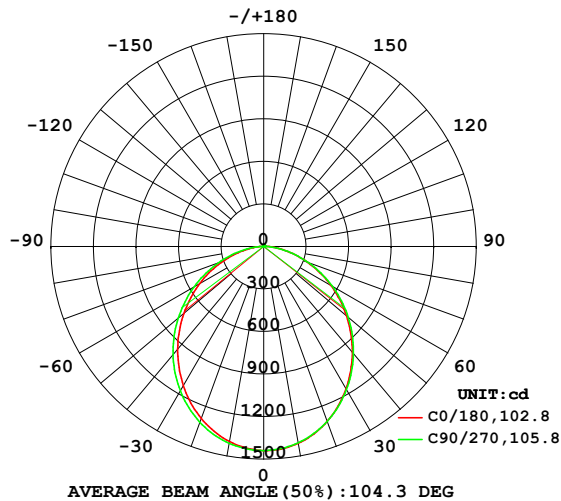


LUMINAIRE PHOTOMETRIC TEST REPORT

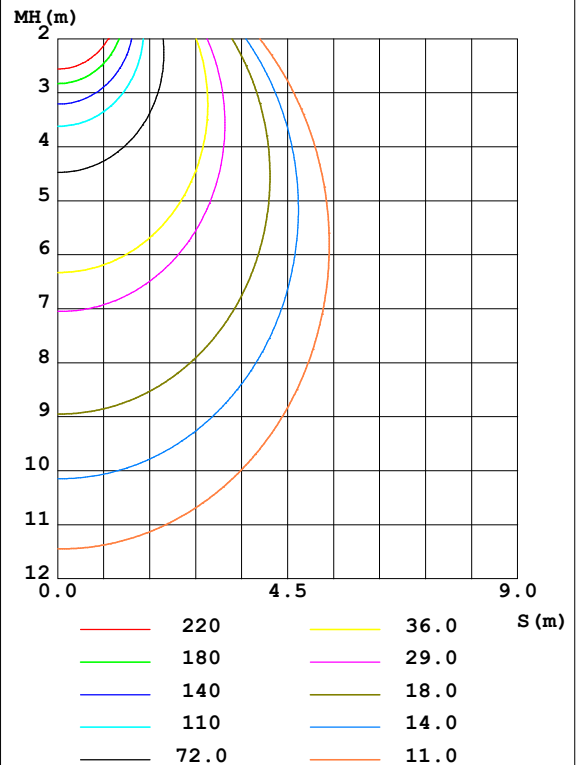
Test:U:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.06 lm/W			
MODEL	DB66C-1200-36W-4000K	I _{max} (cd)	1440	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)	3794.5	η UP,DN(C0-180)	0.5,49.9
NOMINAL FLUX(lm)	3794.53	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,49.2
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:

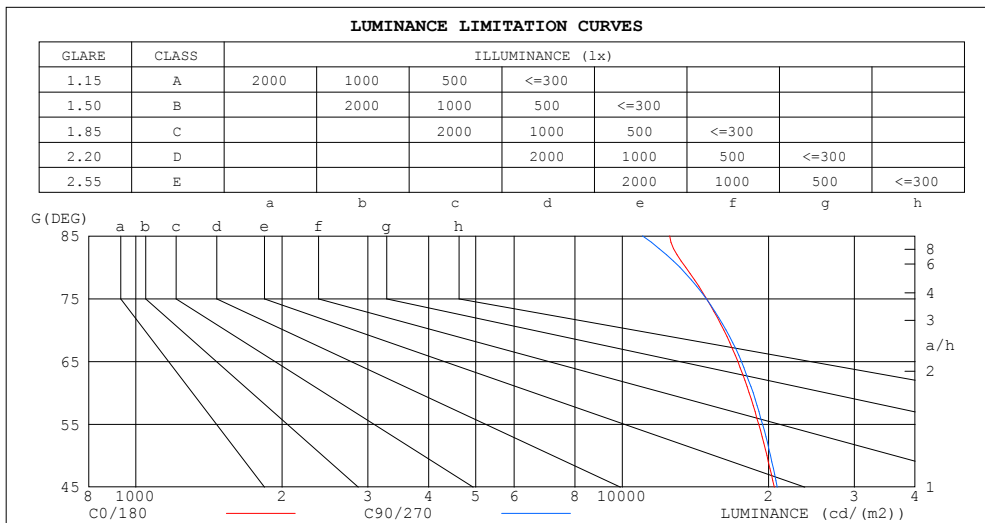
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1410	1406	1397	1409					0- 10	135.8	135.8	3.58,3.58
20	1312	1312	1290	1319					10- 20	384.5	520.3	13.7,13.7
30	1161	1168	1134	1177					20- 30	570.8	1091	28.8,28.8
40	972.7	985.5	944.6	995.1					30- 40	669.4	1760	46.4,46.4
50	764.0	779.1	736.0	787.5					40- 50	672.9	2433	64.1,64.1
60	546.5	558.6	519.0	564.5					50- 60	587.8	3021	79.6,79.6
70	331.7	336.0	304.7	340.0					60- 70	432.1	3453	91,91
80	140.5	137.1	119.0	138.7					70- 80	239.9	3693	97.3,97.3
90	14.64	3.127	8.616	3.362					80- 90	67.26	3760	99.1,99.1
100	2.514	2.647	2.331	2.402					90-100	3.411	3764	99.2,99.2
110	3.265	3.993	3.261	3.512					100-110	3.105	3767	99.3,99.3
120	4.496	5.381	4.468	4.857					110-120	4.104	3771	99.4,99.4
130	5.838	6.788	5.816	6.240					120-130	4.908	3776	99.5,99.5
140	7.181	8.051	7.166	7.550					130-140	5.280	3781	99.7,99.7
150	8.430	9.119	8.443	8.671					140-150	5.064	3786	99.8,99.8
160	9.684	10.02	9.627	9.627					150-160	4.248	3791	99.9,99.9
170	10.78	10.70	10.67	10.38					160-170	2.879	3793	100,100
180	11.06	10.86	11.13	10.79					170-180	1.031	3795	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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K		TYPE: 36W		WEIGHT:	
SPEC.: 4000K		DIM.:		SERIAL No.:	
MFR.:		SUR.: 0.06		Shielding Angle:	



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12515	11006
80	13503	13142
75	14909	14888
70	16185	16350
65	17288	17574
60	18241	18596
55	19087	19437
50	19837	20173
45	20537	20831

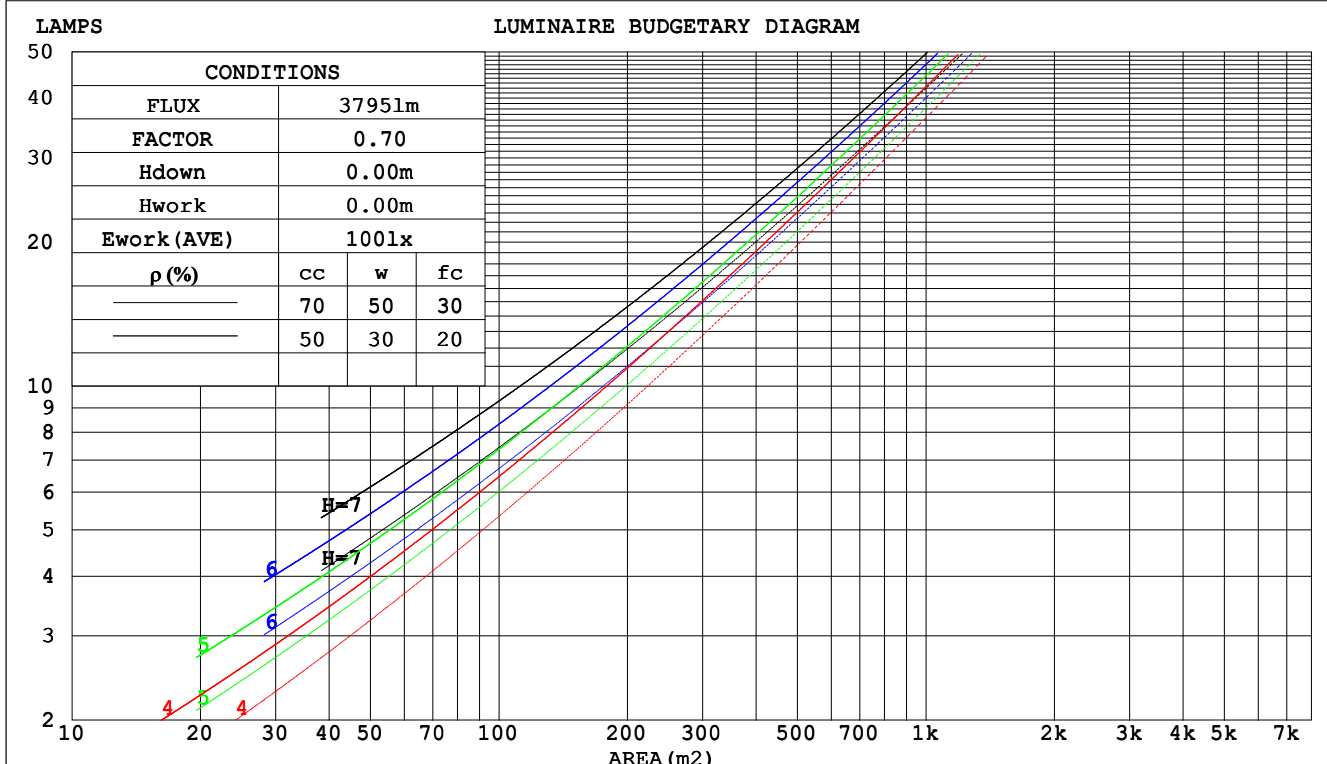
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	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	.73	.67	.63	.70	.65	.61	.59
4.0	.71	.62	.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	.43	.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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K		TYPE: 36W		WEIGHT:	
SPEC.: 4000K		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	.171	.054	.294	.168	.053	.280	.161	.051	.268	.154	.050	.256	.149	.048	
2.0	.284	.156	.048	.278	.153	.047	.266	.148	.046	.255	.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	.221	.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	.196	.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	.120	.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	.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	.122	.071	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
8.0	.135	.076	.036	.116	.066	.032	.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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K		TYPE: 36W		WEIGHT:	
SPEC.: 4000K		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	23.0	24.5	23.3	24.7	24.9	23.0	24.5	23.3	24.7	25.0	
	3H	24.4	25.8	24.7	26.0	26.3	24.5	25.8	24.8	26.1	26.3
	4H	24.9	26.2	25.3	26.5	26.8	25.0	26.3	25.3	26.6	26.8
	6H	25.3	26.6	25.7	26.9	27.2	25.4	26.6	25.7	26.9	27.2
	8H	25.5	26.7	25.8	27.0	27.3	25.5	26.7	25.9	27.0	27.3
	12H	25.6	26.7	25.9	27.0	27.3	25.6	26.7	25.9	27.0	27.3
4H	2H	23.6	24.9	23.9	25.1	25.4	23.6	24.9	23.9	25.2	25.4
	3H	25.1	26.3	25.5	26.6	26.9	25.2	26.3	25.6	26.6	27.0
	4H	25.8	26.9	26.2	27.2	27.6	25.9	26.9	26.3	27.2	27.6
	6H	26.4	27.3	26.8	27.6	28.0	26.4	27.3	26.8	27.7	28.0
	8H	26.5	27.4	27.0	27.8	28.2	26.5	27.4	27.0	27.8	28.2
	12H	26.7	27.5	27.1	27.9	28.3	26.7	27.4	27.1	27.8	28.3
8H	4H	26.1	26.9	26.5	27.3	27.7	26.1	27.0	26.5	27.3	27.8
	6H	26.7	27.5	27.2	27.9	28.3	26.8	27.5	27.2	27.9	28.3
	8H	27.0	27.6	27.5	28.1	28.6	27.0	27.6	27.5	28.1	28.5
	12H	27.2	27.8	27.7	28.2	28.7	27.2	27.7	27.7	28.2	28.7
12H	4H	26.1	26.9	26.5	27.3	27.7	26.1	26.9	26.6	27.3	27.7
	6H	26.8	27.4	27.3	27.9	28.3	26.8	27.4	27.3	27.9	28.4
	8H	27.1	27.6	27.6	28.1	28.6	27.1	27.6	27.6	28.1	28.6
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, 3795 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.6$)
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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K		TYPE: 36W		WEIGHT:	
SPEC.: 4000K		DIM.:		SERIAL No.:	
MFR.:		SUR.: 0.06		Shielding Angle:	

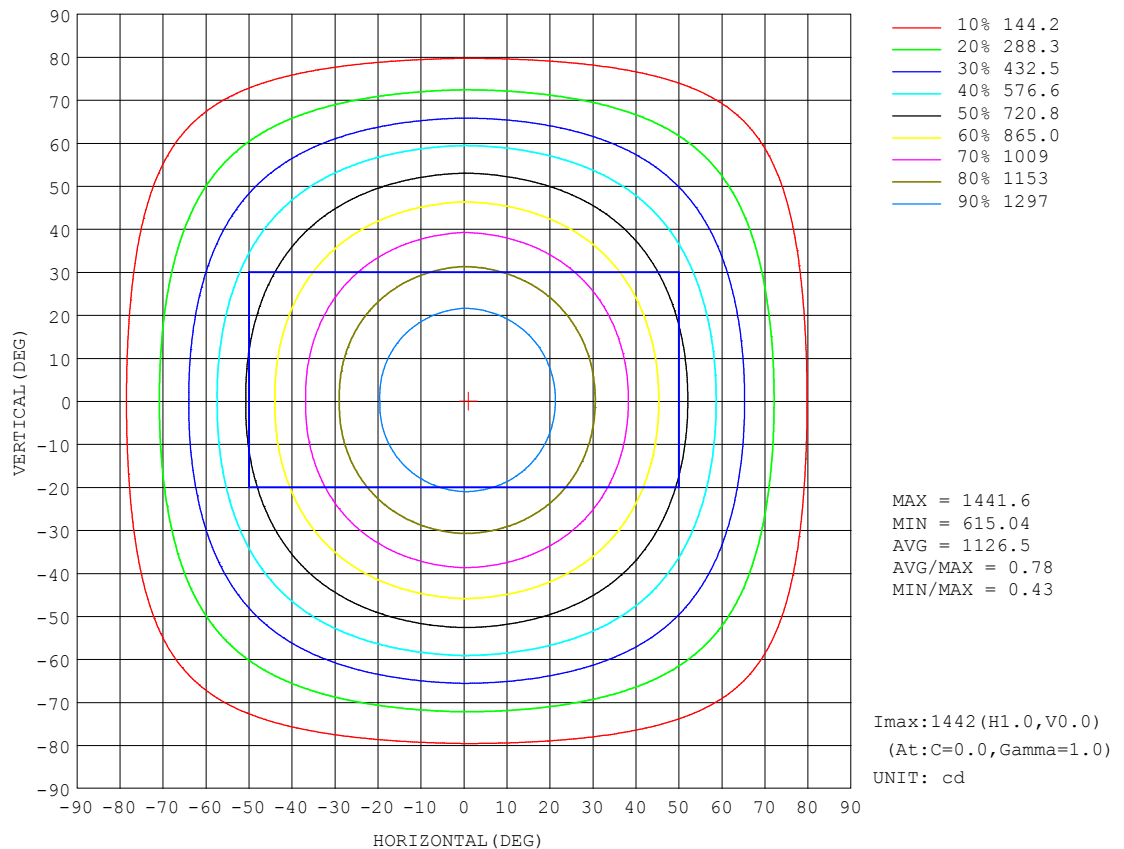
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	67	57	50	66	56	49	42
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	102	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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

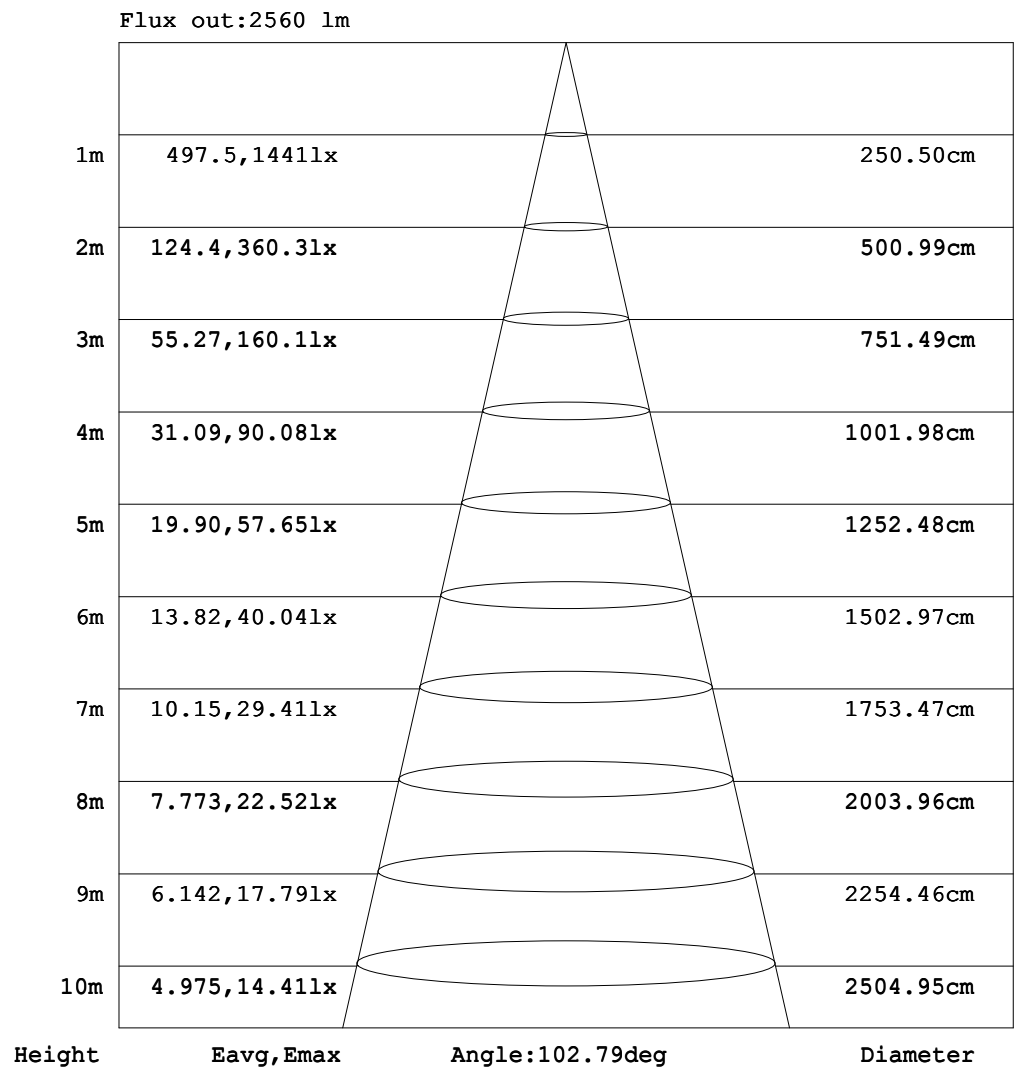


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:



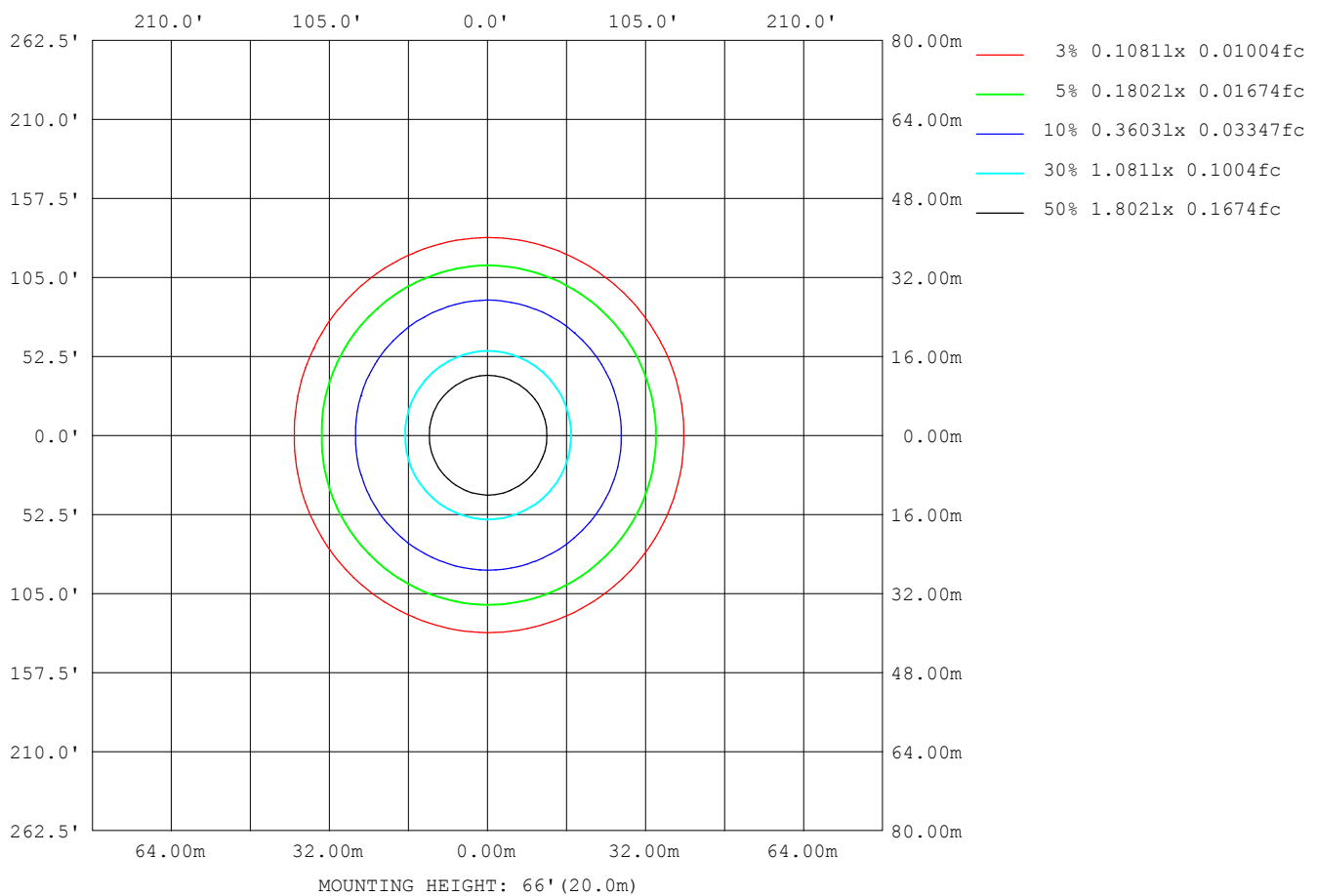
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

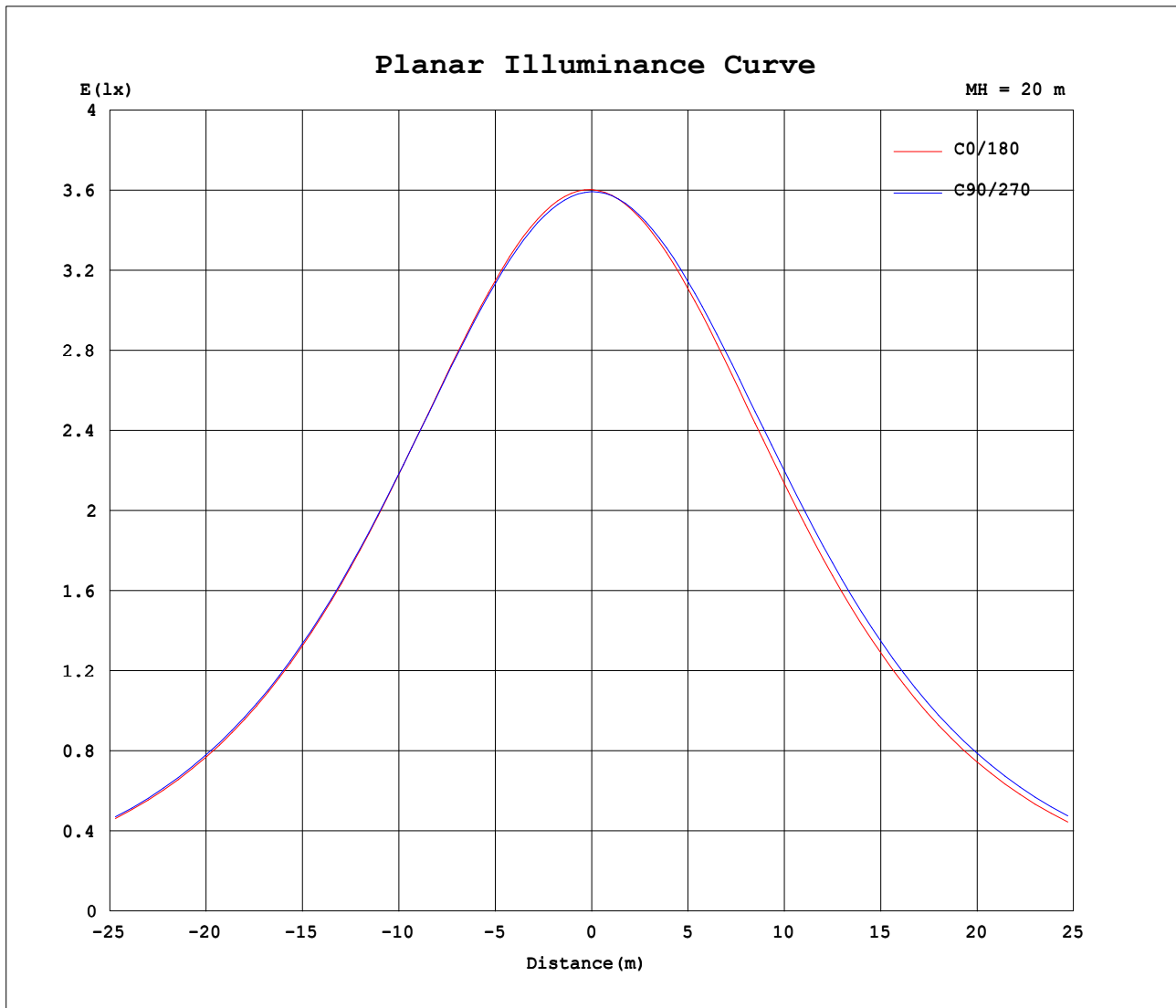
AvgL	cd/m2
L_0~180 (65) av	16730
L_0~180 (75) av	14084
L_0~180 (85) av	10981
L_90~270 (65) av	17699
L_90~270 (75) av	15002
L_90~270 (85) av	11070
L_45 (65) av	17302
L_45 (75) av	14607
L_45 (85) av	10942

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:230.28V I:0.1681A P:36.466W PF:0.9423 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:3794.53x1 lm		
NAME: DB66C-1200-36W-4000K	TYPE: 36W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.06	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1439	1439	1439	1439															
5	1433	1430	1427	1432															
10	1410	1406	1397	1409															
15	1369	1366	1350	1371															
20	1312	1312	1290	1319															
25	1242	1246	1217	1254															
30	1161	1168	1134	1177															
35	1070	1081	1042	1090															
40	973	985	945	995															
45	870	885	842	894															
50	764	779	736	787															
55	656	670	628	677															
60	546	559	519	565															
65	438	446	411	451															
70	332	336	305	340															
75	231	232	206	234															
80	140	137	119	139															
85	65.4	57.6	49.5	58.1															
90	14.6	3.13	8.62	3.36															
95	3.09	2.08	2.72	2.05															
100	2.51	2.65	2.33	2.40															
105	2.74	3.30	2.75	2.88															
110	3.27	3.99	3.26	3.51															
115	3.85	4.68	3.84	4.17															
120	4.50	5.38	4.47	4.86															
125	5.16	6.09	5.13	5.54															
130	5.84	6.79	5.82	6.24															
135	6.52	7.44	6.50	6.91															
140	7.18	8.05	7.17	7.55															
145	7.83	8.60	7.82	8.13															
150	8.43	9.12	8.44	8.67															
155	9.05	9.59	9.05	9.18															
160	9.68	10.0	9.63	9.63															
165	10.3	10.4	10.2	10.01															
170	10.8	10.7	10.7	10.4															
175	11.0	10.8	11.0	10.6															
180	11.1	10.9	11.1	10.8															

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: