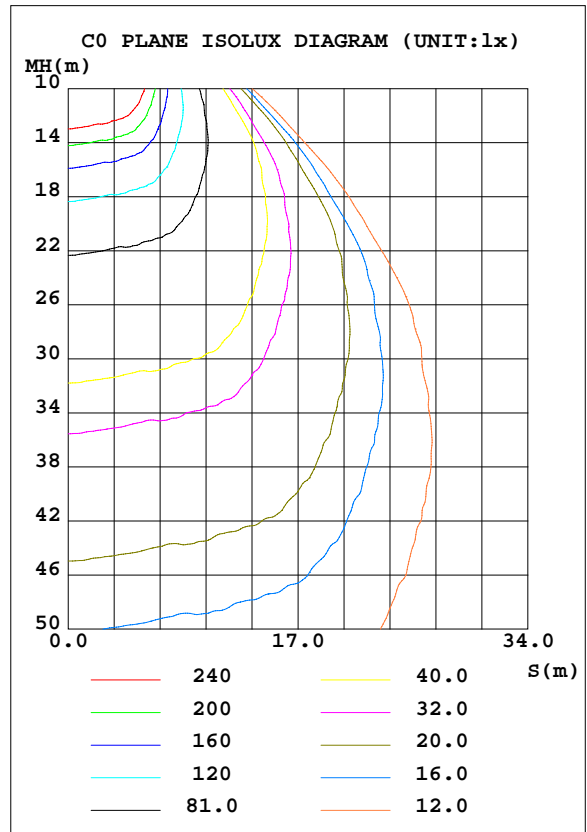
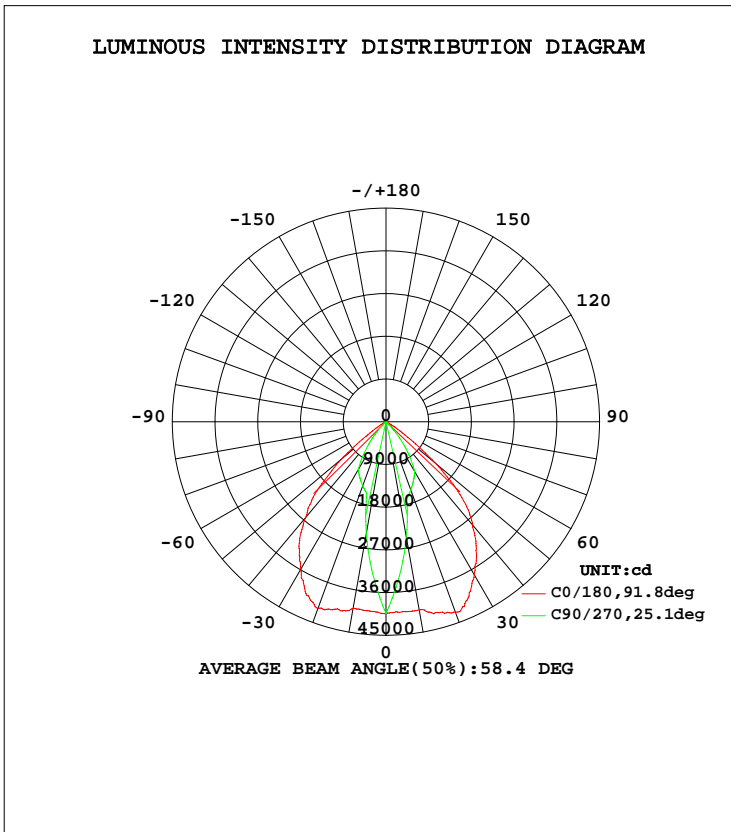


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.09 lm/W			
MODEL	QH-FLTGC-400W	I _{max} (cd)	42896	S/MH(C0/180)	1.31
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	37160	η UP, DN(C0-180)	0.0, 48.9
NOMINAL FLUX(lm)	37160.2	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220.1	η down(%)	100.0	CIBSE SHR MAX	0.50



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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	4000	3436	3217	3437	4019	3468	3257	3461	0- 5	881.3	881.3	2.37,2.37
10	3994	2862	2391	2870	4028	2933	2472	2915	5- 10	2310	3192	8.59,8.59
15	4087	2318	1565	2311	4157	2409	1686	2391	10- 15	3272	6464	17.4,17.4
20	4189	1775	1435	1765	4267	1903	1528	1864	15- 20	3933	10397	28,28
25	3993	1647	1304	1642	4095	1768	1370	1733	20- 25	4550	14946	40.2,40.2
30	3583	1550	1174	1562	3717	1666	1213	1614	25- 30	4919	19865	53.5,53.5
35	3198	1336	800.1	1372	3307	1475	829.1	1419	30- 35	4939	24805	66.8,66.8
40	2629	1035	426.4	1076	2842	1183	445.6	1130	35- 40	4442	29247	78.7,78.7
45	2062	665.2	52.59	681.9	2261	759.9	62.11	720.7	40- 45	3453	32700	88,88
50	1229	330.3	43.01	332.4	1365	370.2	51.49	354.4	45- 50	2281	34981	94.1,94.1
55	414.6	38.83	33.42	38.83	492.4	41.82	40.88	41.12	50- 55	1306	36288	97.7,97.7
60	92.69	33.28	23.83	34.40	116.6	37.58	30.26	36.88	55- 60	558.2	36846	99.2,99.2
65	23.03	26.84	17.78	26.34	21.99	25.97	21.73	29.01	60- 65	169.7	37016	99.6,99.6
70	20.50	19.16	11.74	18.78	19.40	15.93	13.19	19.52	65- 70	81.30	37097	99.8,99.8
75	6.835	8.590	5.686	9.087	6.270	7.440	4.659	9.356	70- 75	45.52	37142	100,100
80	1.746	1.162	0	1.075	1.755	1.074	0	1.035	75- 80	14.64	37157	100,100
85	0.5797	0	0	0	0.6756	0	0	0	80- 85	2.836	37160	100,100
90	0.0942	0	0	0	0.1477	0	0	0	85- 90	0.3634	37160	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:×10cd								UNIT:lm			

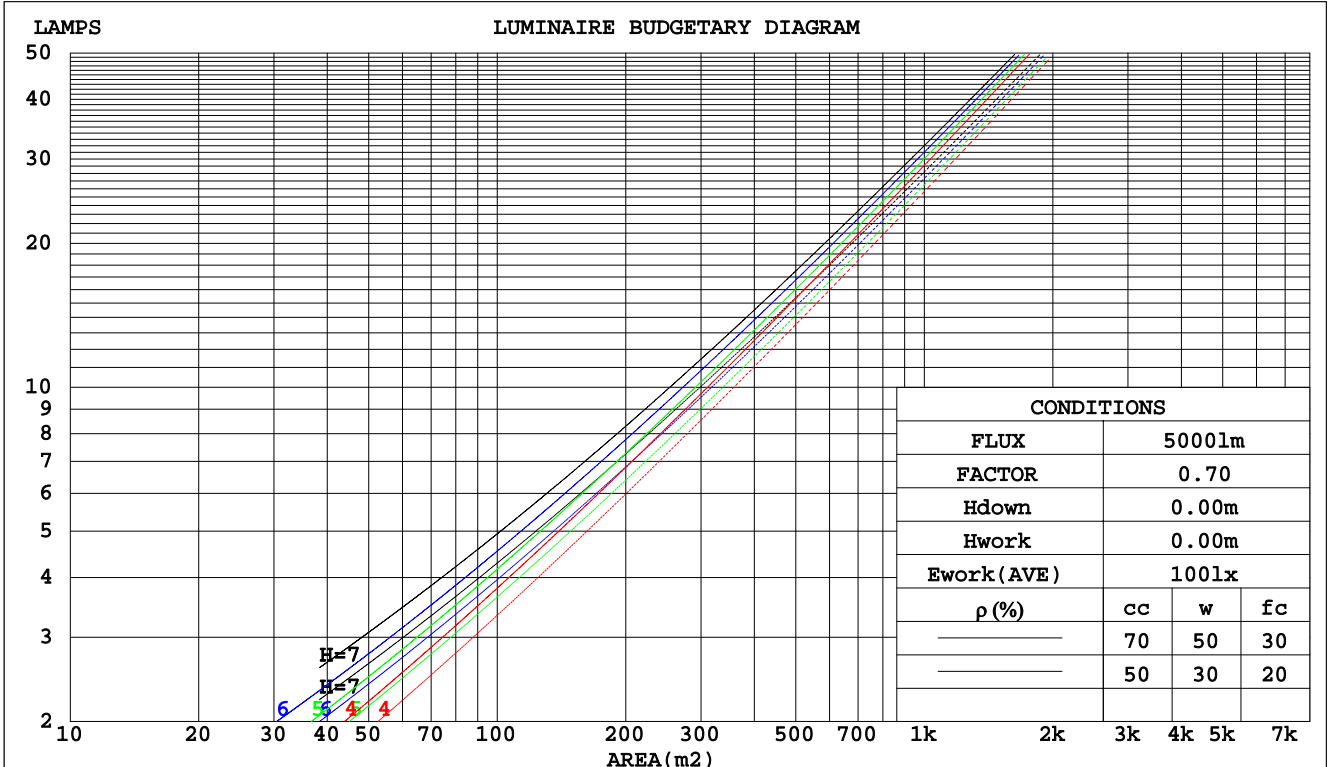
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	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	1.00
1.0	1.10	1.07	1.04	1.08	1.05	1.03	1.03	1.01	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.96	.92	.99	.95	.91	.96	.92	.89	.93	.90	.87	.90	.88	.86	.84
3.0	.93	.87	.82	.91	.86	.82	.88	.84	.80	.86	.82	.79	.84	.81	.78	.76
4.0	.85	.79	.74	.84	.78	.74	.82	.77	.73	.80	.75	.72	.78	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.66	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.66	.61	.70	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.56	.67	.60	.56	.66	.60	.56	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.48	.58	.52	.48	.57	.52	.47	.56	.51	.47	.55	.51	.47	.46
10.0	.55	.49	.44	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	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	.198	.113	.036	.191	.109	.035	.179	.103	.033	.167	.096	.031	.156	.091	.029	
2.0	.193	.106	.032	.187	.103	.032	.176	.098	.030	.167	.093	.029	.157	.089	.028	
3.0	.185	.099	.030	.180	.097	.029	.171	.093	.028	.162	.089	.027	.154	.086	.026	
4.0	.177	.092	.027	.173	.090	.027	.165	.087	.026	.157	.084	.025	.150	.082	.025	
5.0	.169	.086	.025	.165	.085	.025	.158	.082	.024	.151	.080	.024	.145	.077	.023	
6.0	.161	.081	.023	.158	.080	.023	.151	.077	.023	.145	.075	.022	.140	.074	.022	
7.0	.153	.076	.021	.150	.075	.021	.145	.073	.021	.139	.071	.021	.134	.070	.021	
8.0	.146	.071	.020	.144	.071	.020	.138	.069	.020	.134	.068	.020	.129	.066	.019	
9.0	.140	.068	.019	.137	.067	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.018	.123	.061	.017	.119	.060	.017	

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm										
NAME: LED FLOOD LIGHT					TYPE:IP65			WEIGHT:10		
SPEC.:CREE XTE					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	27.9	29.0	28.2	29.2	29.4	20.8	21.9	21.0	22.0	22.2
3H	27.8	28.8	28.0	29.0	29.2	20.6	21.6	20.9	21.8	22.0
4H	27.7	28.6	28.0	28.8	29.1	20.5	21.5	20.8	21.7	21.9
6H	27.6	28.5	27.9	28.7	29.0	20.4	21.3	20.7	21.6	21.8
8H	27.5	28.4	27.8	28.6	28.9	20.4	21.2	20.7	21.5	21.8
12H	27.5	28.3	27.8	28.6	28.9	20.3	21.1	20.7	21.4	21.7
4H 2H	27.7	28.6	28.0	28.8	29.1	20.8	21.7	21.1	21.9	22.2
3H	27.5	28.3	27.8	28.6	28.9	20.6	21.4	21.0	21.7	22.0
4H	27.4	28.1	27.7	28.4	28.7	20.5	21.3	20.9	21.6	21.9
6H	27.3	27.9	27.7	28.3	28.6	20.5	21.1	20.8	21.4	21.8
8H	27.3	27.8	27.7	28.2	28.6	20.4	21.0	20.8	21.4	21.7
12H	27.2	27.7	27.6	28.1	28.5	20.4	20.9	20.8	21.3	21.7
8H 4H	27.3	27.8	27.7	28.2	28.6	20.4	21.0	20.8	21.4	21.7
6H	27.2	27.6	27.6	28.0	28.5	20.3	20.8	20.8	21.2	21.6
8H	27.1	27.5	27.6	28.0	28.4	20.3	20.7	20.7	21.1	21.6
12H	27.1	27.4	27.5	27.9	28.3	20.2	20.6	20.7	21.0	21.5
12H 4H	27.2	27.7	27.6	28.1	28.5	20.4	20.9	20.8	21.3	21.7
6H	27.1	27.5	27.6	28.0	28.4	20.3	20.7	20.7	21.1	21.6
8H	27.1	27.4	27.5	27.9	28.3	20.2	20.6	20.7	21.0	21.5
Variations with the observer position at spacings:										
S = 1.0H	+ 4.5 / - 5.5					+ 3.0 / -11.0				
1.5H	+ 4.5 / - 4.9					+ 4.1 / -10.6				
2.0H	+ 7.9 / -18.5					+ 1.9 / - 1.5				

CIE Pub.117 Corrected 37160 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.6)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	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	78	70	65	77	70	65	76	69	65	60
0.80	87	79	75	86	79	74	85	78	74	69
1.00	93	86	82	92	86	82	91	86	81	76
1.25	99	92	88	97	92	88	95	90	87	82
1.50	102	96	92	101	95	92	98	94	91	85
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	102	105	102	99	93
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	108	111	109	107	107	105	104	96
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:2014-12-20

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:220.0V I:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

32700 lm

%lum = 88.0%

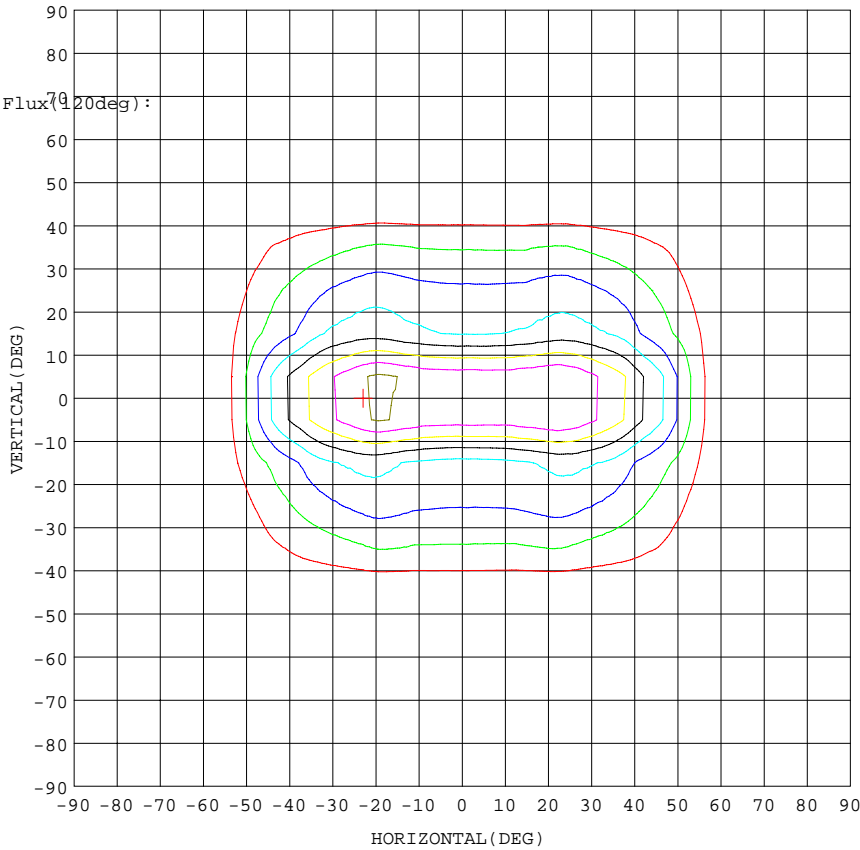
%lamp = 88.0%

Conical surface Flux(70deg):

36846 lm

%lum = 99.2%

%lamp = 99.2%



- 10% 4287
- 20% 8573
- 30% 12860
- 40% 17146
- 50% 21433
- 60% 25720
- 70% 30006
- 80% 34293
- 90% 38579

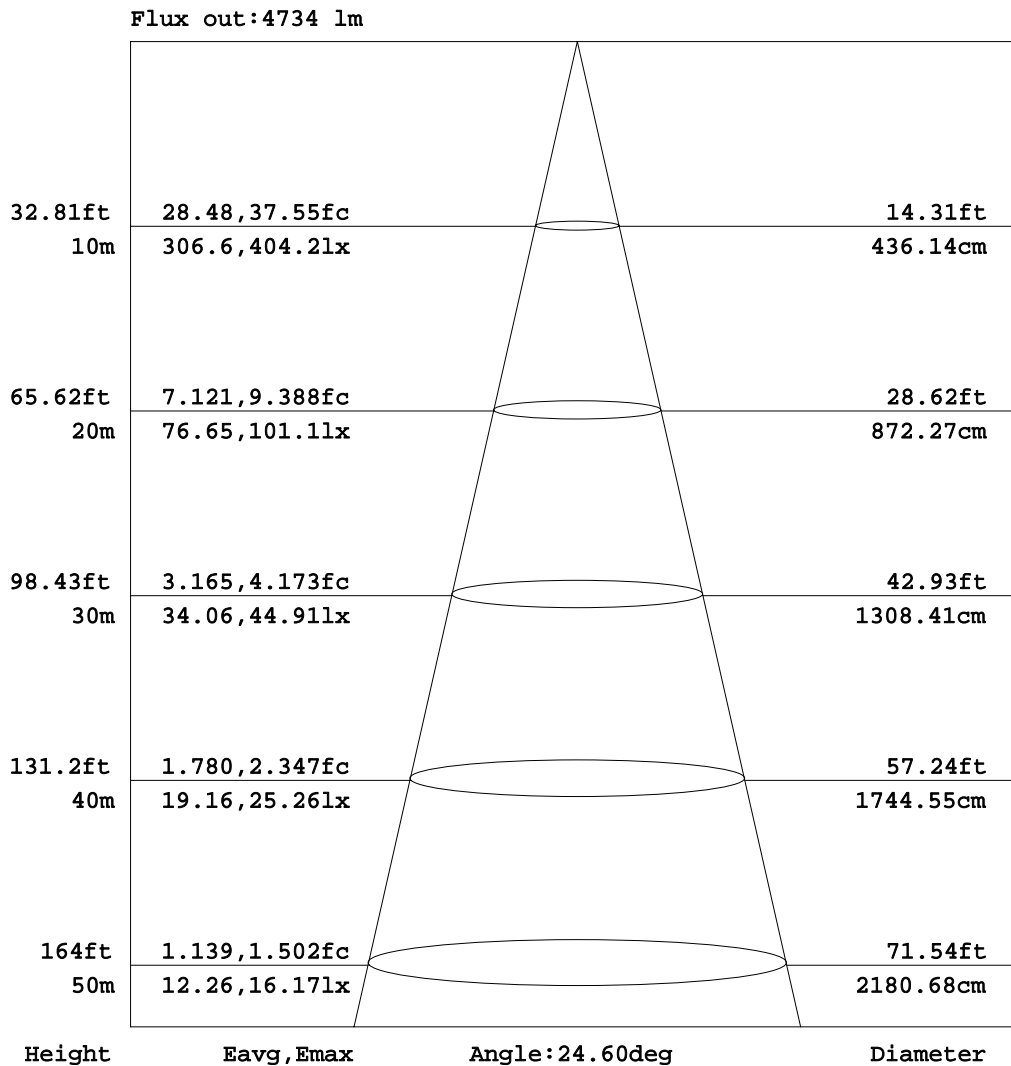
Imax: 42866 (H=-23.0, V0.0)
 (At: C=180.0, Gamma=21.0)
 UNIT: cd

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



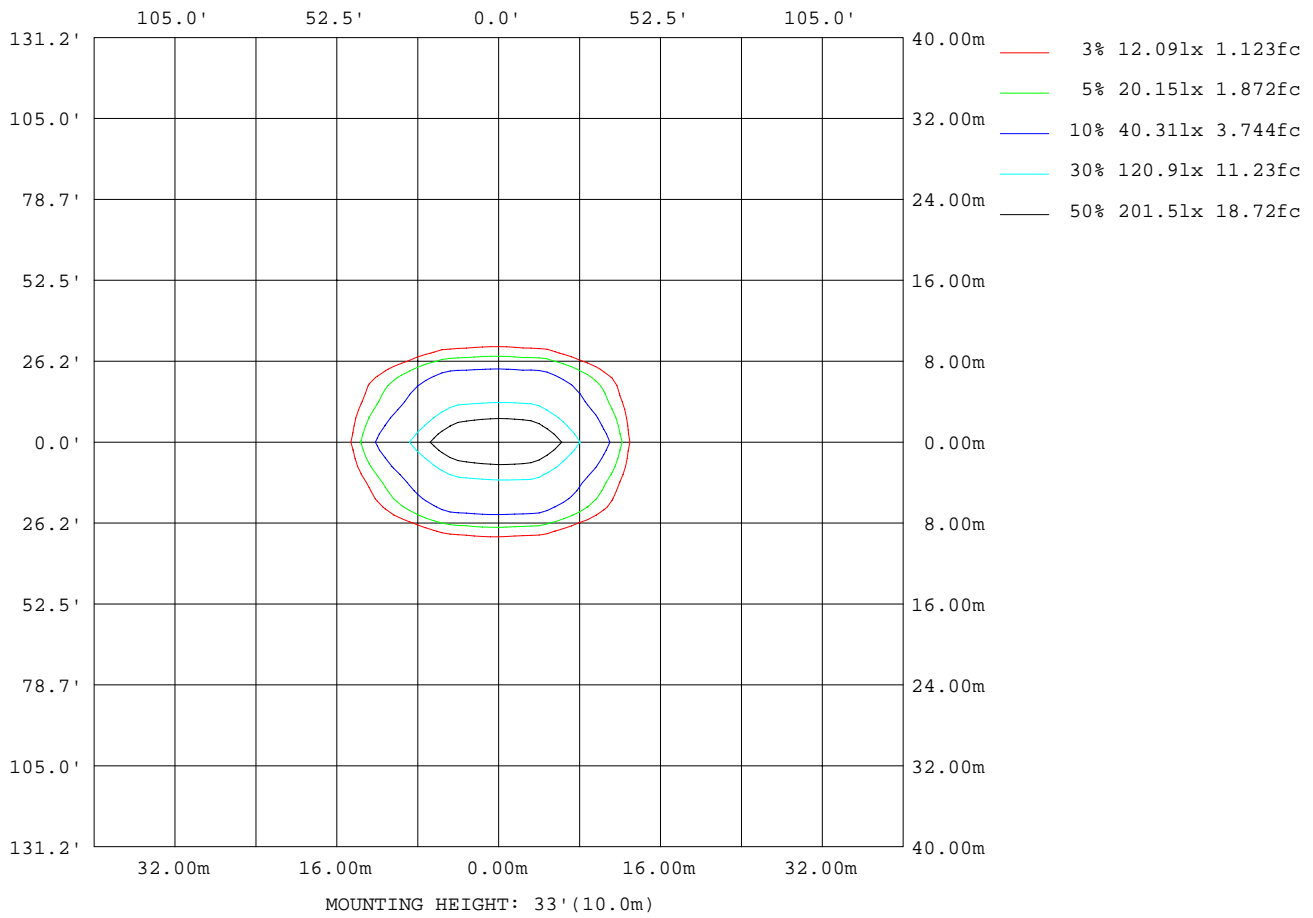
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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

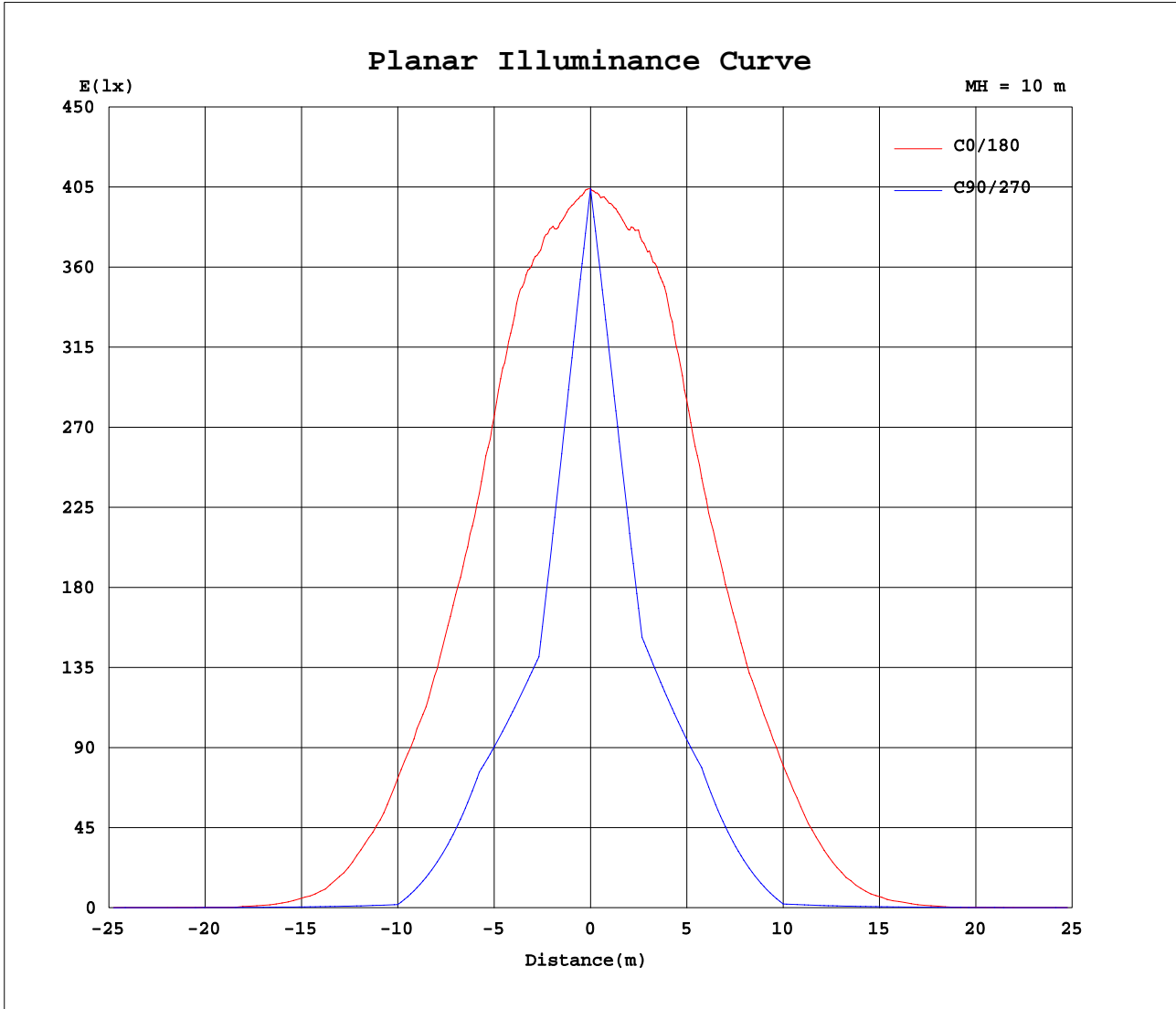
Test:U:220.0V I:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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: 2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042
5	4000	3930	3861	3793	3727	3663	3601	3542	3487	3436	3390	3348	3310	3282	3259	3241	3227	3219	3217
10	3994	3855	3715	3577	3443	3318	3193	3073	2962	2862	2768	2680	2604	2538	2486	2443	2413	2396	2391
15	4087	3874	3660	3448	3247	3053	2857	2667	2491	2318	2162	2029	1910	1811	1727	1659	1611	1573	1565
20	4189	3899	3605	3315	3042	2777	2499	2253	2010	1775	1647	1600	1552	1513	1485	1464	1450	1435	1435
25	3993	3661	3339	3015	2717	2410	2122	1830	1733	1647	1571	1497	1438	1387	1351	1328	1312	1304	1304
30	3583	3233	2900	2585	2261	1951	1749	1683	1612	1550	1475	1397	1323	1261	1210	1188	1175	1170	1174
35	3198	2813	2449	2126	1806	1604	1510	1441	1374	1336	1314	1264	1137	1019	922	859	823	804	800
40	2629	2249	1898	1556	1313	1283	1230	1157	1103	1035	962	881	768	651	558	491	453	432	426
45	2062	1715	1397	1074	989	948	918	876	774	665	560	467	369	264	178	118	82.2	60.8	52.6
50	1229	1032	875	745	699	682	631	555	448	330	203	83.3	35.5	37.3	35.7	36.8	41.0	42.9	43.0
55	415	389	390	376	375	361	347	264	154	38.8	34.8	27.5	30.1	32.2	30.8	29.1	31.6	33.5	33.4
60	92.7	79.2	96.9	102	91.0	139	115	24.8	26.4	33.3	33.7	27.6	24.9	26.7	26.9	22.7	22.7	24.0	23.8
65	23.0	20.8	17.2	12.1	13.6	23.5	17.7	13.6	18.6	26.8	30.7	27.3	20.3	19.8	19.9	16.6	16.6	17.7	17.8
70	20.5	21.1	10.5	7.73	7.46	8.07	7.41	5.66	10.2	19.2	19.8	18.9	13.5	12.0	12.5	10.7	10.8	11.7	11.7
75	6.84	4.76	4.10	3.27	3.47	3.33	2.76	2.70	3.67	8.59	8.64	8.06	5.68	4.36	4.17	4.41	4.98	5.77	5.69
80	1.75	1.73	1.68	1.86	1.69	1.63	1.59	1.51	1.63	1.16	0.87	0.83	0.76	0.49	0.33	0.26	0.14	0.04	0.00
85	0.58	0.56	0.85	0.98	0.88	0.37	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	0.09	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:2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042
5	3214	3221	3233	3253	3279	3309	3341	3385	3437	3495	3554	3613	3675	3740	3808	3877	3947	4019	3951
10	2393	2408	2434	2475	2538	2602	2681	2772	2870	2978	3092	3216	3342	3472	3608	3746	3887	4028	3895
15	1574	1596	1647	1713	1800	1904	2030	2164	2311	2479	2673	2867	3077	3296	3499	3716	3936	4157	3948
20	1435	1439	1455	1478	1510	1548	1591	1639	1765	1992	2252	2521	2792	3088	3375	3669	3968	4267	3984
25	1304	1314	1330	1358	1391	1434	1489	1559	1642	1730	1825	2142	2460	2773	3085	3419	3751	4095	3768
30	1175	1182	1201	1226	1258	1330	1400	1477	1562	1639	1704	1772	1984	2302	2640	2997	3349	3717	3370
35	808	831	873	929	1022	1145	1273	1328	1372	1406	1457	1541	1627	1851	2199	2556	2922	3307	2940
40	436	458	501	557	658	771	892	984	1076	1132	1195	1259	1335	1410	1660	2020	2413	2842	2428
45	62.1	84.5	123	180	266	376	483	581	682	788	876	945	994	1044	1151	1508	1867	2261	1882
50	44.0	42.8	39.7	37.0	36.8	35.5	81.6	205	332	452	560	636	679	712	767	937	1135	1365	1159
55	33.9	33.0	30.7	31.4	32.6	29.2	24.9	29.3	38.8	158	264	348	367	386	413	447	457	492	477
60	23.8	23.0	23.1	26.6	27.8	23.8	24.2	31.7	34.4	27.9	27.8	110	134	95.2	116	113	109	117	110
65	17.7	17.0	17.0	20.5	21.2	19.2	25.0	28.7	26.3	21.6	11.6	12.6	23.9	14.5	12.5	14.7	19.5	22.0	22.7
70	11.8	11.2	10.9	12.7	12.0	12.3	17.3	18.1	18.8	13.1	5.22	7.52	7.44	6.24	6.75	9.25	14.1	19.4	16.3
75	5.79	5.55	4.67	4.33	4.40	5.41	7.90	8.27	9.09	4.70	2.51	2.63	2.96	3.40	3.09	3.69	4.75	6.27	5.34
80	0.04	0.16	0.28	0.35	0.49	0.74	0.99	0.90	1.08	1.61	1.54	1.65	1.56	1.68	1.70	1.66	1.67	1.75	1.80
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	0.38	0.88	1.01	0.85	0.56	0.68	0.59
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	0.15	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-12-20

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:1.828A P:390.8W PF:0.9750 Lamp Flux:37160.2x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: x10cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042	4042				
5	3280	3296	3316	3341	3379	3418	3461	3510	3563	3620	3679	3740	3803	3868	3934				
10	2513	2554	2605	2668	2744	2827	2915	3011	3115	3230	3348	3467	3595	3728	3861				
15	1764	1832	1917	2010	2120	2242	2391	2558	2723	2904	3093	3278	3468	3674	3881				
20	1554	1578	1608	1648	1695	1737	1864	2090	2323	2562	2827	3079	3346	3625	3908				
25	1395	1420	1458	1497	1565	1656	1733	1809	1904	2197	2463	2751	3045	3362	3671				
30	1231	1258	1290	1374	1445	1528	1614	1688	1754	1815	2000	2313	2615	2925	3242				
35	889	946	1048	1169	1304	1372	1419	1462	1511	1571	1669	1862	2177	2501	2836				
40	512	568	675	791	922	1025	1130	1185	1245	1311	1379	1431	1640	1947	2271				
45	129	189	276	391	504	616	721	837	942	996	1025	1054	1127	1436	1734				
50	44.1	41.1	42.4	42.7	96.1	223	354	485	603	703	741	764	780	893	1052				
55	34.7	33.2	36.8	34.9	34.9	33.4	41.1	169	291	397	438	423	417	415	401				
60	25.8	26.4	28.4	29.3	28.3	32.5	36.9	27.8	27.1	135	163	123	116	102	91.3				
65	18.3	19.4	21.1	22.5	24.7	29.9	29.0	22.6	17.9	14.0	32.1	20.0	12.2	16.5	21.0				
70	11.4	11.9	13.1	14.2	17.0	21.0	19.5	16.3	7.12	10.1	9.63	9.90	7.85	10.4	18.5				
75	4.51	4.29	4.79	5.67	7.60	9.41	9.36	6.17	2.98	3.40	3.82	3.96	3.53	4.05	4.64				
80	0.26	0.36	0.50	0.74	0.97	0.89	1.03	1.50	1.41	1.52	1.50	1.57	1.91	1.72	1.69				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.45	0.60	0.54	0.52				
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:2014-12-20

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: