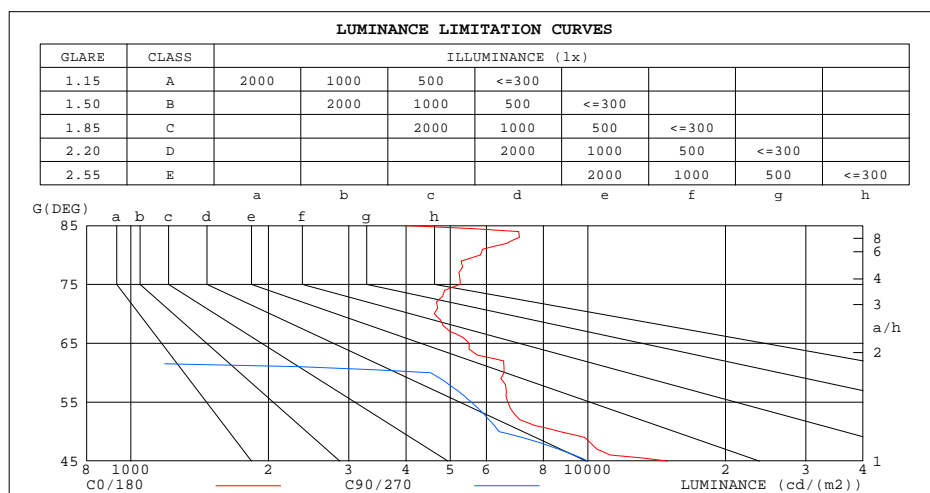


```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_v1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 9.650m [K=1.0000]
Remarks:
```

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	2971	2725	2572	2522	2678	2895	3029	3036	0- 5	69.16	69.16	8.38,8.38
10	2599	2189	1925	1803	1960	2274	2712	2732	5- 10	180.2	249.4	30.2,30.2
15	1882	1435	1136	1046	1246	1513	1921	2109	10- 15	224.0	473.4	57.3,57.3
20	1055	520.0	255.9	297.7	347.4	752.0	1111	1250	15- 20	178.5	651.9	79,79
25	355.1	236.2	146.8	131.9	175.8	237.9	444.3	495.8	20- 25	94.07	746.0	90.4,90.4
30	120.7	60.60	32.62	35.29	50.81	82.54	131.8	216.1	25- 30	43.47	789.4	95.6,95.6
35	33.66	22.17	16.74	16.82	21.65	36.39	40.76	36.34	30- 35	14.45	803.9	97.4,97.4
40	17.80	14.13	12.60	11.77	13.87	17.97	21.47	19.24	35- 40	6.895	810.8	98.2,98.2
45	13.30	8.859	8.882	8.019	9.118	10.61	14.83	13.33	40- 45	4.852	815.6	98.8,98.8
50	7.020	5.733	5.166	5.207	5.478	6.997	8.188	7.727	45- 50	3.429	819.1	99.2,99.2
55	4.818	4.555	4.006	3.725	3.752	4.858	5.865	5.475	50- 55	2.351	821.4	99.5,99.5
60	4.120	3.555	2.845	2.595	2.363	3.463	3.542	3.814	55- 60	1.826	823.2	99.7,99.7
65	2.918	2.756	0	2.055	1.719	2.312	0	2.688	60- 65	1.134	824.4	99.9,99.9
70	1.981	0	0	0	1.394	0	0	0	65- 70	0.5620	824.9	99.9,99.9
75	1.709	0	0	0	1.145	0	0	0	70- 75	0.3229	825.3	100,100
80	1.270	0	0	0	0.2816	0	0	0	75- 80	0.1688	825.4	100,100
85	0.4330	0	0	0	0.1862	0	0	0	80- 85	0.0542	825.5	100,100
90	0.1671	0	0	0	0.0808	0	0	0	85- 90	0.0072	825.5	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	3955	0
80	5823	0
75	5258	0
70	4612	0
65	5497	0
60	6561	4531
55	6687	5560
50	8695	6398
45	14977	10001

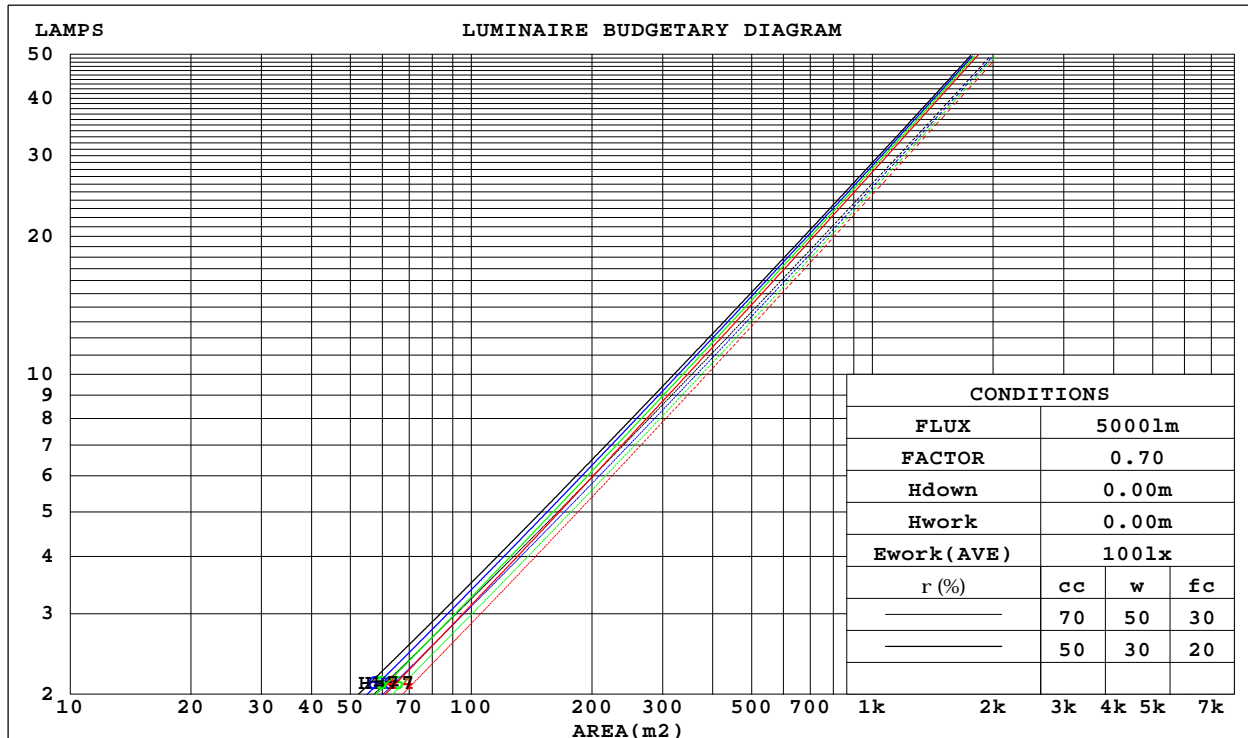
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-14

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: PP121191-DT	TYPE:LED	WEIGHT:1.288(Kg)
DIM.: D400*230	SPEC.:	SERIAL No.:
MFR.:	SUR.:D40	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	1.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.98	.00	.98	.96	.97	.96	.94	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.96	.94	.92	.94	.92	.91	.90
4.0	.98	.94	.91	.97	.94	.91	.95	.92	.90	.93	.91	.89	.92	.90	.88	.86
5.0	.95	.90	.87	.94	.90	.87	.92	.89	.86	.91	.88	.85	.89	.87	.85	.84
6.0	.91	.87	.84	.90	.86	.83	.89	.86	.83	.88	.85	.82	.87	.84	.82	.81
7.0	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.84	.82	.79	.78
8.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
9.0	.82	.78	.75	.82	.78	.75	.81	.78	.75	.81	.77	.75	.80	.77	.75	.74
10.0	.80	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.73	.78	.75	.73	.72



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-14

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: PP121191-DT	TYPE:LED	WEIGHT:1.288(Kg)
DIM.: D400*230	SPEC.:	SERIAL No.:
MFR.:	SUR.:D40	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	.140	.080	.025	.133	.076	.024	.121	.069	.022	.110	.063	.020	.099	.057	.019	
2.0	.130	.071	.022	.125	.069	.021	.114	.064	.020	.105	.059	.018	.096	.054	.017	
3.0	.122	.065	.019	.117	.063	.019	.108	.059	.018	.100	.055	.017	.093	.052	.016	
4.0	.114	.059	.017	.110	.058	.017	.103	.055	.016	.096	.052	.016	.090	.049	.015	
5.0	.108	.055	.016	.104	.054	.016	.098	.051	.015	.092	.049	.015	.087	.047	.014	
6.0	.102	.051	.015	.099	.050	.014	.094	.048	.014	.089	.046	.014	.084	.044	.013	
7.0	.097	.048	.014	.095	.047	.013	.090	.045	.013	.086	.044	.013	.081	.042	.012	
8.0	.093	.045	.013	.090	.045	.013	.086	.043	.012	.083	.042	.012	.079	.041	.012	
9.0	.089	.043	.012	.087	.042	.012	.083	.041	.012	.080	.040	.011	.076	.039	.011	
10.0	.085	.041	.011	.083	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	

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	.169	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.104	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.083	.059	.041	.058	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.091	.061	.041	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.080	.051	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-14

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: PP121191-DT					TYPE:LED			WEIGHT:1.288(Kg)			
DIM.: D400*230					SPEC.:			SERIAL No.:			
MFR.:					SUR.:D40			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	10.4	11.1	10.6	11.2	11.4	8.1	8.7	8.3	8.9	9.0	
	10.9	11.5	11.1	11.7	11.9	7.9	8.5	8.2	8.7	8.9	
	11.2	11.8	11.5	12.0	12.2	7.8	8.4	8.1	8.6	8.9	
	11.6	12.1	11.8	12.4	12.6	7.8	8.3	8.0	8.5	8.8	
	11.8	12.3	12.1	12.6	12.8	7.7	8.3	8.0	8.5	8.7	
	11.9	12.4	12.2	12.7	13.0	7.7	8.2	8.0	8.4	8.7	
4H	2H	10.5	11.1	10.7	11.3	11.5	8.4	8.9	8.6	9.2	9.4
	3H	11.1	11.7	11.4	11.9	12.2	8.2	8.7	8.5	9.0	9.2
	4H	11.6	12.0	11.9	12.3	12.6	8.1	8.6	8.4	8.9	9.2
	6H	12.0	12.5	12.4	12.8	13.1	8.0	8.4	8.3	8.7	9.1
	8H	12.3	12.7	12.7	13.1	13.4	7.9	8.3	8.3	8.7	9.0
	12H	12.5	12.8	12.9	13.2	13.6	7.9	8.2	8.3	8.6	9.0
8H	4H	11.4	11.8	11.8	12.2	12.5	8.0	8.4	8.4	8.8	9.1
	6H	11.9	12.2	12.3	12.6	13.0	7.9	8.3	8.4	8.7	9.1
	8H	12.2	12.5	12.6	12.9	13.3	7.9	8.2	8.3	8.6	9.0
	12H	12.3	12.5	12.8	13.0	13.5	7.8	8.1	8.3	8.5	9.0
12H	4H	11.4	11.7	11.8	12.1	12.5	8.0	8.4	8.4	8.7	9.1
	6H	11.8	12.1	12.3	12.5	13.0	7.9	8.2	8.3	8.6	9.0
	8H	12.1	12.4	12.6	12.8	13.3	7.8	8.1	8.3	8.5	9.0
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.3					+ 1.2 / - 1.7					
1.5H	+ 2.3 / - 1.0					+ 1.2 / - 1.3					
2.0H	+ 2.0 / - 1.2					+ 2.0 / - 2.2					

CIE Pub.117 Corrected 825.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.7)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-14

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: PP121191-DT	TYPE:LED	WEIGHT:1.288(Kg)
DIM.: D400*230	SPEC.:	SERIAL No.:
MFR.:	SUR.:D40	PROTECTION ANGLE:

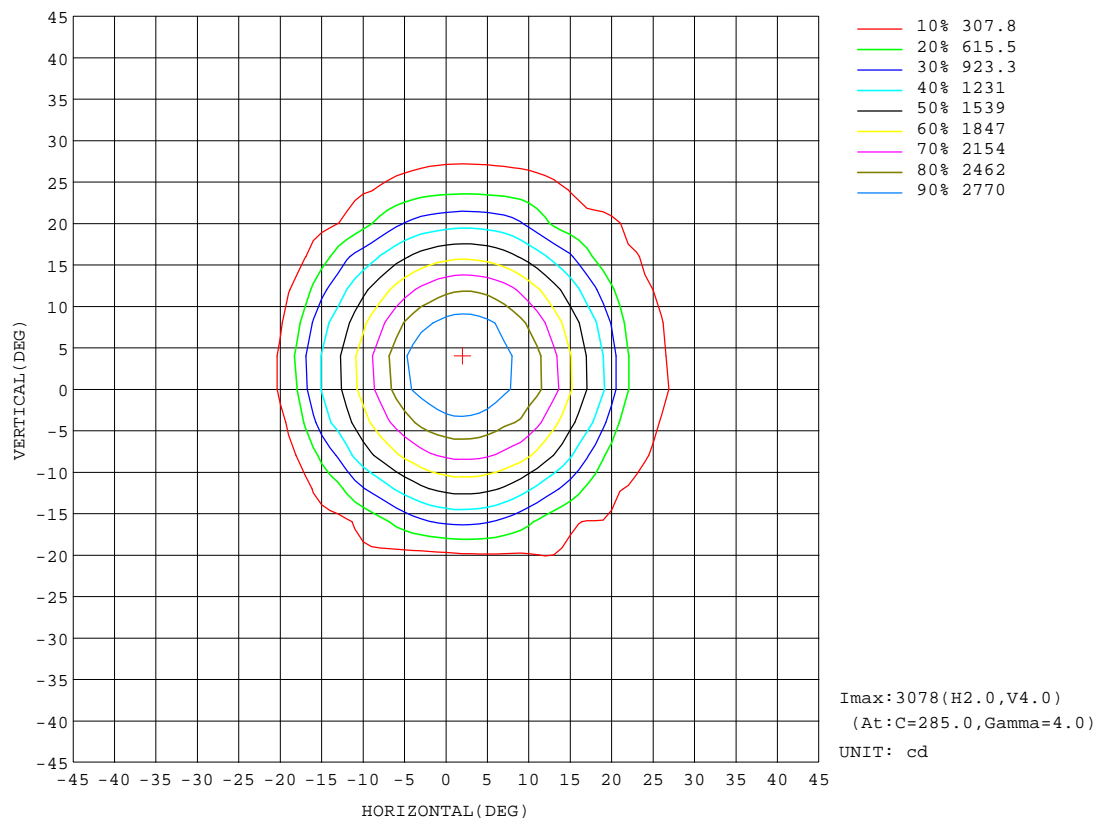
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	85	81	90	84	81	89	84	81	78
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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:2019-11-14

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: PP121191-DT	TYPE:LED	WEIGHT:1.288(Kg)
DIM.: D400*230	SPEC.:	SERIAL No.:
MFR.:	SUR.:D40	PROTECTION ANGLE:

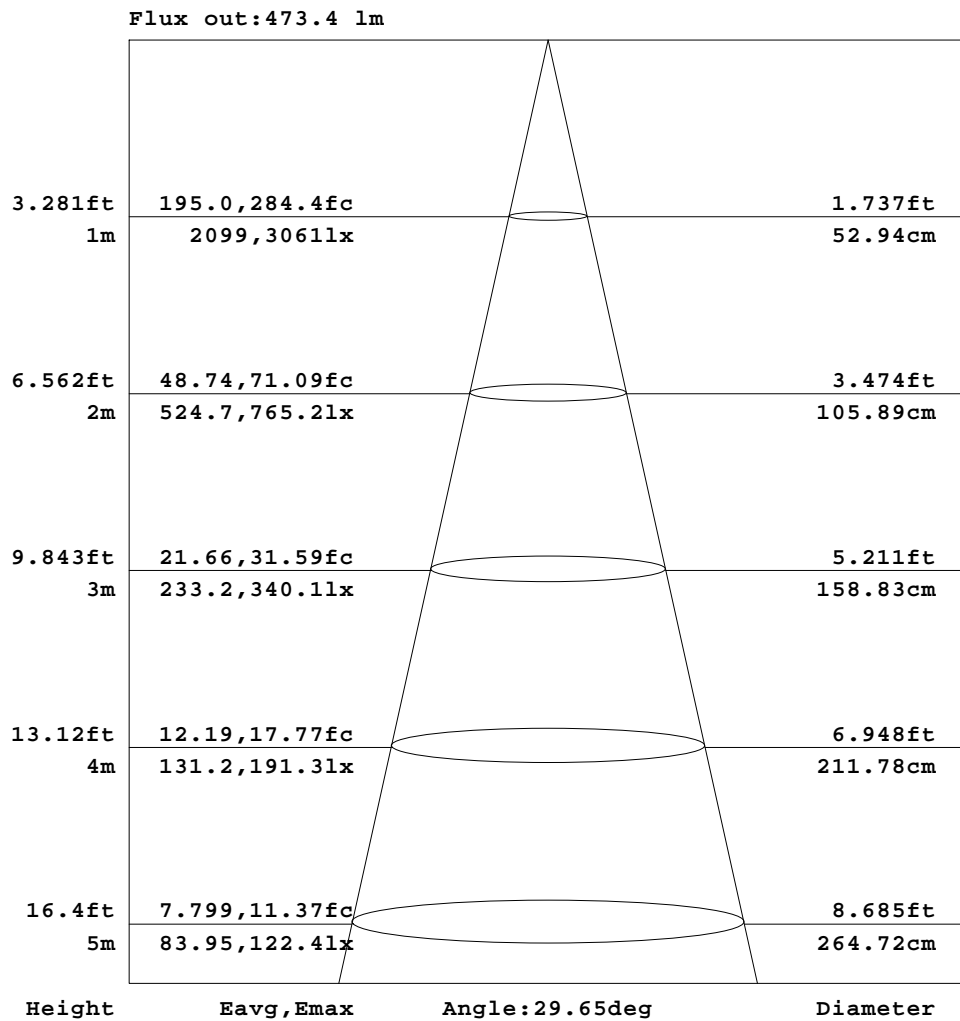


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-14

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: PP121191-DT	TYPE:LED	WEIGHT:1.288(Kg)
DIM.: D400*230	SPEC.:	SERIAL No.:
MFR.:	SUR.:D40	PROTECTION ANGLE:



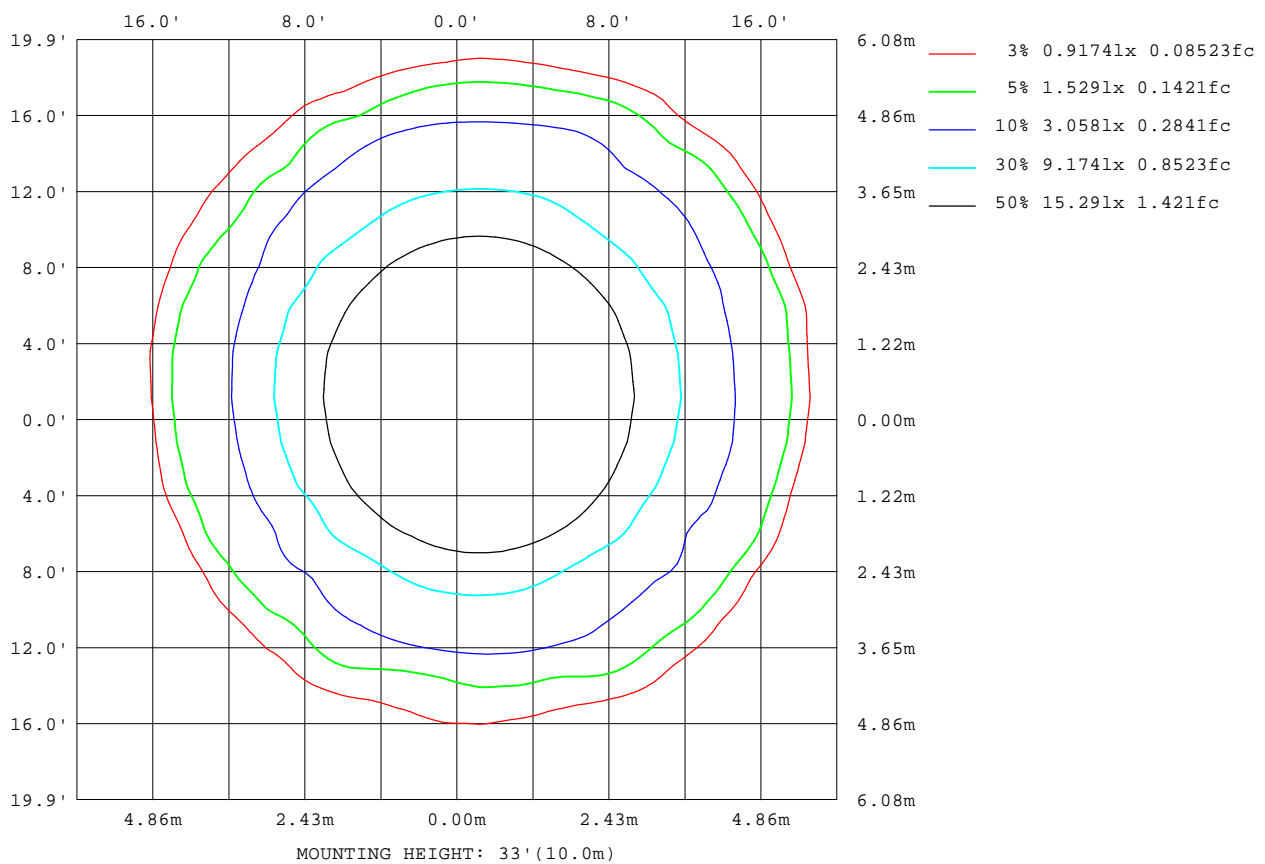
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-14

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

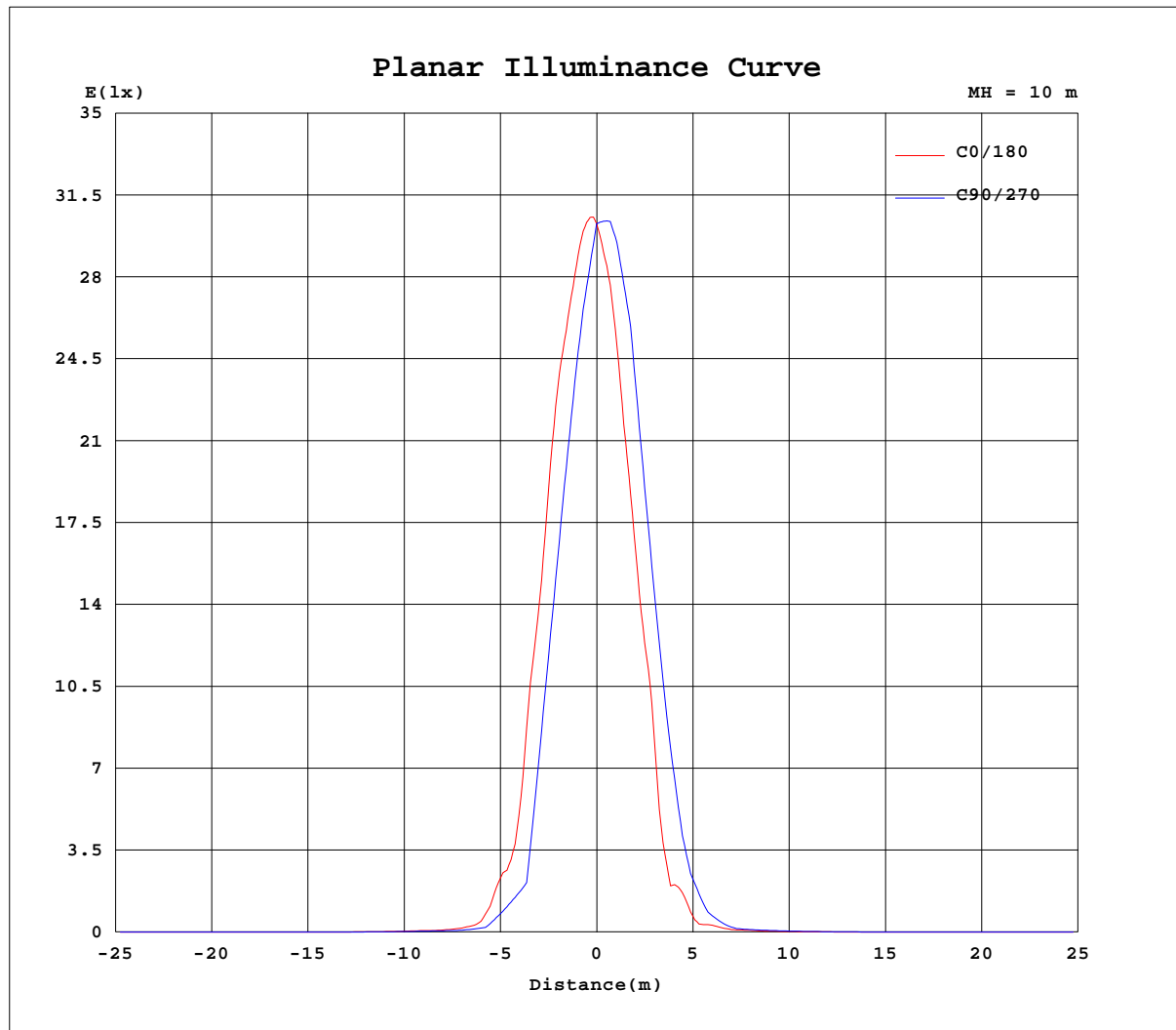
NAME: PP121191-DT	TYPE:LED	WEIGHT:1.288(Kg)
DIM.: D400*230	SPEC.:	SERIAL No.:
MFR.:	SUR.:D40	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZENGQG
 Test Date:2019-11-14

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: 2019-11-14

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: