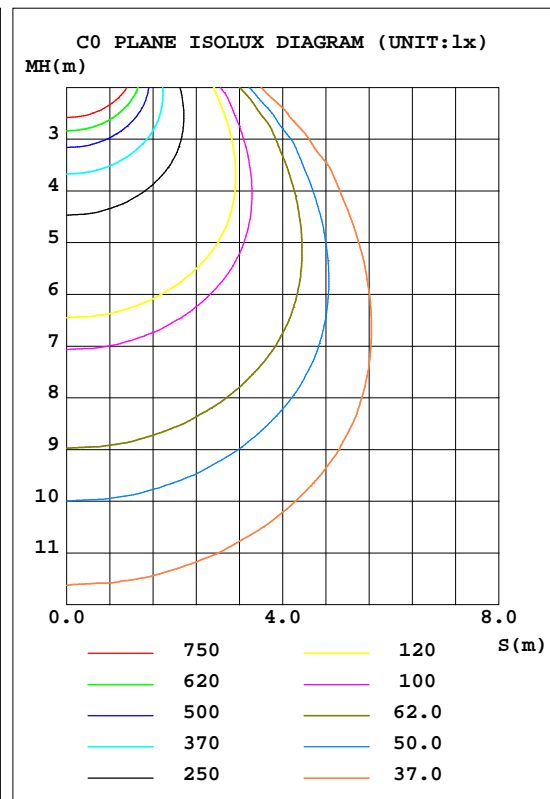
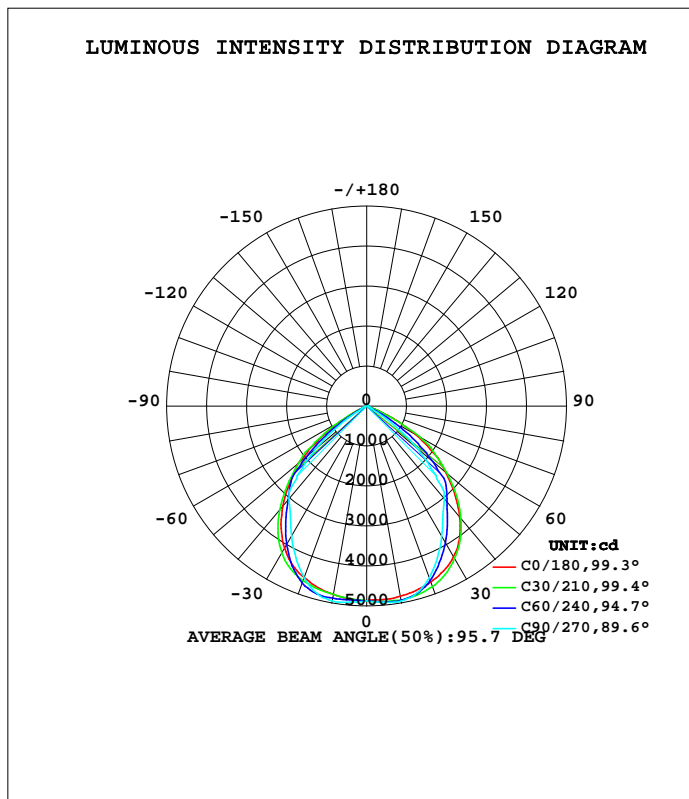


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.78 lm/W			
MODEL		I _{max} (cd)	4958	S/MH(C0/180)	1.31
NOMINAL POWER(W)	114	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	242	TOTAL FLUX(lm)	10164	η UP, DN(C0-180)	0.7, 50.1
NOMINAL FLUX(lm)	10163.6	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.7, 48.5
LAMPS INSIDE	1	η up(%)	1.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	241.8	η down(%)	98.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [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
10	4831	4929	4952	4831	4783	4831	4952	4929	0- 10	466.0	466.0	4.59,4.59
20	4690	4725	4576	4679	4572	4679	4576	4725	10- 20	1359	1825	18,18
30	4348	4171	3759	4125	4110	4125	3759	4171	20- 30	2033	3857	38,38
40	3620	3400	3027	3219	3263	3219	3027	3400	30- 40	2315	6172	60.7,60.7
50	2581	2408	1685	2073	2246	2073	1685	2408	40- 50	2141	8313	81.8,81.8
60	1359	1102	181.3	602.5	775.4	602.5	181.3	1102	50- 60	1318	9631	94.8,94.8
70	136.0	107.8	59.68	40.97	30.76	40.97	59.68	107.8	60- 70	323.0	9954	97.9,97.9
80	26.93	22.73	21.62	20.66	21.36	20.66	21.62	22.73	70- 80	36.55	9990	98.3,98.3
90	20.06	19.54	19.84	20.61	20.59	20.61	19.84	19.54	80- 90	22.19	10012	98.5,98.5
100	21.34	20.70	21.04	22.02	21.96	22.02	21.04	20.70	90-100	22.60	10035	98.7,98.7
110	22.51	21.80	22.19	23.13	23.08	23.13	22.19	21.80	100-110	23.19	10058	99,99
120	23.49	22.98	23.67	24.31	24.29	24.31	23.67	22.98	110-120	22.88	10081	99.2,99.2
130	24.55	24.37	25.37	25.67	25.50	25.67	25.37	24.37	120-130	21.86	10103	99.4,99.4
140	24.81	24.84	25.73	25.94	25.71	25.94	25.73	24.84	130-140	19.50	10123	99.6,99.6
150	25.83	26.12	26.99	27.13	26.80	27.13	26.99	26.12	140-150	16.29	10139	99.8,99.8
160	28.28	28.70	29.45	29.90	29.74	29.90	29.45	28.70	150-160	12.89	10152	99.9,99.9
170	31.49	31.75	32.58	32.87	33.26	32.87	32.58	31.75	160-170	8.677	10160	100,100
180	34.25	34.48	35.32	34.82	35.48	34.82	35.32	34.48	170-180	3.182	10164	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

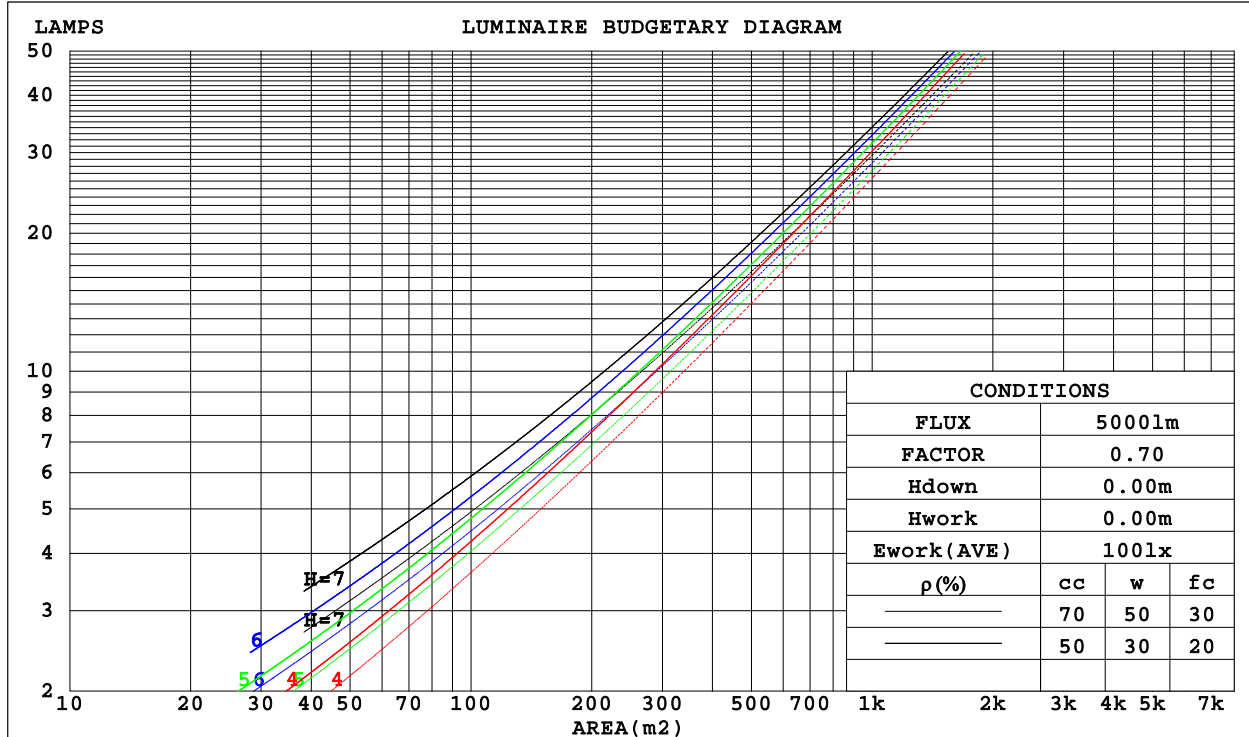
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.08	1.04	1.02	1.05	1.02	.90	1.01	.99	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.97	.92	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.87	.81	.76	.86	.80	.75	.83	.78	.73	.80	.76	.72	.77	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.65	.75	.69	.64	.73	.68	.64	.70	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.66	.61	.56	.64	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48
7.0	.59	.52	.46	.59	.51	.46	.57	.50	.46	.56	.50	.45	.54	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.37	.47	.41	.37	.46	.41	.37	.35
10.0	.47	.39	.35	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.230	.131	.041	.223	.127	.040	.209	.120	.038	.196	.113	.036	.185	.107	.035	
2.0	.226	.124	.038	.219	.121	.037	.207	.115	.036	.196	.110	.034	.186	.105	.033	
3.0	.216	.115	.034	.211	.113	.034	.200	.109	.033	.191	.105	.032	.182	.101	.031	
4.0	.206	.107	.031	.201	.105	.031	.192	.102	.030	.183	.098	.030	.175	.095	.029	
5.0	.195	.099	.029	.191	.098	.029	.183	.095	.028	.175	.092	.027	.168	.090	.027	
6.0	.185	.093	.027	.181	.091	.026	.174	.089	.026	.167	.087	.025	.160	.084	.025	
7.0	.175	.086	.025	.171	.085	.024	.165	.083	.024	.159	.081	.024	.153	.079	.023	
8.0	.166	.081	.023	.163	.080	.023	.157	.078	.022	.151	.076	.022	.146	.075	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.139	.071	.020	
10.0	.149	.072	.020	.147	.071	.020	.142	.069	.020	.137	.068	.019	.133	.067	.019	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.202	.202	.202	.172	.172	.172	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.186	.168	.152	.159	.144	.131	.109	.099	.091	.063	.057	.053	.020	.019	.017	
2.0	.175	.144	.118	.150	.124	.102	.103	.086	.071	.059	.050	.042	.019	.016	.014	
3.0	.166	.125	.093	.142	.108	.081	.098	.075	.057	.056	.044	.033	.018	.014	.011	
4.0	.158	.112	.076	.135	.096	.066	.093	.067	.047	.054	.039	.028	.017	.013	.009	
5.0	.151	.101	.064	.129	.087	.056	.089	.061	.039	.052	.036	.023	.017	.012	.008	
6.0	.144	.092	.055	.124	.080	.048	.085	.056	.034	.050	.033	.020	.016	.011	.007	
7.0	.138	.085	.048	.119	.074	.042	.082	.052	.030	.048	.031	.018	.015	.010	.006	
8.0	.132	.079	.043	.114	.069	.037	.079	.048	.027	.046	.029	.016	.015	.009	.005	
9.0	.127	.074	.039	.110	.065	.034	.076	.045	.024	.044	.027	.014	.014	.009	.005	
10.0	.122	.070	.036	.105	.061	.031	.073	.043	.022	.043	.025	.013	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: 120W LED Floodlight		TYPE:投光灯具					WEIGHT:1				
DIM.:		SPEC.:					SERIAL No.:				
MFR.:		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	21.7	23.0	21.9	23.2	23.4	18.7	20.0	19.0	20.2	20.5	
3H	21.7	22.8	22.0	23.1	23.3	18.6	19.7	18.9	20.0	20.2	
4H	21.6	22.7	21.9	22.9	23.2	18.5	19.6	18.8	19.8	20.1	
6H	21.5	22.5	21.8	22.8	23.1	18.4	19.4	18.7	19.7	20.0	
8H	21.4	22.4	21.8	22.7	23.0	18.3	19.3	18.7	19.6	19.9	
12H	21.4	22.3	21.8	22.6	23.0	18.3	19.2	18.7	19.5	19.9	
4H 2H	21.6	22.7	21.9	23.0	23.2	19.1	20.1	19.4	20.4	20.7	
3H	21.6	22.6	22.0	22.9	23.2	18.9	19.8	19.3	20.1	20.5	
4H	21.5	22.4	21.9	22.7	23.1	18.8	19.6	19.2	20.0	20.3	
6H	21.4	22.2	21.9	22.6	22.9	18.7	19.5	19.1	19.8	20.2	
8H	21.4	22.1	21.8	22.5	22.9	18.7	19.4	19.1	19.7	20.1	
12H	21.4	22.0	21.8	22.4	22.8	18.6	19.3	19.1	19.7	20.1	
8H 4H	21.4	22.1	21.8	22.5	22.9	18.7	19.4	19.1	19.7	20.1	
6H	21.3	21.9	21.8	22.3	22.7	18.6	19.1	19.1	19.6	20.0	
8H	21.3	21.8	21.7	22.2	22.7	18.6	19.0	19.0	19.5	20.0	
12H	21.2	21.7	21.7	22.1	22.6	18.5	18.9	19.0	19.4	19.9	
12H 4H	21.4	22.0	21.8	22.4	22.8	18.6	19.2	19.1	19.7	20.1	
6H	21.3	21.8	21.7	22.2	22.7	18.5	19.0	19.0	19.5	20.0	
8H	21.2	21.6	21.7	22.1	22.6	18.5	18.9	19.0	19.4	19.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 1.8 / - 3.1					
1.5H	+ 0.6 / - 0.9					+ 0.9 / - 1.6					
2.0H	+ 1.3 / - 2.6					+ 2.7 / -10.4					

CIE Pub.117 Corrected 10164 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.1)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

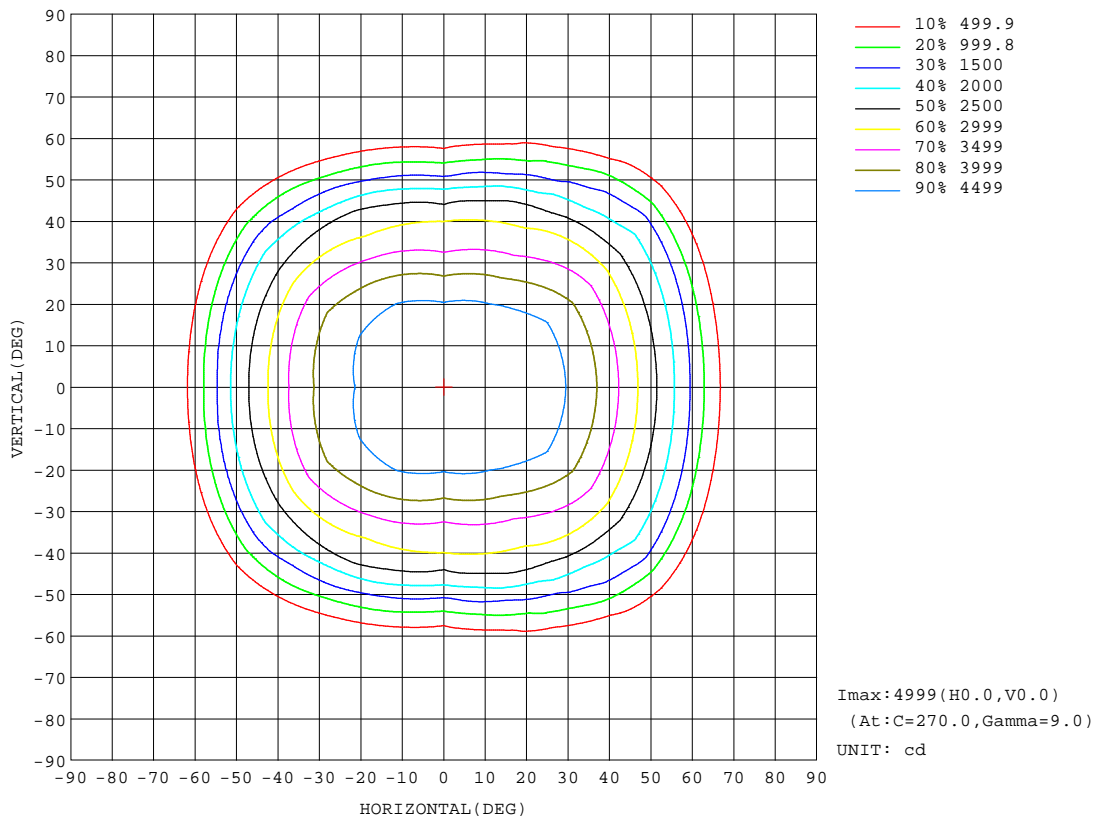
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	66	56	50	65	56	50	64	55	50	44
0.80	77	67	61	76	67	61	74	66	60	54
1.00	85	76	70	84	76	70	82	76	70	64
1.25	92	84	78	90	83	78	88	82	77	71
1.50	96	89	83	95	88	83	92	86	82	75
2.00	102	95	91	100	94	90	97	92	88	81
2.50	104	99	94	102	97	93	99	94	91	84
3.00	107	102	98	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	89
5.00	111	108	104	109	106	103	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



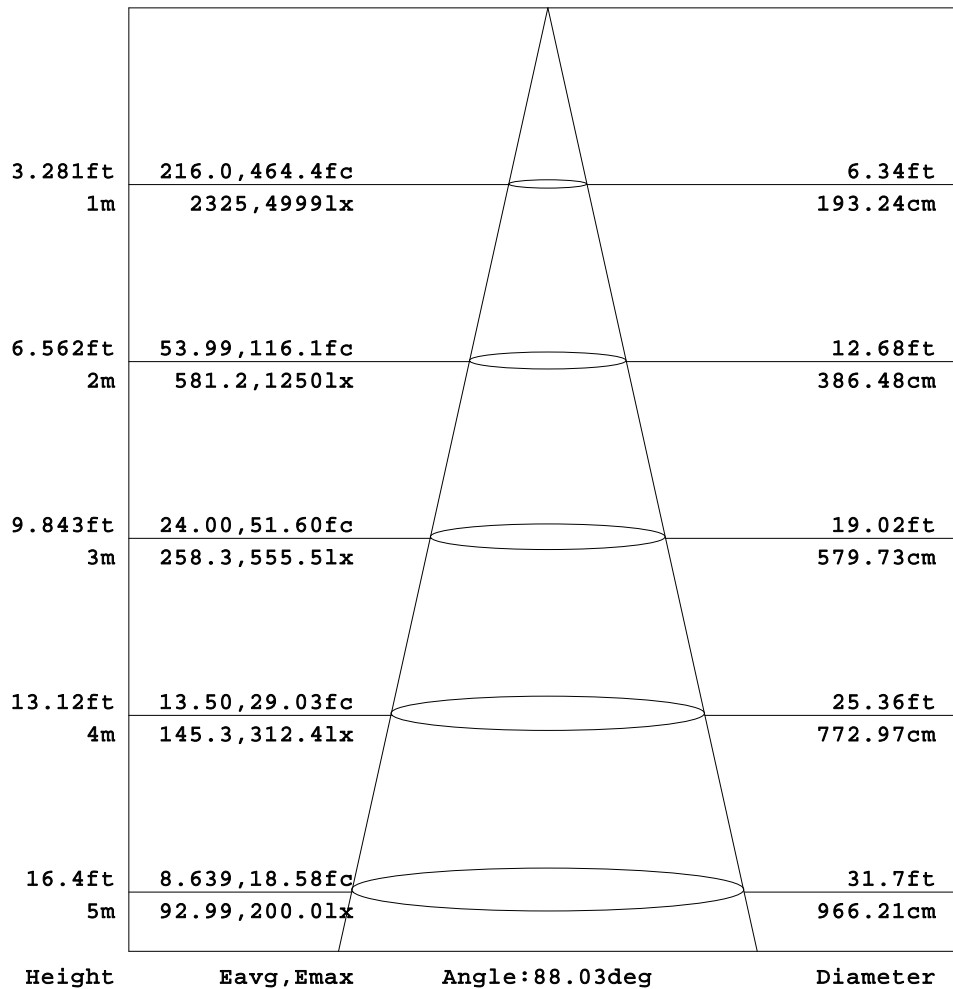
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.000m [K=1.0000]
 Remarks:

AAI Figure

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:7303 lm



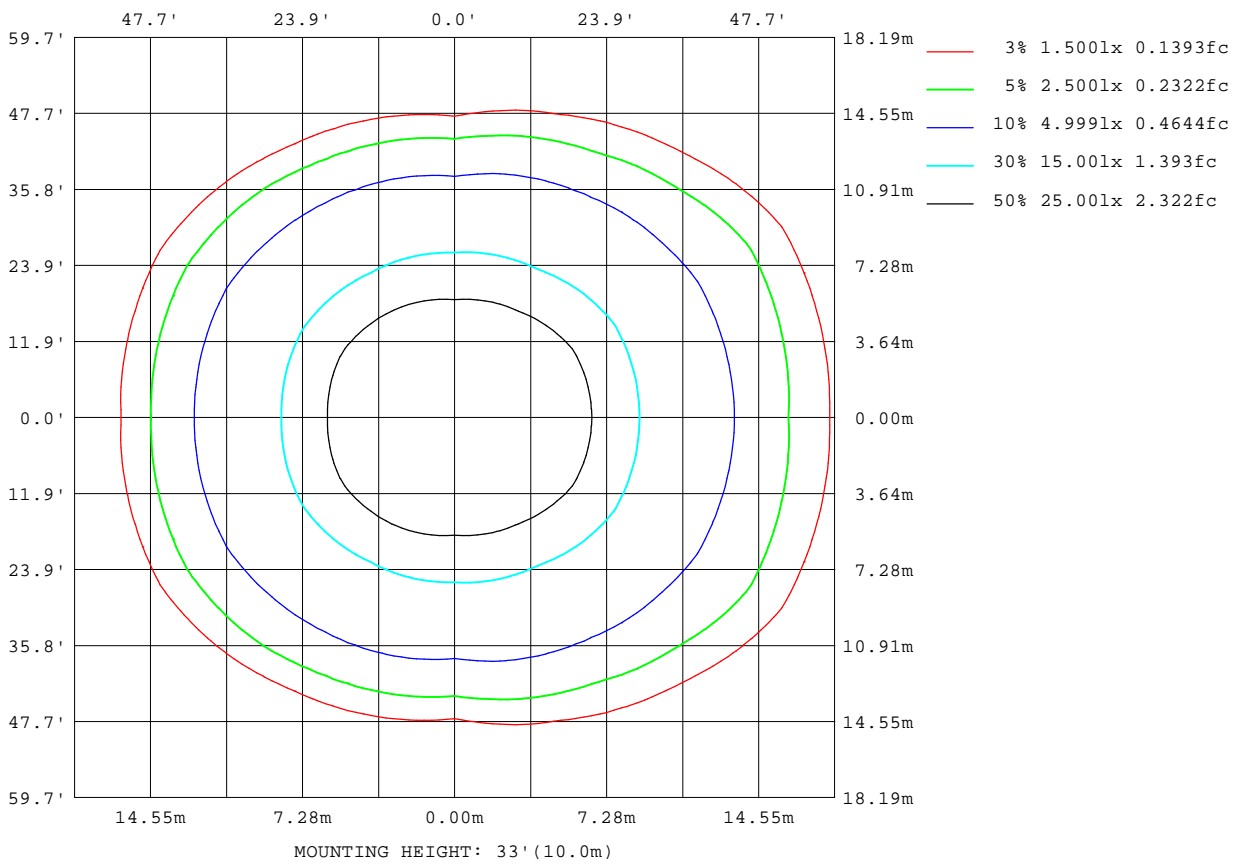
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

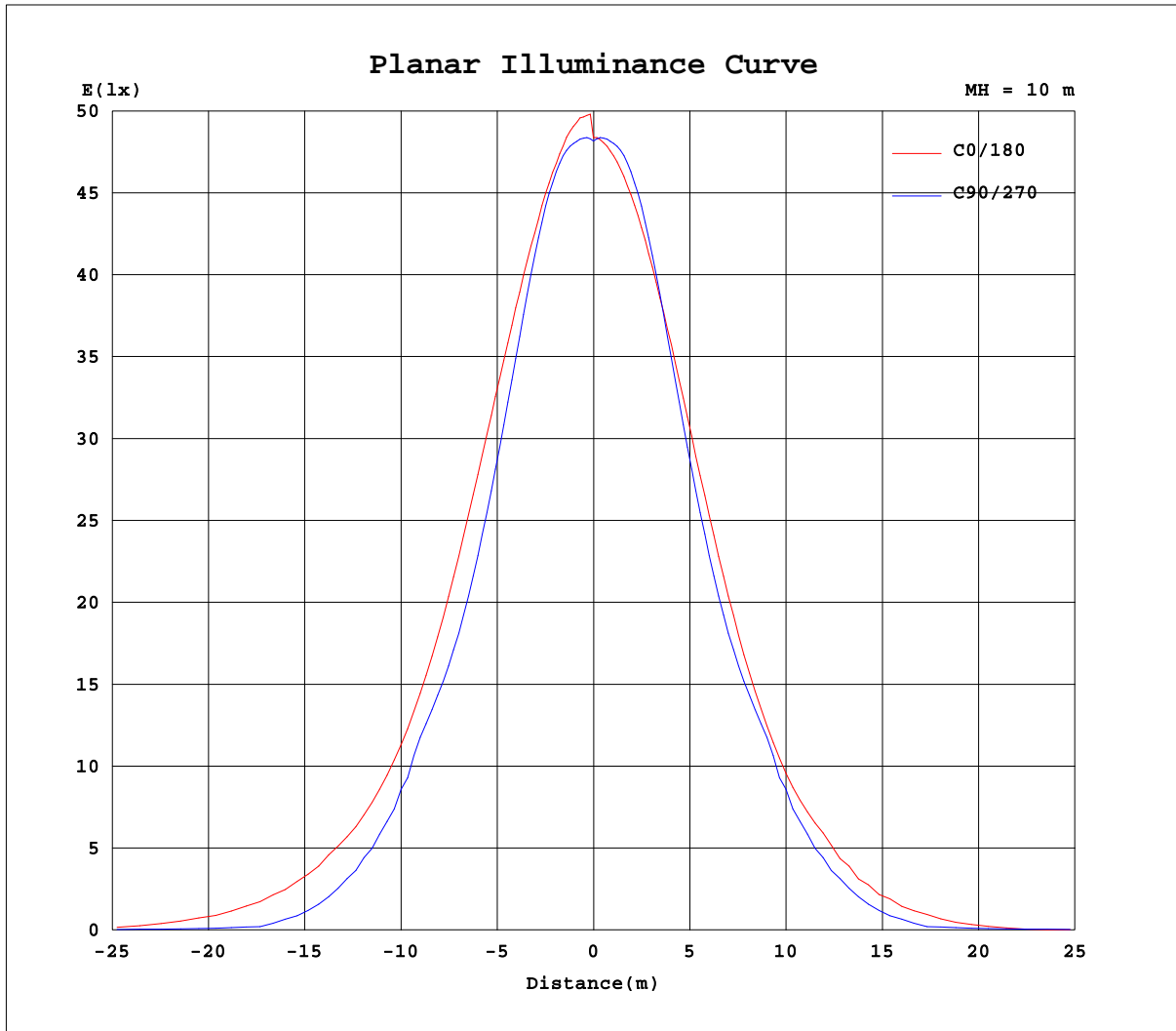
NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 120W LED Floodlight	TYPE:投光灯具	WEIGHT:1
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4866	4866	4866	4866	4866	4866	4866	4866	4866	4866	4866	4866						
5	4856	4900	4910	4920	4866	4830	4839	4830	4866	4920	4910	4900						
10	4831	4927	4931	4952	4879	4783	4783	4783	4879	4952	4931	4927						
15	4777	4891	4856	4843	4855	4733	4700	4733	4855	4843	4856	4891						
20	4690	4805	4646	4576	4710	4649	4572	4649	4710	4576	4646	4805						
25	4549	4644	4315	4187	4411	4495	4387	4495	4411	4187	4315	4644						
30	4348	4397	3944	3759	4005	4246	4110	4246	4005	3759	3944	4397						
35	4046	4084	3524	3333	3540	3871	3735	3871	3540	3333	3524	4084						
40	3620	3671	3129	3027	3056	3382	3263	3382	3056	3027	3129	3671						
45	3118	3182	2806	2462	2681	2813	2725	2813	2681	2462	2806	3182						
50	2581	2635	2181	1685	1922	2223	2246	2223	1922	1685	2181	2635						
55	2019	2087	1381	856	1205	1587	1482	1587	1205	856	1381	2087						
60	1359	1525	677	181	413	792	775	792	413	181	677	1525						
65	731	672	141	120	100	181	196	181	100	120	141	672						
70	136	133	83.0	59.7	54.8	27.1	30.8	27.1	54.8	59.7	83.0	133						
75	34.8	28.2	40.4	32.7	28.1	21.9	24.3	21.9	28.1	32.7	40.4	28.2						
80	26.9	22.4	23.1	21.6	20.8	20.5	21.4	20.5	20.8	21.6	23.1	22.4						
85	22.0	20.2	19.4	19.2	19.8	20.1	20.0	20.1	19.8	19.2	19.4	20.2						
90	20.1	19.8	19.3	19.8	20.5	20.8	20.6	20.8	20.5	19.8	19.3	19.8						
95	20.7	20.4	19.8	20.4	21.2	21.5	21.3	21.5	21.2	20.4	19.8	20.4						
100	21.3	21.0	20.4	21.0	21.9	22.2	22.0	22.2	21.9	21.0	20.4	21.0						
105	22.0	21.6	20.9	21.6	22.5	22.8	22.6	22.8	22.5	21.6	20.9	21.6						
110	22.5	22.1	21.5	22.2	23.0	23.3	23.1	23.3	23.0	22.2	21.5	22.1						
115	23.0	22.6	22.1	22.9	23.5	23.9	23.7	23.9	23.5	22.9	22.1	22.6						
120	23.5	23.2	22.8	23.7	24.1	24.5	24.3	24.5	24.1	23.7	22.8	23.2						
125	24.0	23.7	23.6	24.5	24.9	25.1	24.9	25.1	24.9	24.5	23.6	23.7						
130	24.6	24.3	24.4	25.4	25.6	25.7	25.5	25.7	25.6	25.4	24.4	24.3						
135	24.6	24.4	24.5	25.4	25.6	25.6	25.5	25.6	25.6	25.4	24.5	24.4						
140	24.8	24.7	24.9	25.7	26.0	25.9	25.7	25.9	26.0	25.7	24.9	24.7						
145	25.2	25.3	25.4	26.3	26.6	26.3	26.1	26.3	26.6	26.3	25.4	25.3						
150	25.8	26.1	26.2	27.0	27.2	27.0	26.8	27.0	27.2	27.0	26.2	26.1						
155	27.0	27.4	27.5	28.3	28.5	28.4	28.2	28.4	28.5	28.3	27.5	27.4						
160	28.3	28.8	28.6	29.5	29.9	29.9	29.7	29.9	29.9	29.5	28.6	28.8						
165	29.8	30.3	29.9	30.9	31.2	31.5	31.5	31.5	31.2	30.9	29.9	30.3						
170	31.5	31.9	31.6	32.6	32.7	33.1	33.3	33.1	32.7	32.6	31.6	31.9						
175	33.1	33.5	33.2	34.2	33.8	34.3	34.7	34.3	33.8	34.2	33.2	33.5						
180	34.3	34.6	34.4	35.3	34.6	35.1	35.5	35.1	34.6	35.3	34.4	34.6						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.000m [K=1.0000]
 Remarks: