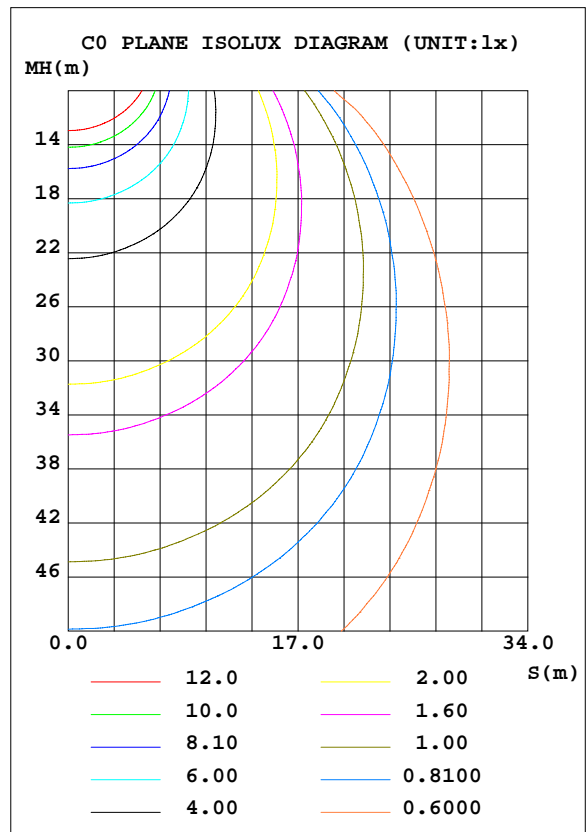
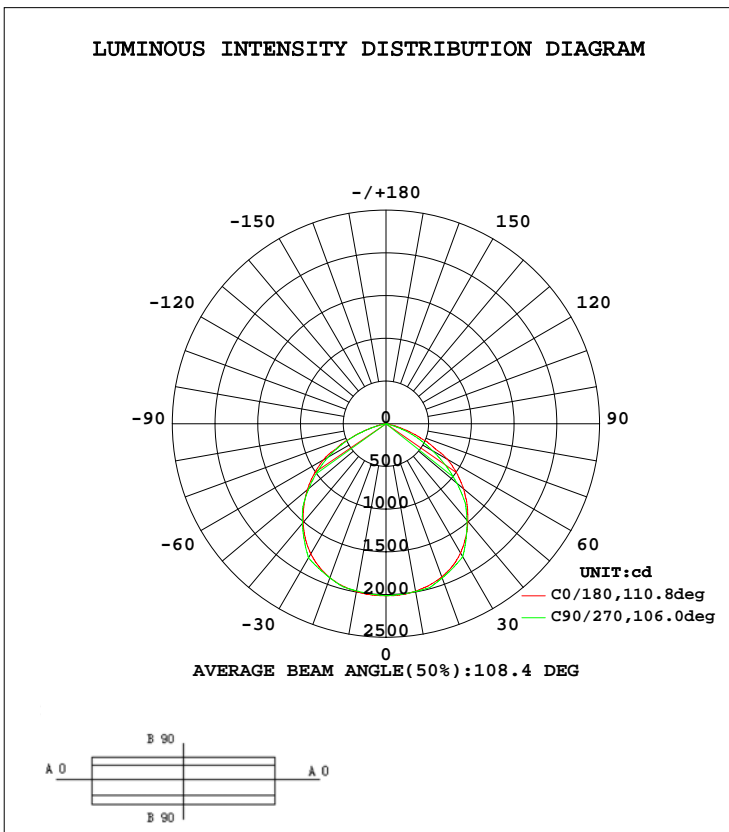


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.78 lm/W			
MODEL	QH-FLTG-50W	Imax(cd)	2014	S/MH(C0/180)	1.28
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	5312.9	η UP, DN(C0-180)	0.0, 48.8
NOMINAL FLUX(lm)	5312.88	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.6	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:2016-10-15

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	2009	2004	2004	2005	2010	2002	2000	2001	0- 5	47.99	47.99	0.90
10	1989	1988	1994	1992	1993	1986	1987	1982	5- 10	142.8	190.8	3.59
15	1957	1962	1984	1969	1964	1962	1973	1954	10- 15	234.4	425.2	8
20	1909	1933	1922	1942	1918	1934	1920	1921	15- 20	320.3	745.5	14
25	1838	1866	1860	1875	1848	1874	1867	1861	20- 25	396.5	1142	21.5
30	1746	1784	1798	1794	1760	1803	1814	1788	25- 30	461.6	1604	30.2
35	1626	1692	1636	1702	1644	1719	1668	1706	30- 35	510.5	2114	39.8
40	1489	1571	1475	1585	1508	1612	1522	1597	35- 40	535.9	2650	49.9
45	1342	1381	1313	1396	1359	1440	1376	1422	40- 45	539.8	3190	60
50	1185	1192	1083	1204	1201	1263	1179	1243	45- 50	521.6	3711	69.9
55	1014	994.9	853.9	1007	1028	1082	982.6	1060	50- 55	478.2	4190	78.9
60	826.5	754.3	624.3	760.8	843.9	866.8	785.6	822.9	55- 60	413.9	4603	86.6
65	573.8	517.0	429.4	522.4	589.3	654.6	562.6	591.4	60- 65	327.5	4931	92.8
70	335.9	293.5	234.6	313.0	357.7	437.9	339.7	377.6	65- 70	224.8	5156	97
75	132.4	130.7	39.71	134.3	142.3	214.9	116.7	187.8	70- 75	119.5	5275	99.3
80	7.205	4.059	0	3.132	13.87	26.06	0	26.36	75- 80	35.19	5310	100
85	1.361	0	0	0	1.729	0	0	0	80- 85	2.365	5313	100
90	0.4200	0	0	0	0.8002	0	0	0	85- 90	0.0945	5313	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		

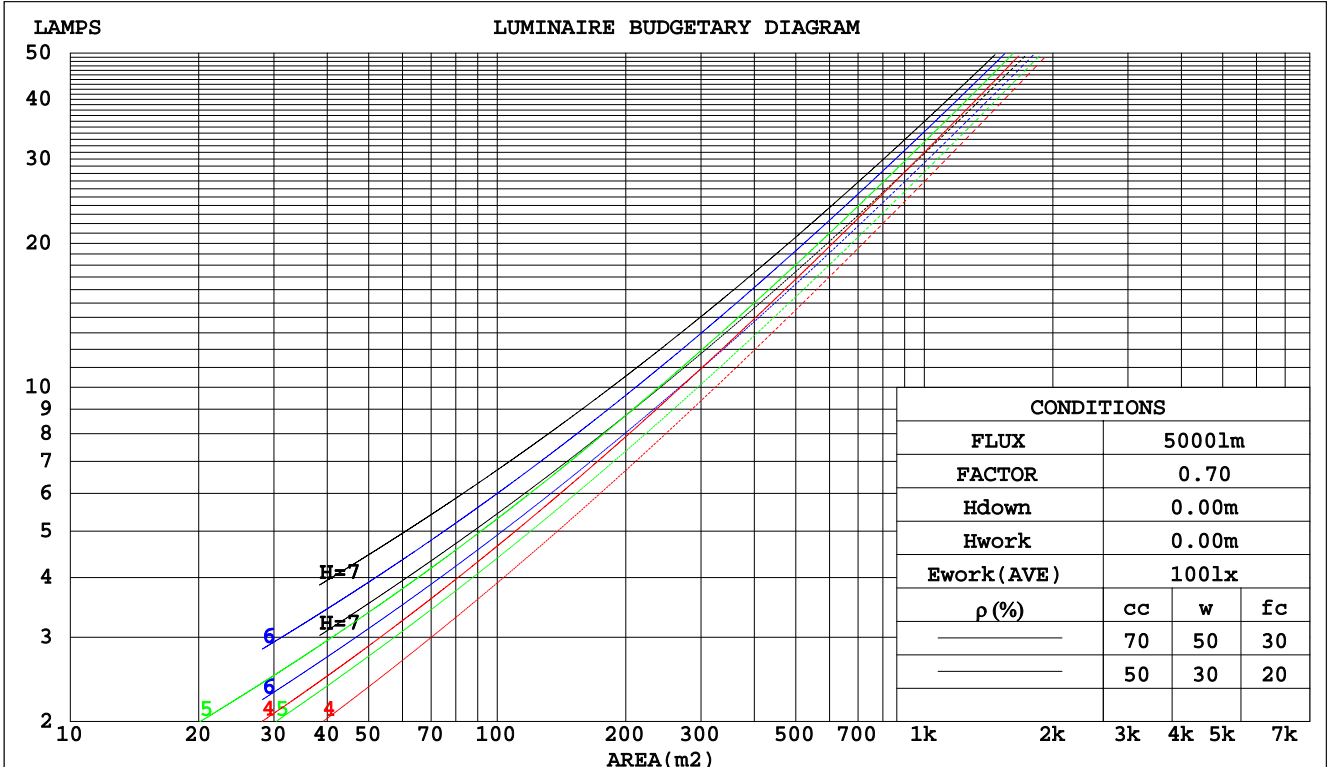
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
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	1.00
1.0	1.06	1.02	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.82	.92	.86	.81	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.68	.76	.71	.66	.73	.69	.65	.63
4.0	.74	.66	.59	.72	.65	.59	.70	.63	.58	.68	.62	.57	.66	.61	.56	.54
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.43	.41
7.0	.54	.46	.40	.53	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.49	.41	.35	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.45	.37	.32	.45	.37	.32	.44	.37	.32	.42	.36	.31	.41	.36	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.28	.27



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
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	.265	.151	.048	.258	.147	.047	.245	.141	.045	.233	.135	.043	.222	.129	.042	
2.0	.261	.143	.044	.254	.140	.043	.243	.135	.042	.232	.130	.041	.223	.126	.040	
3.0	.247	.132	.039	.242	.130	.039	.232	.126	.038	.223	.122	.037	.214	.118	.037	
4.0	.232	.121	.035	.228	.119	.035	.219	.116	.035	.210	.113	.034	.203	.110	.034	
5.0	.218	.111	.032	.213	.110	.032	.205	.107	.031	.198	.104	.031	.191	.102	.031	
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.186	.097	.028	.180	.095	.028	
7.0	.191	.094	.027	.188	.093	.027	.181	.092	.026	.175	.090	.026	.170	.088	.026	
8.0	.179	.088	.025	.176	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022	
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.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	.119	.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	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.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	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.023	.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:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm										
NAME: LED FLOOD LIGHT					TYPE:IP65			WEIGHT:1.5		
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	22.9	24.3	23.2	24.5	24.7	22.0	23.5	22.3	23.7	23.9
3H	23.7	25.0	24.0	25.2	25.4	22.6	23.9	22.9	24.1	24.3
4H	23.7	25.0	24.0	25.2	25.5	22.5	23.8	22.8	24.0	24.3
6H	23.6	24.8	24.0	25.1	25.4	22.4	23.6	22.7	23.9	24.1
8H	23.6	24.7	23.9	25.0	25.3	22.4	23.5	22.7	23.8	24.1
12H	23.5	24.6	23.9	24.9	25.2	22.3	23.4	22.7	23.7	24.0
4H 2H	23.2	24.5	23.5	24.7	25.0	22.5	23.8	22.8	24.0	24.3
3H	24.1	25.2	24.4	25.4	25.7	23.1	24.2	23.5	24.5	24.8
4H	24.2	25.1	24.5	25.5	25.8	23.1	24.1	23.5	24.4	24.7
6H	24.1	25.0	24.5	25.3	25.7	23.0	23.9	23.4	24.2	24.6
8H	24.1	24.9	24.5	25.2	25.6	23.0	23.8	23.4	24.1	24.5
12H	24.0	24.7	24.4	25.1	25.5	22.9	23.7	23.4	24.0	24.4
8H 4H	24.1	24.9	24.5	25.3	25.7	23.1	23.9	23.5	24.3	24.6
6H	24.1	24.7	24.5	25.1	25.6	23.0	23.7	23.5	24.1	24.5
8H	24.0	24.6	24.5	25.0	25.5	23.0	23.6	23.4	24.0	24.4
12H	24.0	24.5	24.5	24.9	25.4	22.9	23.4	23.4	23.9	24.3
12H 4H	24.1	24.8	24.5	25.2	25.6	23.1	23.8	23.5	24.2	24.6
6H	24.0	24.6	24.5	25.0	25.5	23.0	23.6	23.4	24.0	24.4
8H	24.0	24.5	24.5	24.9	25.4	22.9	23.4	23.4	23.9	24.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.5 / - 0.6				
1.5H	+ 0.4 / - 0.5					+ 0.3 / - 0.7				
2.0H	+ 0.5 / - 0.7					+ 0.8 / - 1.2				

CIE Pub.117 Corrected 5313 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.8)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

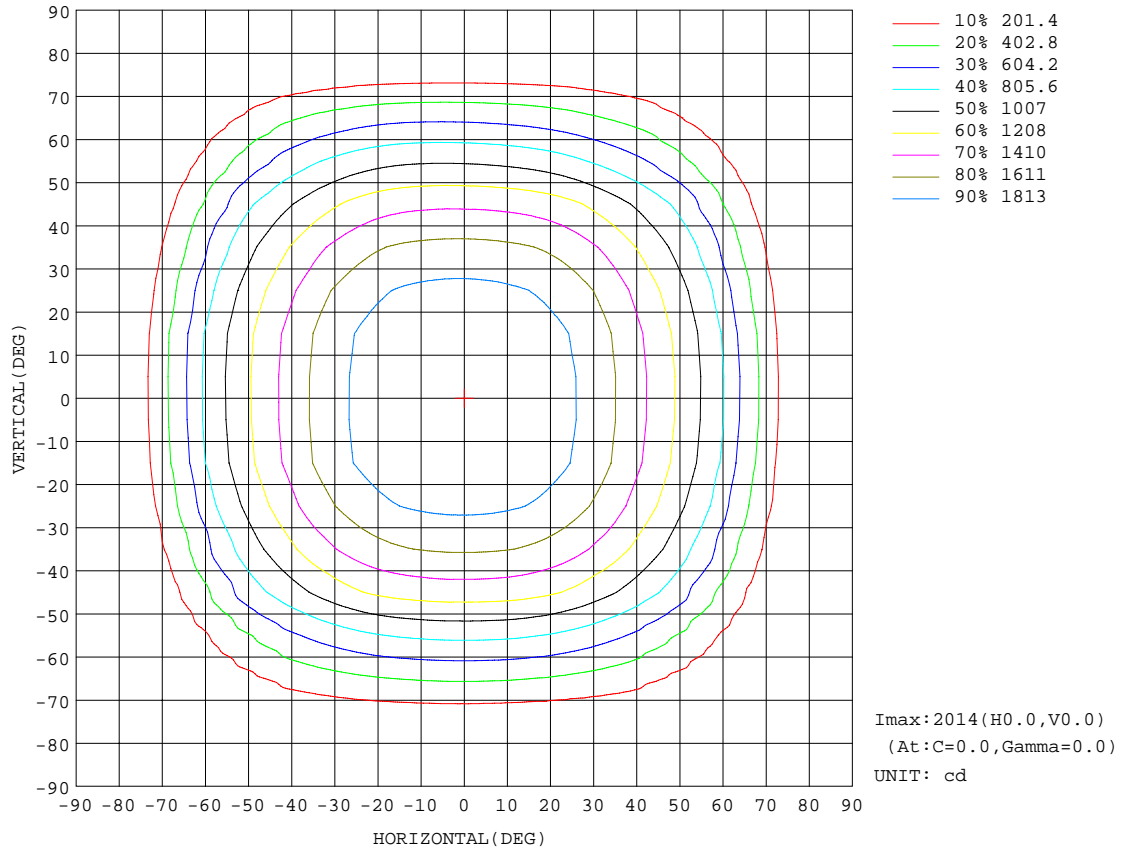
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	49	42	58	48	42	36
0.80	71	60	53	70	59	52	68	58	52	45
1.00	79	69	62	78	69	62	76	70	62	55
1.25	87	77	70	85	76	70	83	75	69	62
1.50	91	83	76	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	102	95	89	100	93	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	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:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

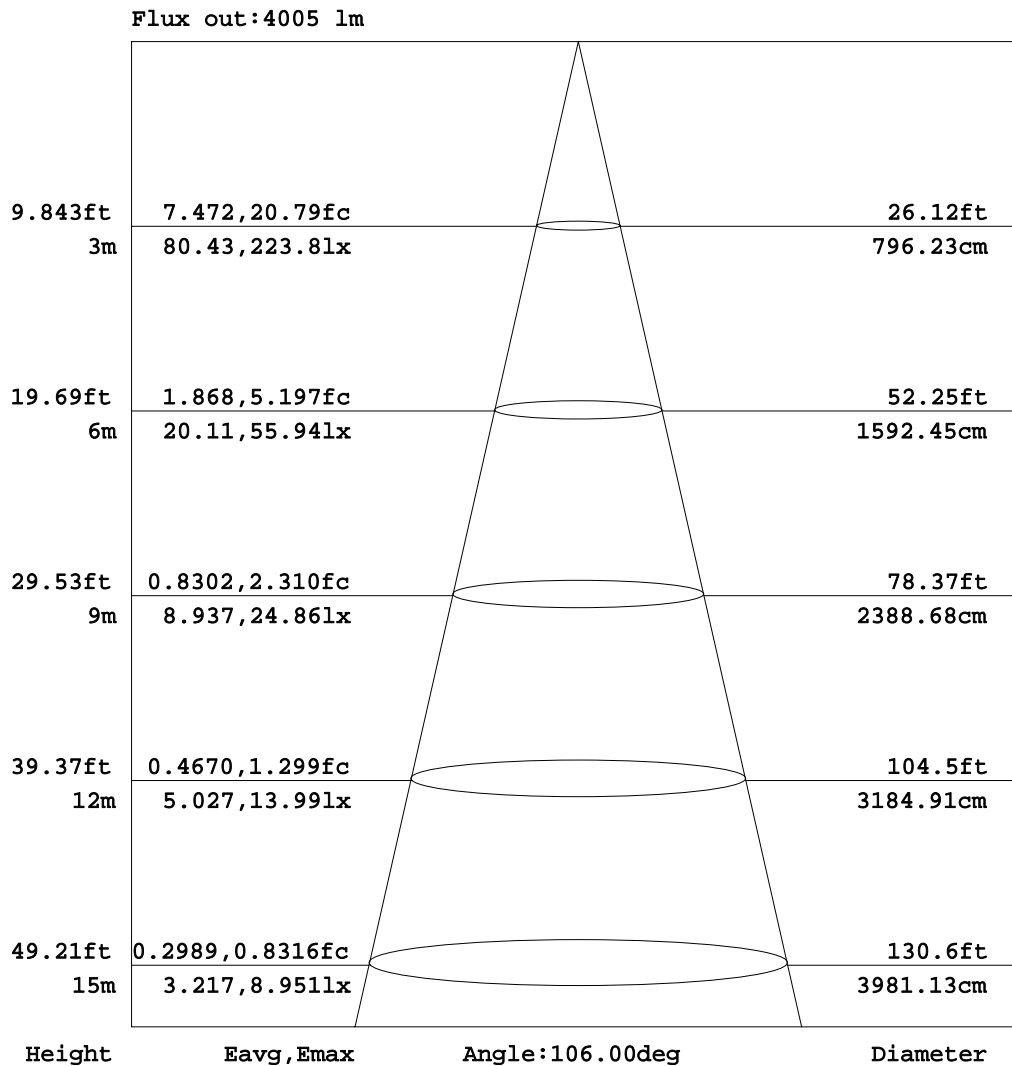


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



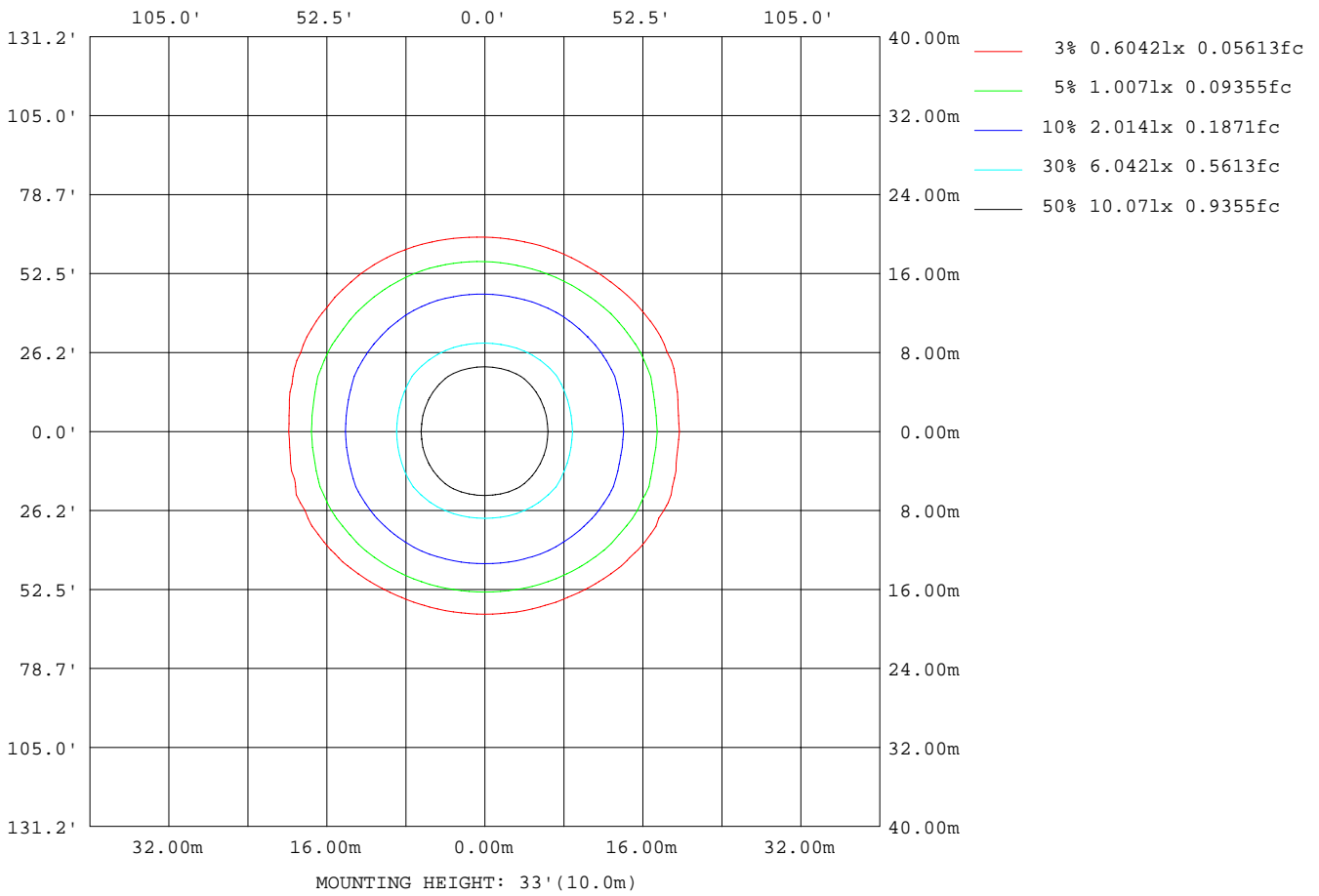
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-10-15

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

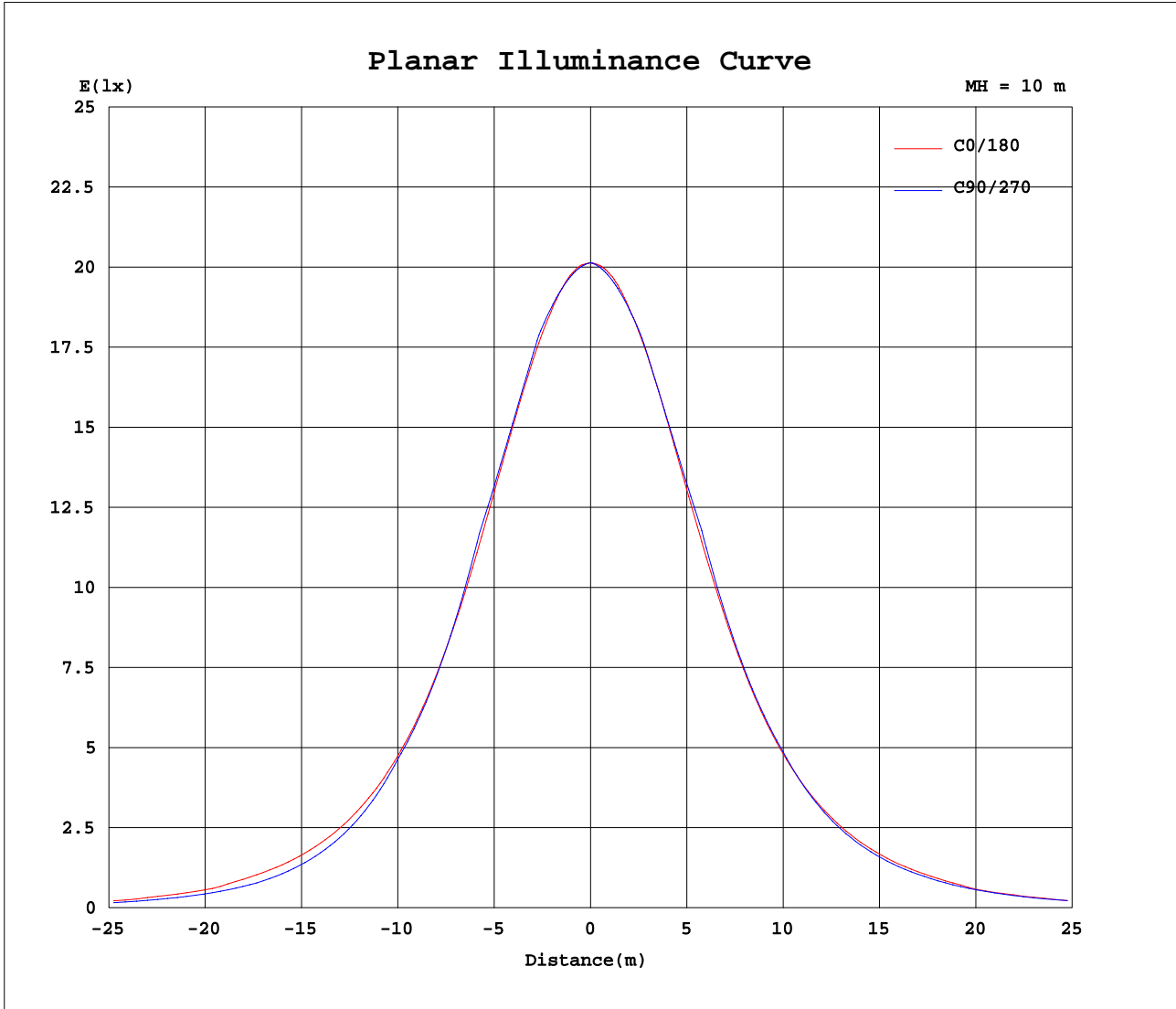
Test:U:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
SPEC.:PHILIPS 3030	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-10-15

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: 2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
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	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014
5	2009	2008	2007	2006	2006	2005	2005	2005	2005	2004	2004	2004	2004	2004	2003	2003	2003	2003	2004
10	1989	1987	1986	1985	1985	1985	1985	1985	1986	1988	1988	1989	1990	1991	1992	1992	1993	1993	1994
15	1957	1955	1953	1953	1953	1953	1955	1956	1959	1962	1966	1969	1972	1975	1977	1981	1982	1983	1984
20	1909	1906	1905	1906	1907	1911	1916	1921	1926	1933	1934	1929	1927	1925	1923	1922	1922	1922	1922
25	1838	1835	1835	1838	1845	1852	1862	1873	1869	1866	1863	1862	1861	1860	1859	1859	1859	1860	1860
30	1746	1741	1742	1748	1759	1775	1782	1780	1782	1784	1788	1791	1792	1795	1796	1797	1797	1798	1798
35	1626	1621	1623	1633	1651	1662	1663	1669	1679	1692	1703	1714	1697	1679	1665	1652	1644	1638	1636
40	1489	1482	1486	1500	1516	1521	1534	1548	1563	1571	1557	1543	1529	1514	1502	1491	1482	1476	1475
45	1342	1334	1339	1356	1357	1366	1385	1417	1403	1381	1371	1364	1356	1346	1338	1329	1320	1315	1313
50	1185	1174	1180	1189	1195	1210	1226	1208	1198	1192	1183	1183	1168	1147	1126	1110	1095	1087	1083
55	1014	1002	1013	1011	1023	1036	1019	1007	1002	995	969	947	926	909	890	876	865	857	854
60	827	814	814	821	840	818	813	811	777	754	728	708	687	671	654	642	633	626	624
65	574	564	555	576	559	571	584	552	527	517	494	474	463	455	447	439	434	430	429
70	336	319	321	328	324	318	314	303	292	294	302	288	276	264	255	244	238	234	235
75	132	124	125	126	129	122	113	131	136	131	126	105	87.2	72.1	59.5	47.4	40.9	38.2	39.7
80	7.21	8.24	5.86	17.3	16.4	30.7	35.3	26.5	9.90	4.06	5.28	4.90	4.46	3.80	3.01	1.92	0.97	0.27	0.00
85	1.36	1.56	1.84	1.92	1.56	0.70	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	0.42	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:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
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	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014
5	2003	2003	2003	2003	2004	2004	2004	2005	2005	2005	2005	2006	2007	2007	2008	2008	2009	2010	2009
10	1994	1993	1994	1994	1994	1993	1993	1993	1992	1991	1991	1990	1991	1990	1990	1990	1991	1993	1991
15	1984	1984	1984	1982	1981	1978	1976	1973	1969	1966	1964	1963	1961	1960	1960	1961	1962	1964	1961
20	1922	1924	1925	1928	1931	1934	1937	1942	1942	1936	1931	1925	1921	1917	1915	1915	1916	1918	1915
25	1860	1862	1862	1863	1864	1866	1869	1872	1875	1880	1885	1875	1865	1857	1851	1847	1846	1848	1845
30	1798	1797	1797	1797	1798	1797	1797	1795	1794	1794	1795	1800	1794	1779	1767	1760	1757	1760	1756
35	1639	1644	1653	1666	1682	1702	1719	1711	1702	1693	1687	1684	1685	1676	1658	1647	1642	1644	1641
40	1478	1483	1490	1503	1518	1534	1551	1568	1585	1578	1563	1554	1547	1545	1529	1512	1505	1508	1505
45	1317	1321	1328	1338	1351	1364	1374	1383	1396	1412	1435	1408	1388	1383	1385	1362	1354	1359	1356
50	1088	1096	1109	1129	1152	1178	1193	1198	1204	1215	1224	1238	1225	1212	1214	1204	1194	1201	1198
55	857	864	876	893	914	934	957	980	1007	1013	1020	1030	1050	1038	1033	1037	1022	1028	1028
60	626	632	642	656	673	691	713	737	761	792	822	827	835	850	841	846	837	844	846
65	431	434	440	449	457	465	475	496	522	532	569	606	583	607	590	580	583	589	592
70	236	240	246	255	265	276	289	301	313	293	304	317	348	353	339	332	363	358	365
75	42.1	45.1	51.8	62.1	75.5	89.8	105	123	134	146	141	120	123	141	133	144	144	142	154
80	0.30	1.11	2.25	3.59	4.89	5.37	3.94	3.01	3.13	8.80	26.5	35.6	31.5	19.5	23.0	8.79	12.9	13.9	16.1
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	0.81	1.73	2.28	2.30	1.97	1.73	1.74
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	0.80	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
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	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014
5	2008	2007	2006	2005	2004	2003	2003	2002	2002	2001	2000	2000	2000	2000	2000	2000	2000	1999	1999
10	1989	1988	1987	1987	1986	1986	1986	1986	1987	1985	1986	1986	1986	1986	1986	1986	1987	1985	1985
15	1959	1958	1957	1957	1958	1959	1960	1962	1964	1966	1968	1970	1971	1972	1973	1973	1973	1971	1969
20	1913	1913	1914	1916	1920	1924	1928	1934	1934	1931	1929	1926	1925	1923	1921	1920	1920	1918	1917
25	1846	1849	1855	1861	1871	1880	1876	1874	1873	1873	1872	1871	1870	1869	1869	1868	1867	1865	1864
30	1759	1764	1775	1790	1798	1798	1799	1803	1806	1810	1814	1815	1815	1815	1816	1815	1814	1813	1811
35	1645	1657	1675	1686	1690	1696	1707	1719	1733	1743	1729	1714	1699	1687	1677	1671	1668	1668	1672
40	1513	1530	1546	1552	1567	1585	1603	1612	1601	1591	1578	1565	1553	1541	1532	1526	1522	1522	1526
45	1366	1390	1393	1406	1427	1458	1451	1440	1434	1429	1425	1416	1406	1396	1387	1380	1376	1376	1378
50	1211	1227	1232	1251	1273	1265	1262	1263	1263	1267	1258	1243	1226	1210	1196	1186	1179	1178	1182
55	1048	1053	1067	1087	1077	1077	1079	1082	1071	1062	1052	1041	1028	1014	1000	991	983	979	979
60	861	868	888	884	886	893	879	867	862	854	846	838	829	817	805	795	786	780	776
65	595	619	638	636	675	657	653	655	653	647	631	620	607	593	580	570	563	559	558
70	360	368	394	407	407	411	409	438	425	414	400	389	376	363	352	344	340	339	340
75	154	164	174	177	186	205	215	215	200	185	169	159	144	132	124	118	117	118	122
80	19.4	26.2	36.0	53.4	56.2	47.8	30.5	26.1	29.7	28.3	24.4	19.7	13.0	7.54	3.43	0.87	0.00	0.87	3.41
85	1.70	1.71	1.42	0.68	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:2016-10-15

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:220.6V I:0.2490A P:52.20W PF:0.9500 Lamp Flux:5312.88x1 lm		
NAME: LED FLOOD LIGHT	TYPE:IP65	WEIGHT:1.5
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	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014				
5	1999	1999	2000	2000	2001	2001	2001	2002	2003	2003	2004	2004	2005	2006	2008				
10	1984	1984	1983	1983	1982	1982	1982	1981	1981	1982	1982	1983	1984	1985	1987				
15	1967	1966	1964	1962	1960	1957	1954	1952	1950	1949	1948	1949	1950	1951	1954				
20	1918	1918	1919	1920	1920	1923	1921	1916	1913	1908	1905	1903	1902	1903	1905				
25	1864	1863	1862	1861	1860	1860	1861	1862	1864	1855	1847	1840	1836	1833	1834				
30	1810	1806	1804	1800	1797	1793	1788	1784	1781	1779	1771	1758	1748	1742	1741				
35	1678	1687	1701	1716	1730	1719	1706	1691	1679	1670	1664	1651	1634	1623	1621				
40	1531	1541	1551	1564	1576	1587	1597	1585	1565	1545	1530	1521	1504	1490	1484				
45	1385	1392	1400	1408	1414	1417	1422	1433	1442	1407	1382	1368	1362	1343	1336				
50	1190	1204	1221	1240	1248	1244	1243	1243	1245	1254	1232	1211	1201	1188	1178				
55	984	992	1002	1013	1026	1040	1060	1057	1055	1057	1066	1048	1029	1023	1007				
60	775	778	781	787	794	806	823	846	872	864	863	871	845	833	820				
65	560	563	565	565	568	576	591	606	619	648	617	619	602	572	571				
70	345	351	357	360	365	371	378	350	369	370	385	378	357	343	335				
75	130	140	152	157	167	178	188	184	175	160	157	163	153	142	133				
80	7.50	12.9	19.5	24.1	27.8	28.4	26.4	26.9	40.8	48.1	45.7	27.9	23.5	13.2	9.46				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	1.26	1.51	1.45	1.36				
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:2016-10-15

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: