	1615	1661	1696	1713	1763	1819	1811	1796	1794	1791	1770	1746	1730	1719	1719
75	741	717	739	747	777	798	846	905	933	945	921	892	868	850	816	788	765	751	747
80	166	160	165	188	216	267	271	243	186	188	190	181	153	120	81.2	47.8	21.8	5.54	0.00
85	3.45	4.01	5.29	14.5	5.09	2.62	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	1.60	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:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872
5	8751	8752	8754	8757	8760	8763	8767	8770	8774	8778	8783	8789	8795	8802	8810	8819	8828	8838	8821
10	8630	8632	8634	8634	8632	8630	8628	8628	8628	8629	8631	8635	8641	8649	8659	8673	8690	8709	8675
15	8510	8511	8506	8497	8488	8477	8463	8448	8436	8427	8421	8420	8422	8428	8439	8456	8478	8506	8457
20	8266	8266	8259	8252	8243	8231	8227	8228	8219	8196	8175	8158	8149	8147	8153	8169	8194	8228	8166
25	8020	8011	7993	7970	7943	7920	7900	7887	7876	7878	7888	7857	7835	7826	7827	7840	7866	7907	7834
30	7772	7752	7719	7676	7632	7588	7549	7513	7491	7480	7486	7504	7497	7468	7452	7455	7477	7520	7440
35	7199	7190	7179	7172	7166	7173	7177	7129	7088	7057	7037	7032	7049	7042	7006	6994	7008	7053	6968
40	6619	6602	6587	6572	6562	6558	6568	6592	6620	6587	6535	6499	6487	6508	6470	6433	6436	6481	6397
45	6039	6013	5998	5972	5962	5950	5948	5940	5943	5952	5970	5896	5849	5842	5868	5796	5785	5833	5747
50	5247	5236	5242	5245	5272	5303	5316	5280	5230	5207	5201	5210	5154	5113	5135	5102	5072	5117	5036
55	4451	4445	4446	4449	4458	4466	4475	4486	4507	4450	4404	4389	4411	4362	4350	4370	4314	4349	4282
60	3655	3656	3650	3649	3641	3622	3610	3594	3598	3606	3632	3578	3557	3579	3535	3558	3512	3540	3486
65	2688	2701	2711	2733	2745	2740	2739	2723	2709	2700	2681	2716	2698	2641	2669	2621	2586	2616	2577
70	1719	1732	1746	1771	1791	1796	1802	1820	1827	1780	1740	1732	1704	1669	1650	1632	1642	1646	1635
75	751	764	785	815	849	868	895	928	956	943	914	859	815	820	788	778	780	771	778
80	5.54	21.8	47.6	81.2	120	154	181	193	192	194	250	278	275	225	214	191	194	198	194
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	3.23	5.13	17.5	5.74	4.91	4.10	4.05
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	3.16	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872
5	8804	8788	8773	8759	8746	8734	8723	8714	8705	8696	8689	8682	8676	8671	8668	8666	8665	8666	8668
10	8644	8617	8592	8570	8551	8535	8521	8509	8498	8489	8482	8478	8473	8469	8463	8460	8458	8460	8463
15	8414	8377	8345	8319	8298	8280	8268	8260	8257	8258	8258	8257	8257	8259	8258	8254	8252	8253	8255
20	8114	8072	8039	8015	7999	7991	7989	7989	7980	7962	7953	7950	7948	7946	7945	7940	7936	7938	7939
25	7775	7730	7697	7674	7663	7664	7631	7610	7599	7592	7592	7593	7606	7617	7624	7624	7620	7621	7616
30	7381	7340	7318	7311	7285	7240	7208	7190	7189	7200	7216	7235	7251	7280	7300	7308	7304	7303	7289
35	6914	6886	6881	6853	6802	6771	6760	6761	6770	6790	6768	6748	6732	6729	6732	6730	6723	6724	6719
40	6355	6349	6341	6286	6266	6262	6274	6270	6222	6180	6152	6139	6134	6133	6145	6147	6142	6138	6127
45	5719	5744	5686	5658	5662	5693	5647	5606	5574	5557	5541	5532	5533	5542	5556	5563	5561	5552	5536
50	5025	5020	4972	4972	4986	4944	4914	4911	4918	4923	4893	4843	4807	4788	4780	4778	4771	4769	4766
55	4303	4246	4230	4235	4187	4166	4175	4192	4149	4106	4072	4040	4011	3994	3989	3988	3982	3982	3981
60	3498	3448	3457	3395	3382	3399	3350	3311	3282	3261	3246	3234	3217	3204	3199	3199	3193	3194	3196
65	2581	2612	2535	2558	2539	2479	2470	2447	2432	2419	2408	2391	2365	2341	2324	2315	2309	2311	2323
70	1610	1606	1587	1599	1604	1584	1614	1619	1596	1572	1549	1524	1492	1463	1442	1429	1424	1428	1443
75	767	762	774	759	772	821	831	828	789	744	701	667	624	588	561	544	540	545	564
80	190	202	209	250	251	212	150	143	145	135	112	87.6	59.2	34.6	15.8	4.00	0.00	4.01	15.9
85	3.99	15.3	3.30	2.14	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:2016-01-29

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:220.1V I:0.9110A P:194.8W PF:0.9710 Lamp Flux:22752.1x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:4
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	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872	8872				
5	8672	8676	8681	8688	8695	8703	8712	8722	8732	8744	8757	8771	8786	8802	8819				
10	8467	8470	8474	8478	8484	8491	8500	8512	8526	8541	8559	8581	8606	8634	8665				
15	8254	8250	8248	8246	8243	8240	8241	8247	8259	8275	8296	8321	8353	8389	8433				
20	7937	7936	7934	7931	7938	7954	7960	7955	7956	7966	7983	8007	8040	8082	8135				
25	7604	7588	7571	7566	7562	7563	7574	7593	7623	7626	7638	7663	7697	7743	7803				
30	7264	7230	7209	7186	7167	7154	7155	7173	7202	7245	7271	7280	7304	7346	7410				
35	6708	6707	6719	6738	6759	6741	6732	6728	6735	6761	6808	6831	6836	6866	6926				
40	6114	6110	6113	6126	6157	6197	6242	6245	6228	6218	6233	6278	6281	6295	6345				
45	5522	5511	5513	5521	5539	5550	5580	5618	5659	5620	5599	5615	5658	5646	5684				
50	4772	4792	4828	4881	4906	4894	4881	4886	4906	4947	4925	4904	4932	4942	4965				
55	3986	4004	4030	4063	4092	4121	4168	4142	4131	4150	4199	4173	4179	4219	4215				
60	3203	3215	3227	3239	3250	3269	3295	3328	3382	3359	3370	3424	3385	3421	3415				
65	2341	2366	2389	2399	2413	2430	2448	2466	2473	2530	2523	2517	2516	2495	2473				
70	1464	1494	1525	1541	1569	1602	1627	1586	1583	1605	1598	1579	1550	1540	1555				
75	590	625	667	698	741	786	832	838	825	775	756	766	745	744	719				
80	34.7	59.3	87.5	112	133	144	146	155	213	249	252	219	196	174	169				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	3.24	14.6	3.73	3.54				
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:2016-01-29

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: