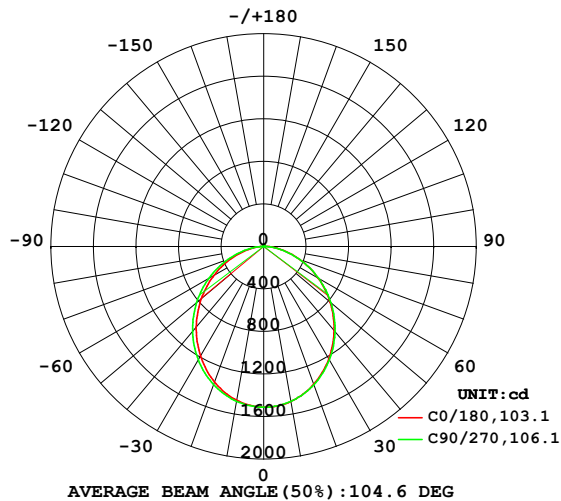


LUMINAIRE PHOTOMETRIC TEST REPORT

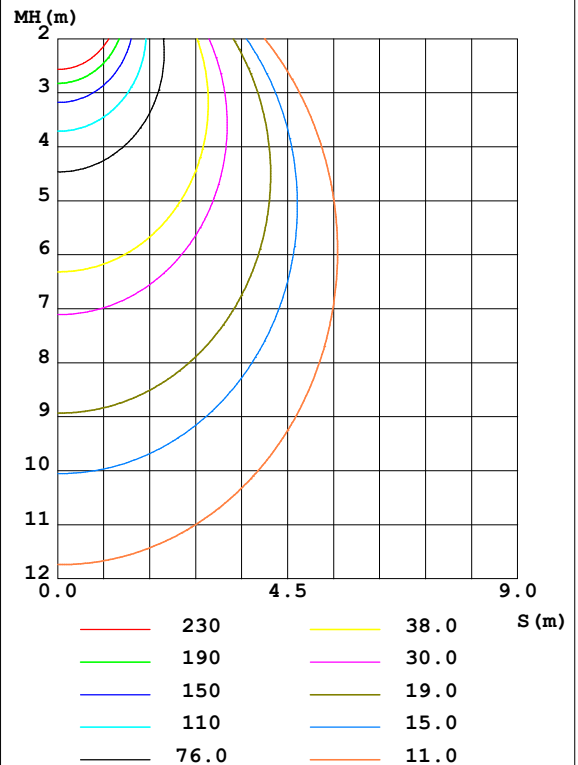
Test:U:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.85 lm/W			
MODEL	DB66C-1200-36W-5700K	Imax(cd)	1513	S/MH(C0/180)	1.18
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4001.3	η UP,DN(C0-180)	0.5,50.4
NOMINAL FLUX(lm)	4001.27	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,48.7
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:

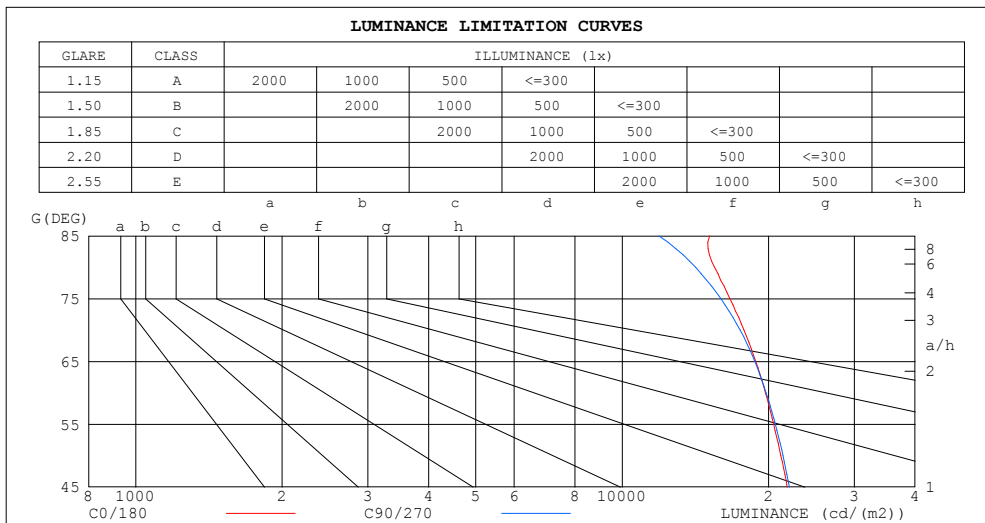
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1481	1479	1469	1479					0- 10	142.7	142.7	3.57,3.57
20	1379	1384	1356	1382					10- 20	404.1	546.8	13.7,13.7
30	1224	1234	1190	1232					20- 30	600.1	1147	28.7,28.7
40	1031	1044	987.3	1041					30- 40	704.4	1851	46.3,46.3
50	815.7	827.2	766.7	824.6					40- 50	709.0	2560	64,64
60	590.0	594.3	537.8	591.7					50- 60	620.6	3181	79.5,79.5
70	364.4	359.5	313.2	357.1					60- 70	457.9	3639	90.9,90.9
80	161.0	147.8	117.0	146.1					70- 80	255.5	3894	97.3,97.3
90	19.89	2.637	4.795	2.073					80- 90	71.69	3966	99.1,99.1
100	2.312	2.797	2.288	2.480					90-100	3.299	3969	99.2,99.2
110	3.327	4.104	3.412	3.816					100-110	3.208	3972	99.3,99.3
120	4.640	5.547	4.730	5.229					110-120	4.300	3977	99.4,99.4
130	6.064	7.000	6.144	6.696					120-130	5.149	3982	99.5,99.5
140	7.483	8.307	7.574	8.026					130-140	5.540	3987	99.7,99.7
150	8.795	9.447	8.904	9.212					140-150	5.310	3993	99.8,99.8
160	10.01	10.37	10.16	10.19					150-160	4.450	3997	99.9,99.9
170	11.15	11.11	11.22	10.96					160-170	3.010	4000	100,100
180	11.59	11.36	11.58	11.27					170-180	1.077	4001	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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15140	11901
80	15487	14161
75	16662	15953
70	17797	17483
65	18818	18737
60	19709	19769
55	20492	20655
50	21194	21402
45	21852	22070

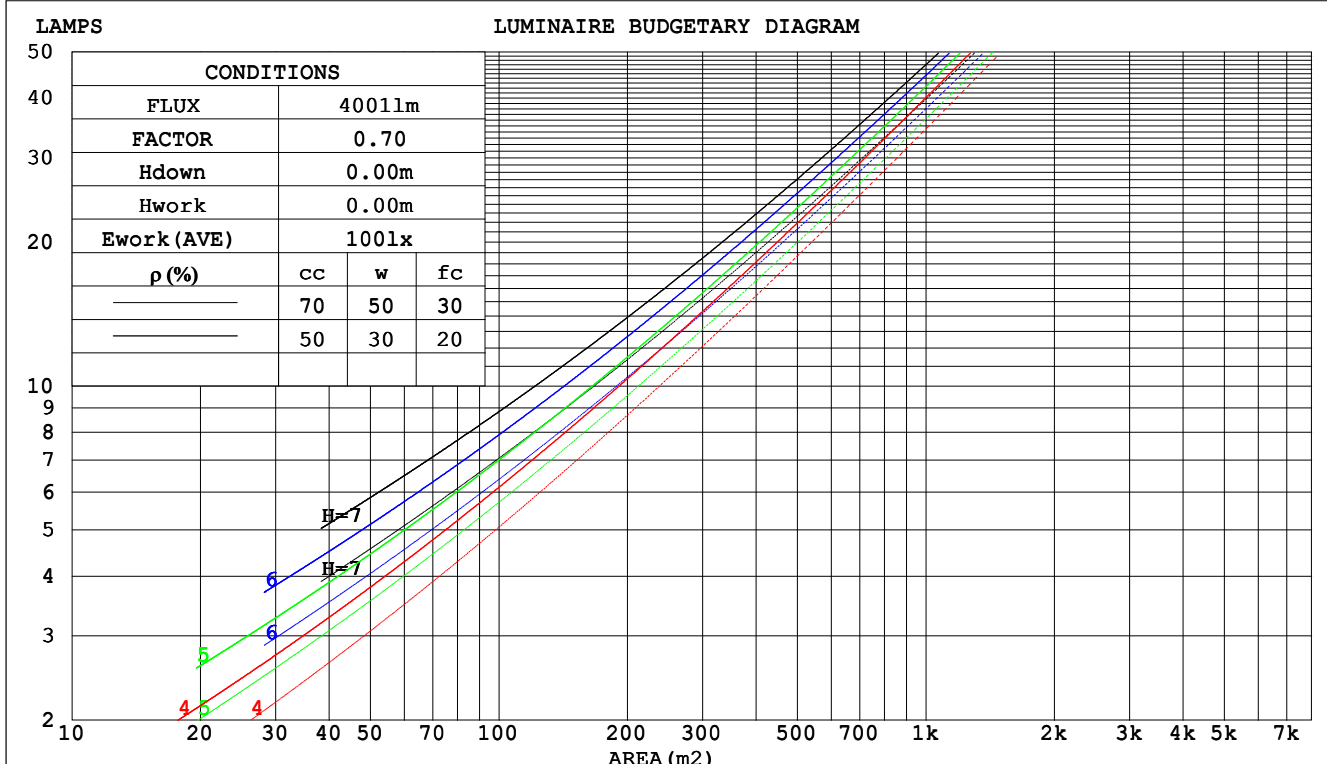
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K		TYPE: 36W		WEIGHT:	
SPEC.: 5700K		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	.94	.97	.94	.91	.93	.91	.88	.90	.87	.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	.78	.71	.65	.75	.69	.64	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.56	.70	.62	.55	.67	.60	.54	.65	.59	.54	.62	.57	.53	.51
5.0	.64	.55	.48	.62	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.45	.38	.33	.44	.38	.33	.43	.37	.32	.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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	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	.302	.172	.054	.295	.168	.053	.281	.161	.052	.269	.155	.050	.257	.149	.048		
2.0	.285	.156	.048	.278	.153	.047	.266	.148	.046	.255	.143	.045	.245	.139	.044		
3.0	.264	.141	.042	.258	.138	.042	.248	.134	.041	.238	.130	.040	.229	.127	.039		
4.0	.244	.127	.037	.239	.125	.037	.230	.122	.036	.221	.119	.036	.213	.116	.035		
5.0	.226	.115	.033	.222	.114	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032		
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.191	.099	.029	.185	.097	.029		
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026		
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.023		
10.0	.162	.077	.022	.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	.104	.071	.100	.073	.050	.058	.042	.029	.019	.014	.010	
4.0	.163	.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	.032	.111	.062	.028	.077	.043	.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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0%						Lamp Flux:4001.27x1 lm				
NAME: DB66C-1200-36W-5700K						TYPE: 36W		WEIGHT:		
SPEC.: 5700K						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				
x = 2H y = 2H						23.3	24.8	23.6	25.0	25.2
3H						24.7	26.1	25.0	26.3	26.6
4H						25.3	26.6	25.6	26.8	27.1
6H						25.7	26.9	26.0	27.2	27.5
8H						25.8	27.0	26.1	27.3	27.6
12H						25.9	27.0	26.2	27.3	27.6
4H 2H						23.9	25.2	24.2	25.4	25.7
3H						25.5	26.6	25.9	26.9	27.3
4H						26.2	27.3	26.6	27.5	27.9
6H						26.7	27.6	27.1	28.0	28.4
8H						26.9	27.7	27.3	28.1	28.5
12H						27.0	27.8	27.4	28.2	28.6
8H 4H						26.4	27.3	26.8	27.7	28.1
6H						27.1	27.8	27.5	28.2	28.7
8H						27.3	28.0	27.8	28.4	28.9
12H						27.5	28.1	28.0	28.5	29.0
12H 4H						26.4	27.2	26.9	27.6	28.0
6H						27.1	27.8	27.6	28.2	28.7
8H						27.4	28.0	27.9	28.5	28.9
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 / - 0.2					+ 0.2 / - 0.2			

CIE Pub.117, 4001 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.8$)
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
 γ 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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K		TYPE: 36W		WEIGHT:	
SPEC.: 5700K		DIM.:		SERIAL No.:	
MFR.:		SUR.: 0.06		Shielding Angle:	

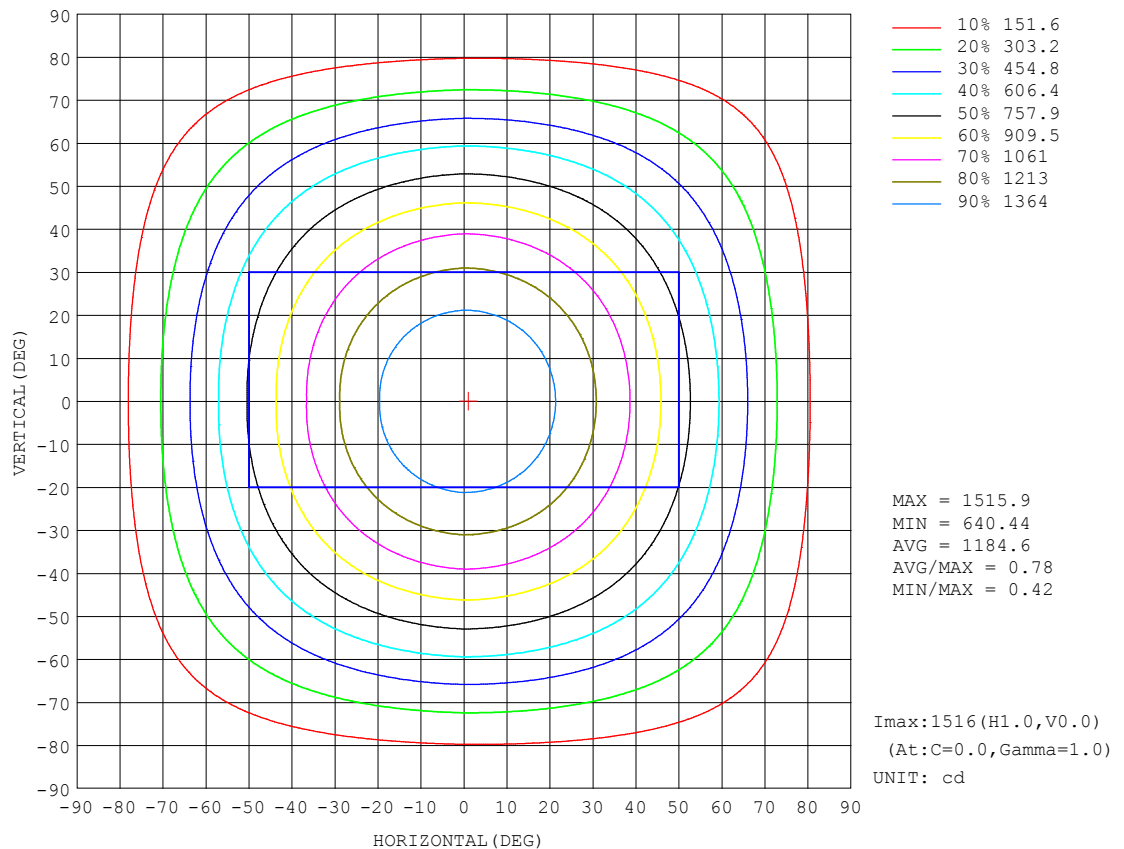
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	56	46	40	34
0.80	68	57	50	67	57	50	66	56	49	42
1.00	77	66	59	76	65	58	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	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	95	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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

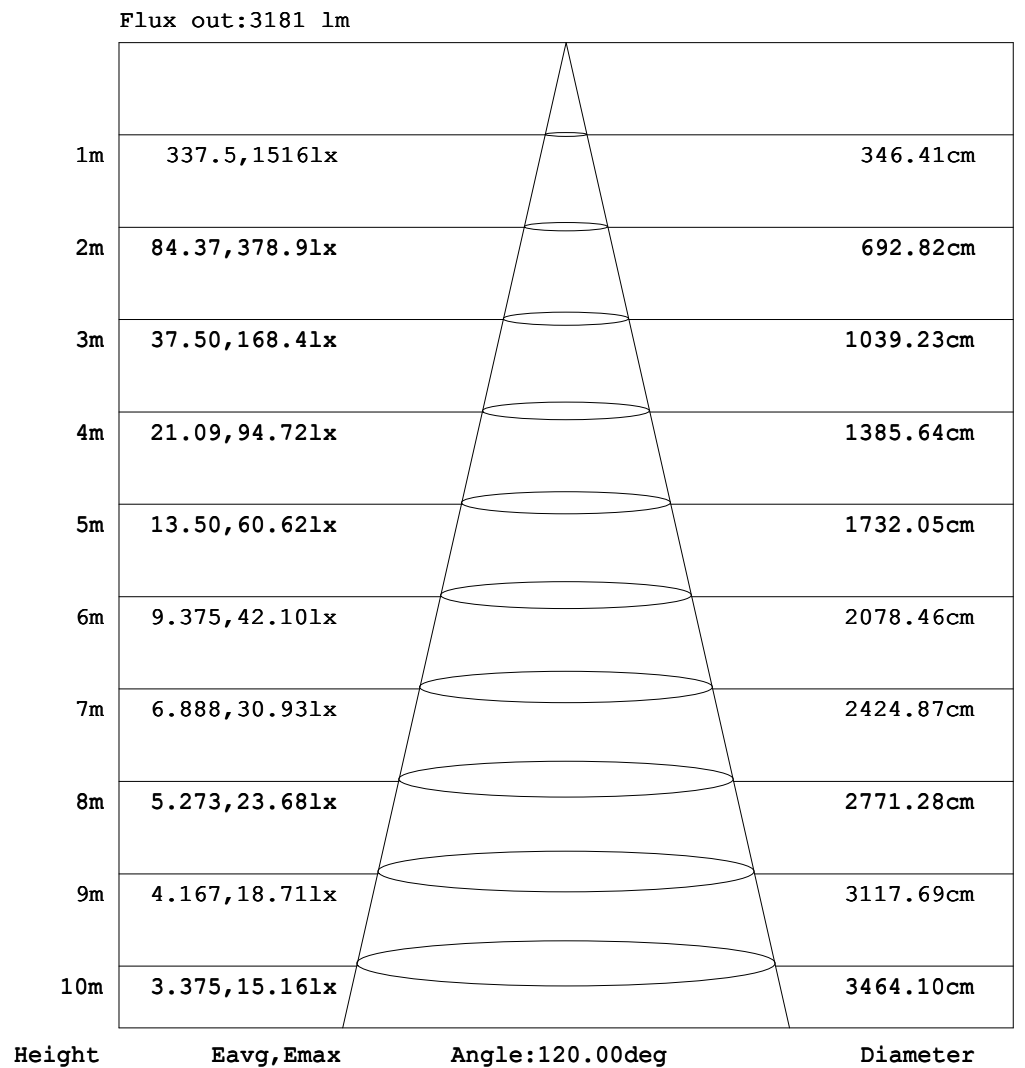


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:



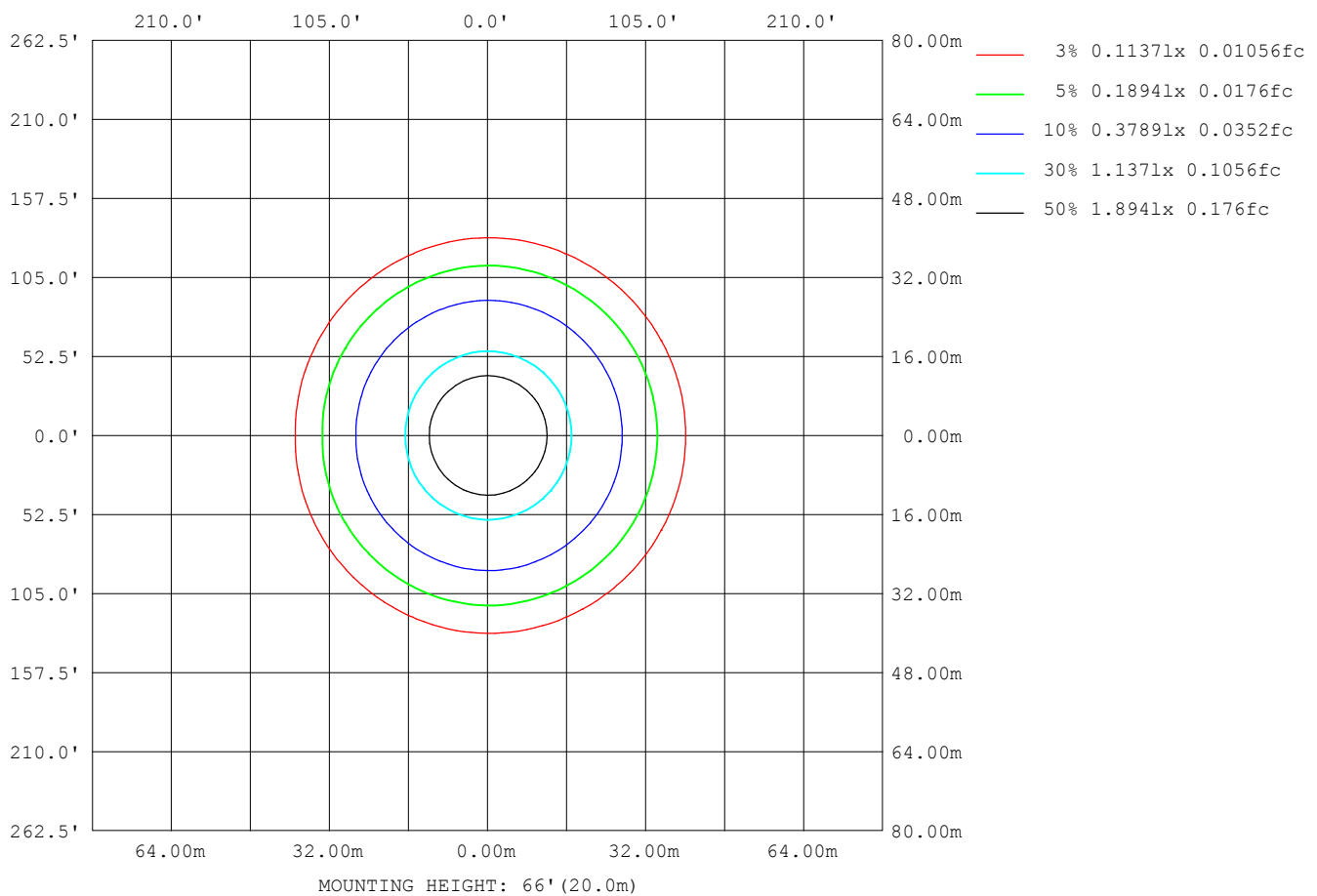
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

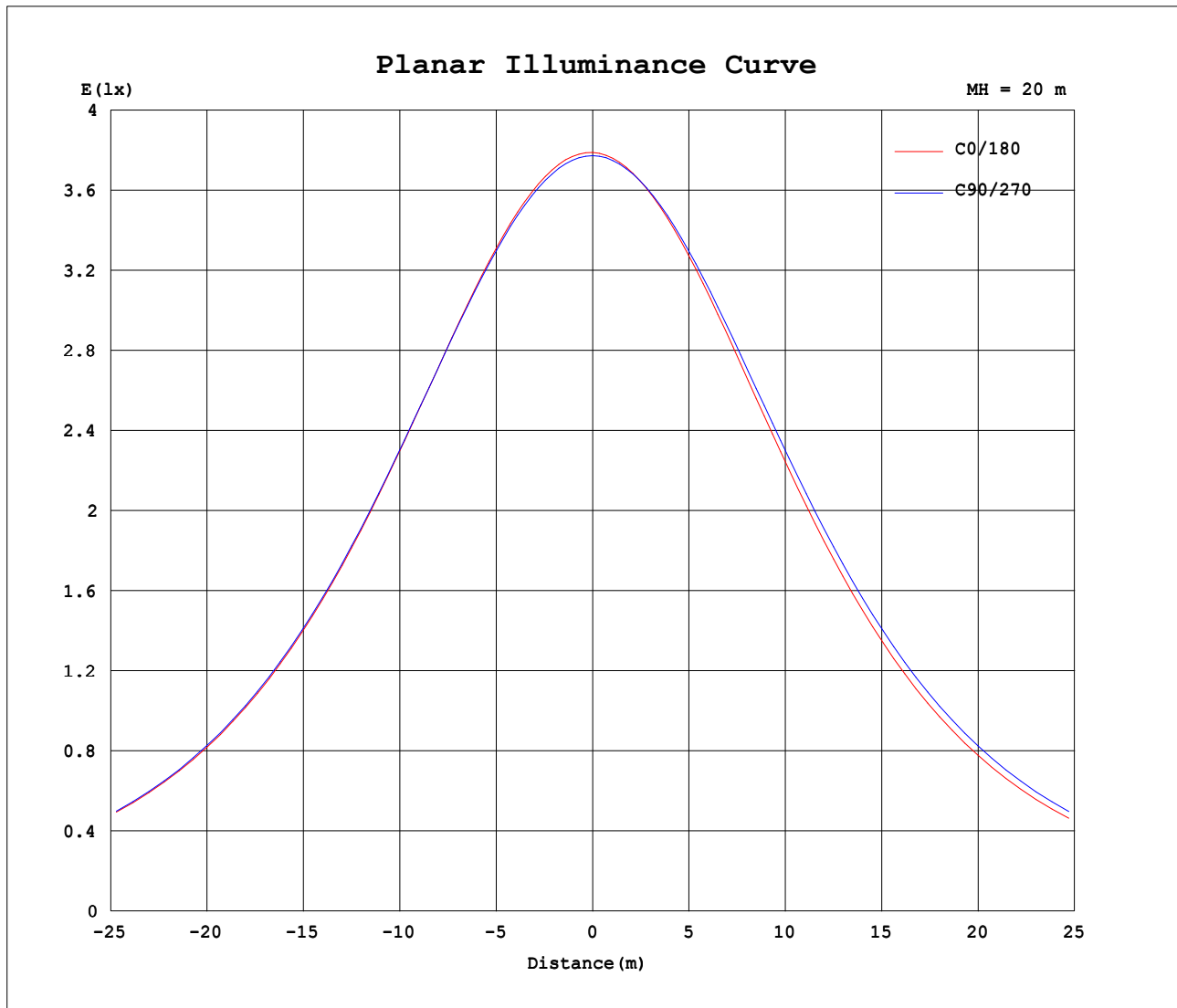
AvgL	cd/m2
L_0~180 (65) av	17759
L_0~180 (75) av	15057
L_0~180 (85) av	11726
L_90~270 (65) av	18723
L_90~270 (75) av	15936
L_90~270 (85) av	11795
L_45 (65) av	18297
L_45 (75) av	15507
L_45 (85) av	11558

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:230.14V I:0.1707A P:37.102W PF:0.9445 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:4001.27x1 lm		
NAME: DB66C-1200-36W-5700K	TYPE: 36W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1512	1512	1512	1512															
5	1506	1504	1500	1503															
10	1481	1479	1469	1479															
15	1438	1439	1420	1438															
20	1379	1384	1356	1382															
25	1307	1315	1278	1313															
30	1224	1234	1190	1232															
35	1131	1143	1092	1141															
40	1031	1044	987	1041															
45	925	938	879	935															
50	816	827	767	825															
55	704	712	653	709															
60	590	594	538	592															
65	476	476	424	473															
70	364	360	313	357															
75	258	248	209	247															
80	161	148	117	146															
85	79.0	62.4	43.6	61.0															
90	19.9	2.64	4.79	2.07															
95	2.87	2.37	1.96	1.93															
100	2.31	2.80	2.29	2.48															
105	2.74	3.40	2.82	3.13															
110	3.33	4.10	3.41	3.82															
115	3.96	4.83	4.05	4.52															
120	4.64	5.55	4.73	5.23															
125	5.34	6.28	5.42	5.96															
130	6.06	7.00	6.14	6.70															
135	6.78	7.68	6.87	7.39															
140	7.48	8.31	7.57	8.03															
145	8.14	8.90	8.24	8.65															
150	8.80	9.45	8.90	9.21															
155	9.43	9.94	9.54	9.72															
160	10.0	10.4	10.2	10.2															
165	10.6	10.8	10.7	10.6															
170	11.1	11.1	11.2	11.0															
175	11.5	11.4	11.5	11.1															
180	11.6	11.4	11.6	11.3															

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: