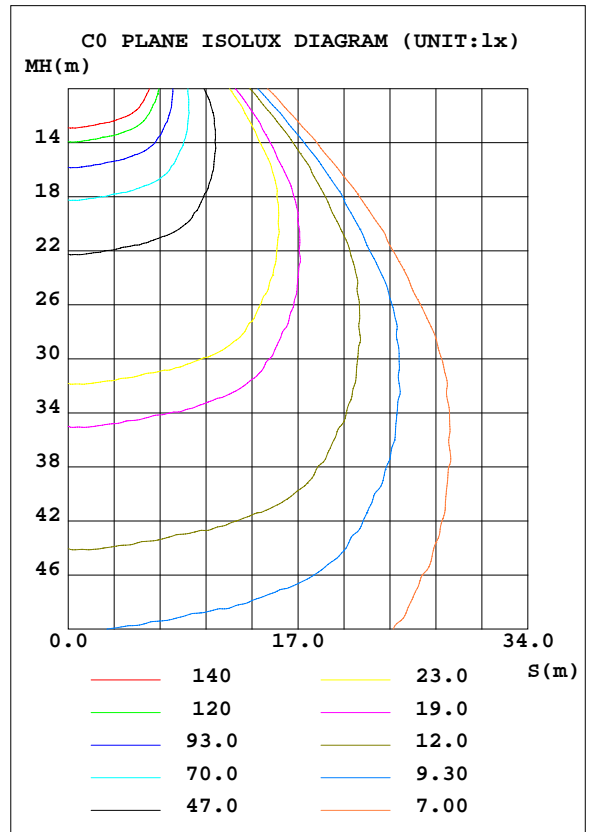
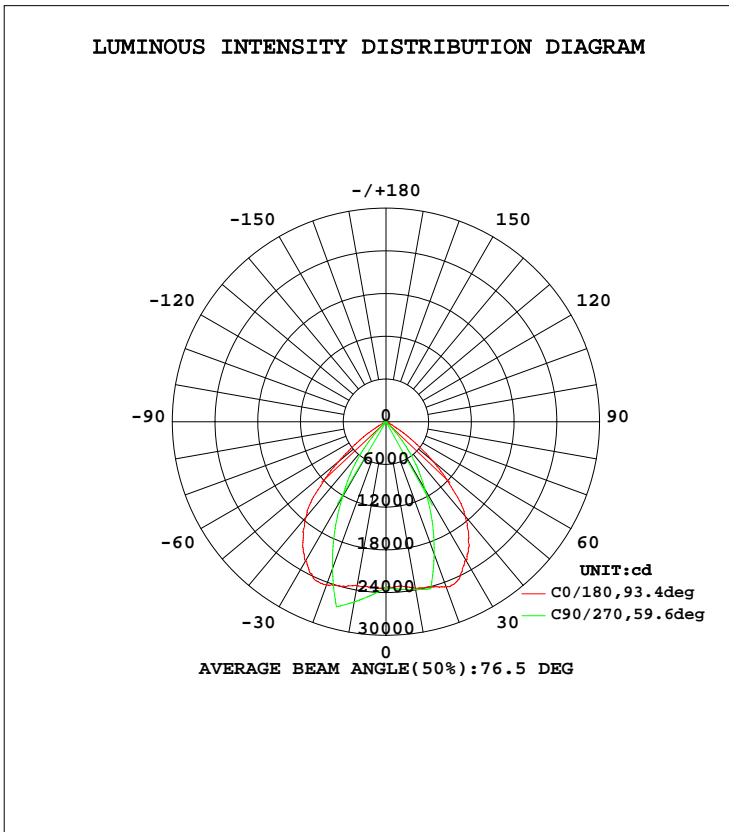


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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: 90.40 lm/W			
MODEL	QH-FLTGC-400W	I _{max} (cd)	28039	S/MH(C0/180)	1.34
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	0.92
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	36160	η UP, DN(C0-180)	0.0, 52.7
NOMINAL FLUX(lm)	36159.9	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 47.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.2	η down(%)	100.0	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 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
5	2330	2415	2448	2404	2317	2343	2361	2357	0- 5	564.7	564.7	1.56
10	2340	2479	2569	2494	2373	2375	2394	2376	5- 10	1721	2285	6.32
15	2392	2571	2690	2607	2406	2435	2428	2436	10- 15	2927	5212	14.4
20	2439	2692	2200	2744	2466	2519	1980	2528	15- 20	4071	9283	25.7
25	2422	2458	1710	2470	2436	2245	1532	2257	20- 25	4850	14133	39.1
30	2257	2092	1220	2088	2250	1848	1084	1866	25- 30	5142	19274	53.3
35	2031	1653	833.4	1626	2017	1366	734.8	1378	30- 35	4945	24219	67
40	1755	1189	446.4	1148	1737	873.6	385.1	883.1	35- 40	4353	28572	79
45	1353	778.3	59.50	744.5	1297	548.5	35.34	562.2	40- 45	3350	31921	88.3
50	871.2	390.9	51.25	371.0	859.3	267.5	26.61	272.8	45- 50	2150	34071	94.2
55	448.2	50.06	43.01	48.61	432.3	32.73	17.87	34.42	50- 55	1205	35276	97.6
60	145.6	34.62	34.76	32.73	139.9	24.99	9.140	25.98	55- 60	551.1	35827	99.1
65	40.63	18.68	24.65	18.49	39.04	13.41	6.812	13.94	60- 65	188.5	36016	99.6
70	24.57	8.976	14.53	8.883	25.56	6.438	4.484	6.597	65- 70	75.58	36091	99.8
75	11.08	5.415	4.413	5.396	11.20	3.739	2.156	3.875	70- 75	43.00	36134	99.9
80	4.397	2.271	0	2.237	4.125	1.423	0	1.475	75- 80	18.77	36153	100
85	1.795	0	0	0	1.630	0	0	0	80- 85	5.723	36159	100
90	0.1064	0	0	0	0.1031	0	0	0	85- 90	0.8696	36160	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			

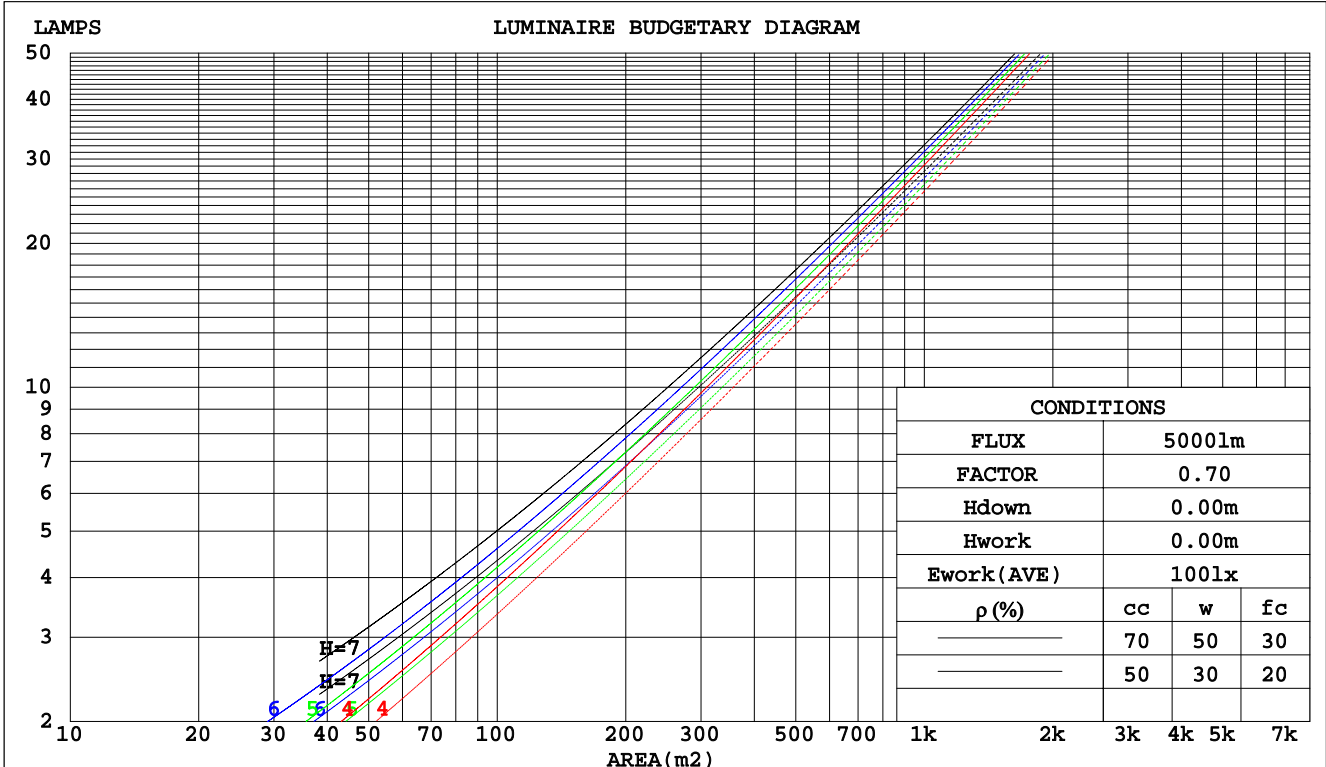
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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	.00
1.0	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.00	.98	.96	.96	.95	.94	.92
2.0	1.01	.96	.92	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83
3.0	.92	.87	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.77	.76
4.0	.85	.78	.74	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
5.0	.78	.71	.66	.77	.71	.66	.75	.70	.66	.74	.69	.65	.72	.68	.64	.63
6.0	.72	.65	.60	.71	.65	.60	.70	.64	.60	.68	.63	.59	.67	.62	.59	.57
7.0	.67	.60	.55	.66	.60	.55	.65	.59	.55	.64	.58	.54	.62	.58	.54	.52
8.0	.62	.55	.51	.62	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.50	.48
9.0	.58	.51	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.54	.50	.46	.44
10.0	.54	.48	.43	.54	.47	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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	.200	.114	.036	.193	.110	.035	.181	.104	.033	.169	.098	.031	.158	.092	.030	
2.0	.195	.107	.033	.189	.104	.032	.179	.099	.031	.169	.095	.030	.159	.090	.028	
3.0	.187	.100	.030	.183	.098	.029	.173	.094	.029	.164	.090	.028	.156	.087	.027	
4.0	.179	.093	.027	.175	.092	.027	.167	.088	.026	.159	.085	.026	.152	.083	.025	
5.0	.171	.087	.025	.167	.086	.025	.160	.083	.025	.153	.081	.024	.147	.079	.024	
6.0	.163	.082	.023	.160	.081	.023	.153	.079	.023	.147	.077	.022	.142	.075	.022	
7.0	.155	.077	.022	.152	.076	.022	.147	.074	.021	.141	.072	.021	.136	.071	.021	
8.0	.148	.072	.020	.146	.072	.020	.141	.070	.020	.136	.069	.020	.131	.067	.020	
9.0	.142	.069	.019	.139	.068	.019	.135	.067	.019	.130	.065	.019	.126	.064	.019	
10.0	.135	.065	.018	.133	.064	.018	.129	.063	.018	.125	.062	.018	.121	.061	.018	

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	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.127	.098	.075	.087	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.113	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.046	.108	.069	.040	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.109	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.025	.090	.049	.022	.062	.035	.016	.036	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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	28.6	29.7	28.8	29.9	30.1	21.5	22.6	21.7	22.8	22.9
3H	28.4	29.5	28.7	29.7	29.9	21.3	22.3	21.6	22.5	22.8
4H	28.3	29.3	28.6	29.5	29.8	21.2	22.2	21.5	22.4	22.7
6H	28.3	29.2	28.6	29.4	29.7	21.1	22.0	21.4	22.3	22.5
8H	28.2	29.1	28.5	29.3	29.6	21.1	22.0	21.4	22.2	22.5
12H	28.2	29.0	28.5	29.3	29.5	21.0	21.9	21.4	22.1	22.4
4H 2H	28.3	29.3	28.6	29.5	29.8	21.6	22.5	21.9	22.8	23.0
3H	28.2	29.0	28.5	29.3	29.5	21.4	22.3	21.8	22.5	22.8
4H	28.1	28.8	28.4	29.1	29.4	21.3	22.1	21.7	22.4	22.7
6H	28.0	28.6	28.4	29.0	29.3	21.3	21.9	21.6	22.2	22.6
8H	27.9	28.5	28.3	28.9	29.3	21.2	21.8	21.6	22.2	22.5
12H	27.9	28.4	28.3	28.8	29.2	21.2	21.7	21.6	22.1	22.5
8H 4H	27.9	28.5	28.3	28.9	29.3	21.2	21.8	21.6	22.2	22.5
6H	27.8	28.3	28.3	28.7	29.1	21.1	21.6	21.6	22.0	22.4
8H	27.8	28.2	28.2	28.6	29.1	21.1	21.5	21.5	21.9	22.4
12H	27.7	28.1	28.2	28.6	29.0	21.0	21.4	21.5	21.8	22.3
12H 4H	27.9	28.4	28.3	28.8	29.2	21.2	21.7	21.6	22.1	22.5
6H	27.8	28.2	28.2	28.6	29.1	21.1	21.5	21.5	21.9	22.4
8H	27.7	28.1	28.2	28.6	29.0	21.0	21.4	21.5	21.8	22.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 5.0					+ 2.9 / -11.1				
1.5H	+ 2.2 / - 4.2					+ 4.1 / -10.9				
2.0H	+ 5.1 / -17.0					+ 2.6 / - 2.9				

CIE Pub.117 Corrected 36160 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.5)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

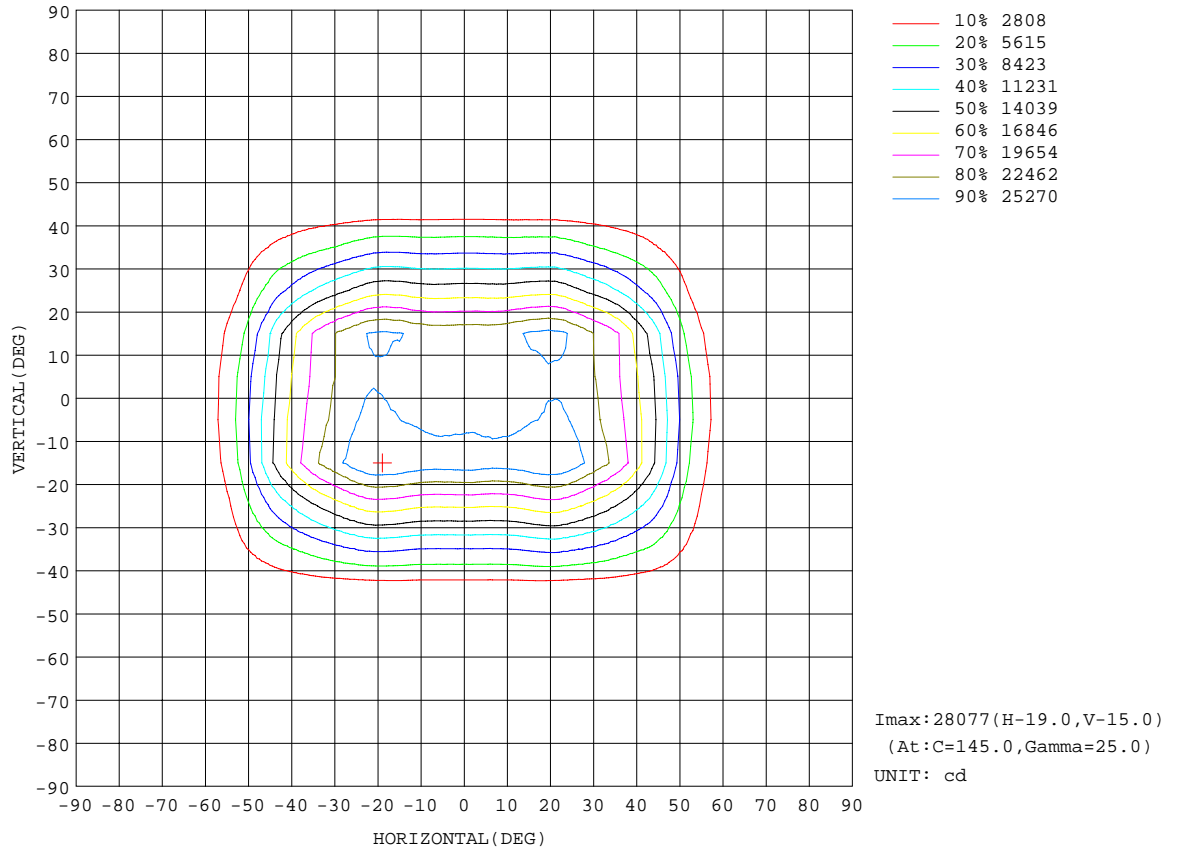
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	70	65	77	70	65	77	69	65	60
0.80	87	80	75	86	79	75	85	79	74	70
1.00	94	87	82	93	86	82	91	86	81	77
1.25	99	92	88	98	92	88	95	91	87	82
1.50	102	96	92	101	96	92	98	94	91	86
2.00	106	101	97	105	100	96	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	105	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:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

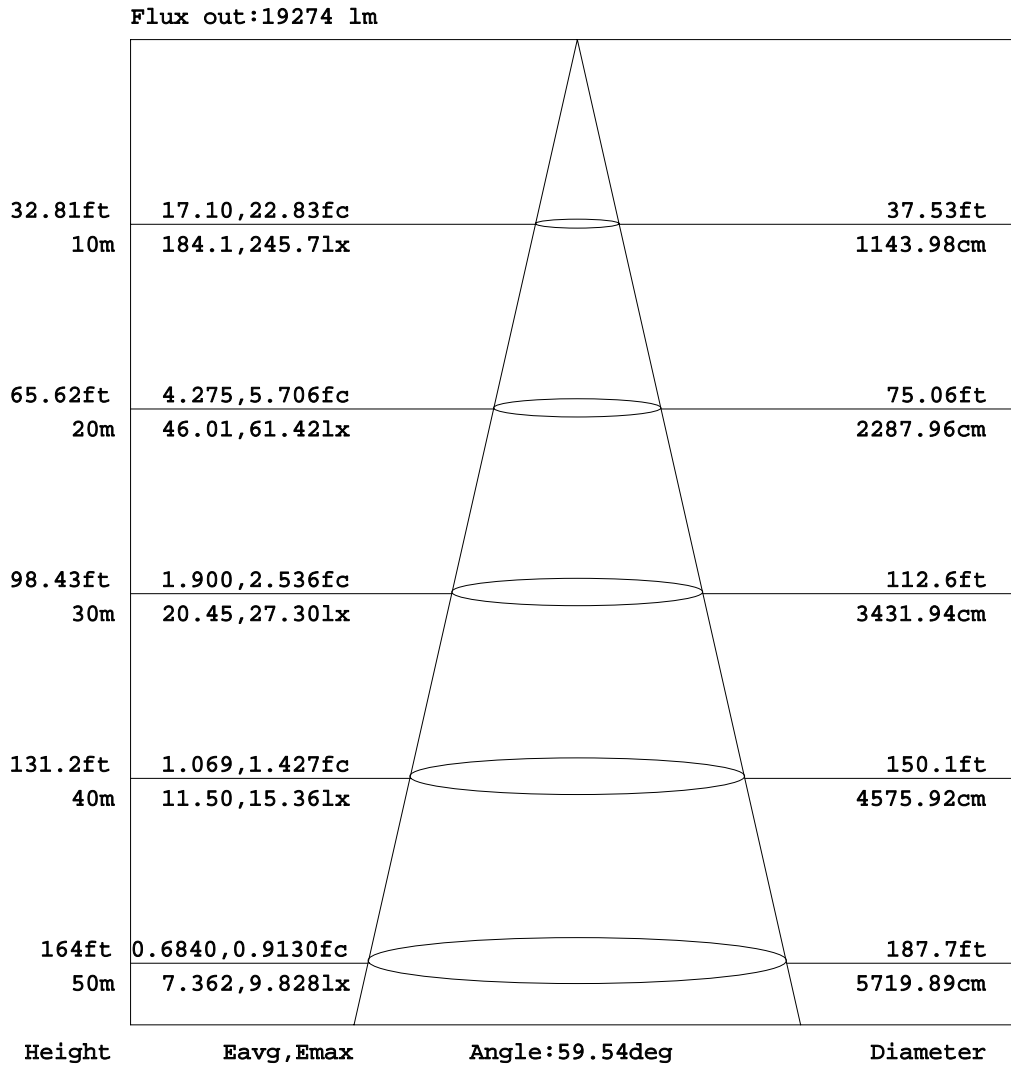


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



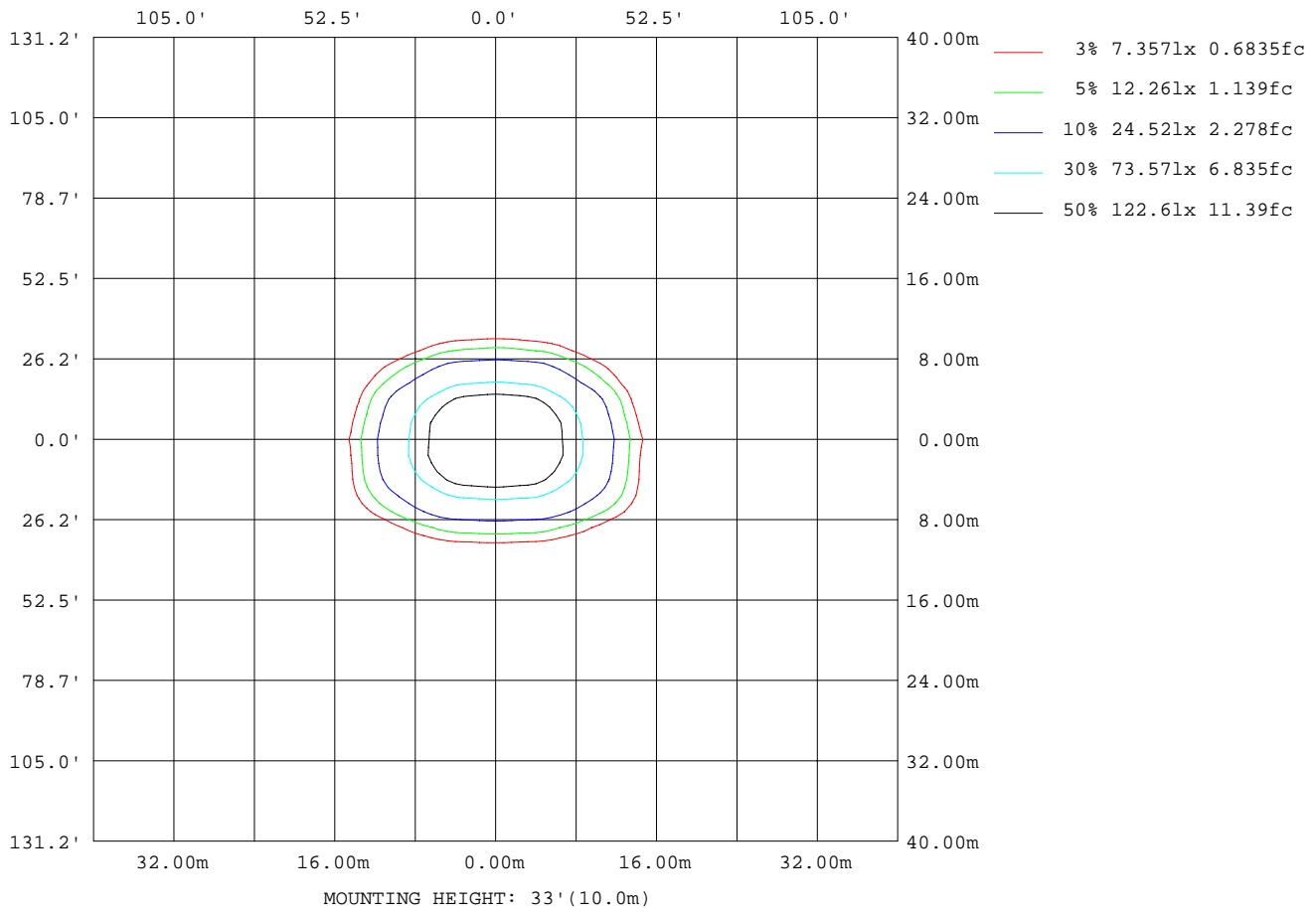
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

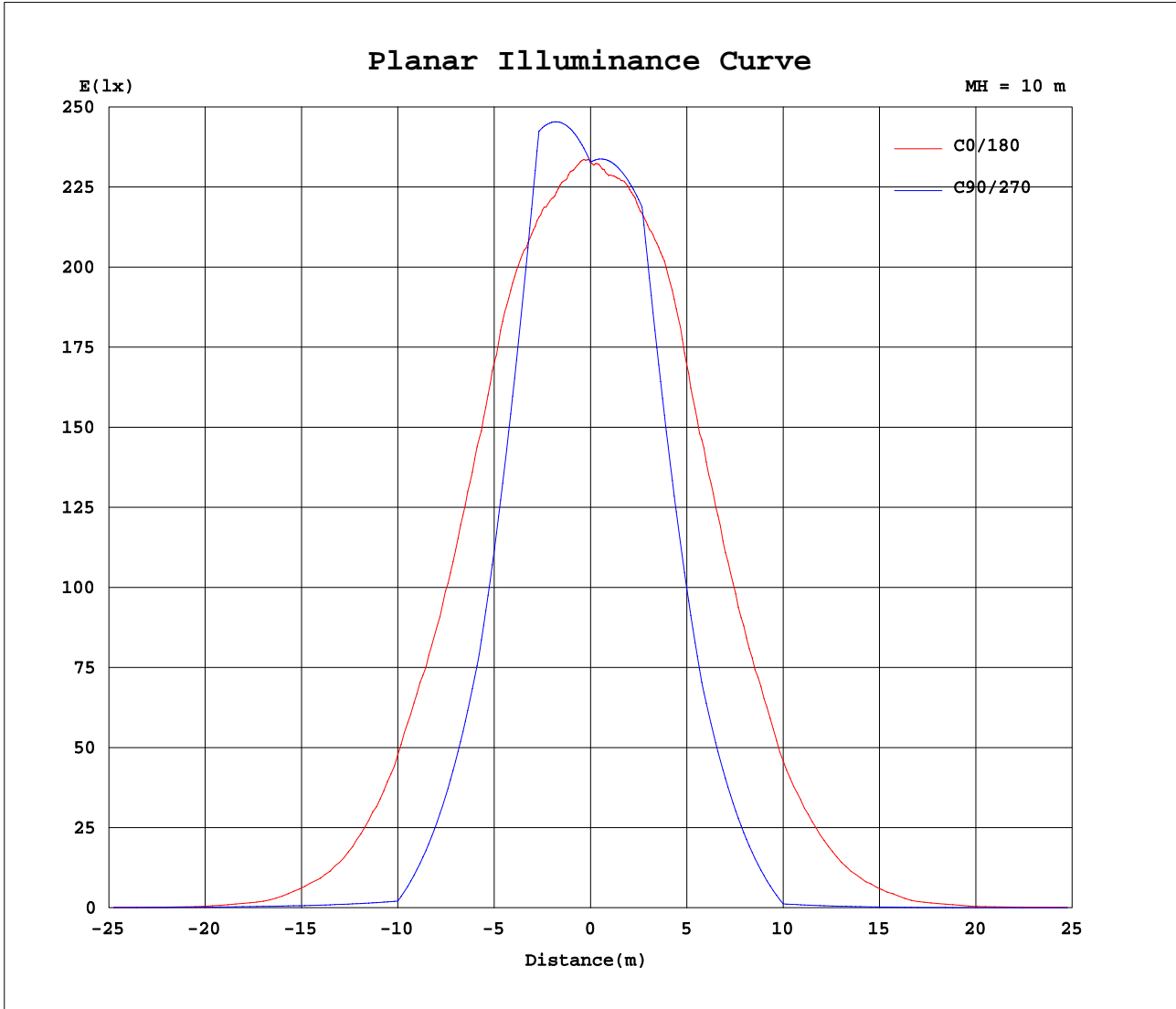
Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 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: 2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327
5	2330	2340	2349	2359	2368	2378	2387	2396	2406	2415	2424	2432	2441	2447	2450	2451	2453	2454	2448
10	2340	2358	2376	2394	2412	2430	2445	2457	2468	2479	2493	2511	2520	2532	2549	2564	2572	2572	2569
15	2392	2421	2448	2472	2497	2515	2529	2546	2558	2571	2584	2595	2605	2618	2639	2657	2682	2692	2690
20	2439	2480	2521	2562	2595	2629	2657	2686	2691	2692	2633	2515	2417	2339	2276	2239	2218	2211	2200
25	2422	2462	2510	2564	2618	2685	2739	2782	2627	2458	2299	2140	2011	1906	1825	1765	1733	1720	1710
30	2257	2292	2333	2393	2470	2552	2543	2398	2253	2092	1927	1762	1607	1473	1372	1303	1255	1229	1220
35	2031	2070	2126	2199	2282	2234	2079	1919	1785	1653	1510	1350	1203	1076	975	907	862	841	833
40	1755	1776	1827	1917	1947	1788	1622	1471	1320	1189	1061	949	818	697	595	523	479	455	446
45	1353	1365	1422	1520	1431	1311	1178	1029	909	778	647	521	401	292	202	136	92.9	68.8	59.5
50	871	856	896	945	944	896	790	655	522	391	242	97.3	41.0	47.2	50.9	49.6	50.3	51.7	51.3
55	448	422	447	475	511	512	444	329	186	50.1	42.7	35.8	32.0	34.1	39.5	39.8	40.8	42.8	43.0
60	146	143	151	173	220	222	162	39.8	33.6	34.6	32.5	27.7	23.9	23.9	27.0	29.1	31.0	33.9	34.8
65	40.6	38.1	38.3	36.5	52.2	49.8	17.4	19.8	17.6	18.7	18.0	18.2	16.4	15.4	18.2	20.4	21.9	24.0	24.6
70	24.6	25.2	21.5	19.4	15.0	12.0	11.1	9.61	7.90	8.98	10.4	11.6	10.9	10.2	11.4	12.4	13.1	14.2	14.5
75	11.1	11.0	10.7	9.00	8.79	6.54	5.78	5.81	5.44	5.42	5.88	6.12	5.55	4.94	4.82	4.65	4.44	4.38	4.41
80	4.40	4.39	4.20	4.25	3.97	3.68	3.43	3.21	2.84	2.27	1.85	1.44	1.02	0.71	0.46	0.27	0.12	0.03	0.00
85	1.79	1.76	2.00	2.19	1.87	0.79	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	0.11	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:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327
5	2445	2441	2440	2439	2436	2430	2421	2412	2404	2397	2389	2379	2369	2358	2348	2338	2327	2317	2320
10	2565	2563	2555	2543	2537	2524	2513	2503	2494	2486	2475	2464	2450	2438	2424	2408	2391	2373	2377
15	2685	2676	2664	2654	2638	2631	2622	2614	2607	2597	2585	2568	2544	2522	2495	2467	2438	2406	2417
20	2205	2218	2251	2294	2362	2444	2554	2674	2744	2734	2718	2679	2649	2617	2584	2545	2506	2466	2476
25	1718	1739	1776	1838	1920	2034	2170	2324	2470	2638	2804	2758	2696	2625	2569	2520	2475	2436	2437
30	1230	1258	1306	1374	1476	1613	1763	1921	2088	2247	2389	2541	2555	2475	2398	2325	2286	2250	2247
35	841	865	907	972	1071	1191	1326	1483	1626	1768	1914	2065	2239	2288	2211	2122	2062	2017	2018
40	455	480	524	594	692	806	927	1047	1148	1282	1428	1598	1773	1938	1913	1818	1762	1737	1709
45	68.8	93.4	136	205	289	394	509	626	745	855	964	1123	1276	1411	1521	1405	1332	1297	1261
50	51.9	50.8	51.0	53.3	47.2	42.9	97.5	235	371	490	604	713	837	917	961	920	861	859	800
55	42.8	41.0	40.7	40.4	34.8	32.6	35.8	45.1	48.6	173	302	404	476	498	477	452	423	432	399
60	33.5	31.2	29.5	28.1	24.0	23.6	27.3	31.6	32.7	35.2	35.5	149	207	184	164	146	138	140	125
65	23.6	22.3	20.6	19.3	15.5	15.2	16.6	16.4	18.5	18.5	20.5	16.7	43.8	51.4	36.8	37.0	37.2	39.0	34.4
70	14.0	13.3	12.5	11.9	10.0	10.3	11.0	9.69	8.88	8.16	9.62	10.8	13.3	13.4	17.2	19.4	22.1	25.6	21.5
75	4.38	4.45	4.68	4.97	4.99	5.45	5.77	5.74	5.40	5.45	5.34	5.61	6.48	7.42	8.86	9.60	10.8	11.2	9.82
80	0.03	0.12	0.27	0.48	0.72	1.07	1.48	1.90	2.24	2.74	3.01	3.42	3.37	3.60	4.03	4.08	4.14	4.13	3.88
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	0.74	1.70	1.99	1.86	1.67	1.63	1.53
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	0.10	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:10
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: x10cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327
5	2322	2325	2328	2331	2335	2340	2342	2343	2346	2350	2354	2356	2358	2357	2356	2358	2361	2367	2367
10	2380	2382	2382	2381	2380	2377	2375	2375	2375	2374	2373	2379	2382	2387	2391	2392	2394	2398	2398
15	2426	2433	2440	2445	2445	2437	2433	2435	2428	2415	2407	2410	2409	2416	2419	2428	2428	2429	2432
20	2487	2497	2506	2516	2516	2515	2526	2519	2429	2311	2220	2130	2067	2023	1995	1984	1980	1987	2006
25	2442	2464	2487	2515	2535	2558	2403	2245	2094	1961	1823	1724	1639	1584	1550	1536	1532	1540	1557
30	2259	2289	2318	2362	2312	2146	2000	1848	1703	1555	1427	1301	1207	1142	1103	1089	1084	1092	1107
35	2042	2072	2121	2042	1844	1666	1508	1366	1241	1115	1016	923	844	784	751	737	735	741	754
40	1710	1747	1750	1560	1372	1181	1003	874	819	752	672	582	504	444	406	389	385	391	411
45	1281	1332	1211	1063	891	704	627	549	473	395	315	227	155	98.8	62.9	41.6	35.3	42.2	65.0
50	793	783	718	632	495	433	361	268	170	69.1	23.6	22.1	23.5	23.6	25.9	26.3	26.6	26.5	26.7
55	394	363	339	303	275	210	126	32.7	26.0	21.8	18.4	16.4	16.5	16.8	17.8	18.0	17.9	17.9	18.0
60	120	119	90.7	117	94.8	26.1	22.3	25.0	19.6	15.6	12.3	10.7	10.2	9.79	9.66	9.39	9.14	9.23	9.69
65	31.1	27.6	27.0	26.4	13.9	13.0	12.9	13.4	11.1	8.46	7.10	6.76	6.85	6.73	6.88	6.91	6.81	6.80	6.90
70	17.6	15.1	11.7	8.74	8.72	6.50	5.65	6.44	6.83	6.02	5.02	4.65	4.63	4.51	4.53	4.54	4.48	4.49	4.56
75	8.22	6.90	6.36	4.67	3.81	3.64	3.53	3.74	3.83	3.39	2.86	2.56	2.42	2.28	2.20	2.15	2.16	2.16	2.21
80	3.51	3.21	2.79	2.51	2.28	2.00	1.78	1.42	1.10	0.83	0.59	0.40	0.26	0.14	0.06	0.02	0.00	0.02	0.06
85	1.40	1.34	1.08	0.47	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:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:226.2V I:1.812A P:400.0W PF:0.9790 Lamp Flux:36159.9x1 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	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327	2327				
5	2366	2367	2368	2367	2365	2361	2357	2354	2351	2348	2345	2342	2339	2336	2333				
10	2400	2395	2390	2385	2383	2382	2376	2376	2377	2375	2372	2366	2360	2354	2347				
15	2426	2419	2418	2419	2424	2431	2436	2447	2448	2441	2443	2437	2427	2418	2406				
20	2031	2077	2141	2229	2342	2460	2528	2543	2535	2525	2516	2505	2494	2477	2458				
25	1592	1645	1728	1837	1961	2108	2257	2429	2595	2568	2541	2509	2472	2446	2431				
30	1142	1203	1294	1416	1546	1703	1866	2026	2174	2338	2391	2340	2297	2267	2256				
35	784	829	911	993	1099	1250	1378	1524	1682	1856	2060	2140	2097	2059	2034				
40	441	495	571	659	756	823	883	1017	1193	1385	1590	1776	1776	1723	1726				
45	99.1	153	225	315	399	480	562	640	706	892	1062	1217	1342	1316	1311				
50	24.0	22.9	22.5	25.5	72.0	174	273	353	428	494	617	720	793	804	809				
55	16.7	16.5	17.0	20.0	23.8	26.6	34.4	127	206	259	278	329	353	388	395				
60	9.99	10.4	11.3	13.5	15.6	20.1	26.0	24.6	23.6	86.5	108	71.8	109	127	132				
65	6.92	7.02	7.13	7.48	8.29	11.1	13.9	12.4	11.6	12.3	22.2	28.5	28.4	31.9	34.8				
70	4.62	4.74	4.86	5.18	5.99	6.52	6.60	6.66	7.17	7.97	9.80	10.6	14.5	17.8	22.0				
75	2.31	2.45	2.62	2.87	3.41	3.72	3.88	4.26	3.70	4.02	4.57	6.13	6.67	8.21	9.62				
80	0.14	0.26	0.40	0.60	0.84	1.13	1.48	1.91	2.07	2.28	2.54	2.89	3.35	3.62	4.05				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	1.13	1.42	1.50	1.60				
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:2014-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: