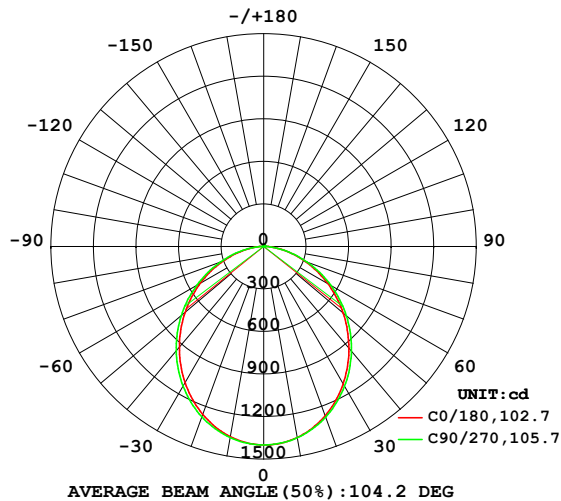


LUMINAIRE PHOTOMETRIC TEST REPORT

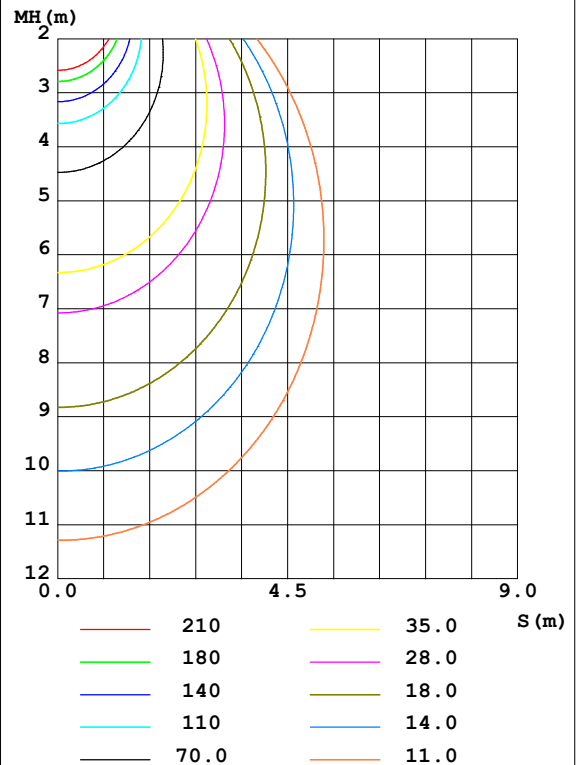
Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 100.22 lm/W			
MODEL	DB66C-1200-36W-3000K	I _{max} (cd)	1400	S/MH(C0/180)	1.19
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3684.3	η UP,DN(C0-180)	0.5,49.8
NOMINAL FLUX(lm)	3684.34	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,49.4
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	99.1	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

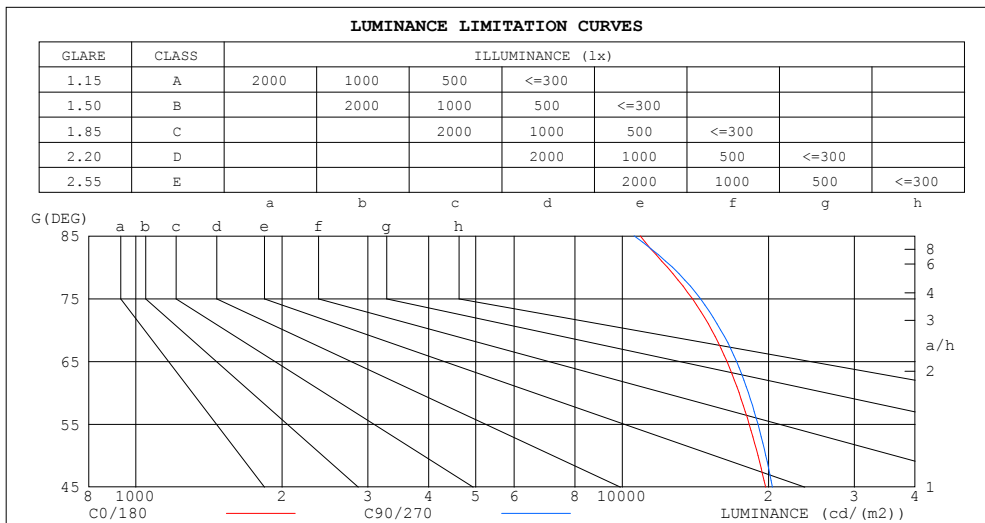
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1368	1370	1361	1368					0- 10	132.1	132.1	3.58,3.58
20	1270	1280	1260	1278					10- 20	373.9	506.0	13.7,13.7
30	1120	1140	1110	1138					20- 30	554.8	1061	28.8,28.8
40	935.9	963.1	926.4	960.7					30- 40	650.4	1711	46.4,46.4
50	732.7	761.9	724.3	759.5					40- 50	653.6	2365	64.2,64.2
60	521.2	545.7	514.0	543.9					50- 60	570.8	2936	79.7,79.7
70	313.1	327.6	305.7	326.6					60- 70	419.5	3355	91.1,91.1
80	128.9	132.4	122.5	132.0					70- 80	232.4	3587	97.4,97.4
90	10.50	2.813	9.299	3.070					80- 90	64.16	3652	99.1,99.1
100	2.213	2.551	2.184	2.282					90-100	3.006	3655	99.2,99.2
110	3.235	3.851	3.019	3.462					100-110	2.980	3658	99.3,99.3
120	4.448	5.203	4.216	4.773					110-120	3.978	3662	99.4,99.4
130	5.744	6.566	5.535	6.119					120-130	4.767	3666	99.5,99.5
140	7.041	7.806	6.872	7.406					130-140	5.132	3671	99.7,99.7
150	8.249	8.849	8.132	8.491					140-150	4.928	3676	99.8,99.8
160	9.374	9.697	9.311	9.411					150-160	4.130	3681	99.9,99.9
170	10.40	10.36	10.34	10.13					160-170	2.793	3683	100,100
180	10.75	10.54	10.76	10.48					170-180	0.9997	3684	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10901	10590
80	12388	12698
75	13951	14481
70	15274	15946
65	16419	17177
60	17391	18170
55	18241	19016
50	19018	19735
45	19718	20368

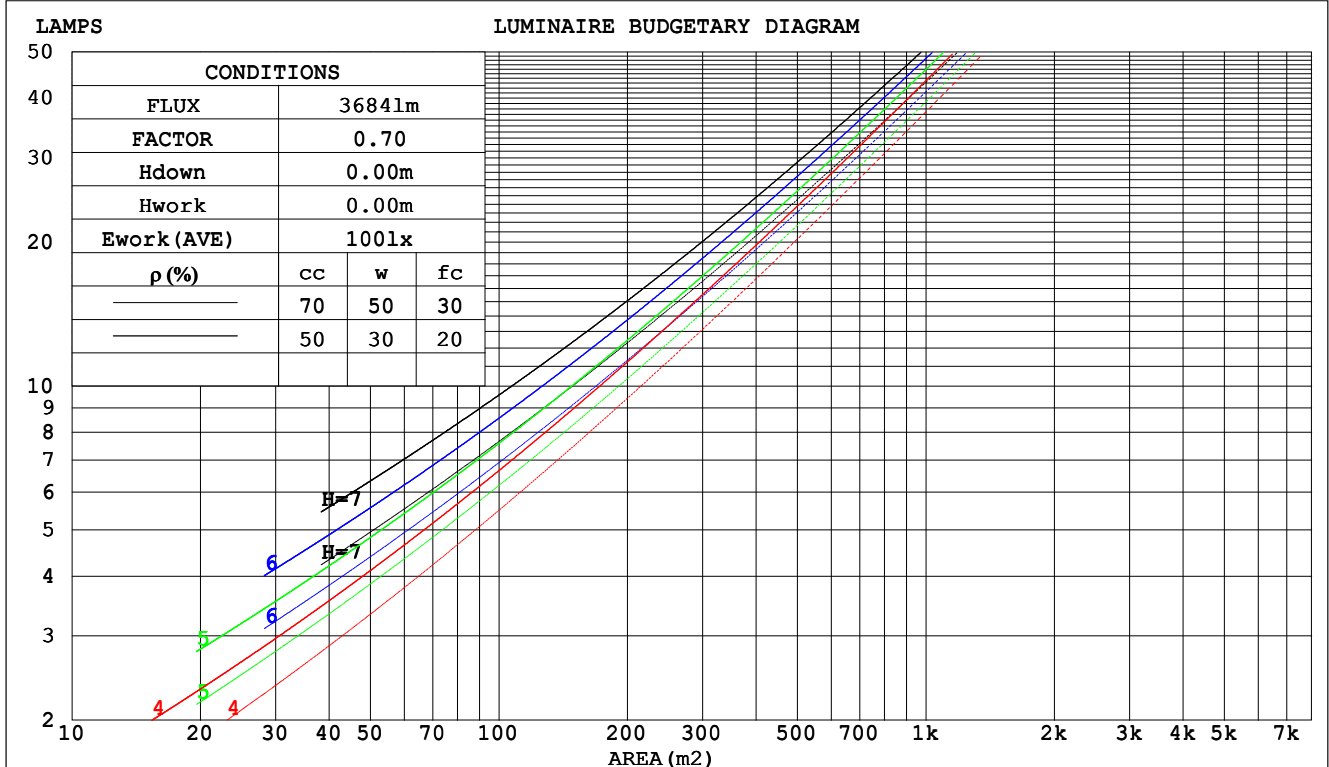
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.01	1.01	1.01	.99
1.0	1.04	.00	.96	1.02	.98	.95	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.66	.79	.71	.65	.75	.69	.64	.73	.67	.63	.70	.65	.61	.59
4.0	.71	.63	.56	.70	.62	.55	.67	.60	.55	.65	.59	.54	.62	.57	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.44	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.301	.171	.054	.294	.168	.053	.280	.161	.051	.267	.154	.050	.256	.148	.048		
2.0	.284	.156	.048	.278	.153	.047	.266	.148	.046	.254	.143	.045	.244	.138	.044		
3.0	.264	.140	.042	.258	.138	.042	.247	.134	.041	.237	.130	.040	.228	.126	.039		
4.0	.244	.127	.037	.239	.125	.037	.229	.122	.036	.220	.118	.036	.212	.115	.035		
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032		
6.0	.210	.105	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.185	.097	.029		
7.0	.195	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026		
8.0	.183	.089	.025	.180	.088	.025	.174	.087	.025	.168	.085	.025	.163	.083	.024		
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022		
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.163	.142	.160	.140	.122	.109	.096	.084	.063	.056	.049	.020	.018	.016	
2.0	.178	.139	.106	.153	.119	.091	.105	.083	.064	.060	.048	.037	.019	.016	.012	
3.0	.170	.121	.082	.146	.105	.071	.100	.073	.050	.058	.042	.029	.019	.014	.010	
4.0	.162	.108	.066	.139	.093	.057	.096	.065	.040	.055	.038	.024	.018	.012	.008	
5.0	.155	.097	.055	.133	.084	.048	.092	.059	.034	.053	.035	.020	.017	.011	.007	
6.0	.148	.089	.047	.127	.077	.041	.088	.054	.029	.051	.032	.017	.016	.010	.006	
7.0	.141	.082	.041	.121	.071	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
8.0	.135	.076	.036	.116	.066	.031	.080	.046	.022	.047	.027	.013	.015	.009	.004	
9.0	.129	.071	.033	.111	.062	.028	.077	.044	.020	.045	.026	.012	.015	.008	.004	
10.0	.123	.067	.030	.106	.058	.026	.074	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0%						Lamp Flux:3684.34x1 lm					
NAME: DB66C-1200-36W-3000K					TYPE: 36W			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.:			
MFR.:					SUR.: 0.06			Shielding 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	22.8	24.3	23.1	24.5	24.7	23.0	24.4	23.2	24.7	24.9	
	3H	24.2	25.5	24.5	25.8	26.1	24.4	25.7	24.7	26.0	26.2
	4H	24.7	26.0	25.0	26.3	26.6	24.9	26.2	25.2	26.5	26.8
	6H	25.1	26.3	25.4	26.6	26.9	25.3	26.5	25.6	26.8	27.1
	8H	25.2	26.4	25.6	26.7	27.0	25.4	26.6	25.8	26.9	27.2
	12H	25.3	26.4	25.6	26.7	27.0	25.5	26.6	25.8	26.9	27.2
4H	2H	23.4	24.7	23.7	25.0	25.2	23.5	24.8	23.8	25.1	25.4
	3H	24.9	26.1	25.3	26.4	26.7	25.1	26.2	25.5	26.5	26.9
	4H	25.6	26.6	26.0	27.0	27.3	25.8	26.8	26.2	27.1	27.5
	6H	26.1	27.0	26.5	27.4	27.8	26.3	27.2	26.7	27.5	27.9
	8H	26.3	27.1	26.7	27.5	27.9	26.4	27.3	26.8	27.7	28.1
	12H	26.4	27.2	26.8	27.6	28.0	26.5	27.3	27.0	27.7	28.1
8H	4H	25.8	26.7	26.3	27.1	27.5	26.0	26.8	26.4	27.2	27.6
	6H	26.5	27.2	26.9	27.6	28.1	26.6	27.3	27.1	27.8	28.2
	8H	26.7	27.4	27.2	27.8	28.3	26.9	27.5	27.3	27.9	28.4
	12H	26.9	27.5	27.4	27.9	28.4	27.0	27.6	27.5	28.0	28.5
12H	4H	25.9	26.6	26.3	27.0	27.5	26.0	26.8	26.4	27.2	27.6
	6H	26.5	27.2	27.0	27.6	28.1	26.7	27.3	27.1	27.7	28.2
	8H	26.8	27.4	27.3	27.8	28.3	26.9	27.5	27.4	28.0	28.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 3684 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.5$)
Area: 0.06 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K		TYPE: 36W		WEIGHT:	
SPEC.: 3000K		DIM.:		SERIAL No.:	
MFR.:		SUR.: 0.06		Shielding Angle:	

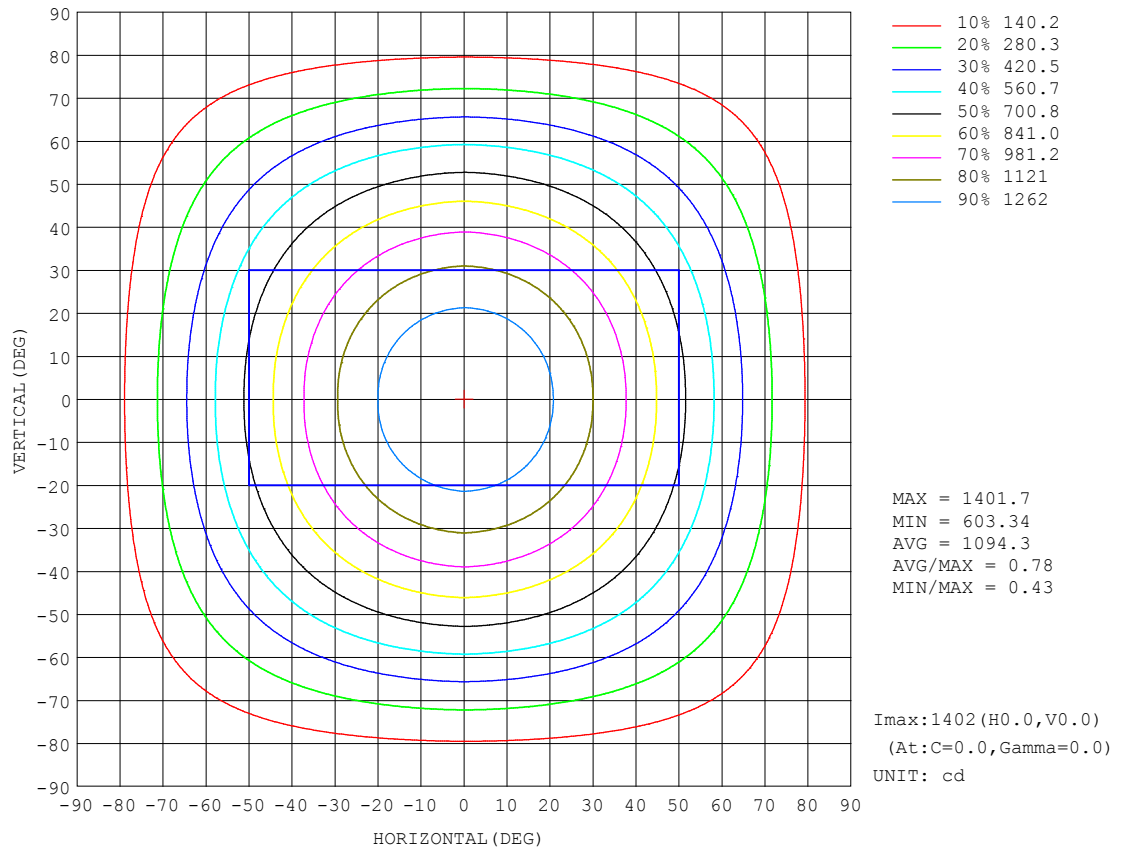
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	67	57	50	66	56	49	43
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	82	73	66	80	71	65	58
1.50	89	79	72	87	78	72	84	76	71	63
2.00	95	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	93	87	83	74
3.00	103	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	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: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.692m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

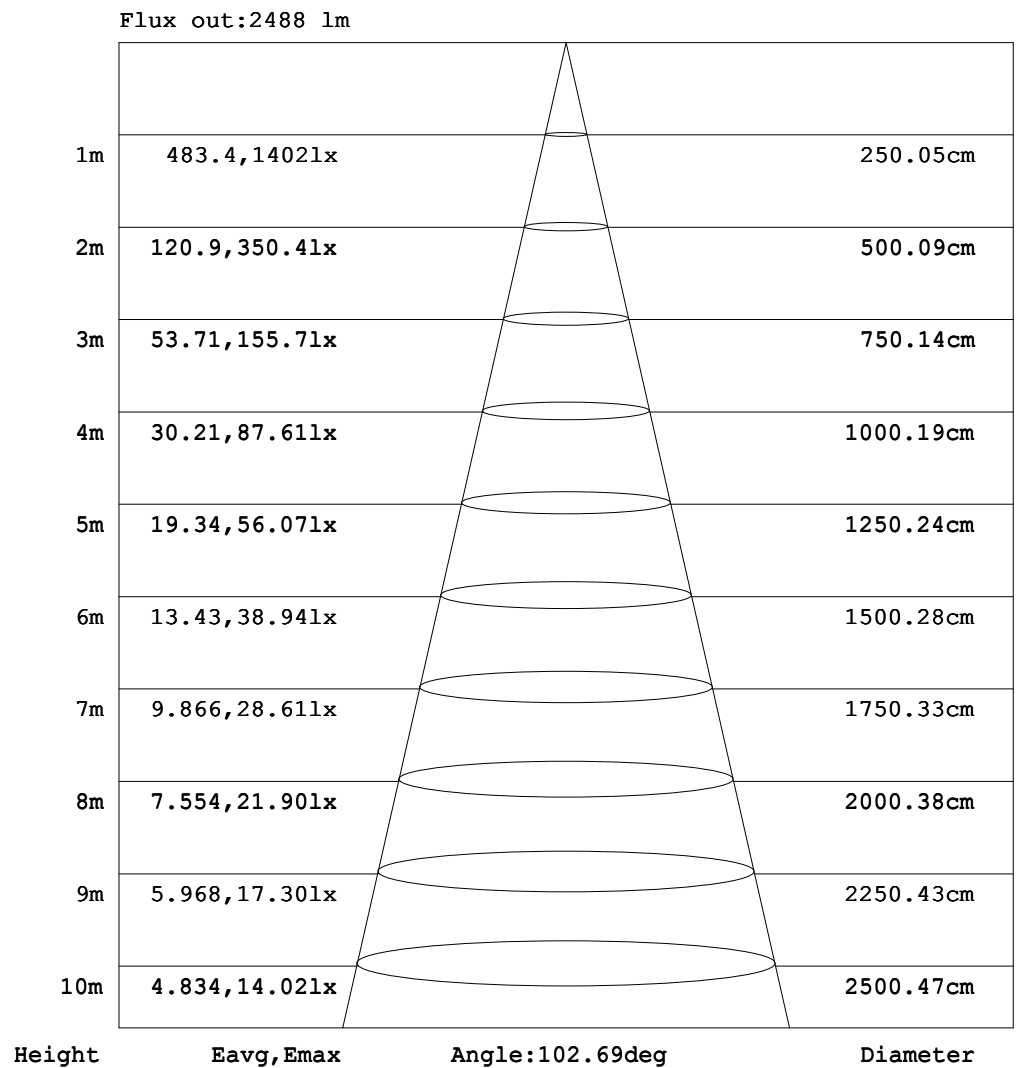


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:



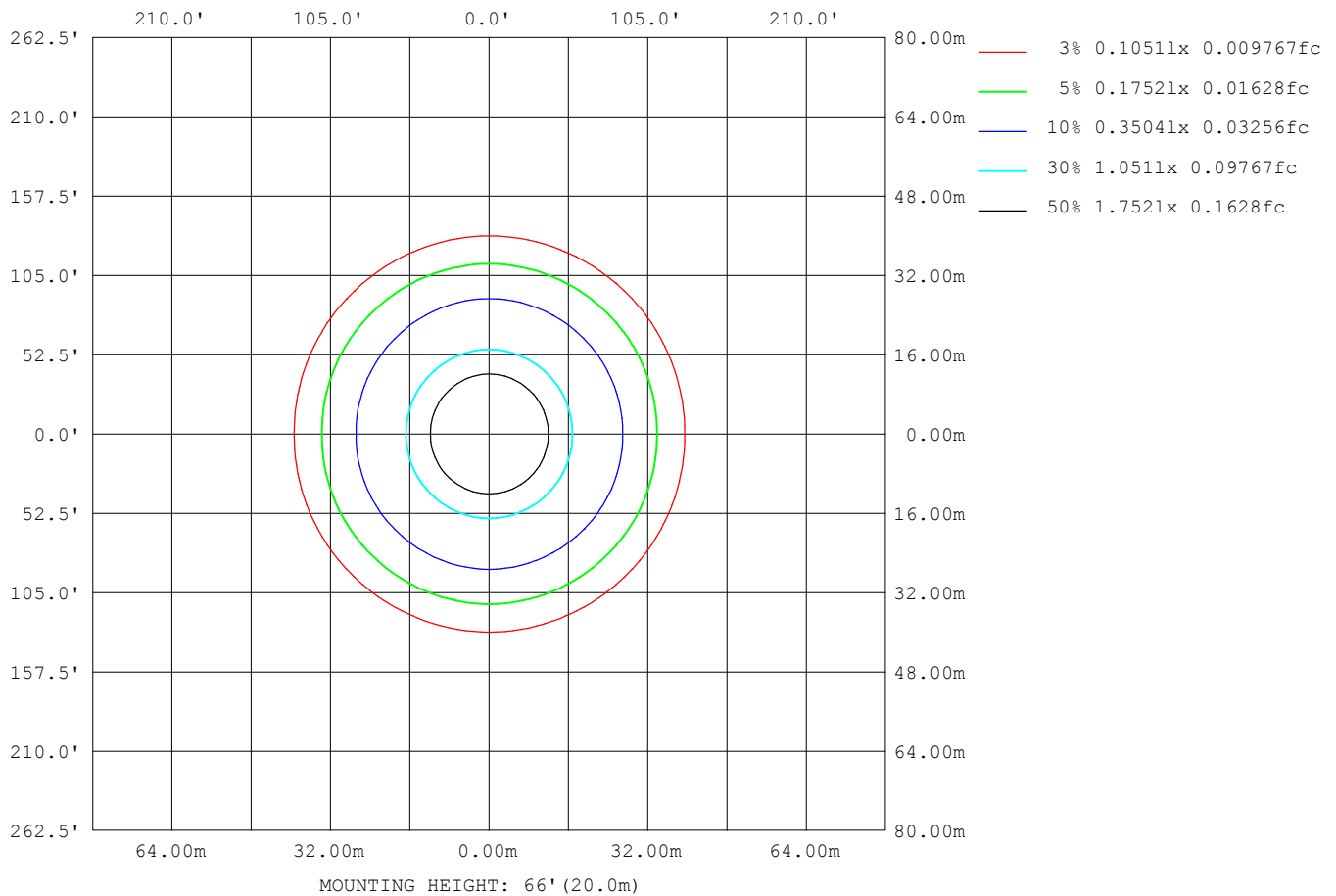
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

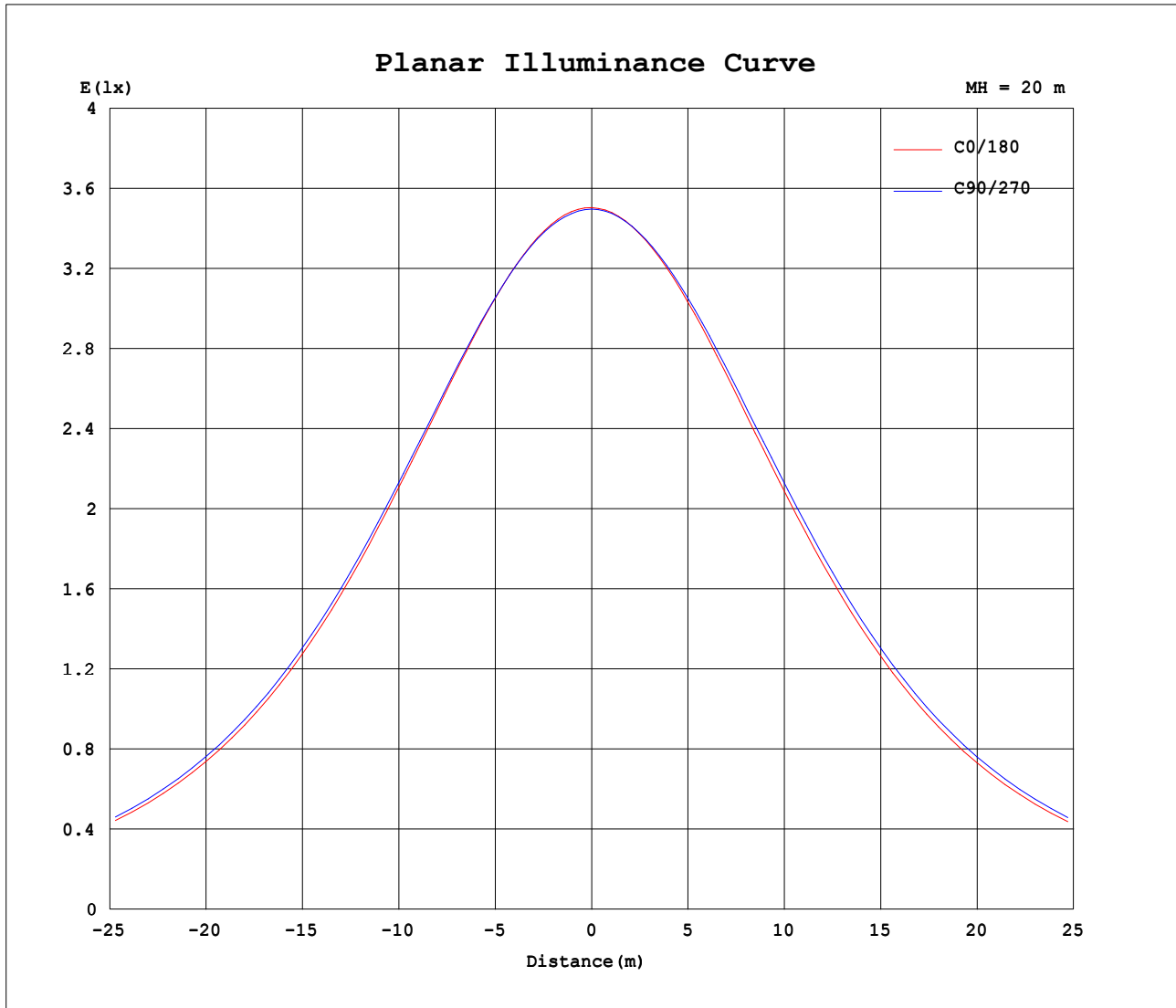
AvgL	cd/m2
L_0~180 (65) av	16266
L_0~180 (75) av	13702
L_0~180 (85) av	10439
L_90~270 (65) av	17159
L_90~270 (75) av	14476
L_90~270 (85) av	10534
L_45 (65) av	16815
L_45 (75) av	14171
L_45 (85) av	10470

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.692m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.26V I:0.1693A P:36.761W PF:0.9431 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3684.34x1 lm		
NAME: DB66C-1200-36W-3000K	TYPE: 36W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1400	1400	1400	1400															
5	1393	1392	1390	1392															
10	1368	1370	1361	1368															
15	1326	1332	1318	1330															
20	1270	1280	1260	1278															
25	1201	1216	1190	1214															
30	1120	1140	1110	1138															
35	1031	1055	1021	1053															
40	936	963	926	961															
45	836	865	827	862															
50	733	762	724	759															
55	627	655	620	653															
60	521	546	514	544															
65	416	436	409	434															
70	313	328	306	327															
75	216	225	209	224															
80	129	132	123	132															
85	56.9	55.4	52.2	54.7															
90	10.5	2.81	9.30	3.07															
95	2.43	2.09	2.59	1.97															
100	2.21	2.55	2.18	2.28															
105	2.70	3.19	2.52	2.83															
110	3.24	3.85	3.02	3.46															
115	3.82	4.53	3.59	4.11															
120	4.45	5.20	4.22	4.77															
125	5.09	5.90	4.87	5.45															
130	5.74	6.57	5.53	6.12															
135	6.40	7.21	6.21	6.78															
140	7.04	7.81	6.87	7.41															
145	7.66	8.33	7.52	7.96															
150	8.25	8.85	8.13	8.49															
155	8.83	9.30	8.74	8.98															
160	9.37	9.70	9.31	9.41															
165	9.92	10.1	9.86	9.80															
170	10.4	10.4	10.3	10.1															
175	10.7	10.5	10.6	10.3															
180	10.7	10.5	10.8	10.5															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.692m [K=1.0000]
Remarks: