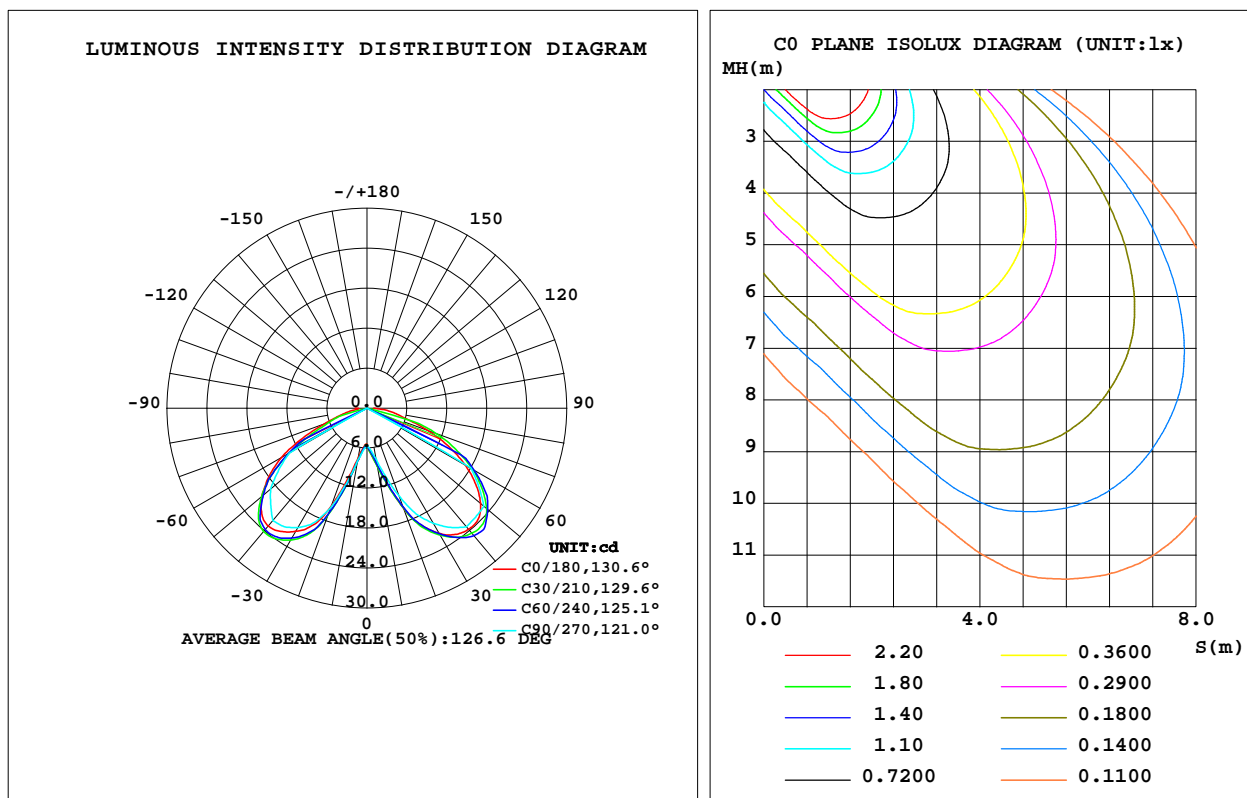


# LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 9.50 lm/W
MODEL		I <sub>max</sub> (cd)	25.29	S/MH(C0/180)	2.79	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	2.52	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	73.378	h UP,DN(C0-180)	0.0,51.0	
NOMINAL FLUX(lm)	73.3775	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.0	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	219.3	h down(%)	100.0	CIBSE SHR MAX	1.00	



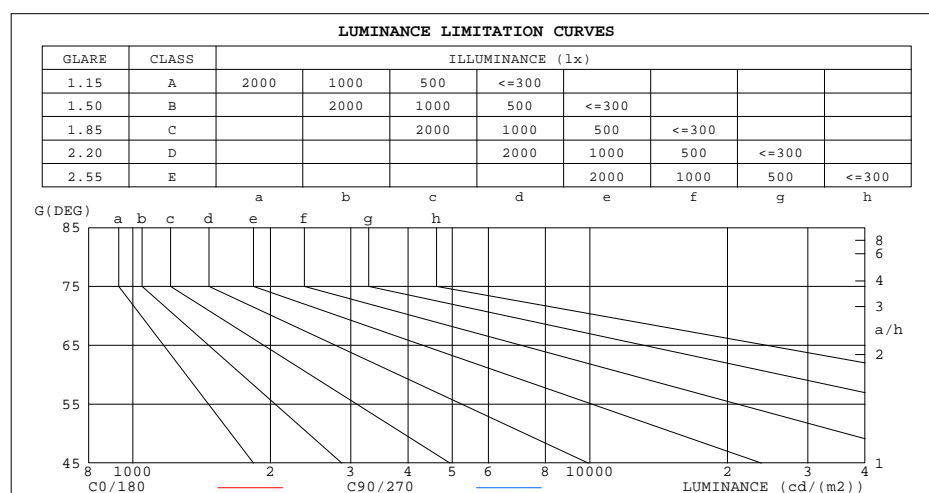
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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	6.874	6.778	6.278	5.994	5.854	6.086	6.331	6.849	0- 5	0.1449	0.1449	0.20,0.20
10	8.707	8.696	7.633	7.623	7.531	8.141	7.891	8.832	5- 10	0.5207	0.6656	0.91,0.91
15	11.66	11.63	10.41	10.88	10.78	12.00	11.43	12.23	10- 15	1.160	1.826	2.49,2.49
20	15.90	15.98	13.92	15.31	15.61	17.07	15.88	16.99	15- 20	2.260	4.086	5.57,5.57
25	19.39	19.65	17.48	19.45	19.43	20.95	18.97	20.46	20- 25	3.771	7.857	10.7,10.7
30	21.71	21.99	19.95	21.80	21.32	22.89	20.71	22.71	25- 30	5.264	13.12	17.9,17.9
35	23.14	23.77	21.86	23.29	22.58	23.92	21.69	24.21	30- 35	6.654	19.78	27.27
40	23.73	24.82	23.24	23.96	23.08	24.02	22.00	24.92	35- 40	7.901	27.68	37.7,37.7
45	23.62	24.89	23.08	23.60	22.34	22.71	20.45	24.42	40- 45	8.810	36.49	49.7,49.7
50	22.25	23.84	22.92	22.00	20.61	20.41	18.89	22.65	45- 50	9.169	45.66	62.2,62.2
55	19.94	21.24	20.48	19.26	18.03	17.03	16.18	19.59	50- 55	8.955	54.61	74.4,74.4
60	16.98	18.25	18.03	16.25	14.84	13.35	13.47	16.17	55- 60	8.146	62.76	85.5,85.5
65	13.50	14.62	0	12.35	10.69	9.095	0	11.93	60- 65	5.573	68.33	93.1,93.1
70	9.643	0	0	0	6.688	0	0	0	65- 70	2.795	71.13	96.9,96.9
75	5.983	0	0	0	4.066	0	0	0	70- 75	1.371	72.50	98.8,98.8
80	4.117	0	0	0	2.434	0	0	0	75- 80	0.6150	73.11	99.6,99.6
85	2.266	0	0	0	1.399	0	0	0	80- 85	0.2217	73.33	99.9,99.9
90	1.050	0	0	0	1.812	0	0	0	85- 90	0.0440	73.38	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	115	0
80	105	0
75	102	0
70	125	0
65	141	0
60	150	160
55	154	158
50	153	158
45	148	144

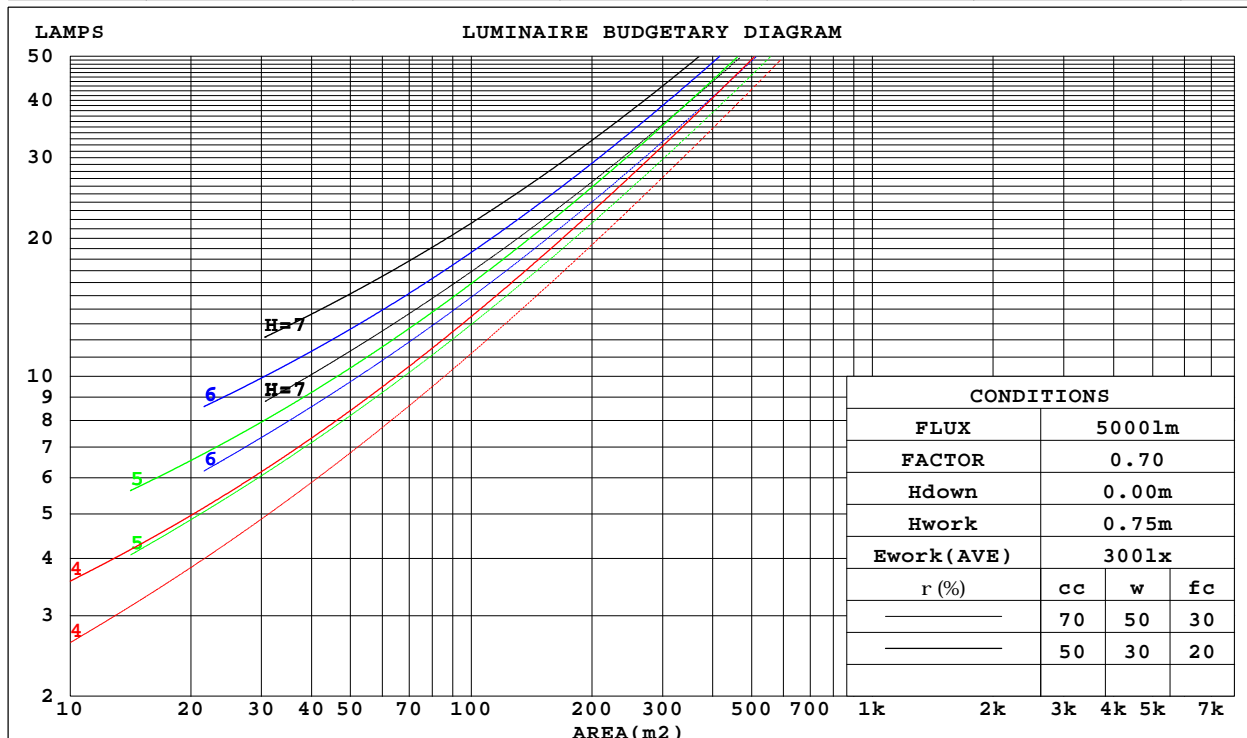
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	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	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.69	.60	.54	.68	.60	.53	.66	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.37	.49	.42	.37	.48	.42	.37	.35
7.0	.48	.39	.32	.47	.39	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.29
8.0	.43	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.25
9.0	.39	.30	.24	.38	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.22
10.0	.35	.27	.22	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.26	.21	.19



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	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	.288	.164	.052	.281	.160	.051	.268	.154	.049	.255	.147	.047	.244	.142	.046	
2.0	.283	.155	.048	.277	.153	.047	.266	.148	.046	.255	.143	.045	.245	.139	.044	
3.0	.270	.143	.043	.264	.141	.043	.254	.137	.042	.244	.134	.041	.235	.130	.040	
4.0	.253	.132	.039	.248	.130	.038	.239	.127	.038	.231	.124	.037	.223	.121	.037	
5.0	.237	.121	.035	.233	.119	.035	.224	.117	.034	.217	.114	.034	.210	.112	.034	
6.0	.222	.111	.032	.218	.110	.032	.210	.108	.031	.203	.106	.031	.197	.104	.031	
7.0	.207	.102	.029	.204	.102	.029	.197	.100	.029	.191	.098	.028	.185	.096	.028	
8.0	.194	.095	.027	.191	.094	.027	.185	.093	.026	.180	.091	.026	.174	.089	.026	
9.0	.182	.088	.025	.180	.088	.025	.174	.086	.024	.169	.085	.024	.164	.084	.024	
10.0	.172	.082	.023	.169	.082	.023	.164	.080	.023	.160	.079	.023	.155	.078	.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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.147	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.064	.097	.068	.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	.151	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.145	.083	.038	.125	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005	
7.0	.139	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.132	.070	.028	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.065	.024	.109	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.061	.022	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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: PT140931					TYPE:LED			WEIGHT:2.101(Kg)			
DIM.: D300*530					SPEC.:			SERIAL No.:			
MFR.:					SUR.:D300*240			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	7.9	9.5	8.1	9.7	9.9	7.2	8.8	7.5	9.0	9.2	
	3H	9.4	10.9	9.7	11.1	11.3	7.0	8.5	7.3	8.7	8.9
	4H	9.9	11.2	10.2	11.5	11.8	6.9	8.3	7.2	8.5	8.8
	6H	10.2	11.5	10.6	11.8	12.1	6.8	8.1	7.1	8.4	8.6
	8H	10.4	11.6	10.7	11.9	12.2	6.7	8.0	7.1	8.3	8.6
	12H	10.5	11.7	10.9	12.0	12.3	6.7	7.9	7.0	8.2	8.5
4H	2H	8.5	9.8	8.8	10.1	10.3	7.9	9.2	8.2	9.5	9.7
	3H	10.1	11.3	10.5	11.6	11.9	7.6	8.8	8.0	9.1	9.4
	4H	10.7	11.8	11.1	12.1	12.4	7.5	8.6	7.9	8.9	9.3
	6H	11.2	12.1	11.6	12.5	12.8	7.4	8.4	7.8	8.7	9.1
	8H	11.4	12.2	11.8	12.6	13.0	7.4	8.3	7.8	8.6	9.0
	12H	11.6	12.3	12.0	12.7	13.1	7.4	8.2	7.8	8.5	8.9
8H	4H	10.6	11.4	11.0	11.8	12.2	7.6	8.5	8.0	8.8	9.2
	6H	11.0	11.7	11.5	12.2	12.6	7.5	8.2	8.0	8.6	9.1
	8H	11.3	11.9	11.7	12.3	12.8	7.5	8.1	7.9	8.5	9.0
	12H	11.4	12.0	11.9	12.4	12.9	7.4	8.0	7.9	8.4	8.9
12H	4H	10.5	11.3	11.0	11.7	12.1	7.6	8.4	8.0	8.7	9.1
	6H	11.0	11.6	11.5	12.0	12.5	7.5	8.1	7.9	8.5	9.0
	8H	11.2	11.8	11.7	12.2	12.7	7.4	8.0	7.9	8.4	8.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.5					
1.5H	+ 0.3 / - 0.3					+ 1.6 / - 3.2					
2.0H	+ 0.6 / - 1.8					+ 0.9 / - 1.8					

CIE Pub.117 Corrected 73.38 lm Total Lamp Luminous Flux.(8log(F/F0) = -9.1)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	PROTECTION ANGLE:

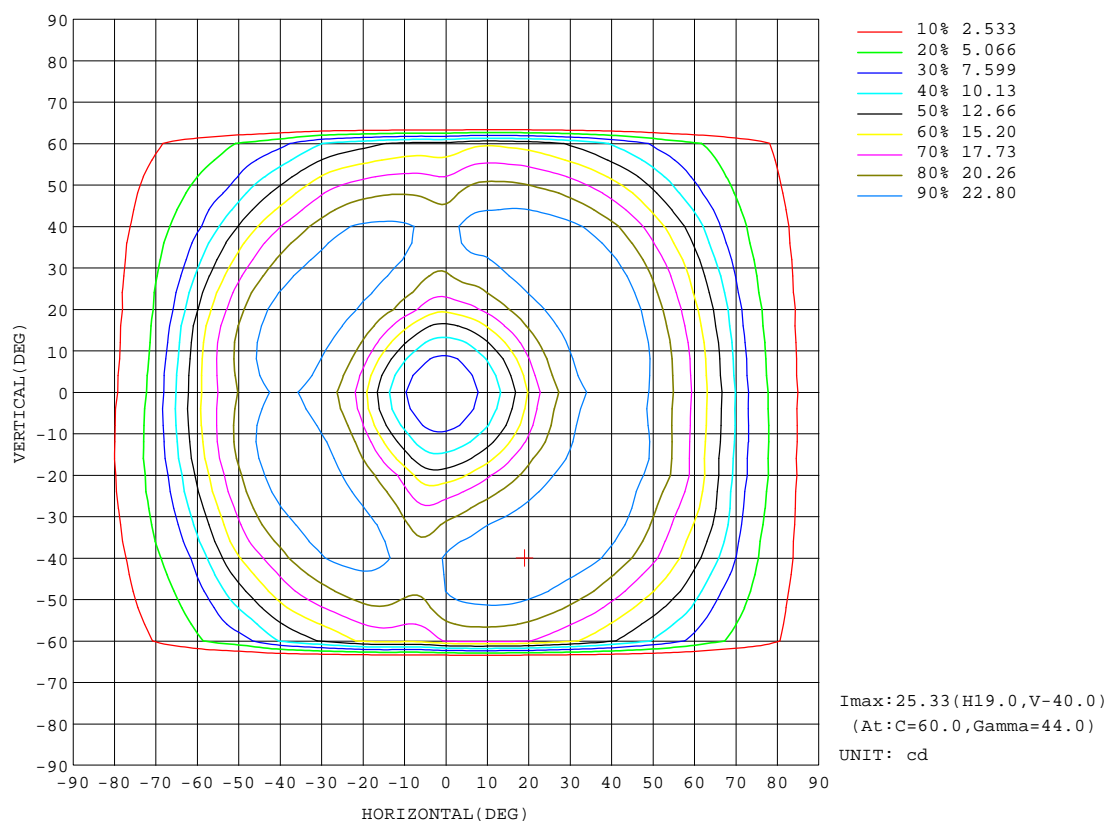
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	39	32	51	39	32	50	38	31	24
0.80	64	51	43	63	51	43	61	50	43	35
1.00	74	63	55	73	62	55	71	63	54	47
1.25	82	72	64	81	71	64	78	69	63	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	87	81	94	86	80	90	84	79	71
2.50	99	92	86	97	90	85	94	88	83	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	100	107	102	99	102	99	96	87
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:2019-11-21

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: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	PROTECTION ANGLE:

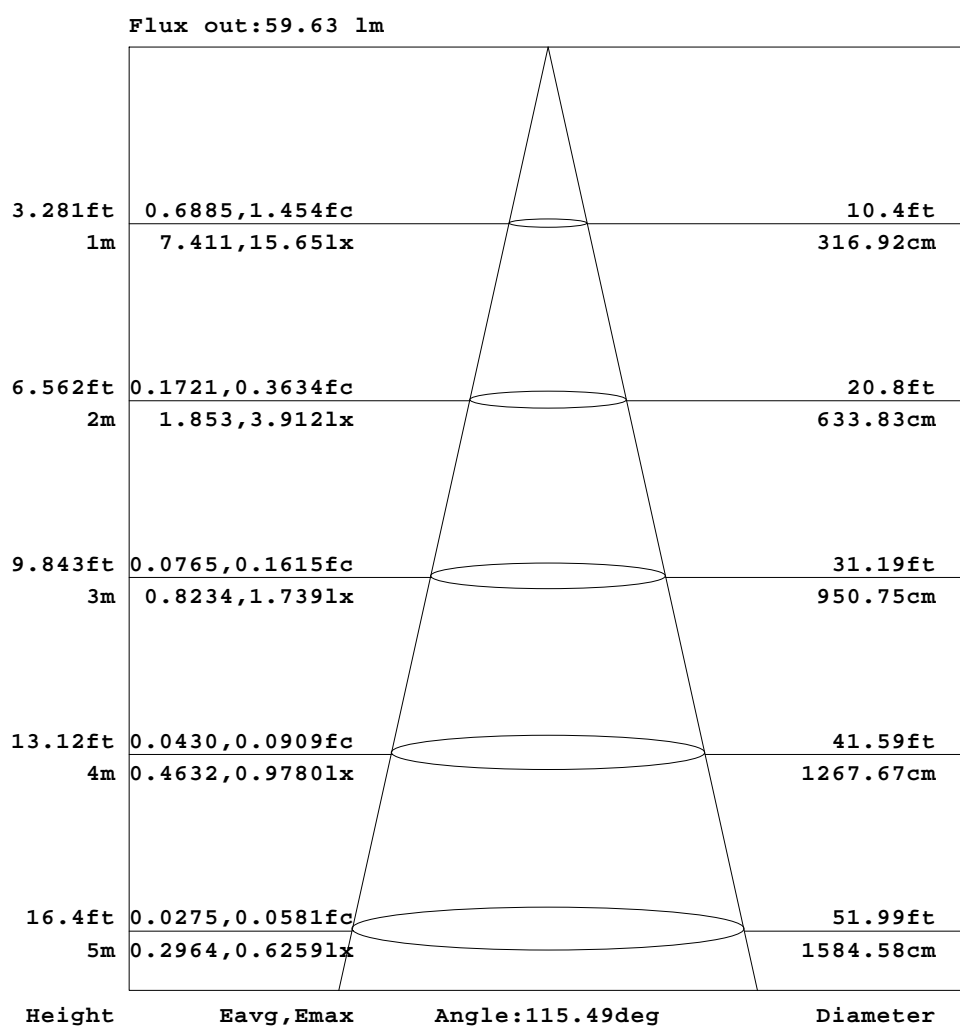


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	PROTECTION ANGLE:



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

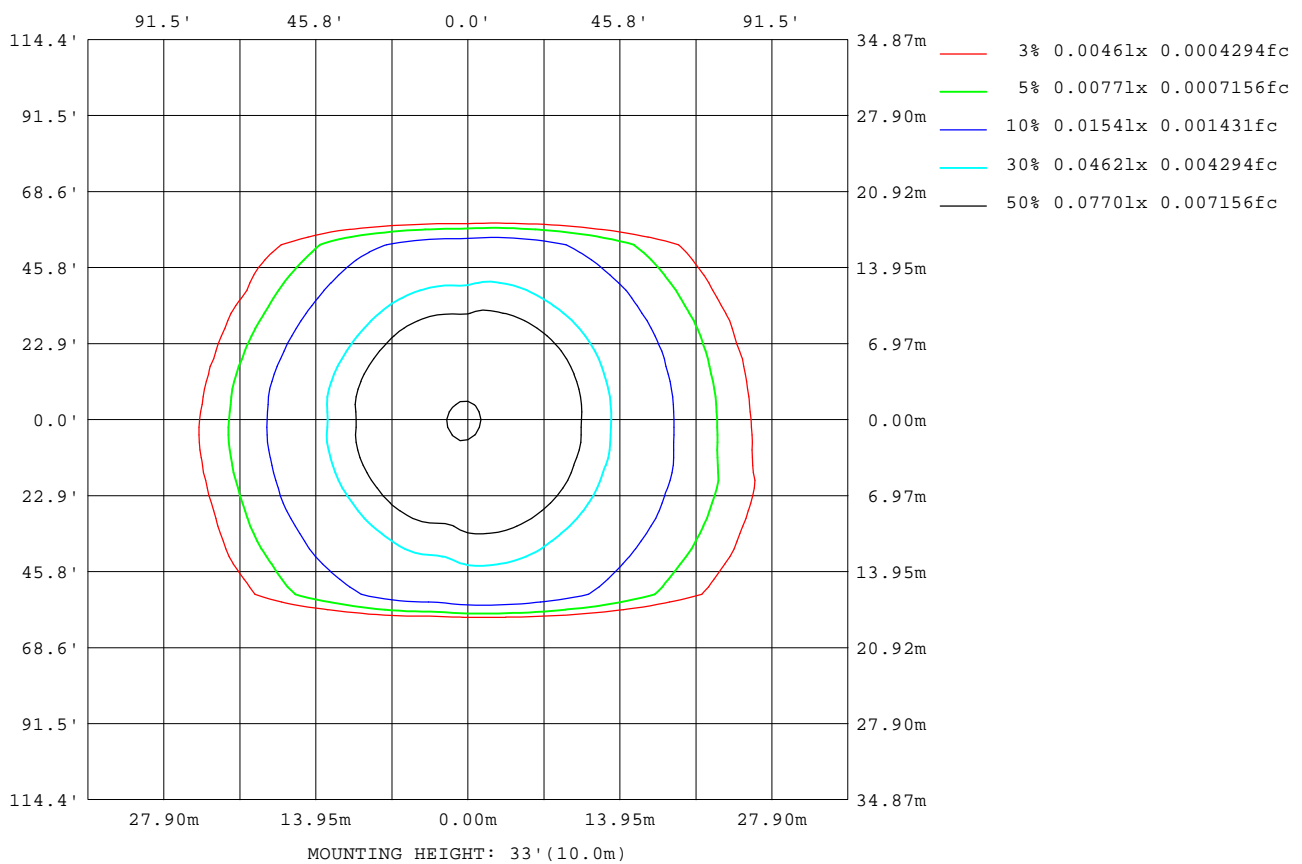
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQ  
Test Date:2019-11-21

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

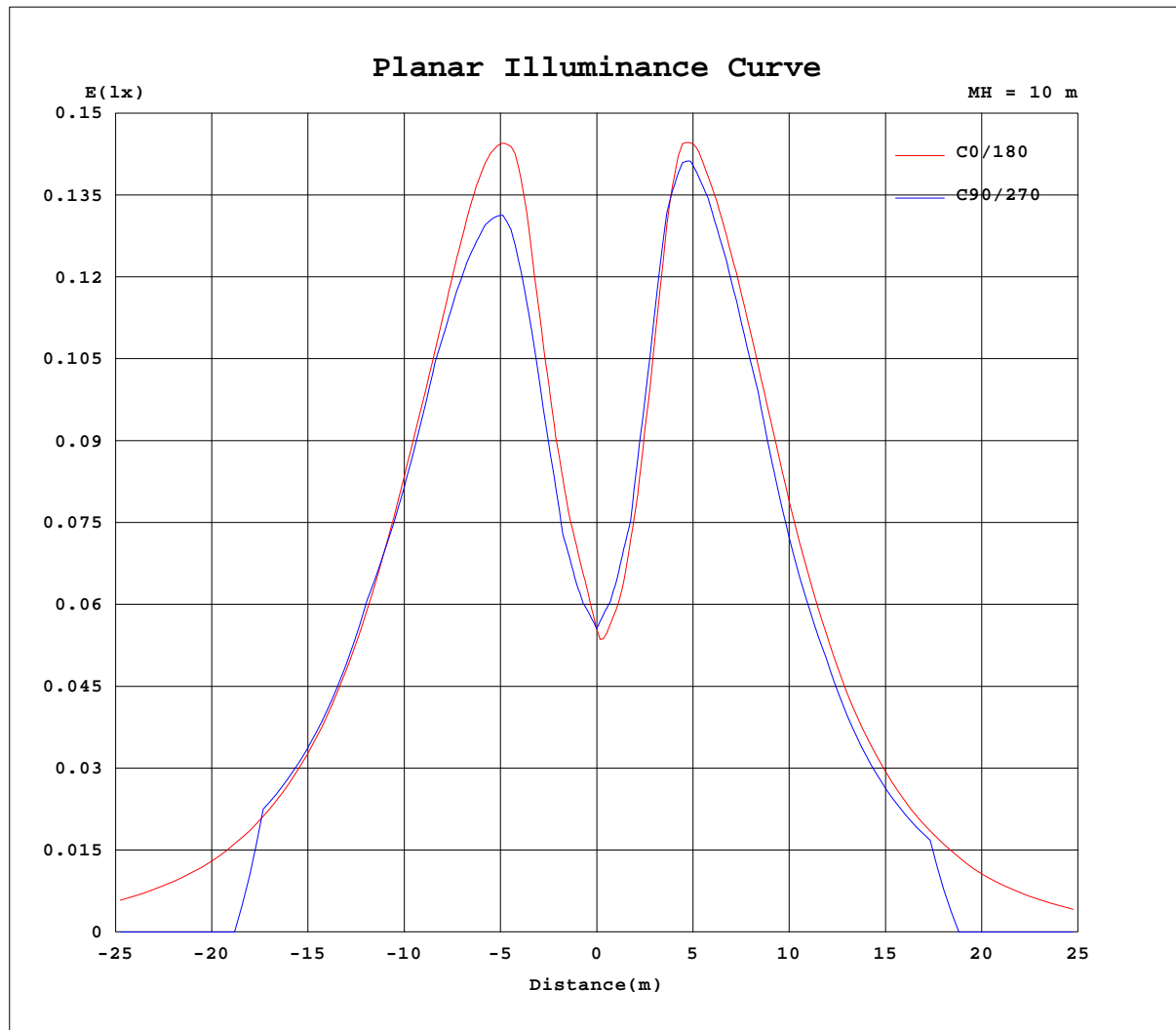
NAME: PT140931	TYPE:LED	WEIGHT:2.101(Kg)
DIM.: D300*530	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*240	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-11-21

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: 2019-11-21

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: