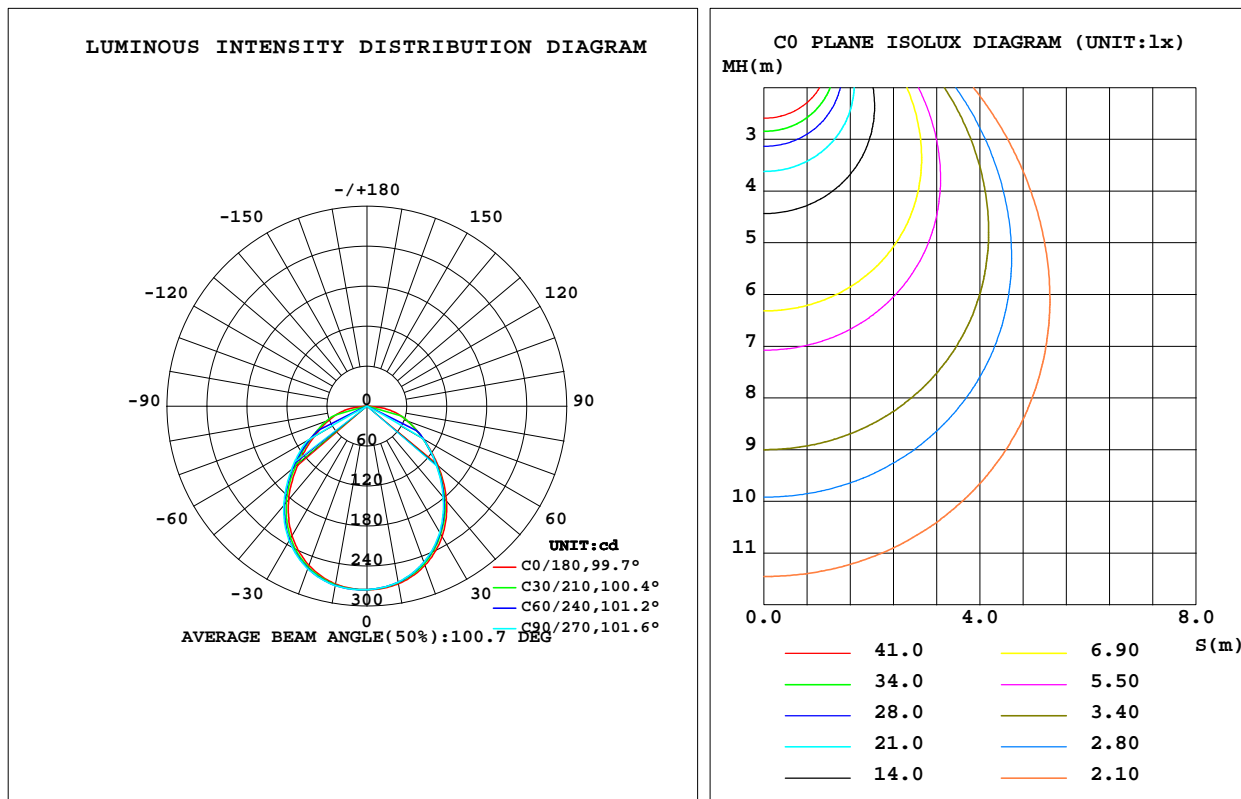


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 48.88 lm/W			
MODEL		I _{max} (cd)	275.6	S/MH(C0/180)	1.22
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	645.07	h UP,DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	645.073	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,51.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	219.0	h down(%)	100.0	CIBSE SHR MAX	1.25



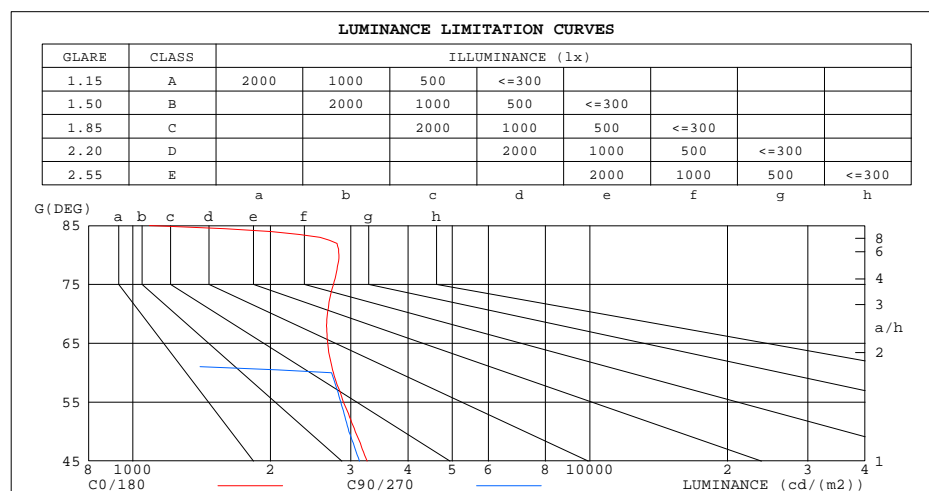
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-12

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	274.3	273.3	273.1	273.5	274.6	275.3	275.4	274.9	0- 5	6.570	6.570	1.02,1.02
10	270.7	268.6	268.4	268.9	271.0	272.7	273.5	272.0	5- 10	19.49	26.06	4.04,4.04
15	263.9	261.2	260.1	261.4	264.3	267.1	268.0	266.5	10- 15	31.72	57.78	8.96,8.96
20	254.3	250.3	249.5	250.8	254.5	258.3	260.0	257.6	15- 20	42.71	100.5	15.6,15.6
25	241.4	236.8	235.3	236.7	241.5	246.1	248.0	245.5	20- 25	51.99	152.5	23.6,23.6
30	225.8	220.2	218.8	220.0	224.9	230.9	233.6	230.2	25- 30	59.08	211.6	32.8,32.8
35	207.0	201.6	199.1	200.3	205.0	212.3	215.2	211.8	30- 35	63.61	275.2	42.7,42.7
40	185.8	181.0	178.0	178.2	182.7	190.3	194.6	191.3	35- 40	65.32	340.5	52.8,52.8
45	162.9	158.3	156.5	155.9	158.7	167.6	171.2	168.0	40- 45	64.28	404.8	62.7,62.7
50	139.5	136.3	135.0	133.1	134.5	143.7	147.8	145.0	45- 50	60.87	465.6	72.2,72.2
55	117.2	115.6	115.6	112.4	112.0	120.5	125.9	122.7	50- 55	55.76	521.4	80.8,80.8
60	97.13	96.70	96.24	93.62	91.89	99.37	104.1	102.6	55- 60	49.65	571.0	88.5,88.5
65	79.73	80.83	0	78.00	75.29	80.46	0	85.90	60- 65	34.80	605.8	93.9,93.9
70	64.41	0	0	0	60.37	0	0	0	65- 70	19.68	625.5	97,97
75	50.28	0	0	0	46.35	0	0	0	70- 75	11.47	637.0	98.7,98.7
80	34.68	0	0	0	31.83	0	0	0	75- 80	5.891	642.9	99.7,99.7
85	6.705	0	0	0	6.630	0	0	0	80- 85	2.058	644.9	100,100
90	0.5538	0	0	0	0.4150	0	0	0	85- 90	0.1251	645.1	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	1088	0
80	2826	0
75	2749	0
70	2664	0
65	2669	0
60	2748	2723
55	2890	2852
50	3070	2972
45	3258	3131

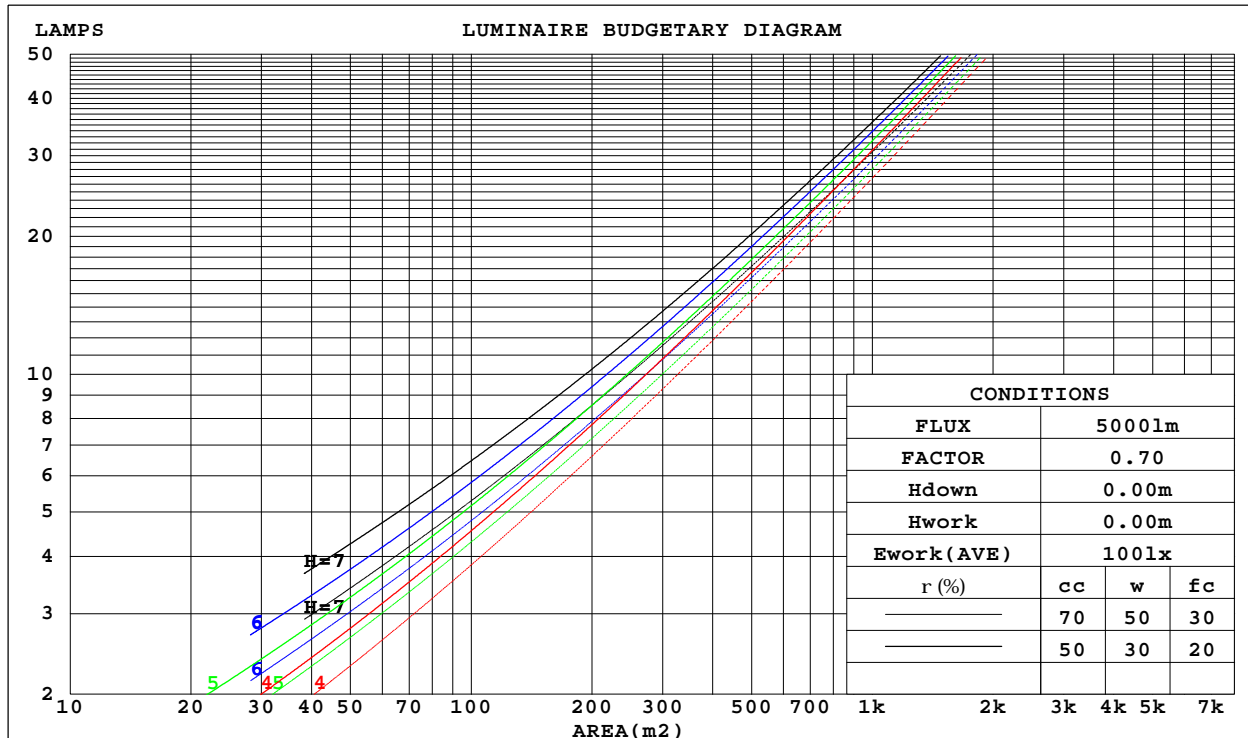
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-12

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: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	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	1.06	1.03	.00	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.94	.88	.83	.93	.87	.82	.89	.84	.80	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.82	.76	.70	.79	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.62	.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	.38
8.0	.51	.43	.37	.50	.42	.37	.49	.42	.37	.48	.41	.37	.46	.41	.36	.35
9.0	.47	.39	.34	.46	.39	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.30	.43	.35	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-12

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: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	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	.145	.046	.240	.138	.044	.228	.132	.042	.217	.126	.041	
2.0	.254	.139	.043	.248	.137	.042	.237	.132	.041	.226	.127	.040	.216	.122	.039	
3.0	.241	.128	.038	.236	.126	.038	.226	.122	.037	.216	.119	.036	.208	.115	.036	
4.0	.226	.118	.035	.222	.116	.034	.213	.113	.034	.205	.110	.033	.197	.107	.033	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.100	.030	
6.0	.199	.100	.029	.195	.099	.028	.188	.097	.028	.182	.095	.028	.176	.093	.027	
7.0	.187	.092	.026	.184	.092	.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	.023	
9.0	.166	.080	.022	.163	.079	.022	.158	.078	.022	.153	.077	.022	.149	.076	.022	
10.0	.157	.075	.021	.154	.074	.021	.150	.073	.021	.145	.072	.021	.141	.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	.078	.136	.098	.068	.094	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.061	.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	.041	.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:2019-11-12

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: PP020068-DT					TYPE:LED			WEIGHT:1.617(Kg)			
DIM.: D300*30					SPEC.:			SERIAL No.:			
MFR.:					SUR.:f300			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	2H	16.6	18.0	16.9	18.2	18.4	15.8	17.2	16.1	17.4	17.6
	3H	18.2	19.5	18.5	19.7	19.9	15.6	16.9	15.9	17.1	17.4
	4H	18.9	20.2	19.2	20.4	20.6	15.5	16.7	15.8	17.0	17.2
	6H	19.6	20.7	19.9	21.0	21.3	15.4	16.6	15.7	16.8	17.1
	8H	19.8	20.9	20.2	21.2	21.5	15.4	16.5	15.7	16.7	17.0
	12H	19.9	21.0	20.2	21.2	21.5	15.3	16.4	15.7	16.7	16.9
4H	2H	17.1	18.3	17.4	18.6	18.8	16.4	17.6	16.7	17.9	18.1
	3H	18.9	19.9	19.2	20.2	20.5	16.2	17.2	16.5	17.5	17.8
	4H	19.8	20.7	20.1	21.0	21.4	16.1	17.0	16.5	17.4	17.7
	6H	20.5	21.4	20.9	21.7	22.1	16.0	16.8	16.4	17.2	17.5
	8H	20.8	21.6	21.2	22.0	22.3	15.9	16.7	16.4	17.1	17.5
	12H	20.9	21.6	21.4	22.0	22.4	15.9	16.6	16.3	17.0	17.4
8H	4H	19.6	20.4	20.0	20.8	21.1	16.2	16.9	16.6	17.3	17.7
	6H	20.4	21.0	20.8	21.4	21.9	16.1	16.7	16.5	17.1	17.5
	8H	20.7	21.3	21.1	21.7	22.1	16.0	16.6	16.5	17.0	17.5
	12H	20.8	21.3	21.3	21.7	22.2	16.0	16.5	16.5	16.9	17.4
12H	4H	19.6	20.3	20.0	20.7	21.1	16.1	16.8	16.6	17.2	17.6
	6H	20.4	20.9	20.8	21.3	21.8	16.1	16.6	16.5	17.0	17.5
	8H	20.7	21.1	21.1	21.6	22.1	16.0	16.5	16.5	16.9	17.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5					
1.5H	+ 0.4 / - 0.2					+ 1.1 / - 1.6					
2.0H	+ 0.4 / - 1.2					+ 0.8 / - 1.3					

CIE Pub.117 Corrected 645.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.5)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-12

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: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	PROTECTION ANGLE:

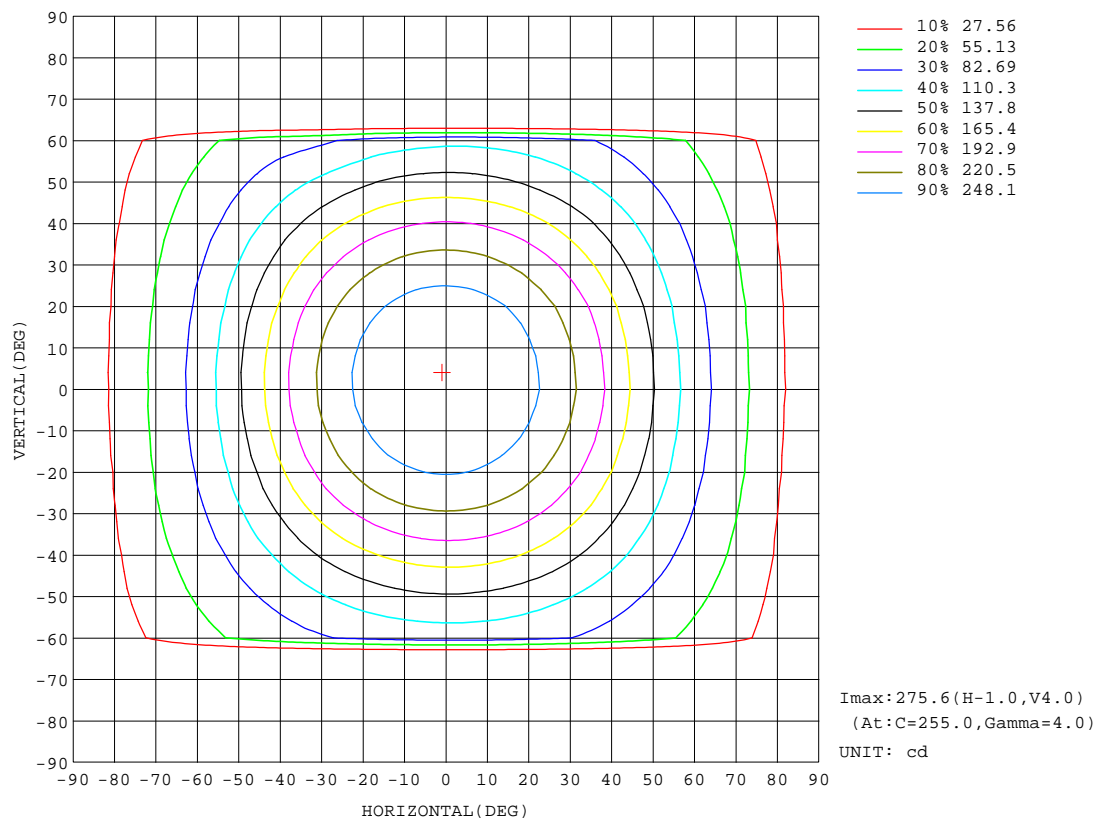
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	51	44	61	51	44	60	50	44	38
0.80	72	61	55	71	61	55	69	60	54	48
1.00	81	71	64	80	70	64	78	71	64	57
1.25	88	79	72	86	78	72	84	77	71	65
1.50	93	84	78	91	83	77	88	81	76	70
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	96	90	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	109	104	100	106	102	98	102	99	96	87
5.00	111	106	103	108	105	101	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:2019-11-12

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: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	PROTECTION ANGLE:

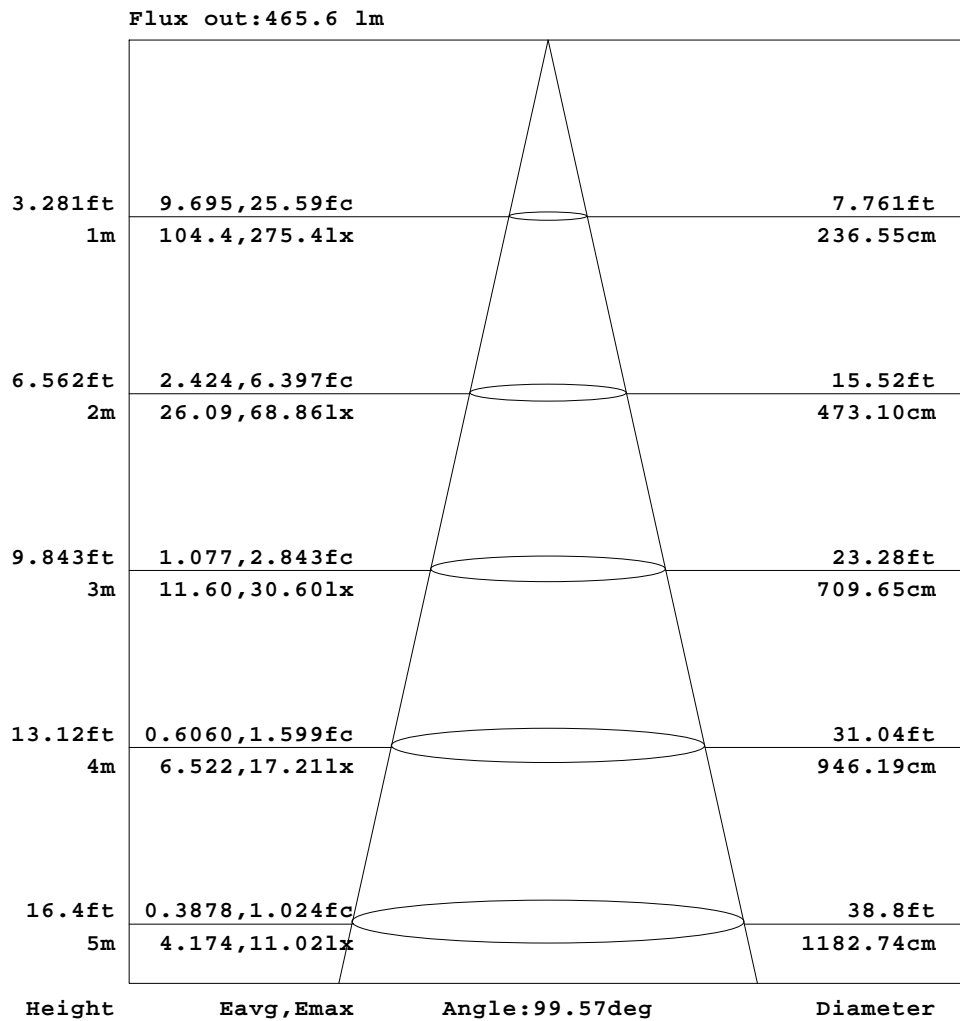


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZENGQG
Test Date: 2019-11-12

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: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	PROTECTION ANGLE:



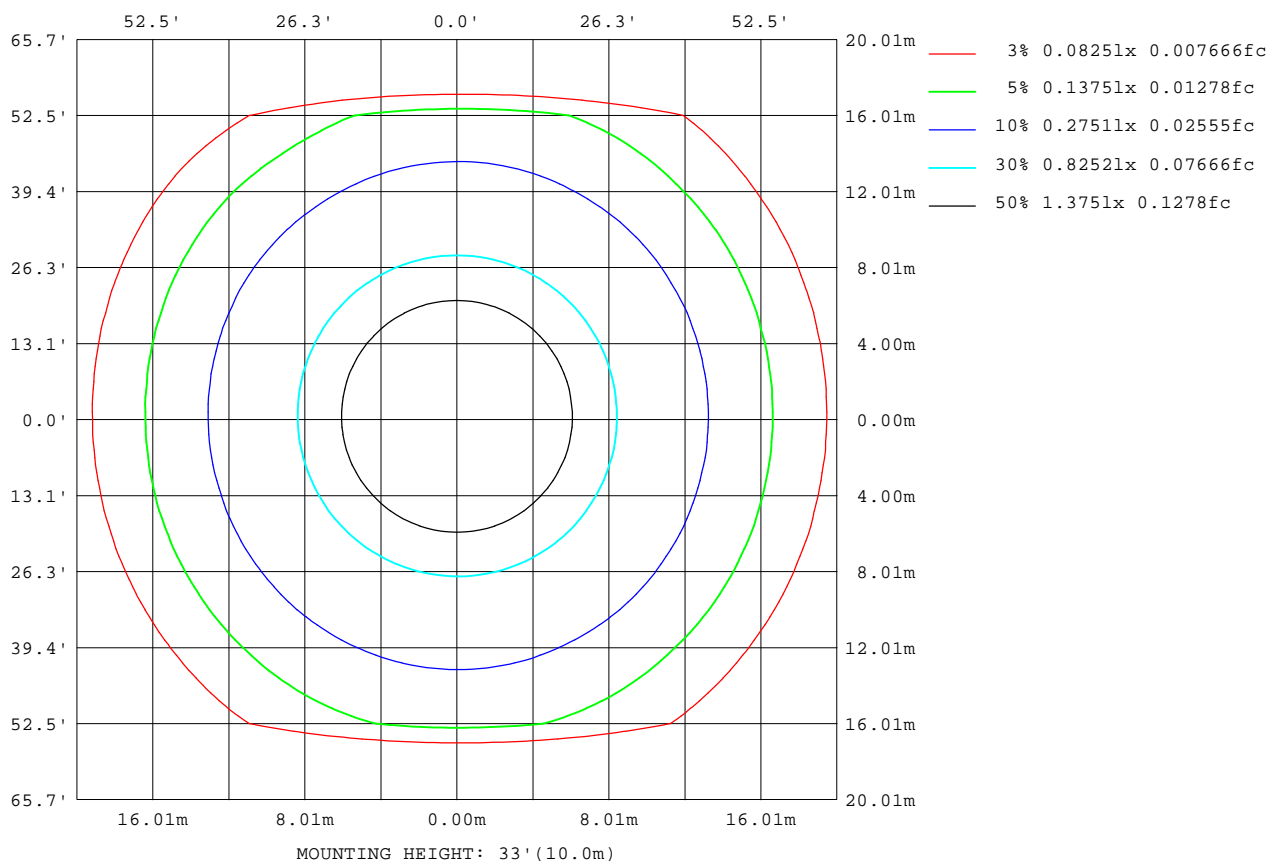
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-12

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

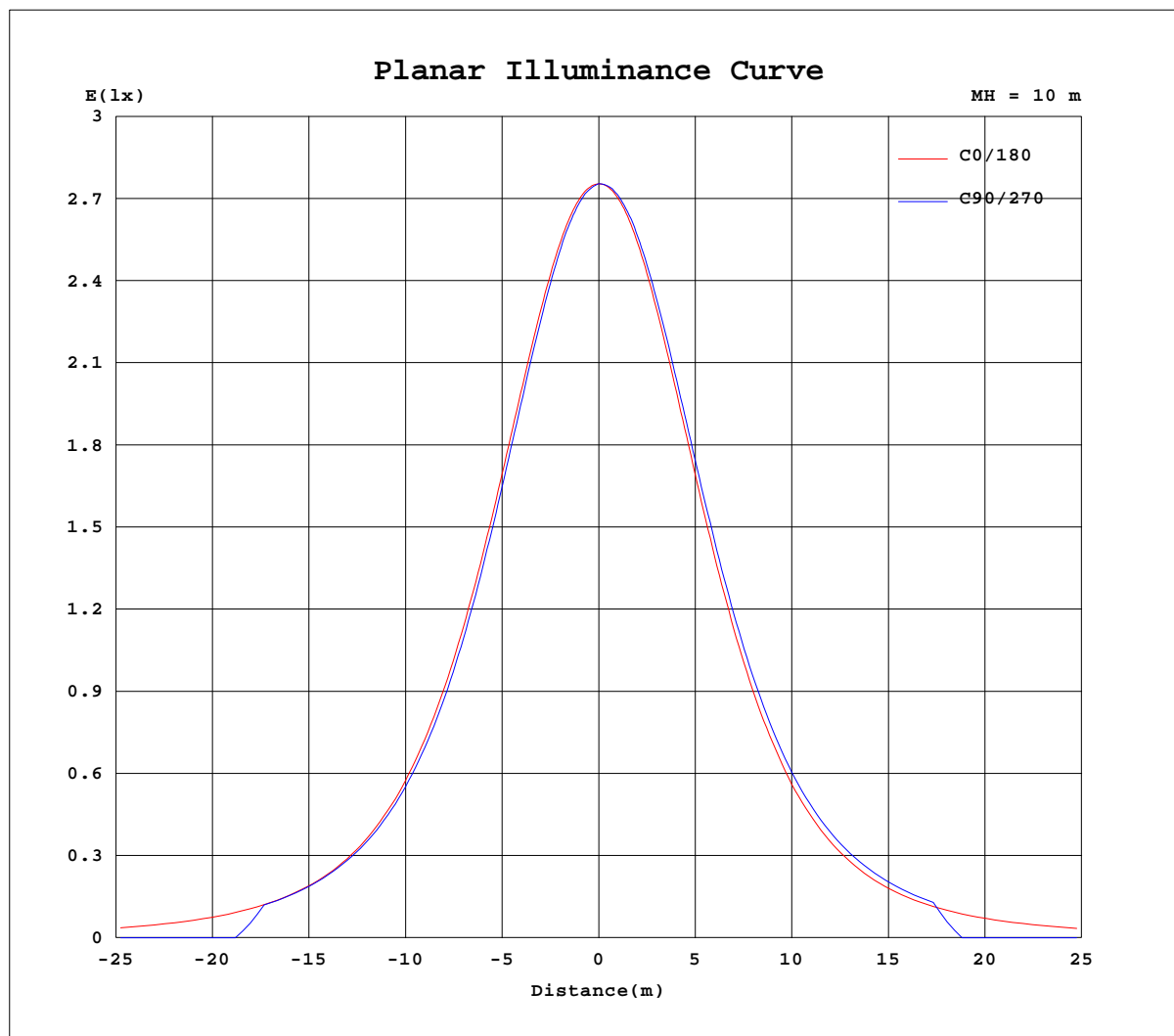
NAME: PP020068-DT	TYPE:LED	WEIGHT:1.617(Kg)
DIM.: D300*30	SPEC.:	SERIAL No.:
MFR.:	SUR.:f300	PROTECTION ANGLE:



C Range: 0 - 360DEG
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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: 2019-11-12

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: