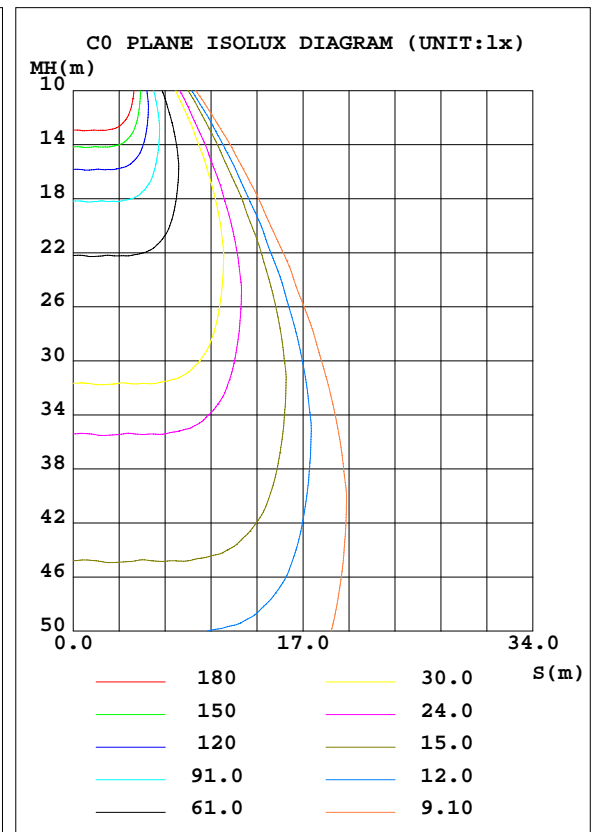
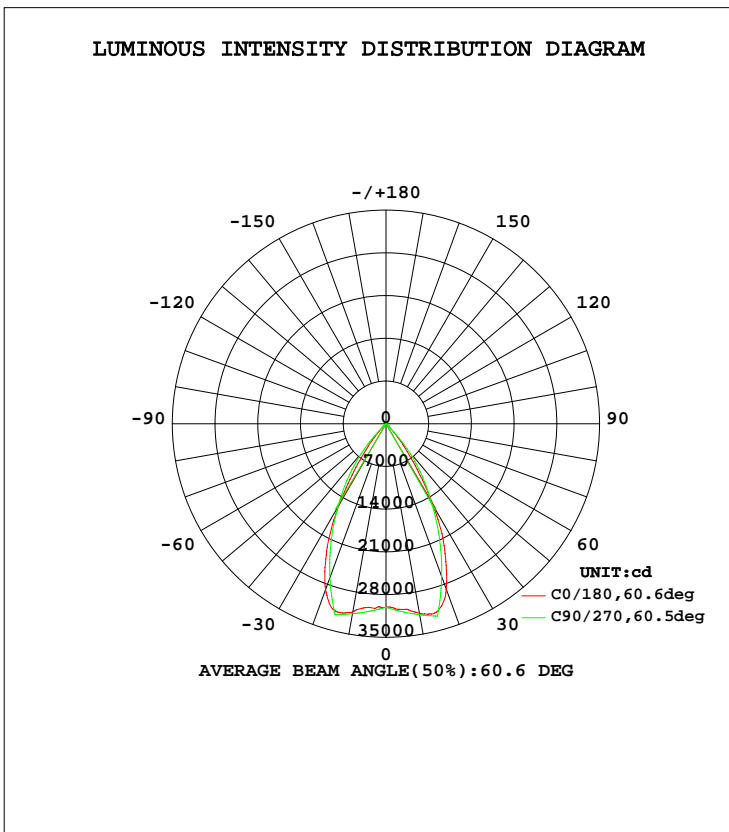


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.25 lm/W			
MODEL	CREE LED	I <sub>max</sub> (cd)	32628	S/MH(C0/180)	0.89
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH(C90/270)	0.92
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	35405	η UP, DN(C0-180)	0.0, 49.3
NOMINAL FLUX(lm)	35405.33	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220.2	η down(%)	100.0	CIBSE SHR MAX	0.90



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-03-14

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	3053	3090	3092	3080	3022	3079	3084	3089	0- 5	729.2	729.2	2.56,2.56
10	3155	3119	3177	3106	3130	3109	3161	3125	5- 10	2222	2951	10.4,10.4
15	3196	3085	3263	3083	3179	3087	3239	3091	10- 15	3733	6684	23.5,23.5
20	2885	2860	2670	2871	2896	2885	2685	2868	15- 20	4908	11591	40.8,40.8
25	2273	2169	2077	2185	2302	2237	2130	2206	20- 25	5177	16768	59,59
30	1554	1462	1484	1472	1553	1528	1576	1513	25- 30	4615	21384	75.2,75.2
35	842.1	824.4	1012	829.3	809.7	878.6	1086	885.9	30- 35	3424	24808	87.3,87.3
40	367.3	350.3	539.7	353.9	346.8	387.4	596.3	409.3	35- 40	2119	26927	94.7,94.7
45	84.31	161.2	67.59	162.7	73.78	180.0	106.4	199.7	40- 45	997.3	27925	98.2,98.2
50	23.83	54.08	47.65	53.43	23.78	63.21	73.84	71.73	45- 50	276.0	28201	99.2,99.2
55	13.16	12.69	27.72	13.40	13.07	13.94	41.28	14.49	50- 55	108.0	28309	99.6,99.6
60	7.139	7.999	7.786	8.477	7.317	8.802	8.718	9.067	55- 60	58.83	28367	99.8,99.8
65	3.884	4.398	5.564	4.635	4.082	4.828	6.183	4.940	60- 65	30.12	28398	99.9,99.9
70	2.050	2.245	3.341	2.346	2.189	2.417	3.649	2.473	65- 70	17.97	28415	100,100
75	0.9400	1.238	1.119	1.307	1.009	1.288	1.114	1.315	70- 75	9.687	28425	100,100
80	0.3393	0.3754	0	0.4026	0.3803	0.3315	0	0.3444	75- 80	3.581	28429	100,100
85	0.0904	0	0	0	0.1169	0	0	0	80- 85	0.6343	28429	100,100
90	0.0563	0	0	0	0.0673	0	0	0	85- 90	0.0799	28429	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			

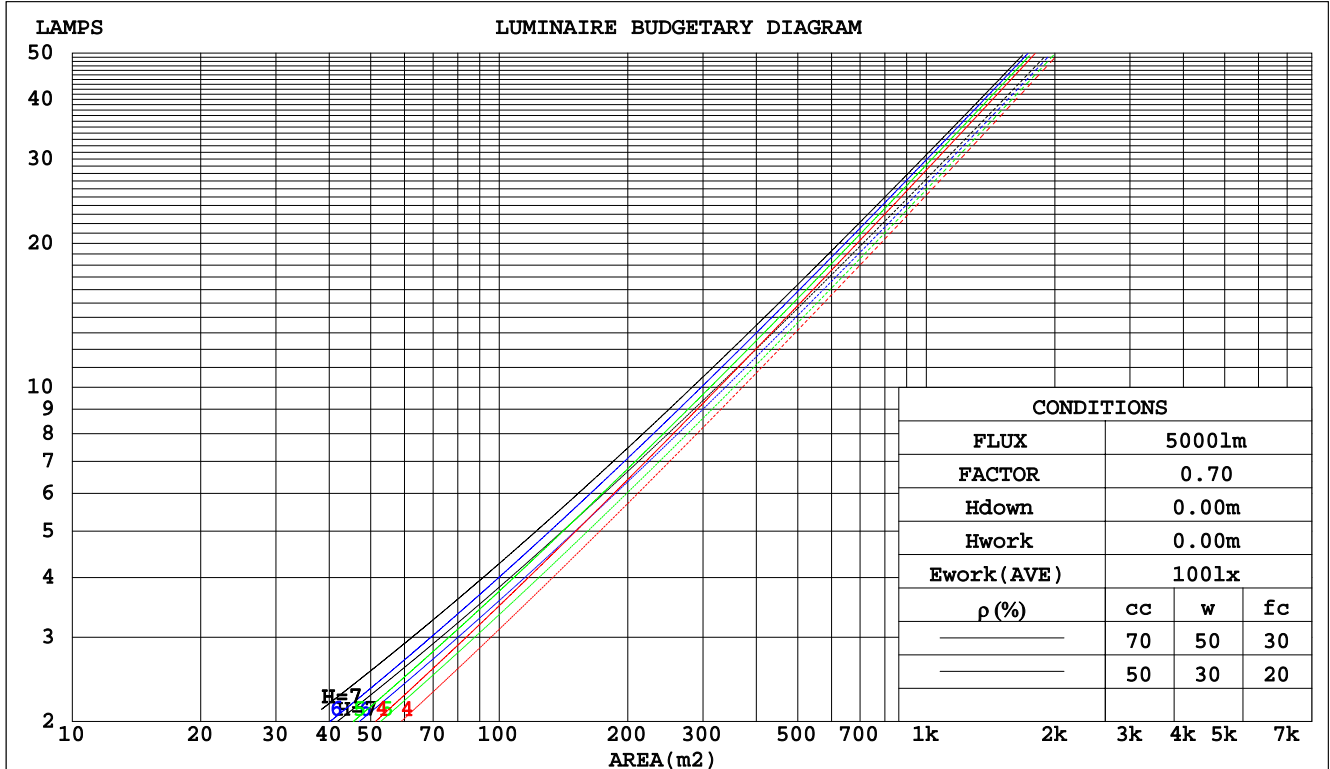
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-03-14

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:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.04	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.70	.65	.75	.69	.65	.73	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.71	.65	.61	.71	.65	.61	.70	.64	.61	.68	.64	.61	.68	.63	.60	.59
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.64	.60	.57	.56
10.0	.64	.58	.54	.63	.58	.54	.62	.57	.54	.62	.57	.54	.61	.57	.54	.52



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-03-14

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:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	SERIAL No.:
MFR.:	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	.173	.099	.031	.167	.095	.030	.154	.088	.028	.143	.082	.026	.132	.076	.025	
2.0	.166	.091	.028	.160	.088	.027	.150	.083	.026	.140	.079	.025	.131	.074	.023	
3.0	.158	.084	.025	.154	.082	.025	.145	.078	.024	.136	.075	.023	.128	.071	.022	
4.0	.151	.078	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021	
5.0	.144	.073	.021	.141	.072	.021	.134	.070	.021	.127	.067	.020	.122	.065	.020	
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019	.118	.062	.018	
7.0	.132	.065	.018	.129	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017	
8.0	.126	.062	.017	.124	.061	.017	.119	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.056	.016	.107	.054	.016	
10.0	.117	.056	.016	.115	.055	.015	.111	.054	.015	.107	.053	.015	.104	.052	.015	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.055	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-03-14

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:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm										
NAME: LED High Bay Light					TYPE:室外			WEIGHT:3		
SPEC.:CR-HBL 300W					DIM.:			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	26.6	27.5	26.8	27.7	27.8	27.9	28.8	28.1	29.0	29.1
3H	26.4	27.3	26.7	27.5	27.7	27.7	28.6	28.0	28.8	29.0
4H	26.3	27.1	26.6	27.4	27.6	27.6	28.4	27.9	28.6	28.9
6H	26.2	27.0	26.5	27.2	27.5	27.5	28.3	27.8	28.5	28.8
8H	26.2	26.9	26.5	27.2	27.4	27.5	28.2	27.8	28.5	28.7
12H	26.1	26.8	26.5	27.1	27.4	27.4	28.1	27.8	28.4	28.7
4H 2H	26.3	27.1	26.6	27.4	27.6	27.6	28.4	27.9	28.6	28.9
3H	26.2	26.8	26.5	27.1	27.4	27.4	28.1	27.8	28.4	28.7
4H	26.1	26.7	26.4	27.0	27.3	27.4	28.0	27.7	28.3	28.6
6H	26.0	26.5	26.3	26.8	27.2	27.3	27.8	27.6	28.1	28.5
8H	25.9	26.4	26.3	26.8	27.1	27.2	27.7	27.6	28.1	28.4
12H	25.9	26.3	26.3	26.7	27.1	27.2	27.6	27.6	28.0	28.4
8H 4H	25.9	26.4	26.3	26.8	27.1	27.2	27.7	27.6	28.1	28.4
6H	25.8	26.2	26.2	26.6	27.0	27.1	27.5	27.5	27.9	28.3
8H	25.8	26.1	26.2	26.5	27.0	27.0	27.4	27.5	27.8	28.3
12H	25.7	26.0	26.2	26.5	26.9	27.0	27.3	27.5	27.7	28.2
12H 4H	25.9	26.3	26.3	26.7	27.1	27.2	27.6	27.6	28.0	28.4
6H	25.8	26.1	26.2	26.5	27.0	27.0	27.4	27.5	27.8	28.3
8H	25.7	26.0	26.2	26.5	26.9	27.0	27.3	27.5	27.7	28.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / -16.0					+ 3.5 / -15.9				
1.5H	+ 6.6 / -13.4					+ 6.3 / -14.3				
2.0H	+ 7.7 / - 6.5					+ 5.5 / - 6.8				

CIE Pub.117 Corrected 28429 lm Total Lamp Luminous Flux.(8log(F/F0) = 11.6)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-03-14

$\gamma$  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:

## UTILIZATION FACTORS TABLE

Test:U:220.0V I:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	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) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	96	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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:2015-03-14

$\gamma$  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:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

27925 lm

%lum = 98.2%

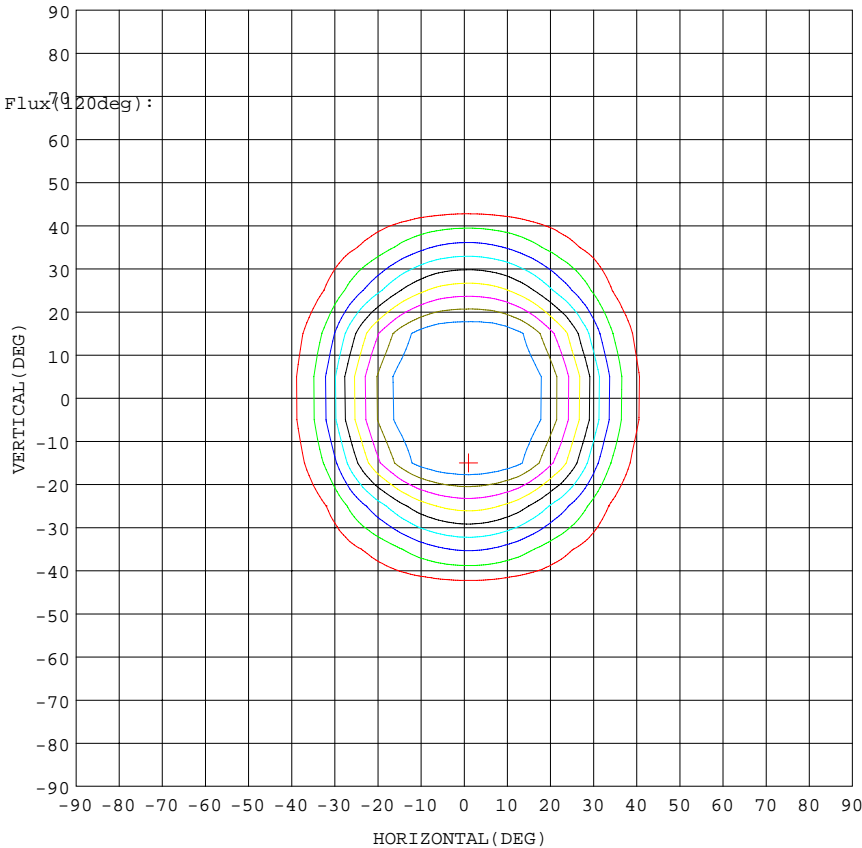
%lamp = 98.2%

Conical surface Flux(70deg):

28367 lm

%lum = 99.8%

%lamp = 99.8%



Imax:32622(H:1.0,V:-15.0)  
(At:C=90.0,Gamma=15.0)

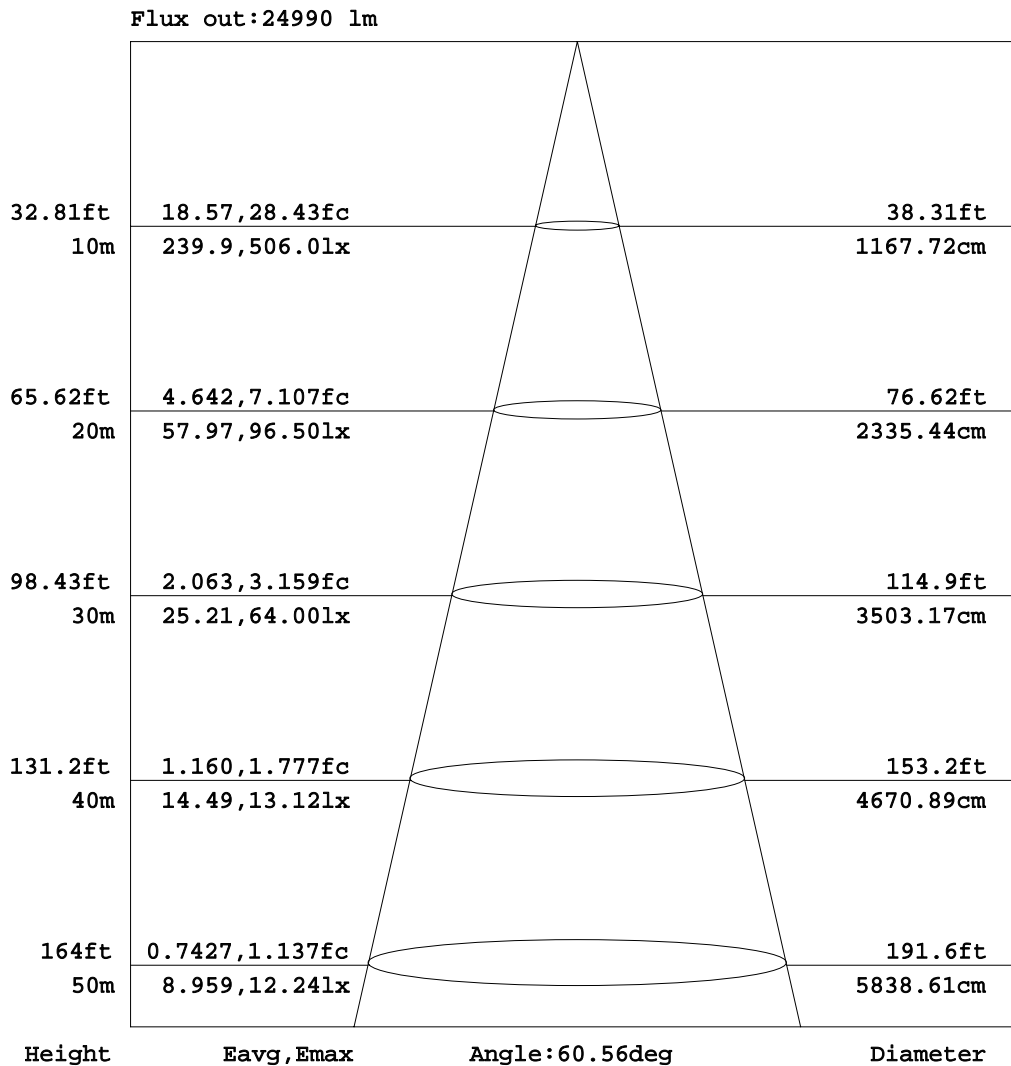
UNIT: cd

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-03-14

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:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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

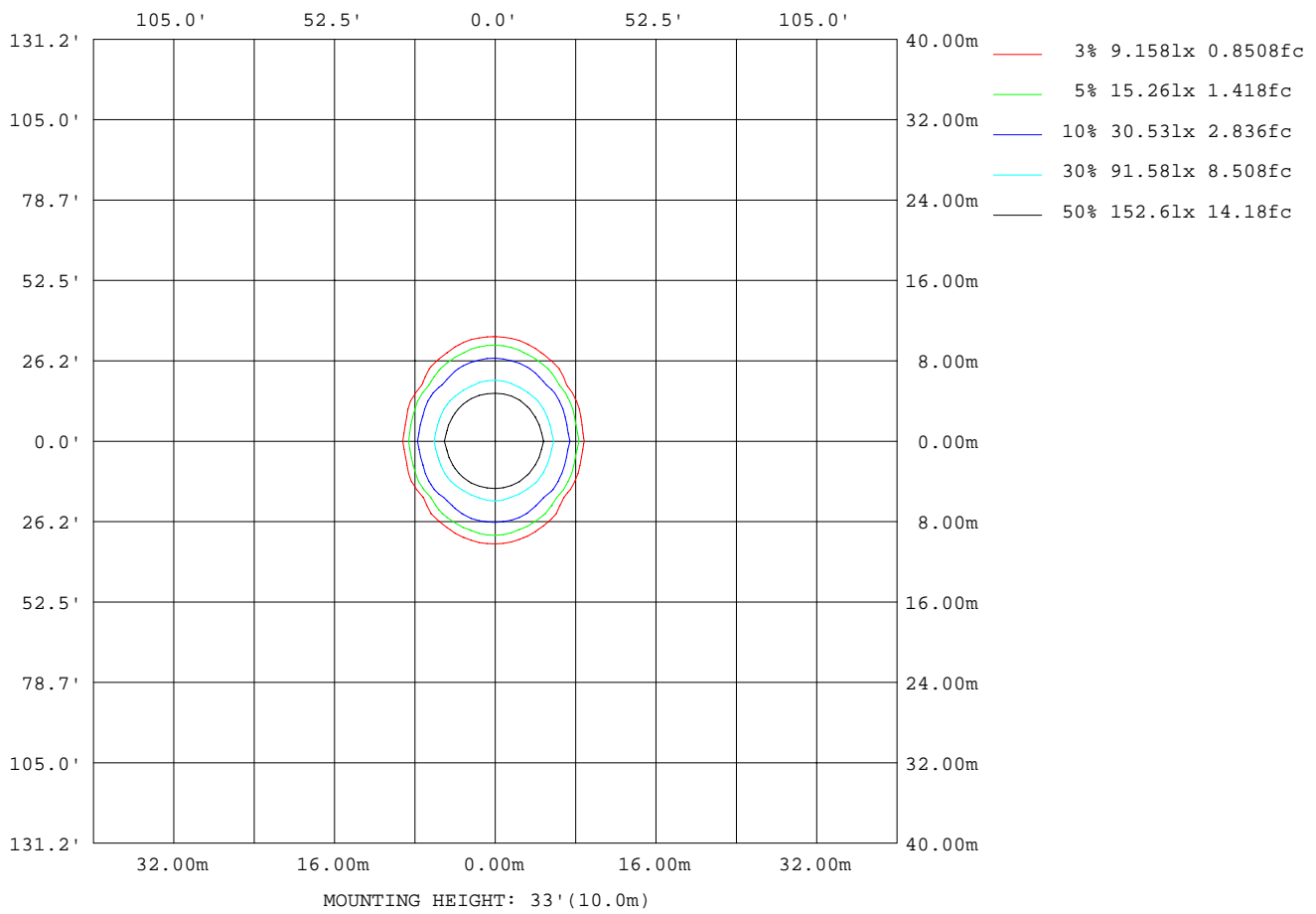
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-03-14

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

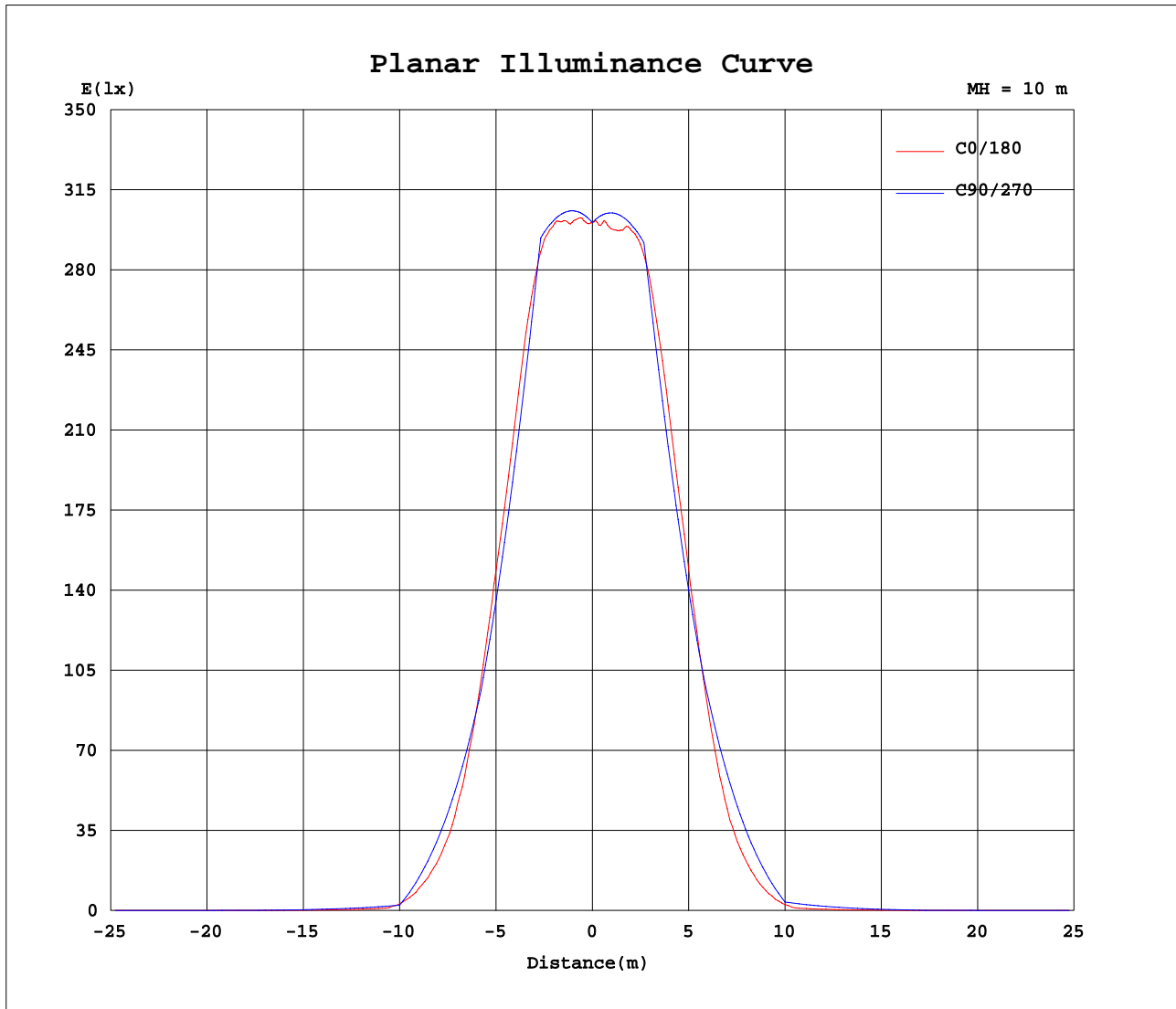
Test:U:220.0V I:1.390A P:296.9W PF:0.9710 Lamp Flux:35405.33 x1 lm		
NAME: LED High Bay Light	TYPE:室外	WEIGHT:3
SPEC.:CR-HBL 300W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-03-14

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: 2015-03-14

$\gamma$  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:







