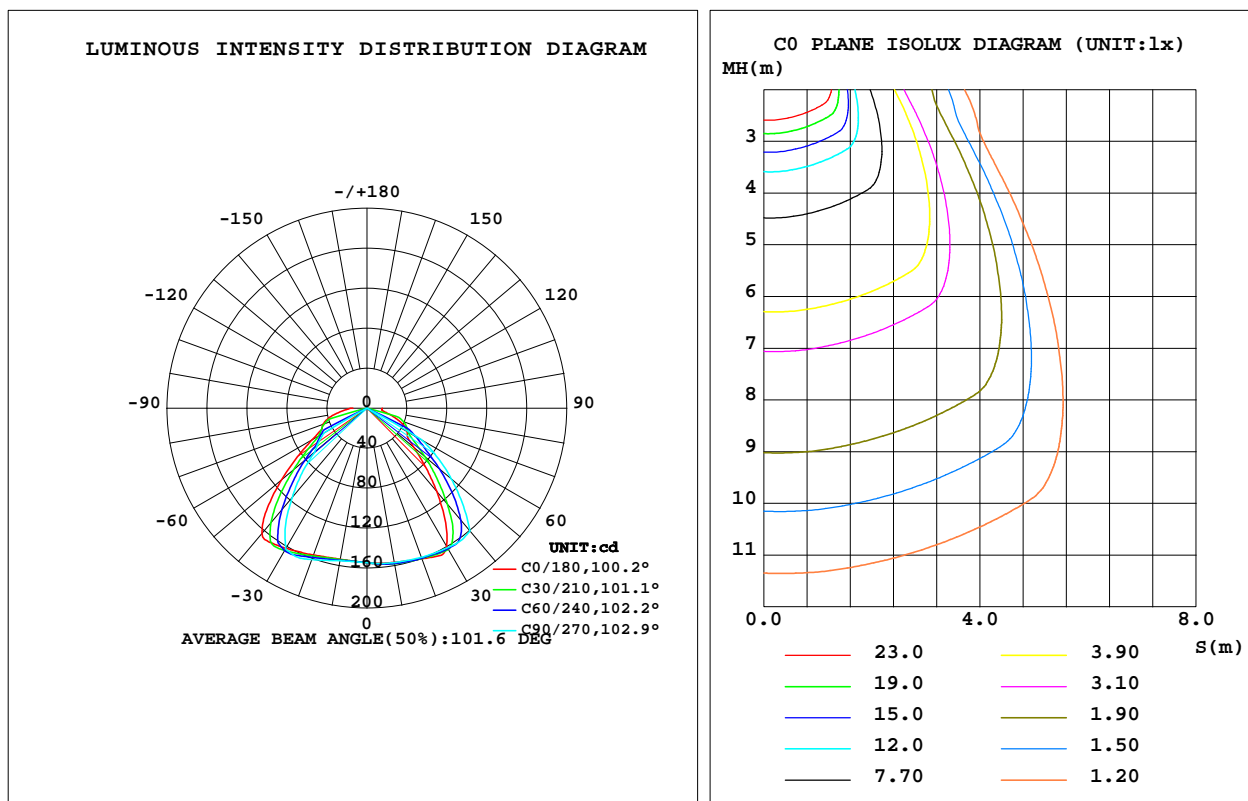


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 42.37 lm/W			
MODEL		Imax(cd)	167.3	S/MH(C0/180)	1.29
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.53
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	422.80	h UP,DN(C0-180)	0.0,52.7
NOMINAL FLUX(lm)	422.804	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,47.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	219.0	h down(%)	100.0	CIBSE SHR MAX	1.35



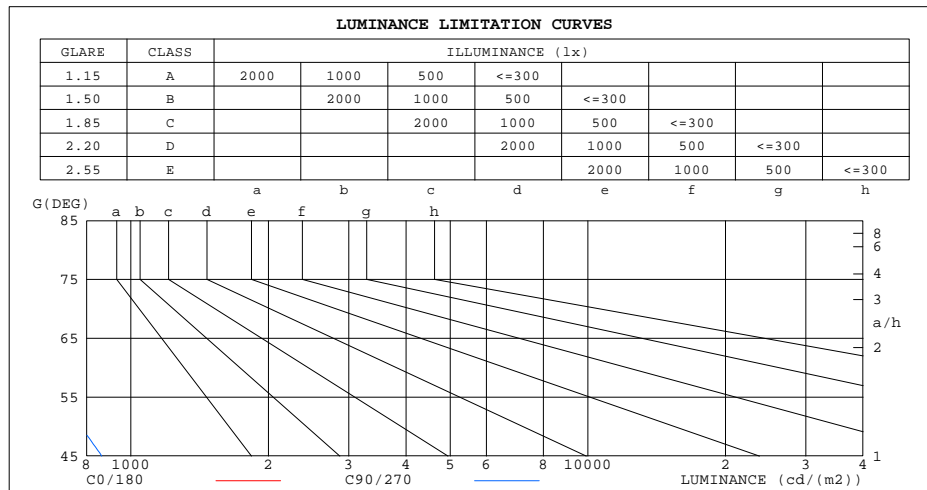
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-24

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	155.8	156.6	156.0	154.8	153.8	153.7	154.1	154.7	0- 5	3.701	3.701	0.88,0.88
10	156.6	158.1	156.8	154.9	153.5	154.1	154.9	155.6	5- 10	11.11	14.81	3.5,3.5
15	158.2	159.3	157.7	155.3	154.4	155.6	157.6	158.2	10- 15	18.54	33.35	7.89,7.89
20	160.5	160.0	158.9	156.2	156.3	158.2	161.1	162.3	15- 20	26.06	59.41	14.1,14.1
25	163.7	161.2	160.0	158.5	158.8	161.7	164.5	164.0	20- 25	33.68	93.10	22,22
30	159.4	162.3	161.2	161.7	162.0	165.3	162.7	150.9	25- 30	40.91	134.0	31.7,31.7
35	136.5	156.5	162.4	165.1	165.1	161.5	141.9	126.8	30- 35	46.17	180.2	42.6,42.6
40	108.5	137.0	160.5	166.4	163.6	140.7	116.3	101.2	35- 40	48.20	228.4	54,54
45	82.64	110.1	135.4	148.8	140.8	113.4	92.22	77.70	40- 45	46.18	274.6	64.9,64.9
50	61.67	85.36	110.3	119.0	111.5	86.54	68.18	60.43	45- 50	40.47	315.0	74.5,74.5
55	49.35	64.75	86.62	91.41	84.80	67.34	58.94	53.35	50- 55	33.95	349.0	82.5,82.5
60	46.40	49.34	62.95	68.13	63.58	52.50	49.70	47.98	55- 60	28.66	377.6	89.3,89.3
65	40.69	44.77	0	54.08	50.01	48.16	0	38.97	60- 65	19.83	397.5	94,94
70	31.59	0	0	0	46.71	0	0	0	65- 70	11.79	409.3	96.8,96.8
75	22.76	0	0	0	40.43	0	0	0	70- 75	7.329	416.6	98.5,98.5
80	16.29	0	0	0	30.97	0	0	0	75- 80	3.959	420.5	99.5,99.5
85	15.01	0	0	0	21.99	0	0	0	80- 85	1.765	422.3	99.9,99.9
90	15.54	0	0	0	14.09	0	0	0	85- 90	0.4985	422.8	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	776	0
80	423	0
75	397	0
70	416	0
65	434	0
60	418	568
55	388	681
50	433	774
45	527	863

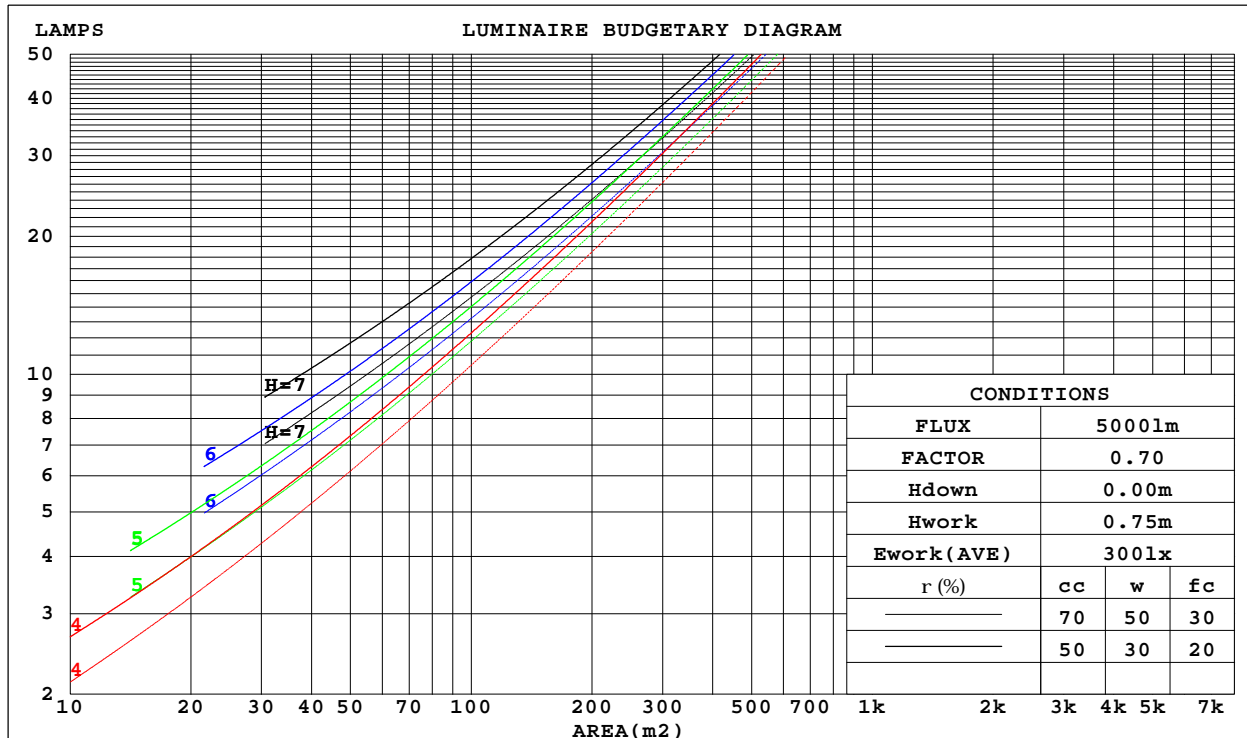
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZENGQG
 Test Date:2019-11-24

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: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	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	.00	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87	
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75	
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65	
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56	
5.0	.68	.59	.53	.66	.59	.53	.64	.58	.52	.63	.56	.52	.61	.55	.51	.49	
6.0	.61	.53	.47	.60	.52	.46	.58	.51	.46	.57	.50	.46	.55	.50	.45	.43	
7.0	.55	.47	.41	.55	.47	.41	.53	.46	.41	.52	.45	.41	.50	.45	.40	.39	
8.0	.51	.43	.37	.50	.42	.37	.49	.42	.37	.47	.41	.36	.46	.41	.36	.34	
9.0	.47	.39	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31	
10.0	.43	.35	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.40	.34	.30	.28	



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-24

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: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	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	.260	.148	.047	.253	.144	.046	.240	.138	.044	.228	.132	.042	.217	.126	.041	
2.0	.253	.139	.043	.247	.136	.042	.235	.131	.041	.225	.126	.039	.215	.122	.038	
3.0	.240	.128	.038	.234	.126	.038	.224	.122	.037	.215	.118	.036	.207	.114	.035	
4.0	.226	.117	.034	.221	.116	.034	.212	.112	.034	.204	.109	.033	.196	.107	.032	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.192	.102	.030	.186	.099	.030	
6.0	.199	.100	.029	.195	.099	.028	.188	.096	.028	.182	.094	.028	.175	.092	.027	
7.0	.187	.092	.026	.184	.091	.026	.177	.090	.026	.172	.088	.026	.166	.086	.025	
8.0	.176	.086	.024	.173	.085	.024	.167	.084	.024	.162	.082	.024	.157	.081	.024	
9.0	.166	.080	.022	.163	.080	.022	.158	.078	.022	.154	.077	.022	.149	.076	.022	
10.0	.157	.075	.021	.155	.075	.021	.150	.074	.021	.146	.072	.021	.142	.071	.020	

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	.151	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.060	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.113	.065	.030	.078	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.103	.055	.023	.071	.039	.016	.042	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-24

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: PT140192					TYPE:LED			WEIGHT:2.690 (Kg)			
DIM.: D250*680					SPEC.:			SERIAL No.:			
MFR.:					SUR.:D250*220			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	9.7	11.1	10.0	11.3	11.5	10.8	12.2	11.1	12.4	12.6	
	3H	11.3	12.6	11.6	12.9	13.1	10.6	11.9	10.9	12.1	
	4H	12.0	13.2	12.3	13.5	13.7	10.5	11.7	10.8	12.2	
	6H	12.6	13.7	12.9	14.0	14.3	10.4	11.6	10.7	11.8	
	8H	12.9	14.0	13.2	14.3	14.5	10.4	11.5	10.7	11.7	
	12H	13.3	14.3	13.6	14.6	14.9	10.3	11.4	10.7	11.6	
4H	2H	10.3	11.5	10.6	11.7	12.0	11.1	12.3	11.4	12.5	
	3H	12.2	13.2	12.5	13.5	13.8	10.9	11.9	11.2	12.2	
	4H	13.0	14.0	13.4	14.3	14.6	10.8	11.7	11.1	12.0	
	6H	13.7	14.5	14.1	14.9	15.2	10.7	11.5	11.1	11.9	
	8H	14.1	14.8	14.5	15.2	15.6	10.6	11.4	11.0	11.8	
	12H	14.5	15.2	14.9	15.6	16.0	10.6	11.3	11.0	11.7	
8H	4H	12.9	13.6	13.3	14.0	14.4	10.8	11.6	11.2	11.9	
	6H	13.6	14.2	14.0	14.6	15.0	10.7	11.4	11.2	11.8	
	8H	13.9	14.5	14.4	14.9	15.4	10.7	11.2	11.1	11.7	
	12H	14.4	14.9	14.9	15.3	15.8	10.6	11.1	11.1	11.6	
12H	4H	12.8	13.5	13.2	13.9	14.3	10.8	11.5	11.2	11.9	
	6H	13.5	14.1	14.0	14.5	15.0	10.7	11.2	11.1	11.7	
	8H	13.9	14.4	14.4	14.8	15.3	10.6	11.1	11.1	11.6	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.6					
1.5H	+ 0.3 / - 0.3					+ 0.9 / - 1.9					
2.0H	+ 0.7 / - 2.0					+ 1.3 / - 2.2					

CIE Pub.117 Corrected 422.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.0)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-24

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: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	PROTECTION ANGLE:

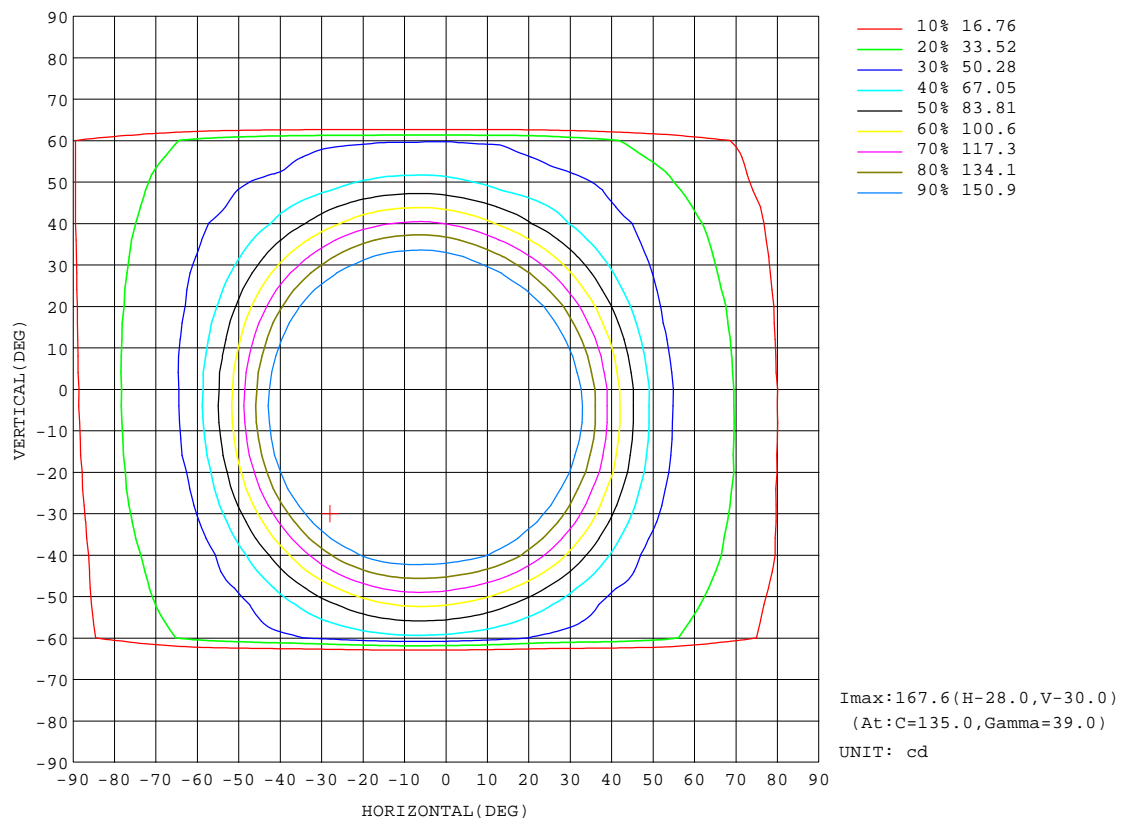
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	62	52	45	62	51	45	61	51	45	39
0.80	73	62	56	72	62	56	70	61	55	49
1.00	82	72	65	80	71	65	78	72	65	58
1.25	88	79	73	87	79	73	85	77	72	66
1.50	93	85	79	92	84	78	89	82	77	70
2.00	99	92	87	98	91	86	94	89	84	77
2.50	102	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	98	90
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:2019-11-24

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: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	PROTECTION ANGLE:

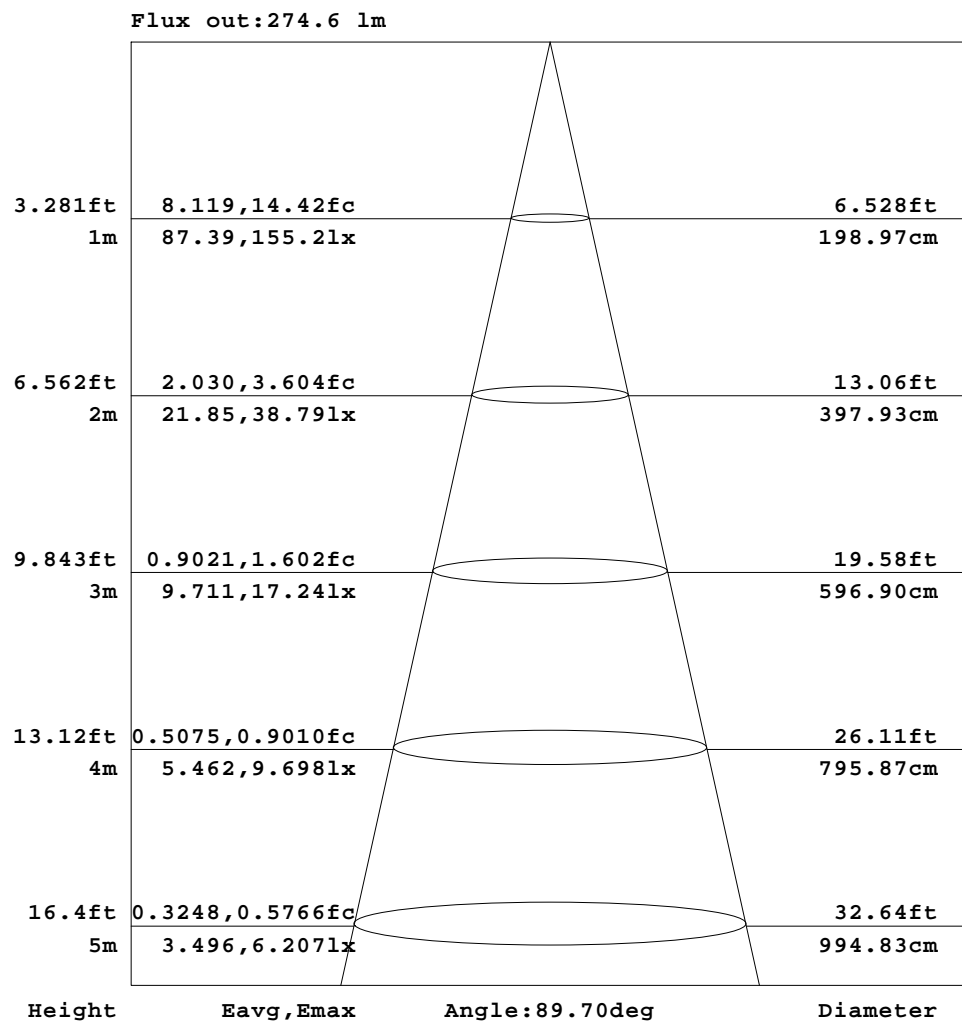


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-24

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: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	PROTECTION ANGLE:



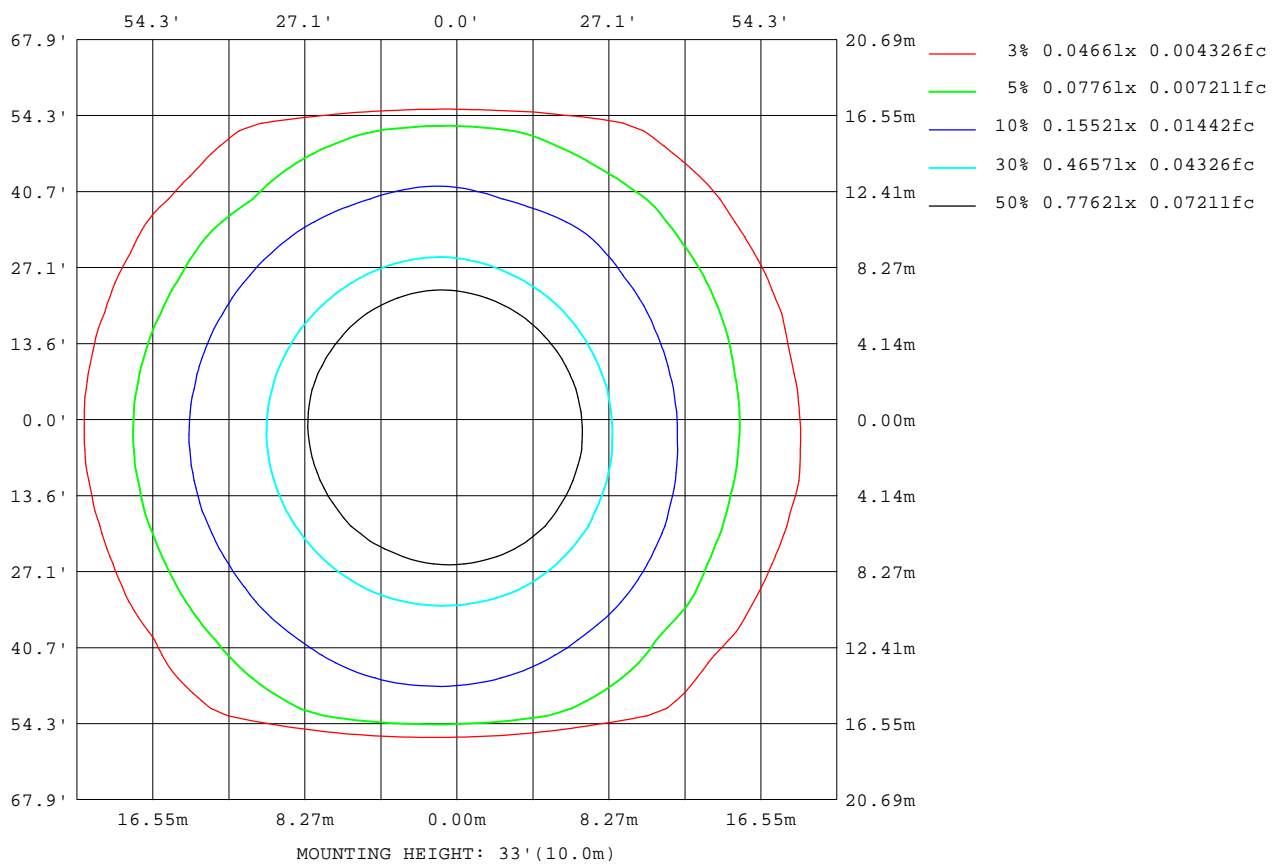
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQ
Test Date:2019-11-24

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

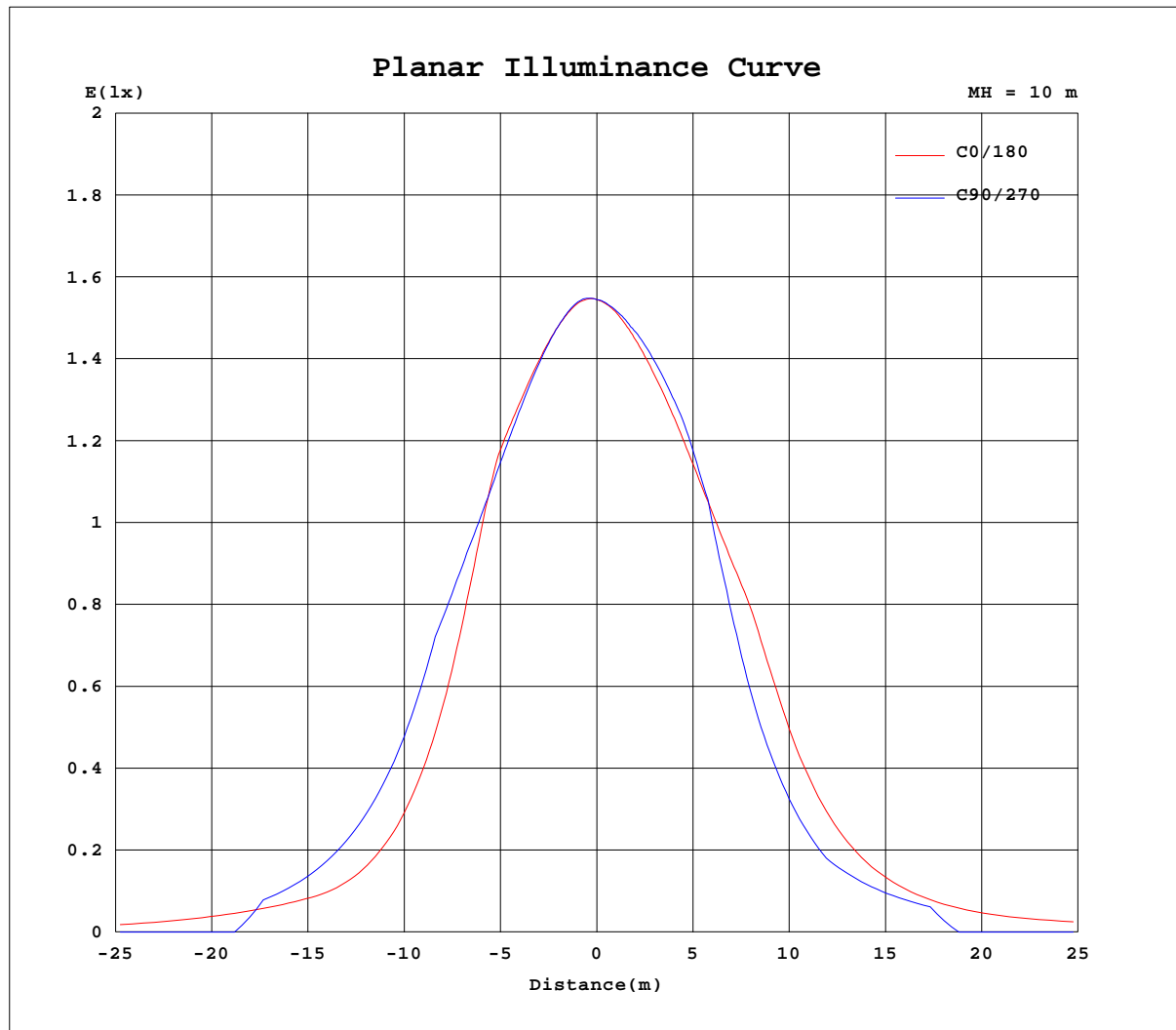
NAME: PT140192	TYPE:LED	WEIGHT:2.690(Kg)
DIM.: D250*680	SPEC.:	SERIAL No.:
MFR.:	SUR.:D250*220	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-24

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: 2019-11-24

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: