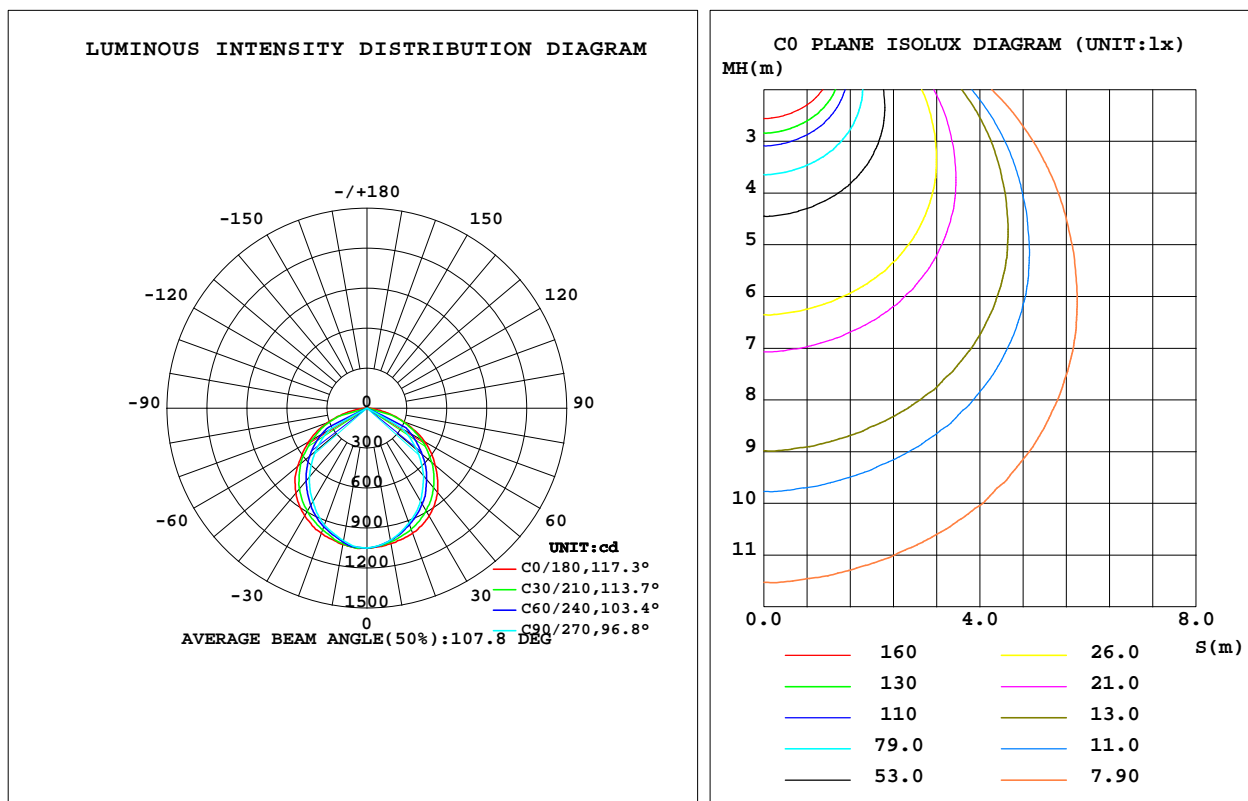


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 52.42 lm/W			
MODEL		I _{max} (cd)	1054	S/MH(C0/180)	1.32
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2606.4	h UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	2606.42	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	219.3	h down(%)	100.0	CIBSE SHR MAX	1.35



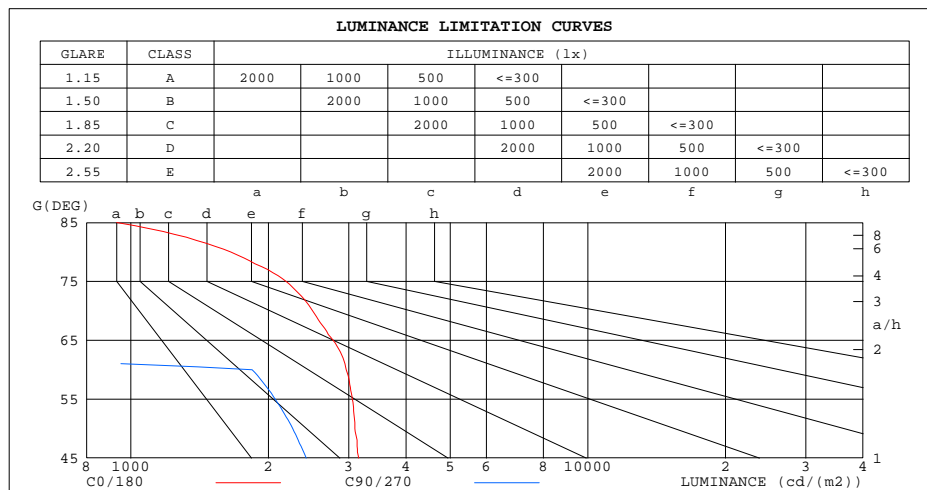
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZENGQG
 Test Date:2019-11-05

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:9.650m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	1044	1036	1035	1045	1051	1051	1042	1042	0- 5	25.01	25.01	0.96,0.96
10	1033	1014	1008	1020	1039	1027	1011	1022	5- 10	73.84	98.85	3.79,3.79
15	1018	985.1	966.2	991.4	1019	994.8	973.2	990.6	10- 15	119.4	218.3	8.37,8.37
20	999.5	944.5	919.3	950.0	1001	952.3	935.0	951.1	15- 20	160.6	378.9	14.5,14.5
25	973.6	903.6	867.9	907.2	974.2	915.9	878.4	914.2	20- 25	196.5	575.4	22.1,22.1
30	934.5	859.1	806.4	860.1	932.9	870.3	810.6	872.9	25- 30	225.7	801.1	30.7,30.7
35	885.0	805.9	730.7	809.0	887.3	820.4	746.0	818.6	30- 35	247.0	1048	40.2,40.2
40	825.0	744.5	662.2	748.5	829.5	752.8	673.1	755.1	35- 40	259.5	1308	50.2,50.2
45	749.4	675.3	575.5	678.9	764.6	683.7	589.2	685.9	40- 45	262.7	1570	60.2,60.2
50	668.6	600.7	488.8	600.0	680.5	611.2	505.3	614.7	45- 50	256.0	1826	70.1,70.1
55	589.4	520.2	399.5	517.1	592.7	527.6	417.6	534.2	50- 55	239.6	2066	79.3,79.3
60	498.4	437.1	310.2	431.7	506.3	442.7	329.9	451.0	55- 60	215.7	2282	87.5,87.5
65	394.3	349.1	0	345.5	414.4	357.8	0	362.6	60- 65	157.9	2439	93.6,93.6
70	287.7	0	0	0	312.0	0	0	0	65- 70	91.91	2531	97.1,97.1
75	190.5	0	0	0	206.1	0	0	0	70- 75	48.83	2580	99.99
80	96.64	0	0	0	111.1	0	0	0	75- 80	20.56	2601	99.8,99.8
85	27.33	0	0	0	34.81	0	0	0	80- 85	5.290	2606	100,100
90	0.6111	0	0	0	0.3114	0	0	0	85- 90	0.4075	2606	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:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	932	0
80	1654	0
75	2188	0
70	2501	0
65	2773	0
60	2963	1844
55	3055	2070
50	3092	2260
45	3150	2419

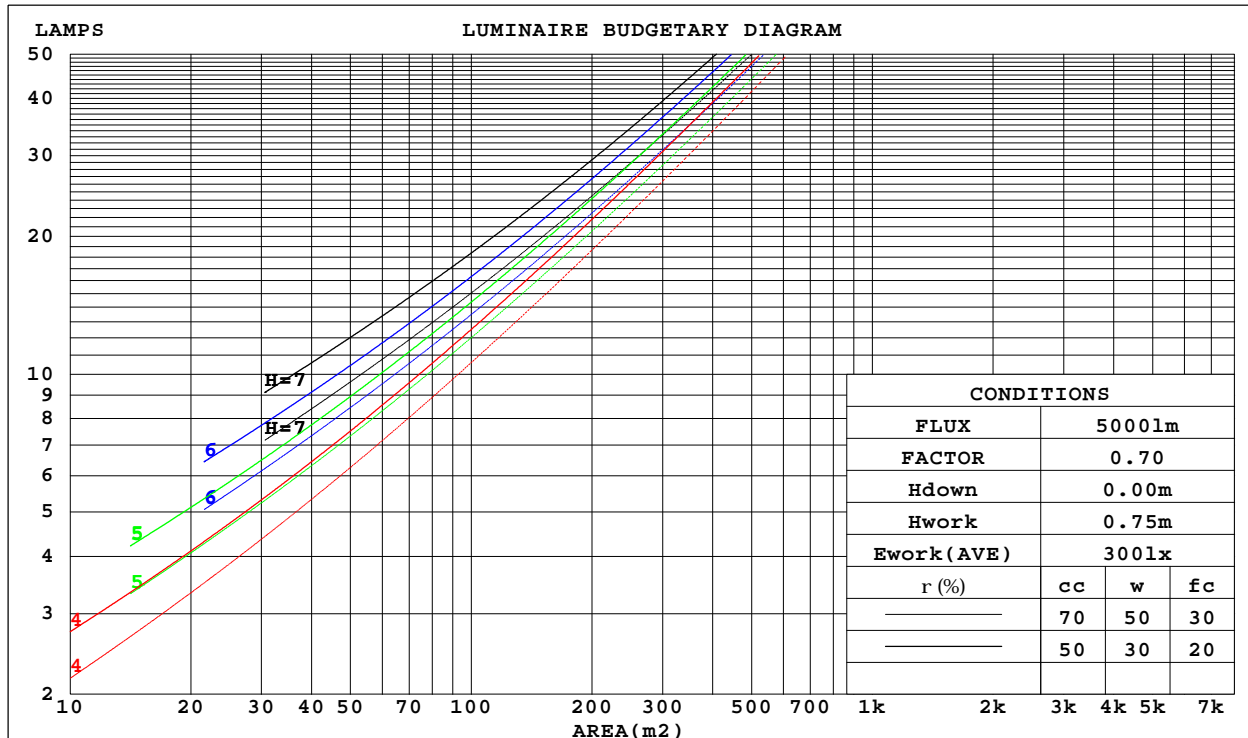
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZENGQG
 Test Date:2019-11-05

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:9.650m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.74	.69	.66	.64
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.58	.68	.62	.58	.66	.61	.57	.55
5.0	.66	.58	.52	.65	.57	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.45	.56	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.264	.150	.048	.257	.147	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.259	.142	.044	.253	.139	.043	.241	.134	.042	.231	.129	.041	.221	.125	.039	
3.0	.246	.131	.039	.240	.129	.039	.230	.125	.038	.221	.121	.037	.212	.118	.036	
4.0	.231	.120	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034	.201	.109	.033	
5.0	.216	.110	.032	.212	.109	.032	.204	.106	.031	.197	.104	.031	.190	.102	.031	
6.0	.203	.102	.029	.199	.100	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028	
7.0	.190	.094	.027	.187	.093	.027	.180	.091	.026	.175	.089	.026	.169	.088	.026	
8.0	.179	.087	.025	.176	.086	.024	.170	.085	.024	.165	.083	.024	.160	.082	.024	
9.0	.168	.081	.023	.166	.081	.023	.160	.079	.022	.156	.078	.022	.151	.077	.022	
10.0	.159	.076	.021	.156	.076	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.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	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.104	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: PC010070					TYPE:LED			WEIGHT:4.648(Kg)			
DIM.: 600*600					SPEC.:			SERIAL No.:			
MFR.:					SUR.:580*580			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	17.2	18.7	17.5	18.9	19.1	14.8	16.2	15.0	16.4	16.6	
	3H	18.6	19.9	18.9	20.2	20.4	14.6	15.9	14.8	16.1	16.3
	4H	19.1	20.4	19.4	20.6	20.9	14.4	15.7	14.8	15.9	16.2
	6H	19.4	20.6	19.7	20.8	21.1	14.3	15.5	14.7	15.8	16.0
	8H	19.4	20.5	19.8	20.8	21.1	14.3	15.4	14.6	15.7	16.0
	12H	19.4	20.5	19.7	20.8	21.1	14.2	15.3	14.6	15.6	15.9
4H	2H	17.6	18.9	17.9	19.1	19.4	15.6	16.9	15.9	17.1	17.4
	3H	19.2	20.3	19.5	20.6	20.9	15.4	16.5	15.8	16.8	17.1
	4H	19.8	20.7	20.1	21.1	21.4	15.3	16.3	15.7	16.6	16.9
	6H	20.1	20.9	20.5	21.3	21.7	15.2	16.1	15.6	16.4	16.8
	8H	20.1	20.9	20.5	21.3	21.7	15.2	16.0	15.6	16.3	16.7
	12H	20.1	20.9	20.6	21.2	21.6	15.1	15.9	15.5	16.2	16.6
8H	4H	19.6	20.4	20.0	20.8	21.2	15.4	16.2	15.8	16.6	16.9
	6H	20.0	20.6	20.4	21.0	21.4	15.3	16.0	15.8	16.4	16.8
	8H	20.0	20.6	20.5	21.0	21.5	15.3	15.9	15.7	16.3	16.7
	12H	20.0	20.5	20.5	21.0	21.4	15.2	15.7	15.7	16.2	16.7
12H	4H	19.6	20.3	20.0	20.7	21.1	15.4	16.1	15.8	16.5	16.9
	6H	19.9	20.5	20.4	20.9	21.4	15.3	15.9	15.7	16.3	16.7
	8H	20.0	20.5	20.5	20.9	21.4	15.3	15.7	15.7	16.2	16.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5					
1.5H	+ 0.3 / - 0.3					+ 1.0 / - 1.7					
2.0H	+ 0.3 / - 0.7					+ 0.7 / - 1.3					

CIE Pub.117 Corrected 2606 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.3)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:

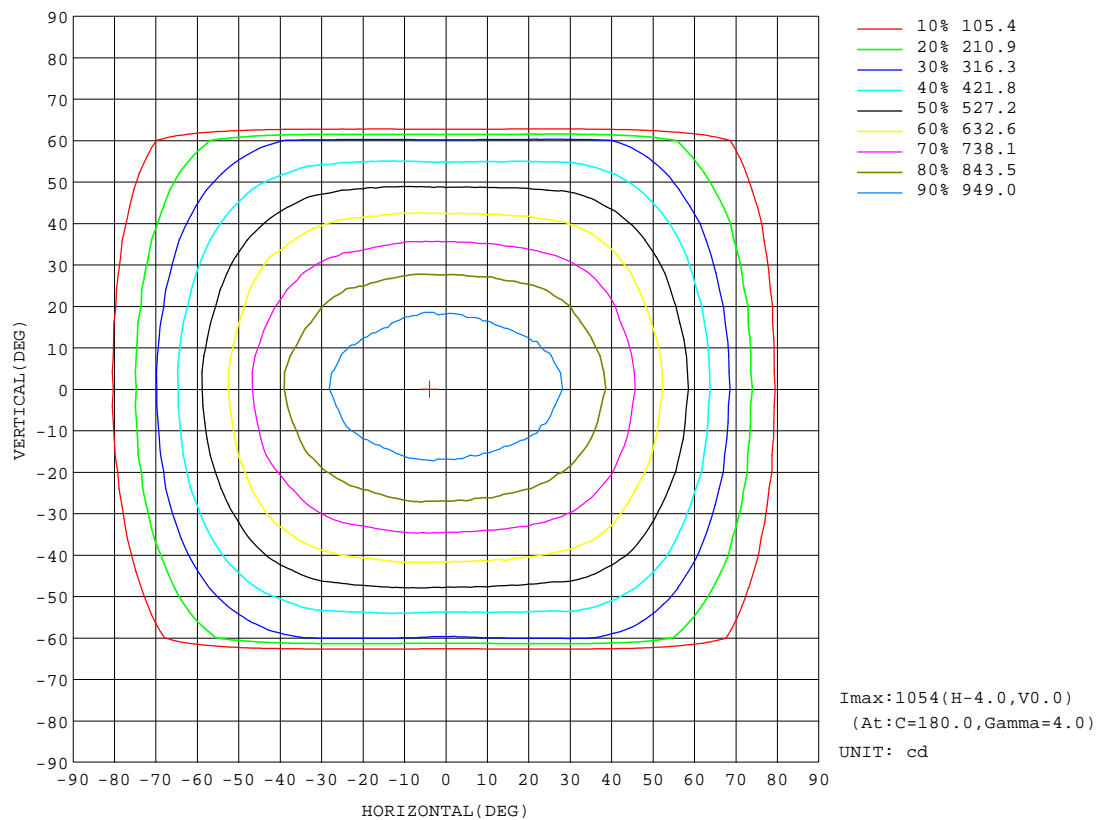
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	49	42	58	48	42	36
0.80	71	60	53	70	59	53	68	59	52	46
1.00	80	69	63	78	69	62	76	70	62	55
1.25	87	77	71	85	77	70	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	91	85	96	90	84	93	87	83	76
2.50	102	95	90	100	94	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				SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZENGQG
Test Date: 2019-11-05

```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 9.650m [K=1.0000]
Remarks:
```

ISOCANDELA DIAGRAM

NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:

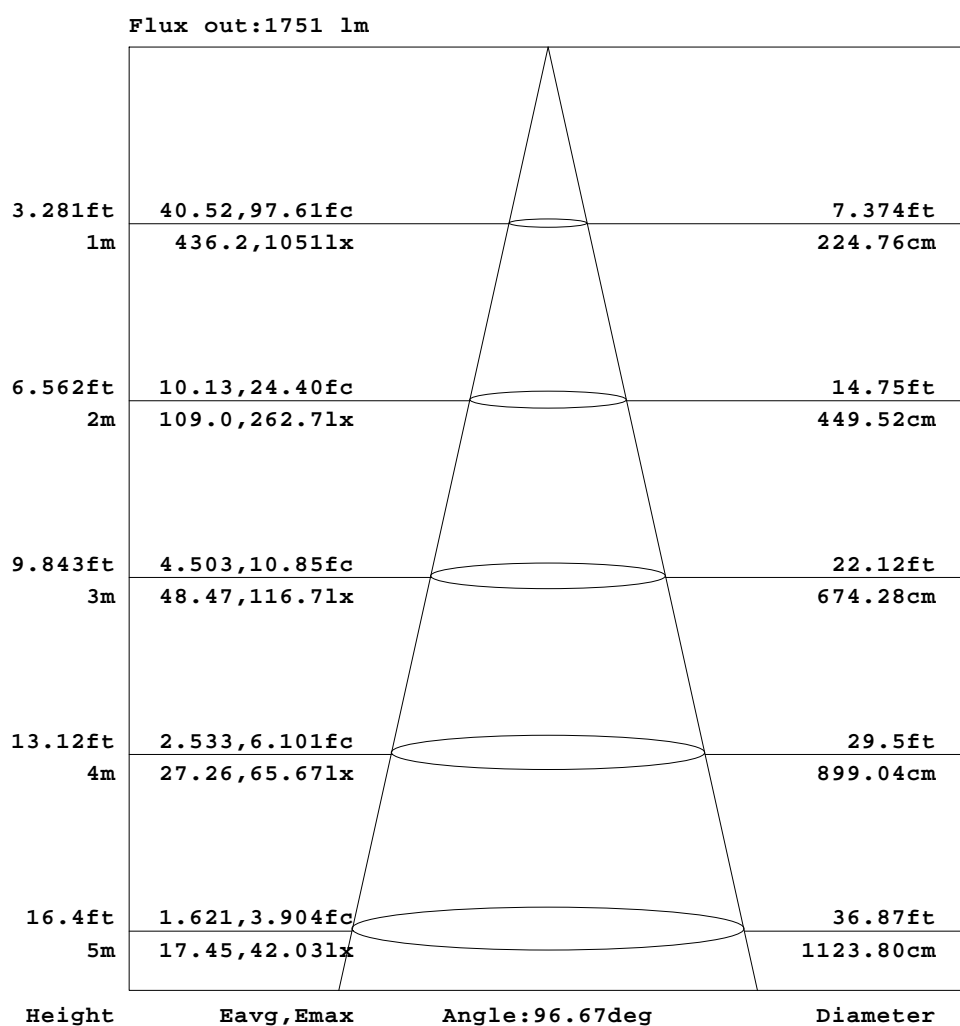


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

AAI Figure

NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:



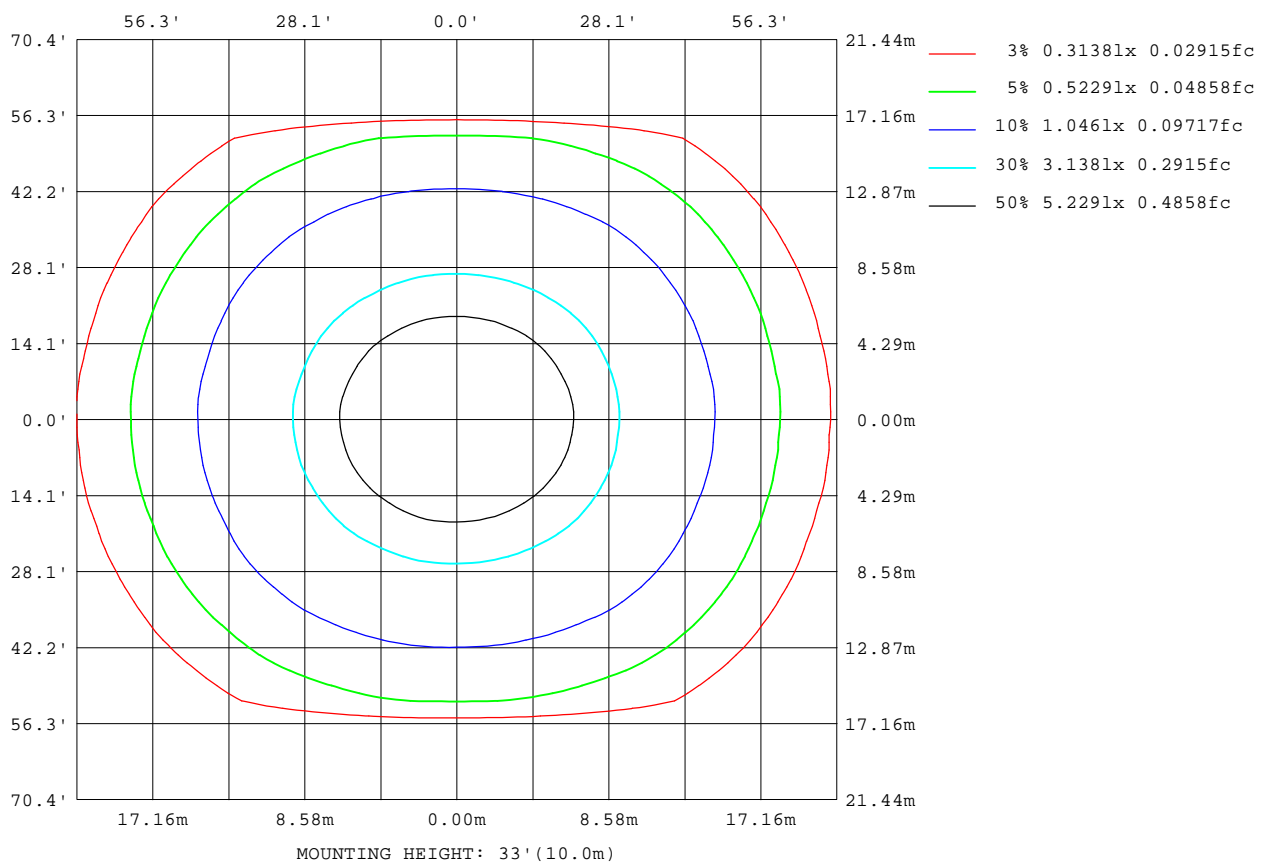
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZENGQ
Test Date: 2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 9.650m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

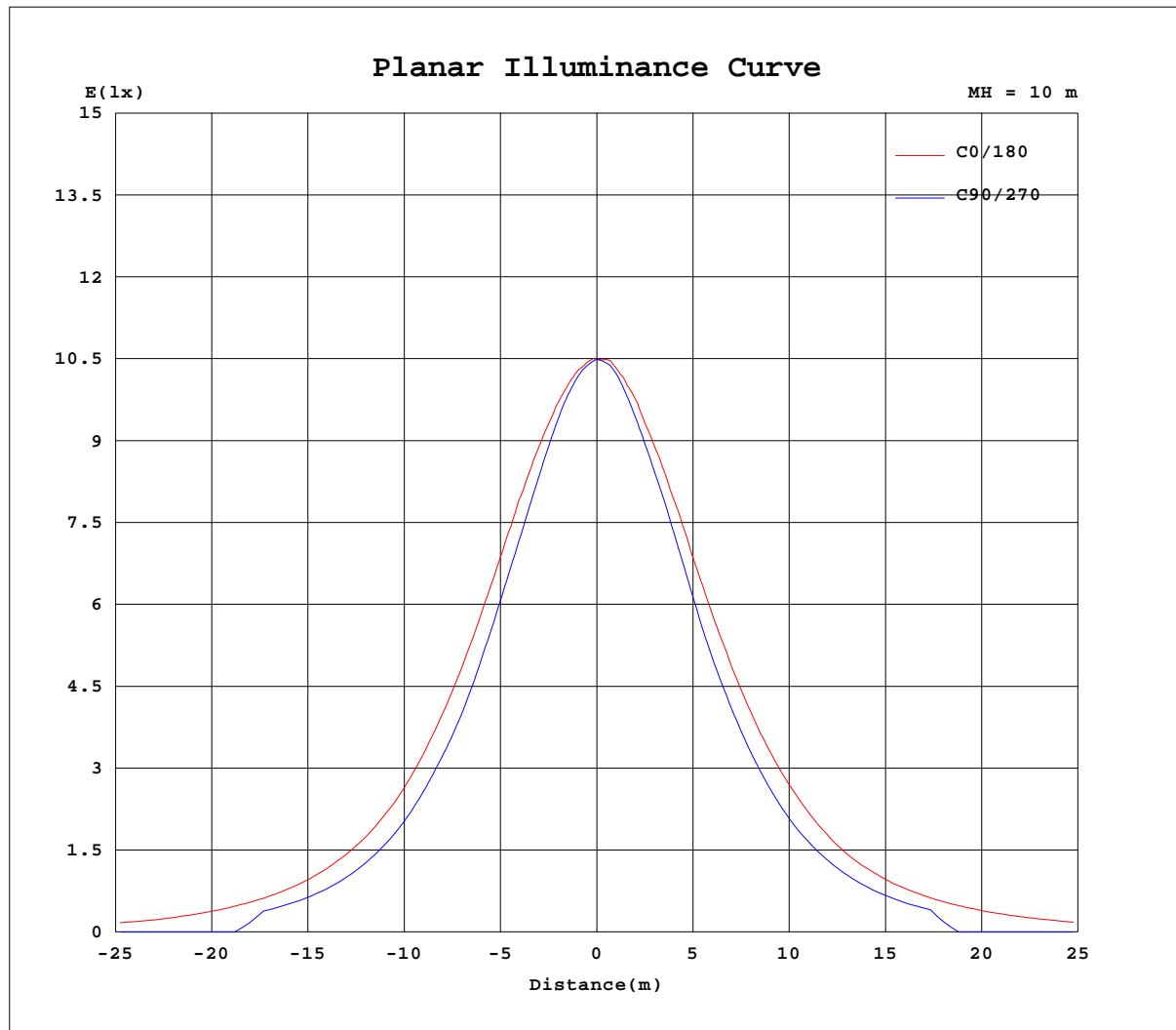
NAME: PC010070	TYPE:LED	WEIGHT:4.648(Kg)
DIM.: 600*600	SPEC.:	SERIAL No.:
MFR.:	SUR.:580*580	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZENGQG
Test Date: 2019-11-05

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 9.650m [K=1.0000]
Remarks: