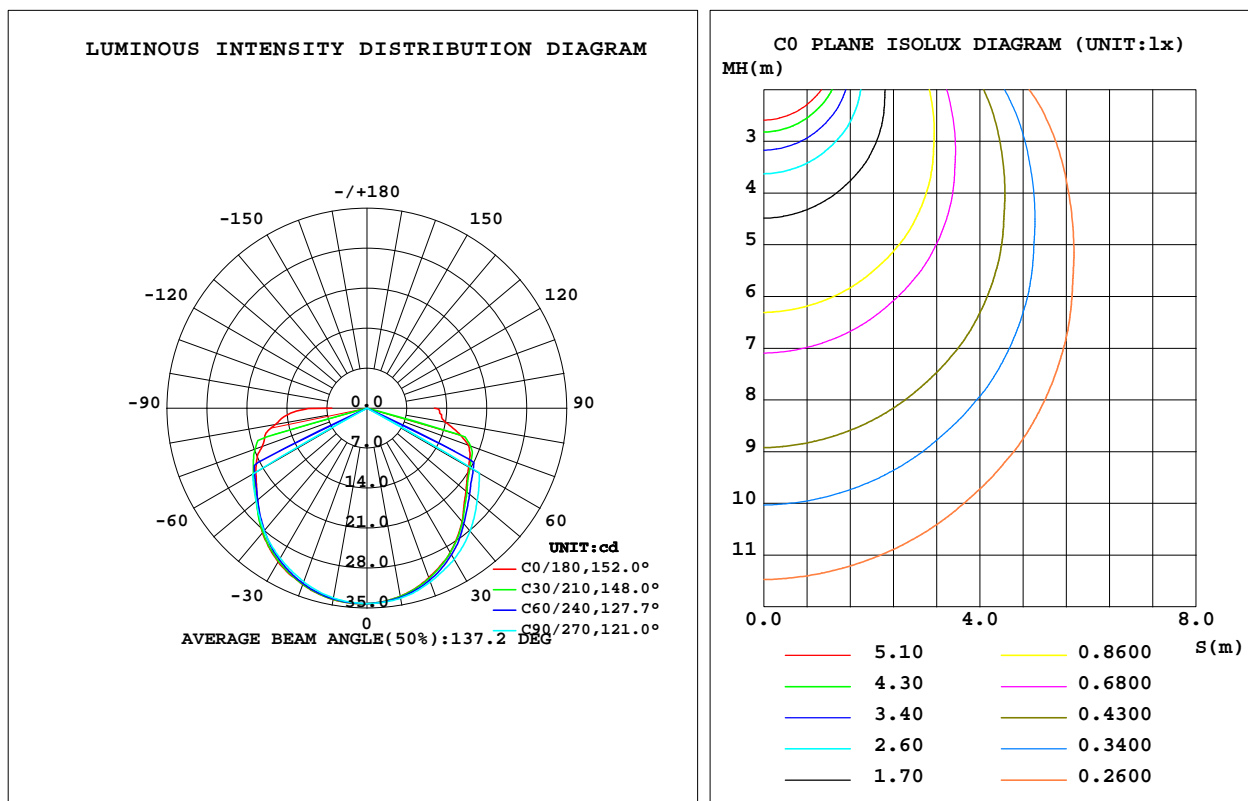


# LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 7.63 lm/W
MODEL		Imax(cd)	34.27	S/MH(C0/180)	1.27	
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.33	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	107.40	h UP,DN(C0-180)	0.0,49.7	
NOMINAL FLUX(lm)	107.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,50.3	
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	



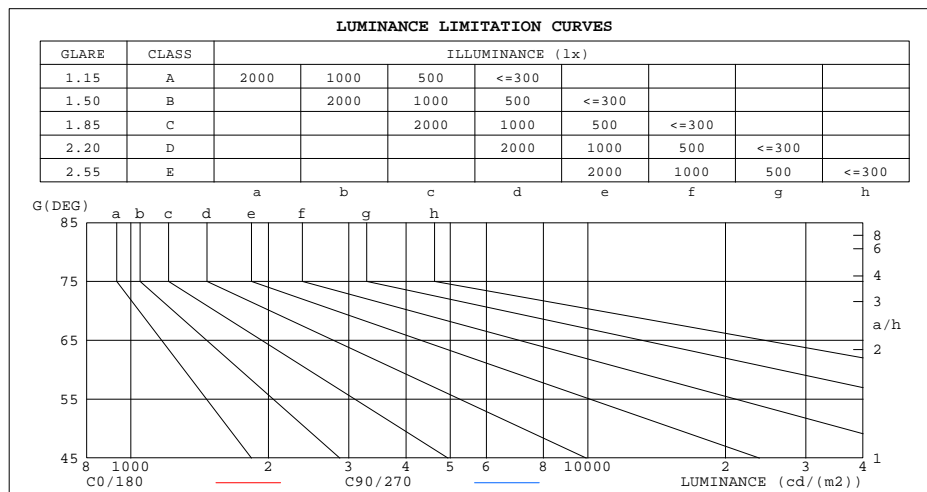
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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	33.98	33.99	34.10	34.19	34.24	34.18	34.08	33.97	0- 5	0.8164	0.8164	0.76,0.76
10	33.45	33.53	33.81	33.95	34.02	33.94	33.77	33.49	5- 10	2.426	3.243	3.02,3.02
15	32.68	32.86	33.22	33.48	33.56	33.48	33.16	32.79	10- 15	3.967	7.210	6.71,6.71
20	31.60	31.85	32.40	32.76	32.87	32.79	32.36	31.74	15- 20	5.392	12.60	11.7,11.7
25	30.45	30.69	31.45	31.79	32.09	31.85	31.38	30.49	20- 25	6.665	19.27	17.9,17.9
30	29.18	29.26	30.56	30.60	31.11	30.75	30.37	29.02	25- 30	7.769	27.04	25.2,25.2
35	27.60	27.70	29.39	29.23	29.87	29.48	29.26	27.44	30- 35	8.667	35.70	33.2,33.2
40	25.93	26.09	28.11	27.68	28.48	28.11	28.07	25.94	35- 40	9.343	45.05	41.9,41.9
45	24.03	24.46	26.65	26.00	26.75	26.65	26.68	24.45	40- 45	9.795	54.84	51.1,51.1
50	22.63	23.23	25.19	24.31	25.05	25.27	25.30	23.27	45- 50	10.06	64.90	60.4,60.4
55	21.42	22.10	23.94	23.09	23.63	24.06	24.20	22.27	50- 55	10.24	75.14	70.7,70.7
60	20.59	21.15	22.70	22.03	22.48	22.95	23.11	21.42	55- 60	10.37	85.52	79.6,79.6
65	19.91	20.49	0	21.00	21.27	21.95	0	20.94	60- 65	8.376	93.89	87.4,87.4
70	18.86	0	0	0	19.50	0	0	0	65- 70	5.598	99.49	92.6,92.6
75	16.49	0	0	0	18.50	0	0	0	70- 75	3.814	103.3	96.2,96.2
80	13.92	0	0	0	16.25	0	0	0	75- 80	2.432	105.7	98.4,98.4
85	13.10	0	0	0	14.03	0	0	0	80- 85	1.285	107.0	99.6,99.6
90	11.83	0	0	0	6.199	0	0	0	85- 90	0.3825	107.4	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(°)	C0/180	C90/270
85	513	0
80	274	0
75	218	0
70	188	0
65	161	0
60	141	155
55	128	143
50	120	134
45	116	129

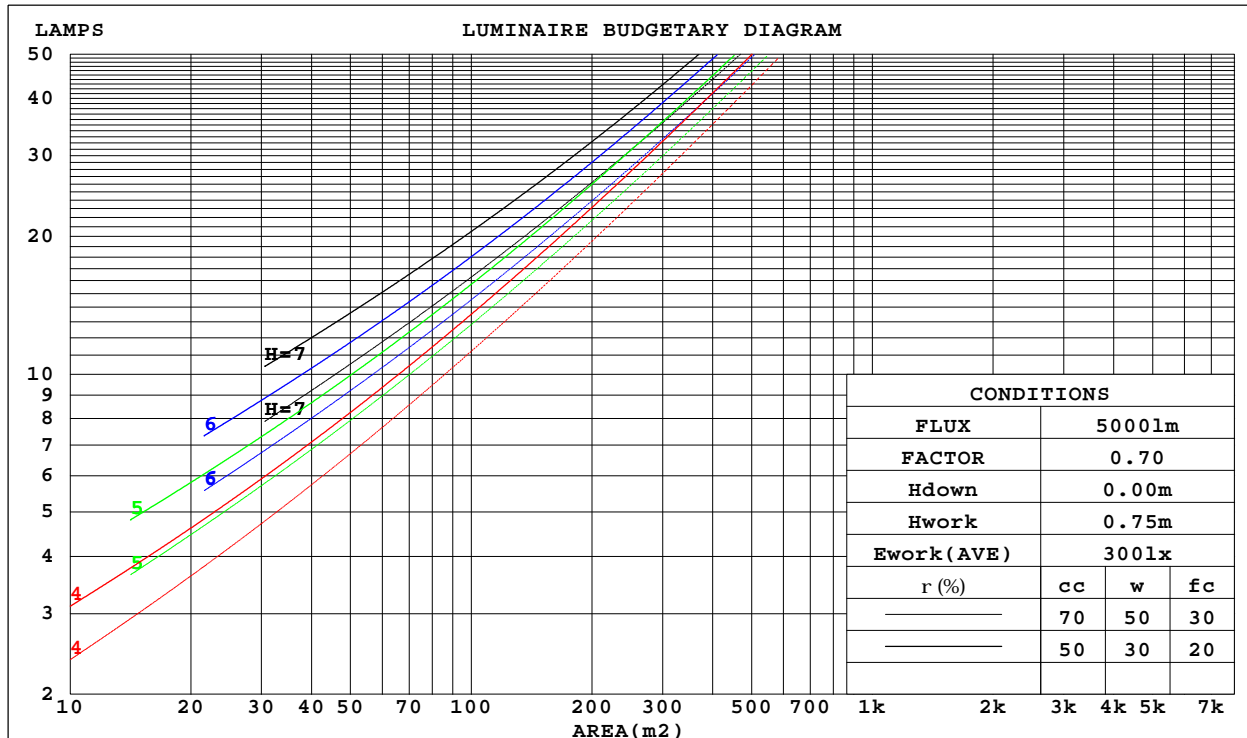
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	PROTECTION ANGLE:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	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	1.04	.00	.96	1.02	.98	.94	.98	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.46	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	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	.307	.174	.055	.300	.171	.054	.286	.164	.052	.274	.158	.051	.263	.152	.049	
2.0	.292	.160	.049	.286	.157	.048	.274	.152	.047	.263	.148	.046	.253	.143	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.252	.131	.038	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.229	.118	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.217	.109	.031	.213	.107	.031	.205	.105	.031	.199	.103	.030	.192	.101	.030	
7.0	.202	.100	.028	.198	.099	.028	.192	.097	.028	.186	.095	.028	.180	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.176	.085	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.159	.081	.023	
10.0	.166	.079	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.076	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.077	.042	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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: PT140918					TYPE:LED			WEIGHT:2.111(Kg)			
DIM.: D330*500					SPEC.:			SERIAL No.:			
MFR.:					SUR.:D330*200			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	6.5	8.0	6.7	8.2	8.4	5.7	7.2	5.9	7.4	7.6	
	3H	9.3	10.7	9.6	10.9	11.2	5.4	6.9	5.7	7.1	7.3
	4H	10.7	12.1	11.0	12.3	12.6	5.3	6.7	5.6	6.9	7.2
	6H	12.2	13.5	12.5	13.8	14.0	5.2	6.5	5.5	6.8	7.0
	8H	13.0	14.2	13.4	14.5	14.8	5.1	6.4	5.5	6.7	7.0
	12H	14.0	15.2	14.4	15.5	15.8	5.1	6.3	5.4	6.6	6.9
4H	2H	7.3	8.7	7.6	8.9	9.2	6.5	7.9	6.9	8.2	8.4
	3H	10.3	11.5	10.7	11.8	12.1	6.3	7.5	6.7	7.8	8.1
	4H	11.9	12.9	12.2	13.3	13.6	6.2	7.3	6.6	7.6	8.0
	6H	13.5	14.4	13.9	14.8	15.2	6.1	7.1	6.5	7.4	7.8
	8H	14.4	15.3	14.8	15.6	16.0	6.1	7.0	6.5	7.3	7.7
	12H	15.4	16.2	15.8	16.6	17.0	6.0	6.9	6.5	7.2	7.6
8H	4H	11.7	12.6	12.1	13.0	13.4	6.6	7.5	7.0	7.8	8.2
	6H	13.4	14.1	13.8	14.5	14.9	6.5	7.2	6.9	7.6	8.1
	8H	14.3	14.9	14.7	15.3	15.8	6.5	7.1	6.9	7.5	8.0
	12H	15.3	15.9	15.8	16.3	16.8	6.4	7.0	6.9	7.4	7.9
12H	4H	11.7	12.5	12.1	12.9	13.3	6.6	7.4	7.0	7.8	8.2
	6H	13.3	14.0	13.8	14.4	14.8	6.5	7.2	7.0	7.6	8.0
	8H	14.2	14.8	14.7	15.2	15.7	6.5	7.0	6.9	7.5	8.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.3					
1.5H	+ 0.5 / - 0.2					+ 1.6 / - 2.6					
2.0H	+ 0.9 / - 2.0					+ 1.1 / - 2.2					

CIE Pub.117 Corrected 107.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -7.8)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	PROTECTION ANGLE:

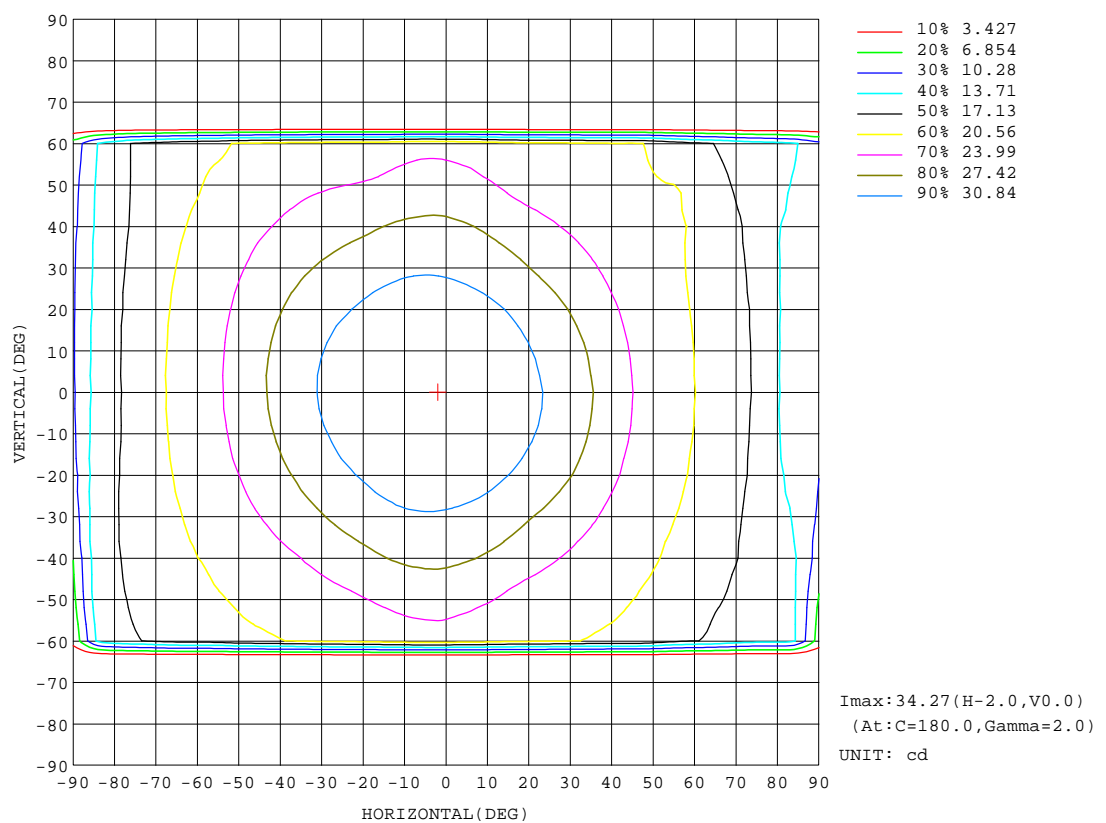
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	44	36	55	43	36	54	43	36	29
0.80	66	54	46	65	54	46	63	53	46	39
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	88	77	70	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	101	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:ZENGQG  
Test Date:2019-11-22

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: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	PROTECTION ANGLE:

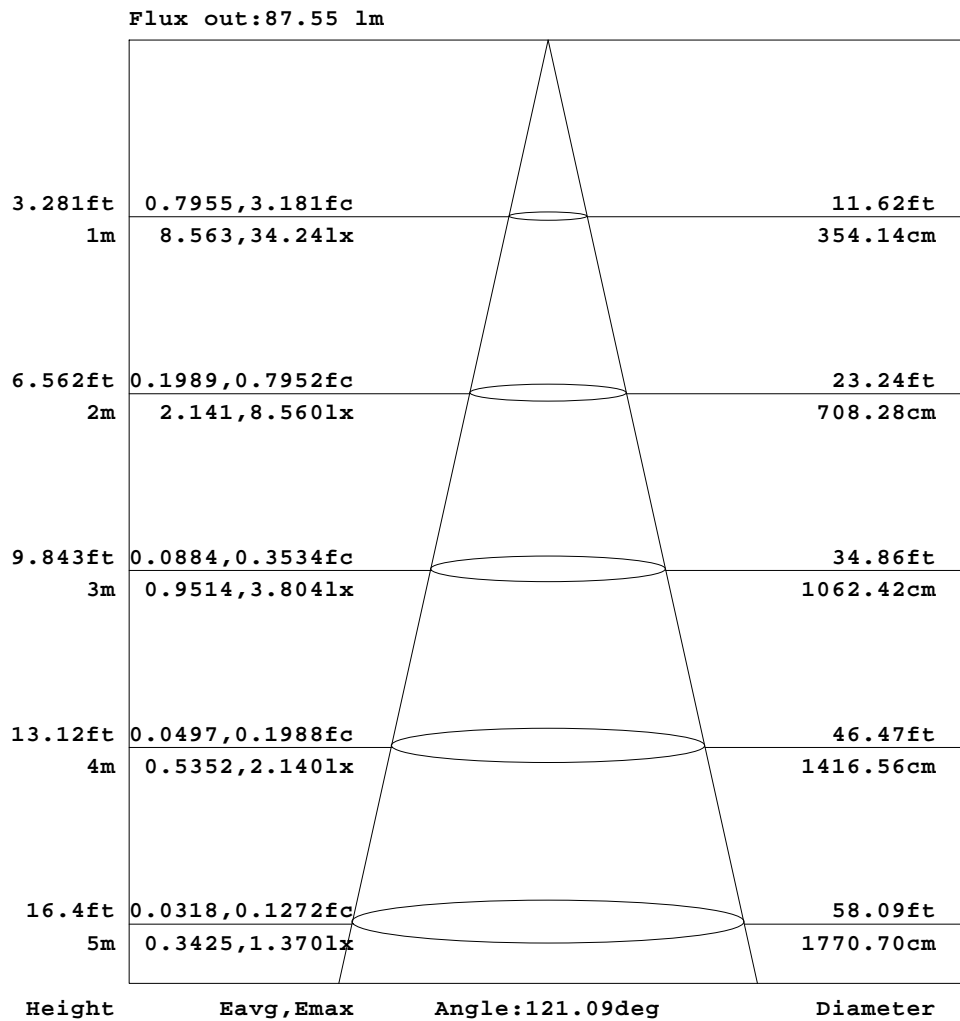


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	PROTECTION ANGLE:



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

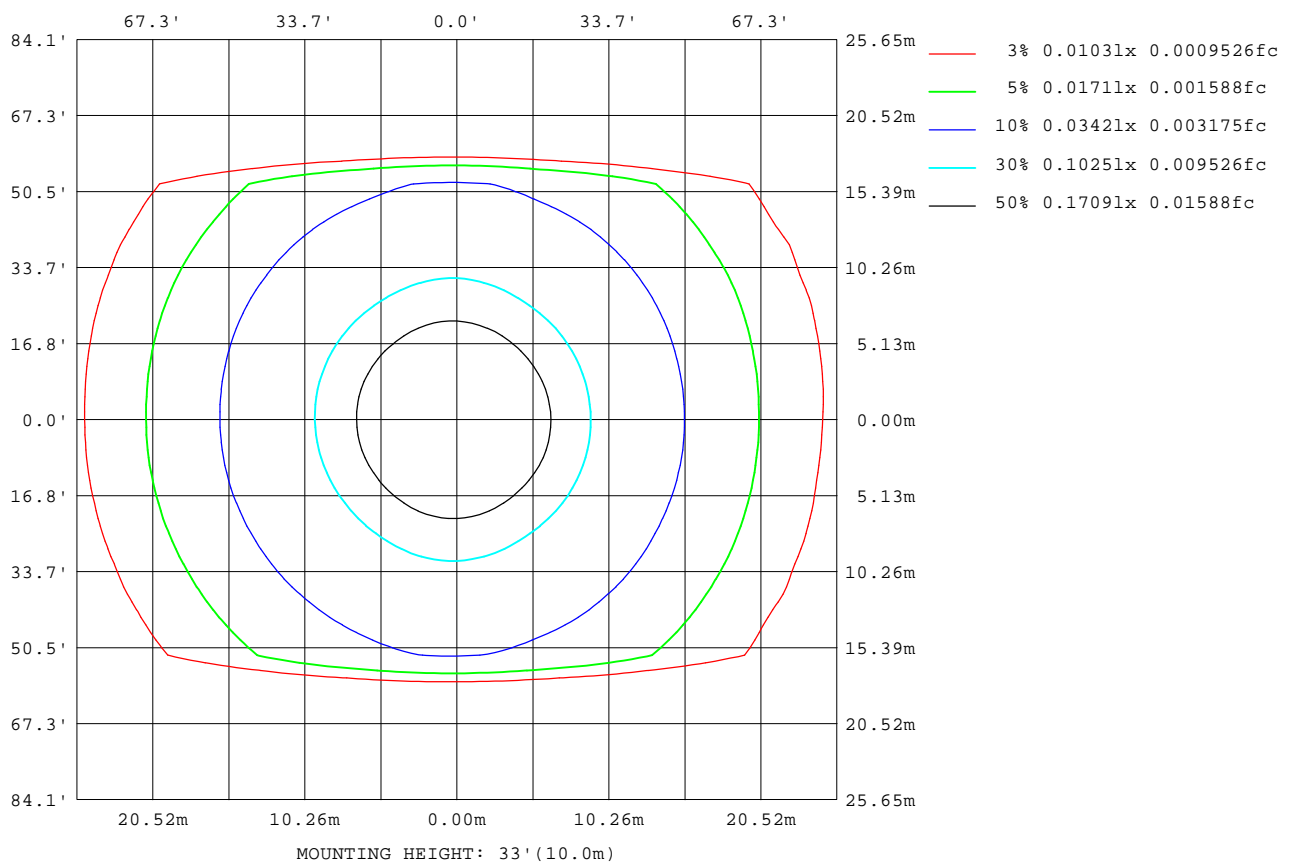
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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

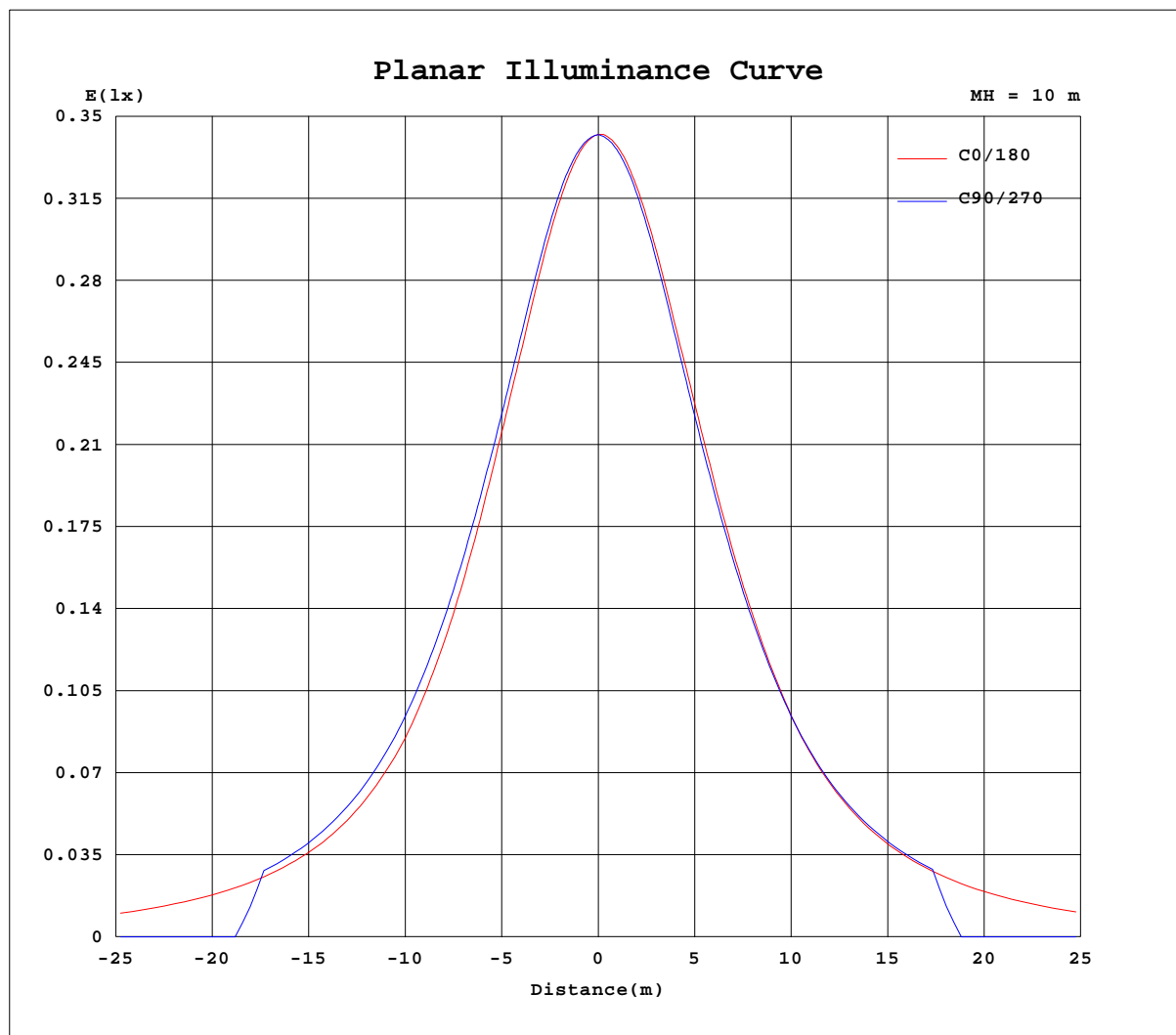
NAME: PT140918	TYPE:LED	WEIGHT:2.111(Kg)
DIM.: D330*500	SPEC.:	SERIAL No.:
MFR.:	SUR.:D330*200	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-22

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: 2019-11-22

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: