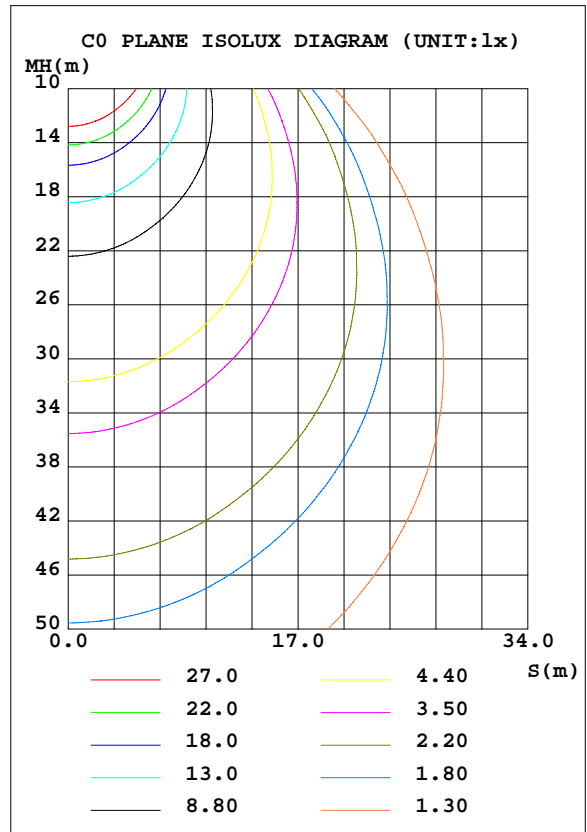
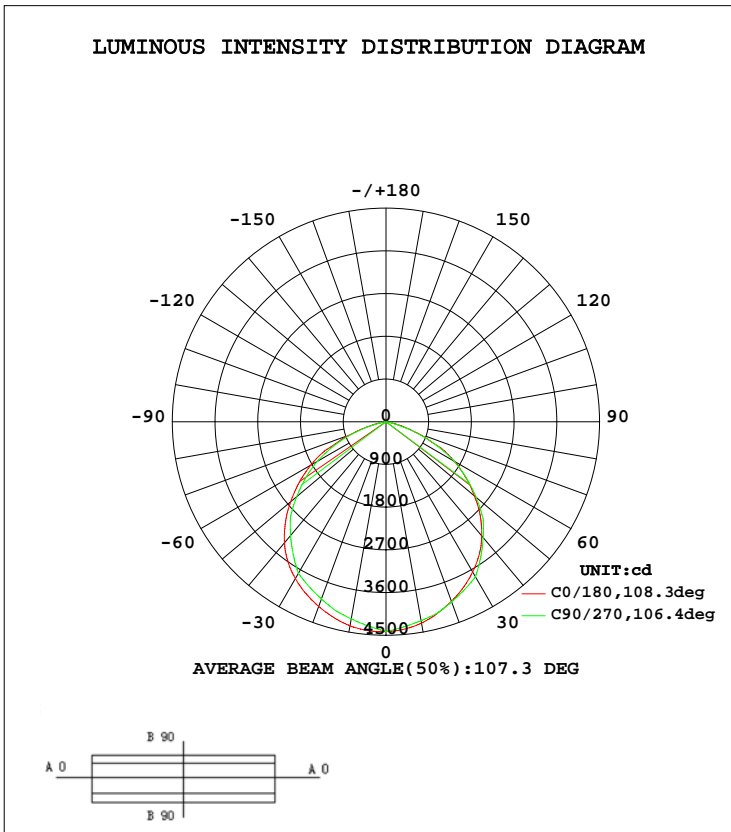


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.35 lm/W			
MODEL	QH-FLTG-100W	Imax(cd)	4423	S/MH(C0/180)	1.28
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11245	$\eta$ UP, DN(C0-180)	0.0, 49.9
NOMINAL FLUX(lm)	11245	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	0.0, 50.1
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	4387	4344	4337	4364	4415	4351	4318	4331	0- 5	104.6	104.6	0.93,0.93
10	4307	4242	4256	4284	4364	4259	4217	4217	5- 10	308.0	412.6	3.67,3.67
15	4182	4121	4174	4183	4267	4147	4116	4083	10- 15	498.9	911.6	8.11,8.11
20	4028	3982	4040	4061	4142	4017	3974	3933	15- 20	672.2	1584	14.1,14.1
25	3853	3794	3906	3893	3994	3839	3832	3739	20- 25	823.3	2407	21.4,21.4
30	3653	3594	3772	3707	3817	3650	3690	3538	25- 30	950.6	3358	29.9,29.9
35	3423	3383	3479	3518	3601	3452	3409	3332	30- 35	1047	4405	39.2,39.2
40	3141	3146	3186	3297	3328	3230	3128	3104	35- 40	1103	5508	49,49
45	2811	2816	2894	2964	2998	2921	2847	2791	40- 45	1118	6626	58.9,58.9
50	2434	2468	2480	2611	2624	2592	2457	2457	45- 50	1088	7714	68.6,68.6
55	2060	2100	2067	2230	2233	2242	2067	2110	50- 55	1006	8720	77.5,77.5
60	1662	1643	1654	1757	1829	1793	1677	1677	55- 60	883.4	9603	85.4,85.4
65	1199	1205	1169	1298	1376	1353	1222	1260	60- 65	722.5	10326	91.8,91.8
70	714.1	783.5	684.2	846.9	841.8	910.7	767.3	848.8	65- 70	515.5	10841	96.4,96.4
75	316.9	376.5	199.5	408.4	386.8	466.6	312.6	434.1	70- 75	293.5	11135	99,99
80	59.55	40.36	0	40.23	70.51	79.91	0	77.50	75- 80	101.5	11236	99.9,99.9
85	2.677	0	0	0	3.170	0	0	0	80- 85	8.757	11245	100,100
90	1.068	0	0	0	1.850	0	0	0	85- 90	0.1897	11245	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		

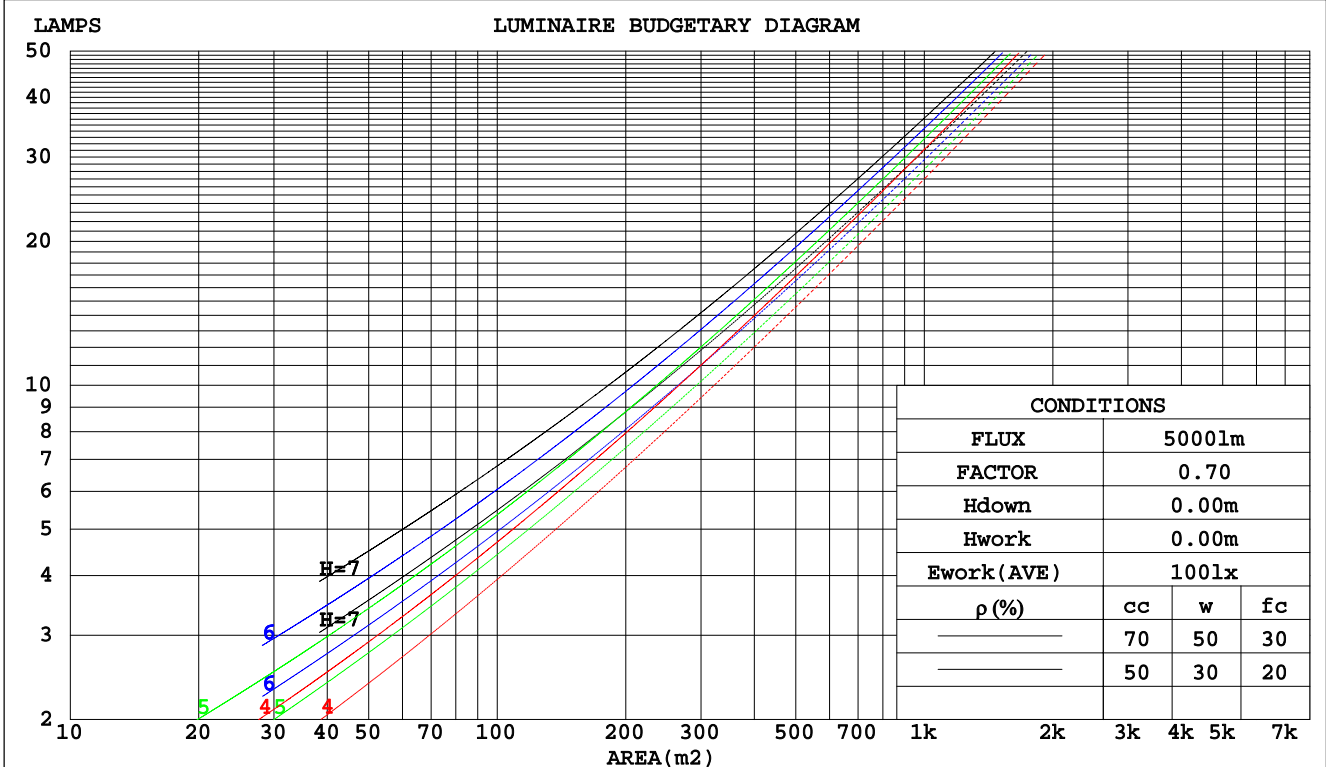
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
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	.93	.91	.92	.90	.89	.87
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.85	.81	.77	.82	.78	.76	.73
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.65	.63
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.57	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.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	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.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	.29	.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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
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	.270	.154	.049	.263	.150	.048	.250	.143	.046	.238	.137	.044	.227	.132	.042	
2.0	.264	.145	.044	.258	.142	.044	.247	.137	.043	.236	.133	.041	.227	.128	.040	
3.0	.250	.133	.040	.245	.131	.039	.235	.127	.039	.226	.124	.038	.217	.120	.037	
4.0	.235	.122	.036	.230	.120	.036	.221	.117	.035	.213	.114	.034	.205	.111	.034	
5.0	.219	.112	.032	.215	.110	.032	.207	.108	.032	.200	.105	.031	.193	.103	.031	
6.0	.205	.103	.029	.201	.102	.029	.194	.100	.029	.188	.097	.029	.181	.095	.028	
7.0	.192	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.171	.089	.026	
8.0	.180	.088	.025	.177	.087	.025	.172	.086	.024	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.152	.077	.022	
10.0	.160	.077	.021	.157	.076	.021	.153	.075	.021	.148	.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	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.169	.132	.101	.144	.114	.088	.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	.053	.090	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.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:2016-01-29

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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm										
NAME: LED FLOOD LIGHT					TYPE:IP65			WEIGHT:3		
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	25.2	26.7	25.5	26.9	27.1	25.3	26.7	25.5	26.9	27.1
3H	26.0	27.4	26.3	27.6	27.8	26.1	27.4	26.4	27.7	27.9
4H	26.1	27.4	26.4	27.6	27.9	26.1	27.4	26.4	27.6	27.9
6H	26.1	27.2	26.4	27.5	27.8	26.0	27.2	26.4	27.5	27.8
8H	26.0	27.1	26.3	27.4	27.7	26.0	27.1	26.3	27.4	27.7
12H	26.0	27.0	26.3	27.3	27.6	25.9	27.0	26.3	27.3	27.6
4H 2H	25.7	26.9	26.0	27.2	27.4	25.7	27.0	26.0	27.2	27.5
3H	26.6	27.7	26.9	28.0	28.3	26.7	27.8	27.0	28.0	28.3
4H	26.7	27.7	27.1	28.0	28.4	26.7	27.7	27.1	28.0	28.4
6H	26.7	27.6	27.1	27.9	28.3	26.7	27.5	27.1	27.9	28.3
8H	26.6	27.5	27.1	27.8	28.2	26.6	27.4	27.0	27.8	28.2
12H	26.6	27.3	27.0	27.7	28.1	26.6	27.3	27.0	27.7	28.1
8H 4H	26.7	27.6	27.2	27.9	28.3	26.7	27.6	27.2	27.9	28.3
6H	26.7	27.4	27.2	27.8	28.2	26.7	27.3	27.1	27.8	28.2
8H	26.7	27.3	27.2	27.7	28.2	26.6	27.2	27.1	27.7	28.1
12H	26.7	27.2	27.1	27.6	28.1	26.6	27.1	27.1	27.6	28.0
12H 4H	26.7	27.4	27.1	27.8	28.2	26.7	27.4	27.1	27.8	28.2
6H	26.7	27.3	27.2	27.7	28.2	26.6	27.2	27.1	27.7	28.1
8H	26.7	27.2	27.1	27.6	28.1	26.6	27.1	27.1	27.6	28.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.5					+ 0.3 / - 0.6				
2.0H	+ 0.5 / - 0.5					+ 0.6 / - 0.5				

CIE Pub.117 Corrected 11245 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.4)

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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
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	68	62	78	68	61	76	69	61	54
1.25	86	76	70	85	76	69	82	74	68	62
1.50	91	82	75	89	81	75	86	79	74	67
2.00	98	90	84	96	89	83	92	87	82	74
2.50	101	94	89	99	93	88	96	90	86	78
3.00	104	98	93	102	97	92	98	94	90	82
4.00	108	103	99	106	101	98	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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

6626.3 lm

%lum = 58.9%

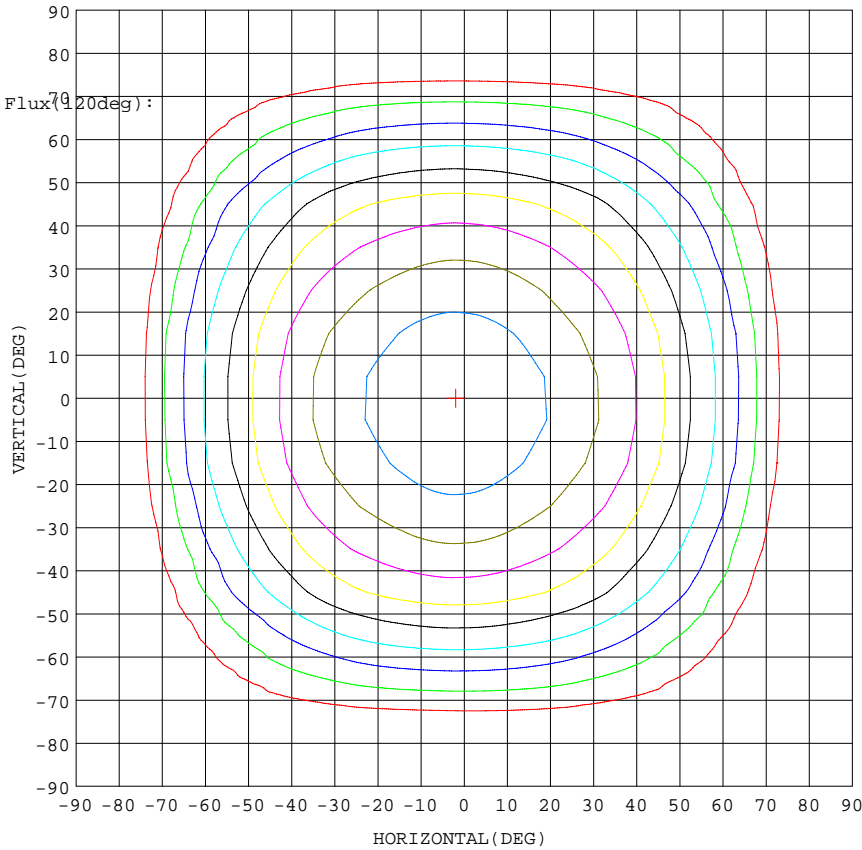
%lamp = 58.9%

Conical surface Flux(70deg):

9603 lm

%lum = 85.4%

%lamp = 85.4%



- 10% 442.3
- 20% 884.7
- 30% 1327
- 40% 1769
- 50% 2212
- 60% 2654
- 70% 3096
- 80% 3539
- 90% 3981

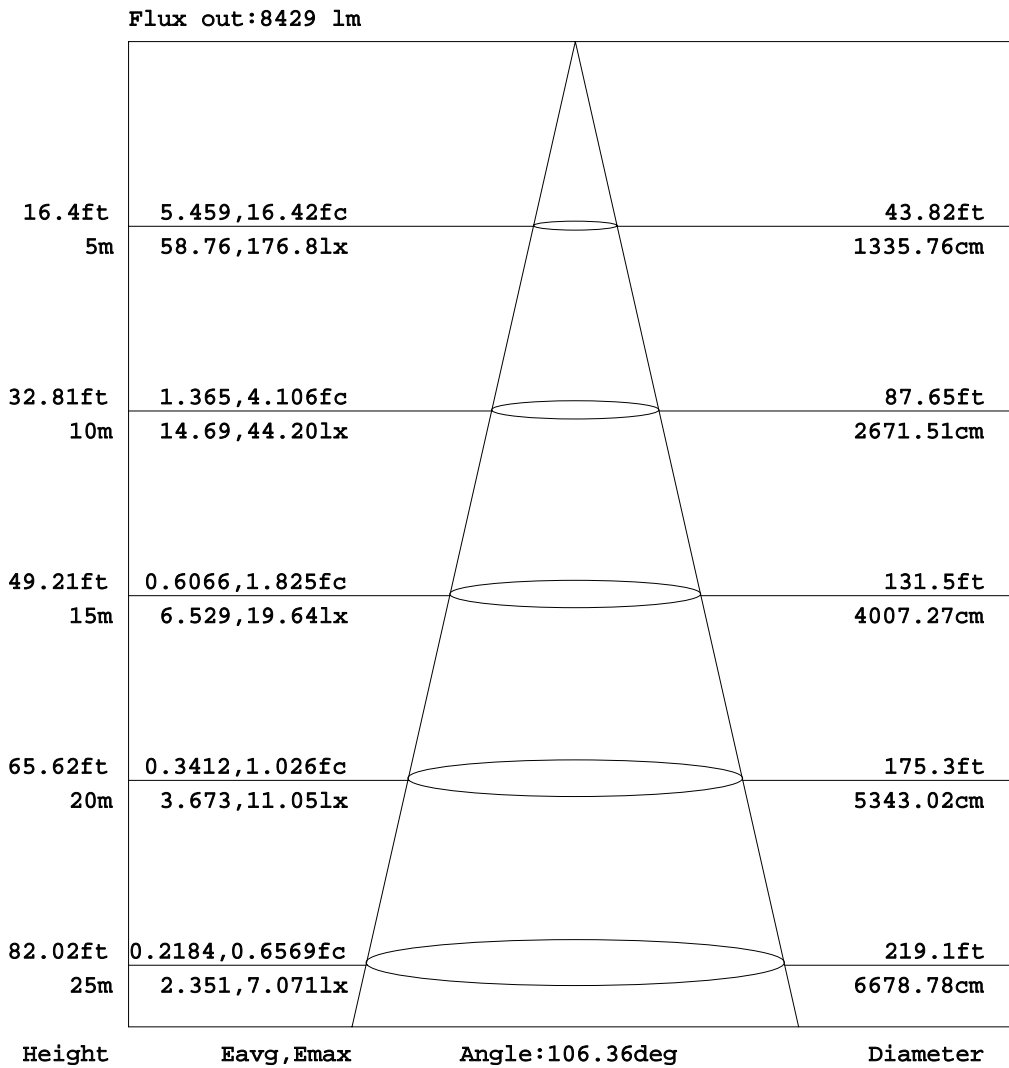
Imax: 4423 (H=2.0, V0.0)  
 (At: C=180.0, Gamma=2.0)  
 UNIT: cd

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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
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.

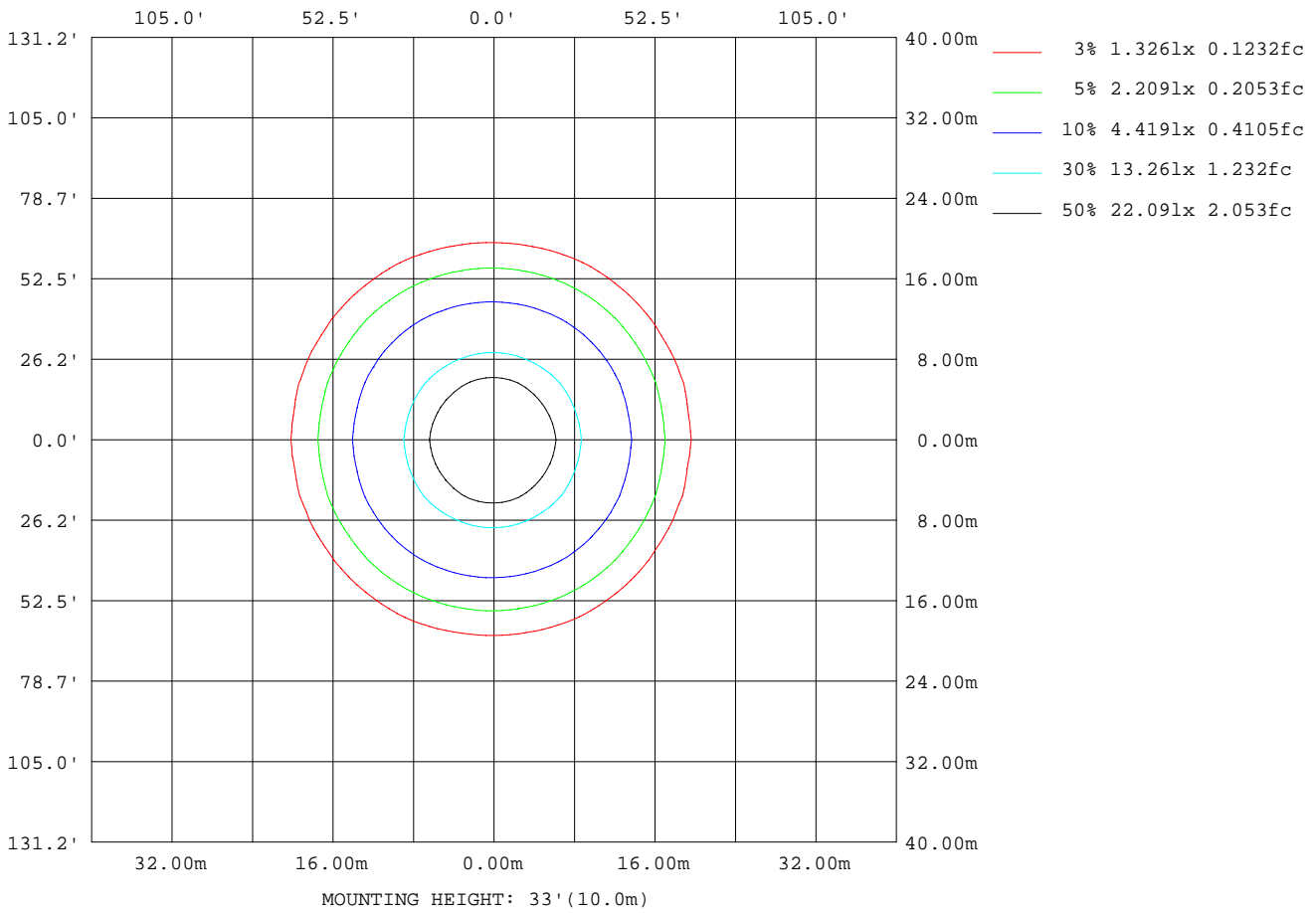
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-01-29

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

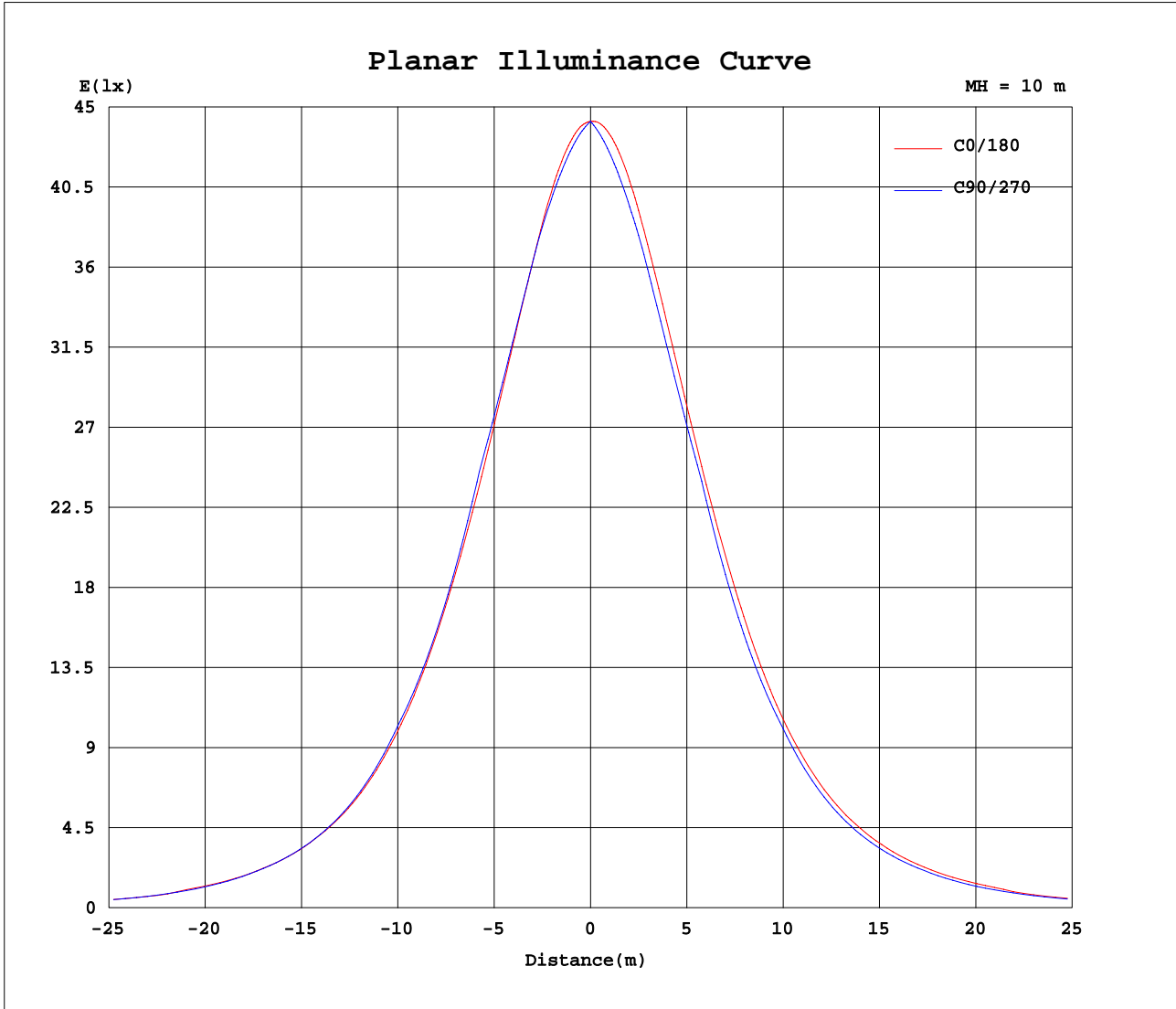
Test:U:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

γ (DEG)\C (DEG)	C (DEG)																			
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
0	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419
5	4387	4380	4373	4367	4362	4358	4353	4350	4347	4344	4342	4340	4338	4337	4336	4336	4336	4336	4336	4337
10	4307	4294	4282	4271	4263	4256	4250	4247	4244	4242	4242	4243	4244	4246	4249	4250	4252	4253	4256	
15	4182	4163	4147	4135	4126	4120	4117	4117	4118	4121	4126	4132	4138	4146	4154	4160	4166	4170	4174	
20	4028	4004	3985	3971	3961	3956	3956	3961	3970	3982	3990	3993	3998	4005	4013	4022	4030	4036	4040	
25	3853	3825	3804	3791	3785	3784	3789	3798	3794	3794	3800	3812	3828	3844	3860	3875	3890	3900	3906	
30	3653	3621	3600	3591	3591	3597	3596	3587	3587	3594	3606	3624	3647	3675	3702	3727	3748	3764	3772	
35	3423	3389	3370	3366	3375	3372	3359	3360	3366	3383	3406	3434	3433	3434	3443	3453	3464	3473	3479	
40	3141	3106	3093	3100	3109	3095	3097	3112	3134	3146	3133	3127	3127	3132	3142	3155	3168	3179	3186	
45	2811	2776	2770	2788	2774	2775	2796	2836	2825	2816	2812	2818	2823	2833	2844	2856	2874	2886	2894	
50	2434	2403	2408	2416	2410	2427	2459	2443	2451	2468	2486	2508	2498	2484	2471	2466	2471	2476	2480	
55	2060	2028	2046	2025	2031	2048	2037	2046	2064	2100	2093	2081	2074	2064	2057	2056	2058	2063	2067	
60	1662	1631	1643	1625	1650	1627	1636	1656	1644	1643	1642	1642	1645	1646	1644	1645	1646	1650	1654	
65	1199	1159	1173	1203	1172	1206	1212	1186	1202	1205	1206	1204	1204	1202	1192	1181	1173	1170	1169	
70	714	684	674	698	700	704	733	735	739	784	775	759	747	741	724	707	697	688	684	
75	317	298	298	305	319	321	337	369	368	376	351	323	301	285	258	235	220	207	200	
80	59.5	54.6	53.8	64.0	72.0	97.4	96.4	79.2	47.8	40.4	43.0	42.6	39.2	32.3	22.1	13.0	6.02	1.51	0.00	
85	2.68	3.04	3.59	4.04	3.31	1.43	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	1.07	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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
0	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419
5	4339	4341	4343	4346	4349	4352	4356	4360	4364	4368	4372	4377	4383	4389	4395	4401	4408	4415	4406	4406
10	4258	4261	4265	4268	4271	4273	4276	4280	4284	4289	4295	4301	4309	4317	4327	4338	4350	4364	4347	4347
15	4177	4181	4184	4184	4184	4183	4183	4182	4183	4185	4187	4191	4197	4206	4217	4231	4248	4267	4243	4243
20	4045	4051	4053	4055	4056	4057	4060	4063	4061	4057	4055	4054	4058	4066	4079	4095	4116	4142	4112	4112
25	3912	3916	3915	3912	3907	3901	3895	3893	3893	3898	3907	3902	3903	3909	3921	3939	3963	3994	3958	3958
30	3780	3780	3775	3765	3752	3735	3723	3713	3707	3708	3715	3730	3736	3737	3745	3760	3783	3817	3778	3778
35	3490	3497	3503	3511	3517	3530	3544	3528	3518	3509	3509	3516	3533	3540	3538	3547	3567	3601	3562	3562
40	3196	3201	3205	3207	3213	3224	3240	3266	3297	3297	3280	3273	3274	3290	3285	3279	3293	3328	3288	3288
45	2903	2905	2906	2906	2910	2916	2928	2944	2964	2989	3019	2981	2961	2962	2980	2958	2963	2998	2959	2959
50	2491	2499	2512	2530	2559	2586	2614	2611	2611	2610	2615	2632	2606	2589	2603	2597	2591	2624	2587	2587
55	2076	2084	2095	2112	2131	2156	2182	2210	2230	2212	2198	2198	2216	2201	2198	2221	2205	2233	2204	2204
60	1661	1668	1680	1693	1708	1719	1730	1744	1757	1768	1793	1778	1781	1805	1792	1814	1804	1829	1806	1806
65	1175	1184	1202	1225	1249	1264	1274	1286	1298	1303	1297	1341	1353	1315	1364	1329	1338	1376	1364	1364
70	686	695	712	737	764	782	803	827	847	825	815	824	802	836	810	783	834	842	860	860
75	198	206	223	250	284	308	338	375	408	405	418	383	375	373	373	365	375	387	389	389
80	1.44	5.57	12.1	20.7	31.0	38.0	42.2	44.9	40.2	50.3	87.5	107	109	75.6	73.8	63.3	74.0	70.5	82.9	82.9
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	1.44	3.16	3.72	3.76	3.51	3.17	3.23
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	1.85	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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
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	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419
5	4398	4390	4382	4375	4368	4362	4356	4351	4346	4341	4336	4332	4328	4325	4322	4320	4318	4317	4317
10	4332	4318	4305	4294	4284	4275	4266	4259	4253	4247	4242	4238	4234	4230	4225	4220	4217	4215	4214
15	4222	4205	4189	4177	4168	4159	4153	4147	4143	4140	4138	4136	4133	4131	4127	4121	4116	4113	4111
20	4086	4064	4046	4032	4022	4017	4015	4017	4015	4007	4000	3996	3993	3990	3987	3981	3974	3970	3966
25	3929	3906	3889	3877	3872	3869	3852	3839	3834	3832	3835	3836	3838	3840	3841	3839	3832	3827	3818
30	3749	3727	3714	3708	3695	3673	3658	3650	3647	3651	3658	3669	3679	3687	3694	3696	3690	3683	3668
35	3536	3522	3517	3501	3477	3461	3454	3452	3455	3464	3451	3439	3433	3426	3422	3418	3409	3402	3393
40	3270	3271	3269	3243	3232	3230	3236	3230	3202	3179	3162	3155	3147	3144	3140	3137	3128	3119	3108
45	2950	2966	2942	2936	2945	2964	2942	2921	2902	2889	2877	2872	2865	2862	2858	2857	2847	2836	2825
50	2590	2595	2583	2593	2612	2598	2590	2592	2594	2597	2570	2536	2512	2492	2476	2468	2457	2449	2445
55	2220	2202	2200	2218	2206	2209	2229	2242	2219	2188	2163	2137	2114	2099	2085	2077	2067	2061	2057
60	1821	1805	1822	1807	1811	1826	1806	1793	1774	1762	1752	1736	1717	1707	1694	1685	1677	1672	1669
65	1351	1399	1349	1396	1394	1363	1360	1353	1340	1325	1321	1302	1279	1259	1242	1229	1222	1220	1221
70	830	845	890	866	903	876	924	911	889	870	863	845	821	800	784	772	767	766	770
75	387	408	423	424	438	474	482	467	442	421	411	389	364	342	326	315	313	312	319
80	94.7	102	116	143	142	121	85.2	79.9	82.6	80.3	70.7	53.3	35.6	20.5	9.25	2.32	0.00	2.30	9.02
85	3.24	5.18	3.03	1.51	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:220.0V I:0.4750A P:101.9W PF:0.9750 Lamp Flux:11245x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:3
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	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419	4419				
5	4317	4318	4320	4322	4325	4328	4331	4335	4339	4344	4350	4356	4363	4370	4378				
10	4214	4214	4213	4213	4213	4214	4217	4221	4227	4233	4241	4251	4262	4276	4291				
15	4107	4102	4097	4093	4089	4086	4083	4084	4086	4091	4098	4108	4121	4138	4158				
20	3960	3953	3947	3942	3938	3937	3933	3924	3920	3921	3926	3937	3953	3973	3998				
25	3805	3793	3780	3766	3754	3743	3739	3741	3748	3745	3747	3756	3769	3790	3817				
30	3650	3630	3607	3584	3563	3548	3538	3535	3538	3549	3556	3557	3567	3584	3613				
35	3384	3377	3370	3370	3372	3348	3332	3321	3316	3319	3332	3340	3342	3354	3381				
40	3098	3086	3078	3075	3078	3087	3104	3096	3079	3067	3068	3080	3077	3079	3099				
45	2813	2799	2790	2785	2783	2783	2791	2801	2818	2780	2761	2758	2768	2757	2770				
50	2442	2447	2456	2477	2487	2474	2457	2449	2443	2459	2428	2407	2410	2402	2400				
55	2054	2059	2065	2078	2089	2102	2110	2083	2063	2055	2063	2041	2030	2042	2028				
60	1668	1670	1674	1675	1677	1672	1677	1681	1688	1665	1658	1675	1645	1652	1636				
65	1229	1238	1252	1259	1260	1258	1260	1257	1252	1259	1255	1210	1253	1195	1181				
70	779	791	807	819	821	834	849	847	795	810	758	770	731	717	710				
75	329	346	367	385	394	412	434	447	426	385	366	355	332	323	308				
80	19.7	33.6	49.8	65.6	74.2	78.3	77.5	81.1	110	125	125	99.3	84.2	71.4	63.7				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	2.72	6.09	2.97	2.78			
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: