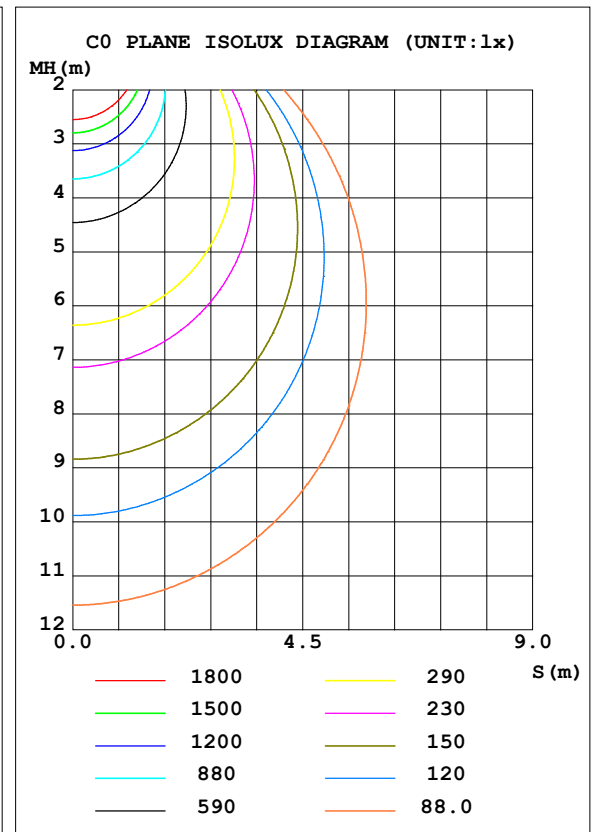
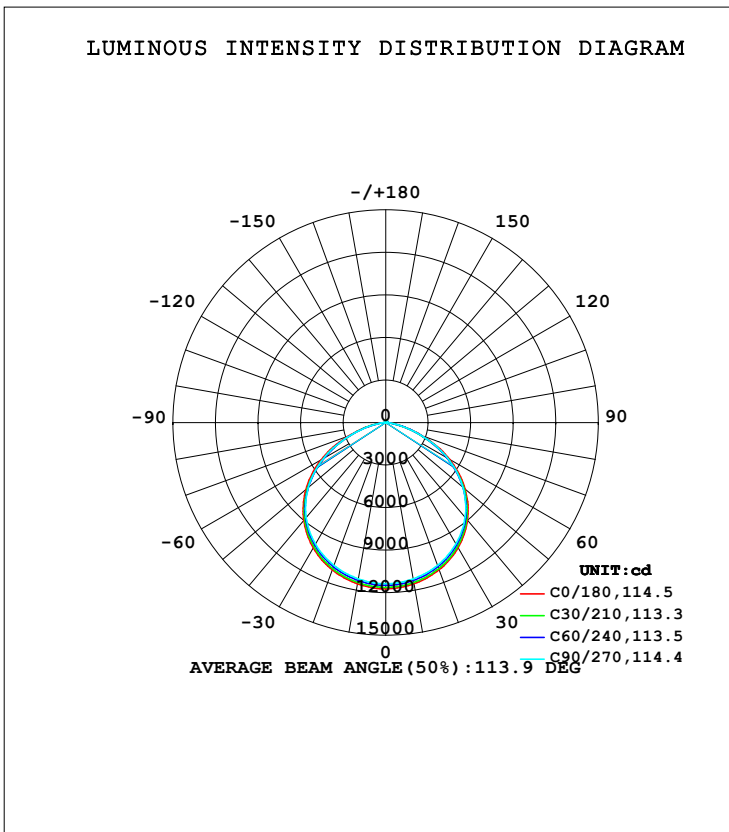


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 165.84 lm/W			
MODEL	HB03-200W-5700K-120°	I _{max} (cd)	11721	S/MH (C0/180)	1.30
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	32725	η UP, DN (C0-180)	0.6, 49.4
NOMINAL FLUX (lm)	32724.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 49.4
LAMPS INSIDE	1	η up (%)	1.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	240	η down (%)	98.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: C
 Test Date: 24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

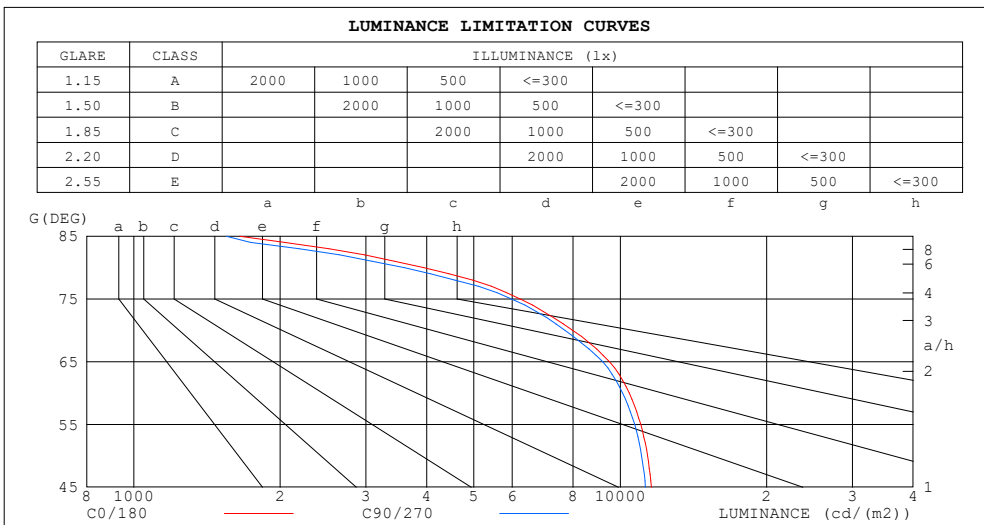
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1154	1137	1119	1108	1155	1136	1119	1107	0- 10	1082	1082	3.31,3.31
20	1104	1091	1071	1061	1105	1087	1071	1060	10- 20	3120	4203	12.8,12.8
30	1020	1009	989.7	981.2	1022	1004	990.9	981.5	20- 30	4799	9001	27.5,27.5
40	897.3	887.7	871.6	865.6	899.9	880.5	874.0	866.0	30- 40	5887	14888	45.5,45.5
50	731.2	719.6	711.4	710.6	735.5	711.5	713.8	710.7	40- 50	6175	21062	64.4,64.4
60	521.7	505.6	505.9	511.0	528.1	497.1	507.6	511.1	50- 60	5505	26568	81.2,81.2
70	273.2	265.3	263.3	268.8	283.0	258.2	265.7	268.9	60- 70	3852	30420	93,93
80	68.52	71.80	62.50	61.10	72.77	67.88	66.17	62.96	70- 80	1693	32112	98.1,98.1
90	2.854	2.798	0.9114	0.9075	3.077	1.157	1.129	1.132	80- 90	226.6	32339	98.8,98.8
100	4.002	3.897	2.027	2.030	4.286	2.329	2.302	2.312	90-100	23.04	32362	98.9,98.9
110	5.575	5.432	3.568	3.573	5.925	3.916	3.887	3.893	100-110	36.87	32399	99,99
120	7.267	7.101	5.224	5.220	7.650	5.610	5.560	5.556	110-120	50.90	32450	99.2,99.2
130	8.822	8.673	6.759	6.729	9.220	7.172	7.093	7.060	120-130	60.45	32510	99.3,99.3
140	10.16	10.03	8.074	8.030	10.58	8.508	8.411	8.355	130-140	63.26	32574	99.5,99.5
150	11.33	11.20	9.198	9.143	11.72	9.627	9.510	9.425	140-150	58.89	32632	99.7,99.7
160	12.44	12.31	10.26	10.19	12.72	10.62	10.48	10.37	150-160	48.34	32681	99.9,99.9
170	13.42	13.29	11.21	11.13	13.57	11.45	11.29	11.17	160-170	32.27	32713	100,100
180	14.03	13.91	11.75	11.67	14.08	11.97	11.79	11.65	170-180	11.54	32725	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1652	1550
80	3946	3599
75	6228	5978
70	7987	7700
65	9508	9203
60	10435	10118
55	11021	10707
50	11376	11067
45	11595	11268

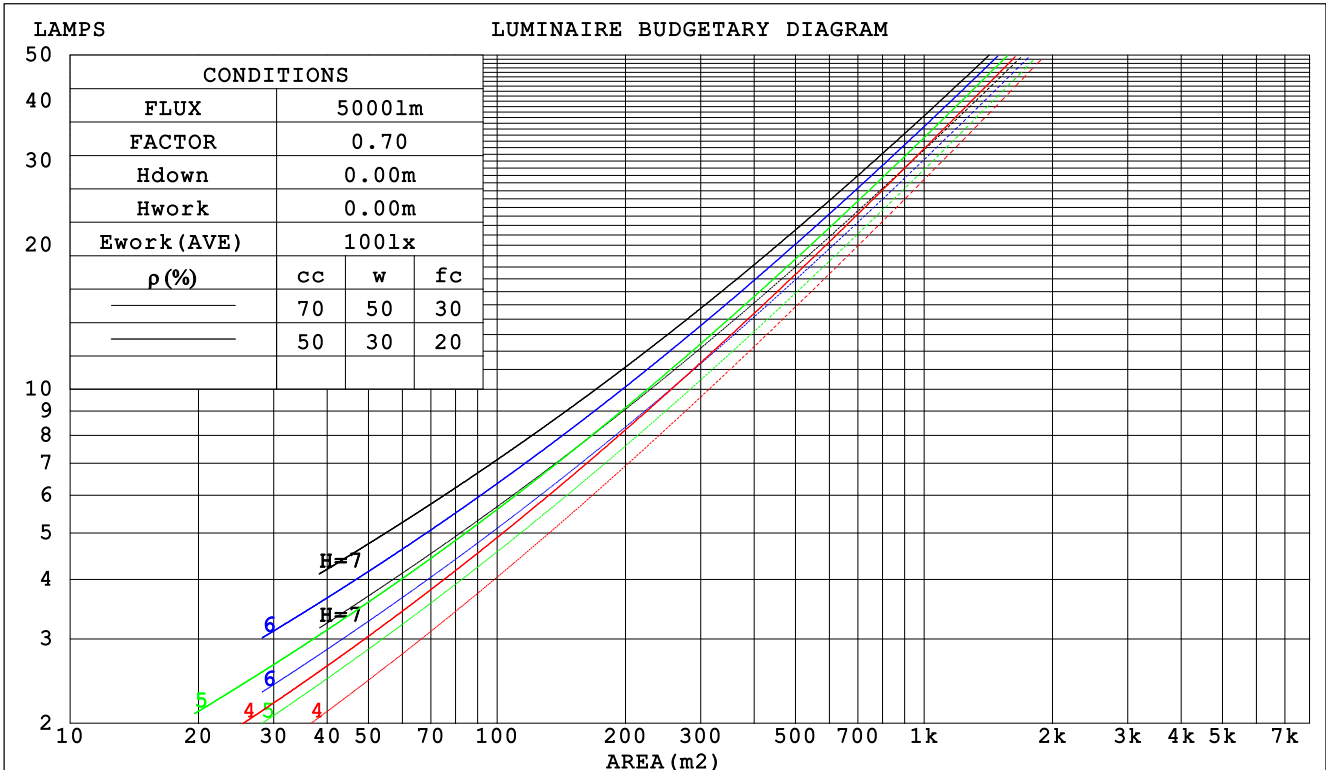
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

ρcc	80%			70%			50%			30%			10%			0
	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρfc	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	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.82	.78	.75	.79	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.69	.64	.73	.68	.63	.70	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.63	.57	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.288	.164	.052	.281	.160	.051	.267	.153	.049	.254	.147	.047	.243	.141	.045	
2.0	.278	.152	.047	.271	.149	.046	.259	.144	.045	.248	.139	.044	.238	.134	.042	
3.0	.260	.139	.042	.255	.136	.041	.244	.132	.040	.234	.128	.039	.225	.124	.038	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.219	.117	.035	.210	.114	.035	
5.0	.225	.115	.033	.221	.113	.033	.212	.111	.033	.204	.108	.032	.197	.105	.032	
6.0	.210	.105	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029	
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.079	.023	.154	.078	.023	
10.0	.162	.078	.022	.160	.077	.021	.154	.076	.021	.150	.074	.021	.145	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.188	.165	.145	.161	.142	.125	.110	.098	.086	.063	.057	.050	.020	.018	.016	
2.0	.179	.141	.109	.154	.121	.094	.105	.084	.066	.061	.049	.038	.019	.016	.013	
3.0	.172	.123	.085	.147	.106	.074	.101	.074	.052	.058	.043	.030	.019	.014	.010	
4.0	.164	.110	.069	.141	.095	.060	.097	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.157	.100	.057	.135	.086	.050	.093	.060	.035	.054	.035	.021	.017	.012	.007	
6.0	.150	.091	.049	.129	.079	.043	.089	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.144	.084	.043	.124	.073	.037	.085	.051	.026	.050	.030	.016	.016	.010	.005	
8.0	.137	.079	.038	.118	.068	.033	.082	.048	.024	.048	.028	.014	.015	.009	.005	
9.0	.131	.074	.035	.113	.064	.030	.078	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.126	.069	.032	.108	.060	.028	.075	.042	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

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	20.5	22.1	20.9	22.5	22.8	20.5	22.1	20.9	22.4	22.7
3H	22.0	23.4	22.4	23.8	24.1	21.9	23.3	22.3	23.7	24.1
4H	22.4	23.7	22.8	24.1	24.5	22.3	23.6	22.7	24.0	24.4
6H	22.6	23.8	23.0	24.2	24.6	22.4	23.7	22.8	24.0	24.5
8H	22.6	23.8	23.0	24.2	24.6	22.4	23.6	22.9	24.0	24.4
12H	22.6	23.7	23.0	24.1	24.6	22.4	23.5	22.8	23.9	24.4
4H 2H	21.1	22.4	21.5	22.8	23.2	21.0	22.4	21.5	22.8	23.2
3H	22.7	23.8	23.1	24.2	24.6	22.6	23.7	23.0	24.1	24.6
4H	23.1	24.2	23.6	24.6	25.1	23.0	24.1	23.5	24.5	25.0
6H	23.4	24.3	23.9	24.7	25.2	23.3	24.1	23.7	24.6	25.1
8H	23.4	24.2	23.9	24.7	25.2	23.3	24.1	23.8	24.6	25.0
12H	23.4	24.2	23.9	24.7	25.2	23.3	24.0	23.8	24.5	25.0
8H 4H	23.3	24.1	23.8	24.6	25.1	23.2	24.0	23.7	24.5	25.0
6H	23.6	24.3	24.1	24.8	25.3	23.4	24.1	23.9	24.6	25.1
8H	23.7	24.3	24.2	24.8	25.3	23.5	24.1	24.0	24.6	25.1
12H	23.7	24.2	24.2	24.7	25.3	23.5	24.0	24.0	24.5	25.1
12H 4H	23.3	24.0	23.8	24.5	25.0	23.2	23.9	23.7	24.4	24.9
6H	23.6	24.2	24.1	24.7	25.3	23.4	24.0	24.0	24.5	25.1
8H	23.7	24.2	24.2	24.7	25.3	23.5	24.0	24.0	24.5	25.1
CIE190: 2010										

CIE190: 2010
Area: 1 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG	Humidity:65.0%
Operators:C	Test Distance:8.000m [K=1.0000]
Test Date:24 January 2022	Remarks:

UTILIZATION FACTORS TABLE

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

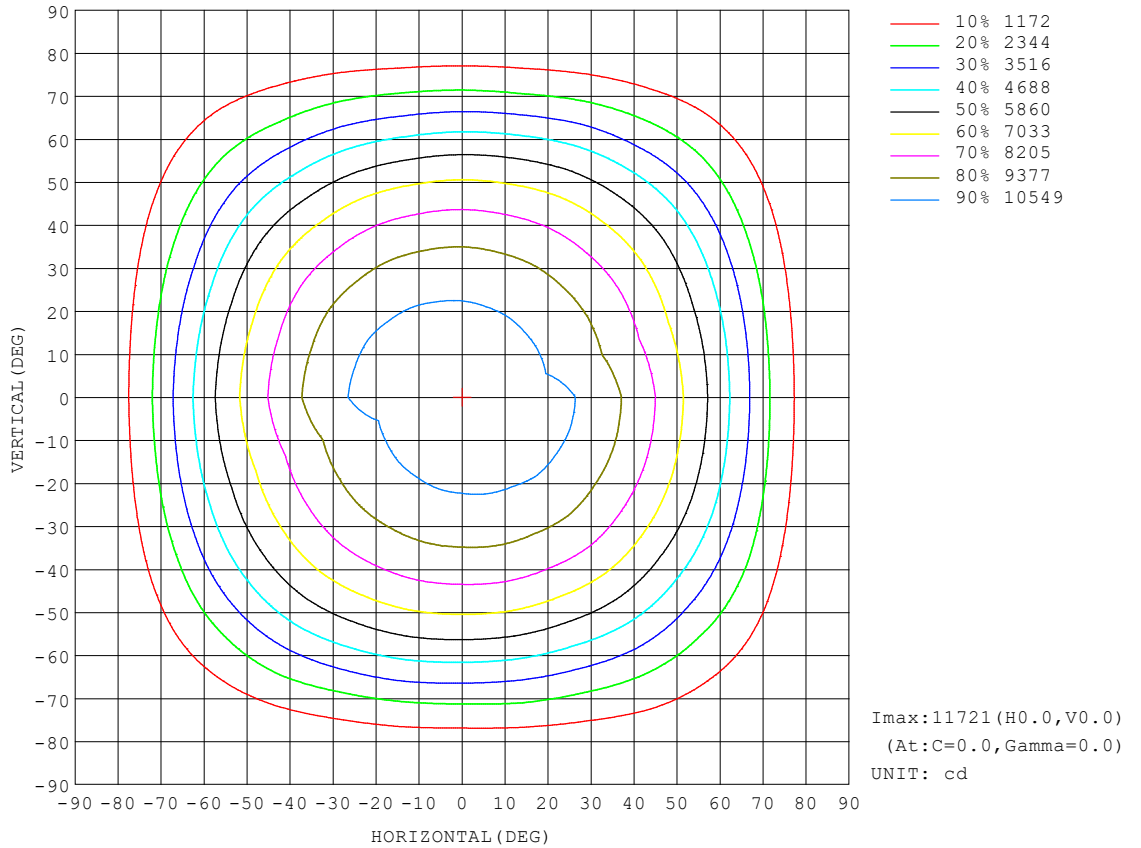
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	75	65	58	73	66	58	51
1.25	84	74	67	82	73	66	80	71	65	58
1.50	89	79	73	87	78	72	84	77	71	63
2.00	96	88	81	94	86	81	90	84	79	71
2.50	100	92	86	98	91	85	94	88	83	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

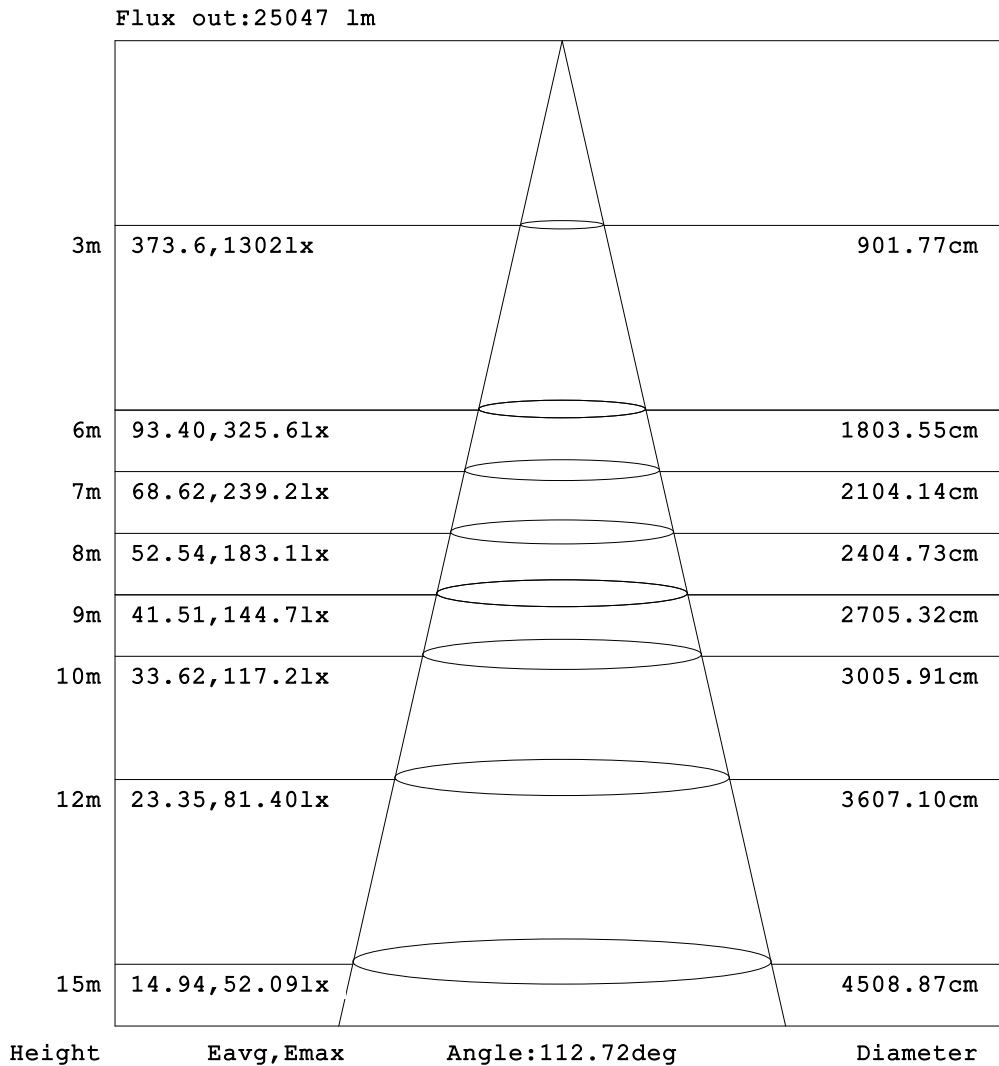


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		



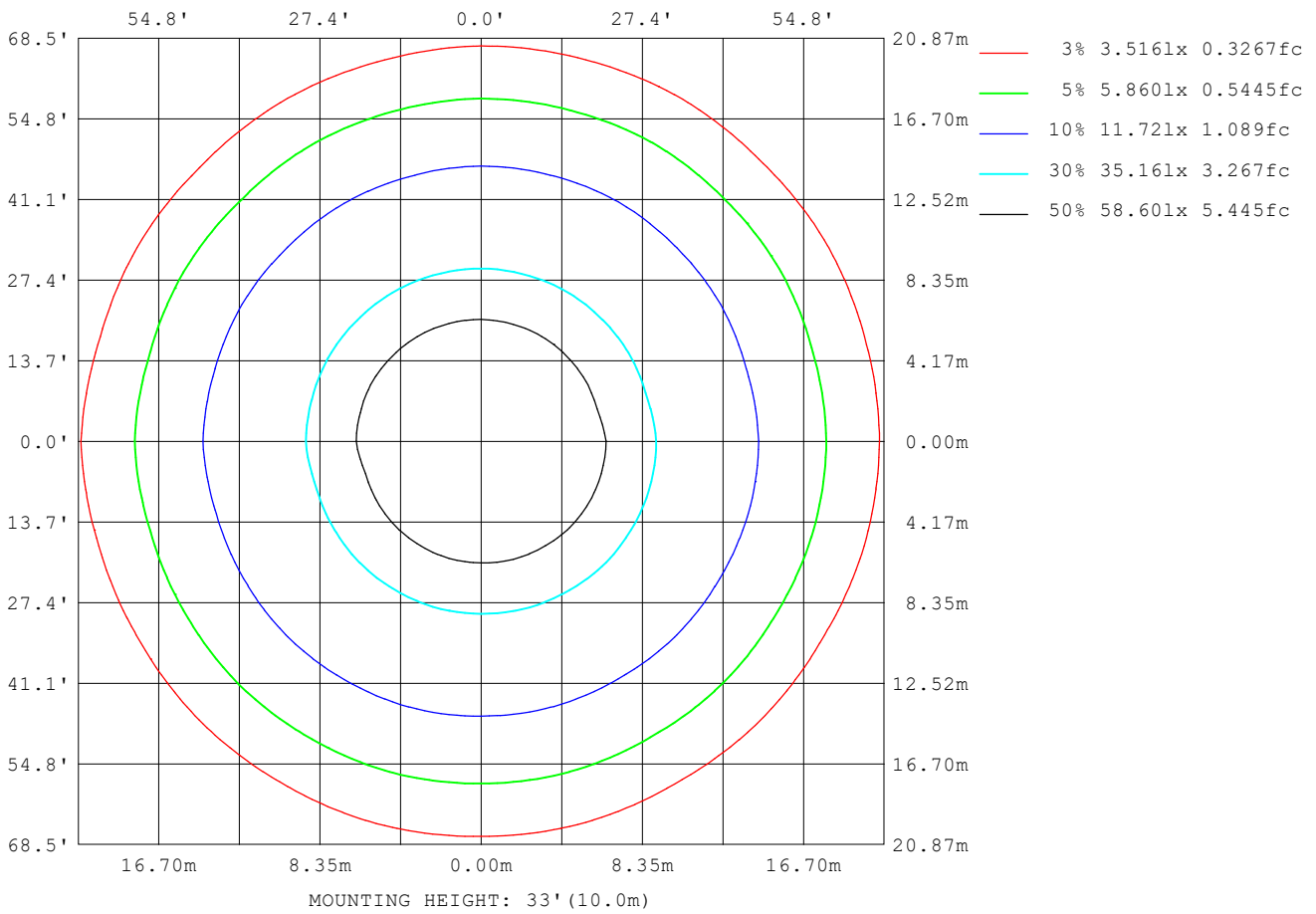
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

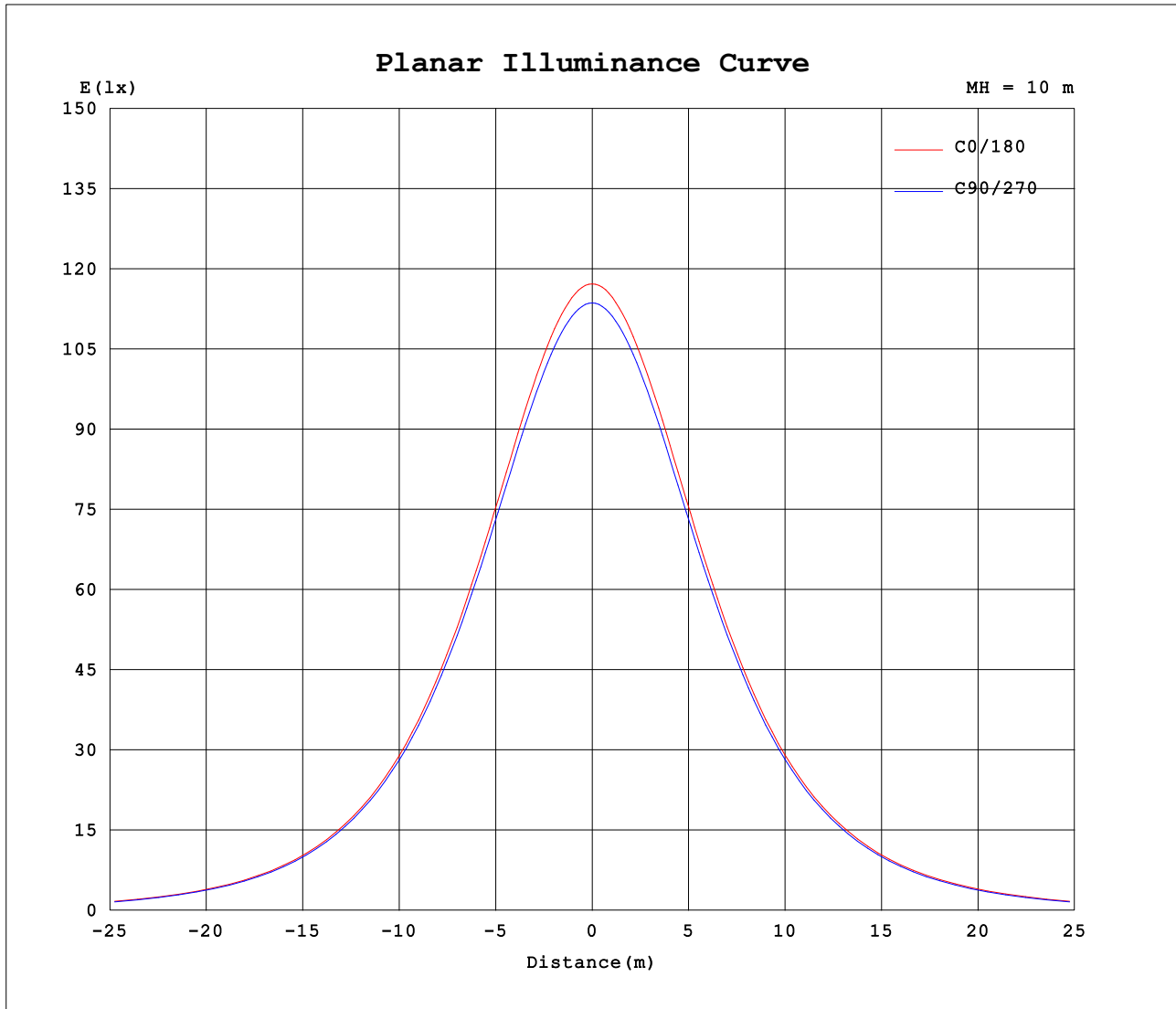
AvgL	cd/m2
L_0~180 (65) av	9595
L_0~180 (75) av	6381
L_0~180 (85) av	1739
L_90~270 (65) av	9194
L_90~270 (75) av	6063
L_90~270 (85) av	1542
L_45 (65) av	9198
L_45 (75) av	6105
L_45 (85) av	1596

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: C
 Test Date: 24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1172	1168	1163	1154	1148	1141	1136	1132	1128	1125	1122	1120	1172	1168	1163	1154	1148	1141	1136
5	1167	1163	1158	1150	1143	1137	1132	1128	1124	1121	1118	1116	1168	1163	1158	1150	1143	1137	1132
10	1154	1150	1145	1137	1130	1125	1119	1115	1111	1108	1105	1103	1155	1149	1145	1136	1130	1123	1119
15	1133	1130	1124	1117	1109	1104	1098	1095	1091	1088	1085	1083	1134	1128	1124	1115	1110	1103	1099
20	1104	1101	1095	1091	1081	1077	1071	1068	1063	1061	1057	1056	1105	1099	1096	1087	1082	1075	1071
25	1067	1064	1058	1055	1045	1041	1035	1032	1027	1025	1022	1021	1068	1062	1059	1050	1045	1039	1035
30	1020	1018	1012	1009	999	996	990	988	983	981	977	976	1022	1015	1012	1004	1000	993	991
35	964	961	956	953	944	941	936	934	929	928	924	923	966	958	956	947	945	939	937
40	897	895	889	888	878	877	872	871	866	866	861	861	900	891	890	880	879	873	874
45	820	817	810	810	801	801	797	798	793	793	788	789	823	812	811	802	802	797	799
50	731	728	719	720	711	714	711	713	709	711	705	707	736	723	721	711	714	710	714
55	632	627	617	617	611	615	614	618	614	616	611	613	638	621	620	609	613	610	616
60	522	516	505	506	500	506	506	510	508	511	507	509	528	509	507	497	503	501	508
65	402	396	386	390	383	389	389	395	392	395	392	395	409	388	388	380	384	380	388
70	273	273	261	265	264	269	263	266	264	269	262	266	283	267	266	258	265	264	266
75	161	164	158	163	158	161	155	155	151	155	150	153	169	162	165	159	162	157	159
80	68.5	71.5	69.1	71.8	65.0	67.0	62.5	62.9	59.6	61.1	59.1	60.9	72.8	70.8	73.4	67.9	68.7	64.0	66.2
85	14.4	16.4	15.9	17.1	13.6	14.0	13.5	11.9	11.1	10.7	10.2	9.63	15.9	16.5	17.7	14.4	15.0	13.0	13.4
90	2.85	2.82	2.82	2.80	0.92	0.90	0.91	0.90	0.92	0.91	0.93	0.91	3.08	3.07	3.04	1.16	1.14	1.15	1.13
95	3.36	3.32	3.31	3.28	1.40	1.39	1.40	1.39	1.42	1.40	1.43	1.41	3.62	3.59	3.56	1.68	1.66	1.68	1.65
100	4.00	3.94	3.93	3.90	2.02	2.00	2.03	2.01	2.05	2.03	2.06	2.04	4.29	4.25	4.21	2.33	2.30	2.33	2.30
105	4.75	4.68	4.66	4.62	2.75	2.73	2.76	2.74	2.78	2.76	2.79	2.77	5.07	5.03	4.98	3.09	3.06	3.09	3.06
110	5.58	5.50	5.47	5.43	3.56	3.53	3.57	3.55	3.59	3.57	3.60	3.58	5.92	5.86	5.82	3.92	3.88	3.91	3.89
115	6.43	6.35	6.31	6.27	4.39	4.37	4.40	4.39	4.42	4.40	4.43	4.41	6.79	6.73	6.67	4.77	4.73	4.76	4.73
120	7.27	7.19	7.14	7.10	5.22	5.19	5.22	5.21	5.24	5.22	5.24	5.21	7.65	7.57	7.52	5.61	5.57	5.59	5.56
125	8.07	7.99	7.95	7.91	6.02	5.99	6.02	6.00	6.02	6.00	6.01	5.98	8.46	8.39	8.33	6.42	6.37	6.39	6.35
130	8.82	8.75	8.71	8.67	6.77	6.75	6.76	6.74	6.75	6.73	6.74	6.71	9.22	9.15	9.10	7.17	7.13	7.13	7.09
135	9.52	9.46	9.42	9.38	7.47	7.44	7.44	7.42	7.43	7.41	7.41	7.39	9.93	9.85	9.80	7.87	7.83	7.82	7.78
140	10.2	10.1	10.1	10.0	8.11	8.08	8.07	8.05	8.05	8.03	8.03	8.01	10.6	10.5	10.4	8.51	8.46	8.44	8.41
145	10.7	10.7	10.7	10.6	8.69	8.66	8.64	8.62	8.61	8.59	8.59	8.57	11.2	11.1	11.0	9.08	9.04	9.01	8.98
150	11.3	11.3	11.2	11.2	9.26	9.23	9.20	9.18	9.16	9.14	9.13	9.11	11.7	11.6	11.6	9.63	9.58	9.54	9.51
155	11.9	11.9	11.8	11.8	9.83	9.80	9.76	9.74	9.71	9.69	9.67	9.65	12.2	12.2	12.1	10.1	10.1	10.0	10.0
160	12.4	12.4	12.3	12.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2	10.1	12.7	12.6	12.6	10.6	10.6	10.5	10.5
165	12.9	12.9	12.8	12.8	10.8	10.8	10.8	10.7	10.7	10.7	10.6	10.6	13.2	13.1	13.0	11.1	11.0	10.9	10.9
170	13.4	13.4	13.3	13.3	11.3	11.3	11.2	11.2	11.1	11.1	11.1	11.1	13.6	13.5	13.5	11.4	11.4	11.3	11.3
175	13.8	13.8	13.7	13.7	11.7	11.7	11.6	11.6	11.5	11.5	11.5	11.4	13.9	13.8	13.8	11.8	11.7	11.6	11.6
180	14.0	14.0	13.9	13.9	11.9	11.9	11.8	11.7	11.7	11.6	11.6	11.6	14.1	14.0	14.0	12.0	11.9	11.8	11.8

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:241.29V I:0.8320A P:197.33W PF:0.9829 Freq:49.97Hz		
Lamp Flux:32724.6x1 lm		
NAME: HB03-200W-5700K-120°	TYPE:	
MFR.: EVERFINE		

Table--2

UNIT: X10cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1132	1128	1125	1122	1120														
5	1127	1124	1120	1118	1116														
10	1114	1111	1107	1106	1103														
15	1094	1091	1088	1086	1083														
20	1066	1064	1060	1059	1056														
25	1031	1029	1025	1024	1021														
30	986	985	981	981	978														
35	933	932	929	928	925														
40	870	870	866	867	863														
45	796	797	794	795	791														
50	711	715	711	713	709														
55	615	621	616	621	615														
60	508	515	511	517	512														
65	389	395	390	399	398														
70	261	269	269	272	268														
75	154	159	155	160	156														
80	63.3	65.6	63.0	66.0	63.6														
85	13.7	12.7	13.5	12.3	13.2														
90	1.14	1.12	1.13	1.12	1.13														
95	1.67	1.64	1.66	1.64	1.65														
100	2.32	2.29	2.31	2.28	2.30														
105	3.08	3.05	3.07	3.04	3.06														
110	3.91	3.88	3.89	3.86	3.88														
115	4.75	4.72	4.74	4.70	4.71														
120	5.58	5.54	5.56	5.52	5.53														
125	6.36	6.32	6.33	6.30	6.31														
130	7.10	7.06	7.06	7.03	7.04														
135	7.78	7.74	7.74	7.71	7.71														
140	8.40	8.37	8.36	8.32	8.32														
145	8.96	8.93	8.91	8.88	8.87														
150	9.48	9.45	9.42	9.40	9.39														
155	9.97	9.95	9.91	9.89	9.87														
160	10.4	10.4	10.4	10.4	10.3														
165	10.9	10.8	10.8	10.8	10.7														
170	11.2	11.2	11.2	11.1	11.1														
175	11.5	11.5	11.5	11.5	11.4														
180	11.7	11.7	11.6	11.6	11.6														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	11721	11676	11625	11545	11475	11414	11363	11319	11283	11251
3.0	11703	11661	11608	11529	11459	11401	11346	11304	11266	11236
6.0	11653	11614	11558	11483	11411	11355	11298	11258	11218	11188
9.0	11573	11534	11478	11405	11332	11277	11220	11180	11139	11109
12.0	11463	11430	11371	11303	11225	11176	11114	11079	11033	11009
15.0	11329	11295	11238	11169	11094	11042	10984	10950	10905	10880
18.0	11166	11135	11076	11031	10935	10889	10827	10795	10749	10728
21.0	10971	10946	10885	10845	10744	10704	10642	10614	10565	10545
24.0	10747	10720	10663	10622	10526	10485	10426	10397	10351	10329
27.0	10491	10467	10408	10375	10274	10240	10178	10155	10105	10088
30.0	10200	10178	10117	10089	9991	9960	9897	9878	9827	9812
33.0	9875	9849	9793	9767	9671	9642	9585	9567	9518	9503
36.0	9512	9492	9431	9414	9316	9296	9236	9226	9174	9165
39.0	9114	9089	9029	9015	8921	8905	8850	8845	8795	8786
42.0	8679	8652	8589	8580	8489	8481	8431	8430	8383	8376
45.0	8199	8171	8101	8098	8008	8013	7967	7976	7929	7930
48.0	7679	7649	7572	7570	7485	7503	7468	7481	7438	7445
51.0	7126	7086	7002	6998	6924	6953	6931	6950	6914	6925
54.0	6526	6485	6383	6392	6315	6363	6344	6380	6337	6362
57.0	5888	5835	5728	5734	5669	5723	5714	5758	5722	5750
60.0	5217	5161	5048	5056	4999	5061	5059	5103	5078	5110
63.0	4515	4463	4344	4361	4308	4376	4368	4419	4398	4435
66.0	3751	3699	3597	3647	3580	3631	3630	3700	3657	3688
69.0	2984	2962	2841	2895	2869	2918	2871	2917	2891	2931
72.0	2254	2283	2178	2220	2198	2261	2183	2192	2154	2219
75.0	1612	1637	1578	1633	1584	1614	1547	1552	1509	1545
78.0	1035	1042	1024	1066	1003	1005	951.1	966.6	919.7	936.0
81.0	537.2	564.4	548.5	578.8	515.8	524.4	482.8	495.2	457.9	465.6
84.0	213.1	257.1	230.1	264.2	206.0	229.1	181.4	184.3	161.0	167.5
87.0	62.25	71.80	69.22	75.12	49.53	52.40	42.37	42.74	36.38	37.33
90.0	28.54	28.20	28.18	27.98	9.171	8.986	9.114	8.999	9.199	9.075
93.0	31.40	30.98	30.94	30.68	11.92	11.70	11.91	11.75	12.02	11.87
96.0	34.75	34.31	34.18	33.93	15.13	14.97	15.15	15.05	15.29	15.18
99.0	38.63	38.08	37.95	37.63	18.91	18.68	18.96	18.79	19.11	18.96
102.0	42.92	42.28	42.13	41.76	23.06	22.79	23.11	22.95	23.33	23.14
105.0	47.53	46.85	46.62	46.24	27.54	27.26	27.61	27.44	27.83	27.62
108.0	52.41	51.72	51.43	51.03	32.31	32.03	32.43	32.26	32.64	32.44
111.0	57.48	56.76	56.43	56.00	37.23	37.01	37.34	37.22	37.57	37.40
114.0	62.58	61.82	61.45	61.00	42.22	41.99	42.33	42.22	42.55	42.37
117.0	67.66	66.93	66.48	66.06	47.23	47.02	47.33	47.20	47.52	47.32
120.0	72.67	71.92	71.45	71.01	52.17	51.94	52.24	52.10	52.42	52.20
123.0	77.52	76.76	76.34	75.86	57.06	56.75	57.06	56.85	57.14	56.89
126.0	82.25	81.50	81.06	80.62	61.75	61.44	61.69	61.49	61.72	61.47
129.0	86.77	86.07	85.66	85.25	66.28	66.00	66.16	65.97	66.12	65.88
132.0	91.06	90.41	89.99	89.63	70.58	70.31	70.36	70.20	70.28	70.08
135.0	95.16	94.60	94.18	93.83	74.70	74.44	74.42	74.24	74.29	74.10
138.0	99.07	98.63	98.14	97.82	78.60	78.33	78.24	78.08	78.06	77.90
141.0	102.8	102.4	101.9	101.6	82.30	81.99	81.89	81.69	81.67	81.48
144.0	106.3	105.9	105.5	105.1	85.78	85.44	85.30	85.09	85.04	84.83
147.0	109.8	109.4	108.9	108.5	89.11	88.79	88.57	88.38	88.27	88.07
150.0	113.3	113.0	112.4	112.0	92.62	92.27	91.98	91.79	91.63	91.43
153.0	116.8	116.5	115.9	115.6	96.06	95.73	95.37	95.20	94.94	94.76
156.0	120.2	119.8	119.3	118.9	99.36	99.01	98.60	98.39	98.12	97.91
159.0	123.3	123.0	122.4	122.1	102.4	102.1	101.6	101.4	101.1	100.9
162.0	126.4	126.1	125.5	125.1	105.5	105.1	104.6	104.4	104.0	103.9
165.0	129.4	129.1	128.5	128.1	108.4	108.1	107.5	107.3	106.9	106.7
168.0	132.3	132.1	131.4	131.0	111.3	111.0	110.3	110.1	109.7	109.5
171.0	135.1	134.8	134.1	133.8	113.9	113.6	112.9	112.8	112.3	112.1
174.0	137.4	137.2	136.4	136.1	116.2	115.9	115.2	115.0	114.5	114.4
177.0	139.1	139.0	138.1	137.9	117.9	117.7	116.8	116.5	115.9	115.9
180.0	140.3	140.2	139.3	139.1	118.9	118.5	117.5	117.5	116.8	116.7
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	11225	11203	11721	11676	11625	11545	11475	11414	11363	11319
3.0	11208	11187	11706	11659	11609	11527	11459	11397	11346	11301
6.0	11159	11139	11658	11608	11561	11476	11411	11347	11298	11250
9.0	11080	11060	11578	11528	11482	11397	11334	11266	11220	11172
12.0	10975	10960	11469	11417	11376	11286	11227	11158	11115	11065
15.0	10847	10830	11337	11284	11244	11154	11098	11028	10986	10939
18.0	10693	10679	11176	11122	11083	10994	10940	10871	10832	10783
21.0	10509	10498	10983	10928	10892	10803	10751	10684	10647	10599
24.0	10295	10281	10761	10702	10670	10581	10532	10465	10433	10384
27.0	10049	10041	10506	10442	10415	10324	10283	10212	10188	10136
30.0	9770	9764	10216	10151	10124	10036	9998	9933	9909	9863

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: C

Test Date: 24 January 2022

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446

Humidity: 65.0%

Test Distance: 8.000m [K=1.0000]

Remarks:

Photometric Data Table [cd]

33.0	9462	9456	9894	9823	9801	9710	9680	9616	9602	9554
36.0	9121	9120	9534	9456	9438	9347	9323	9262	9255	9208
39.0	8742	8742	9138	9056	9037	8953	8930	8877	8873	8833
42.0	8333	8333	8703	8611	8598	8506	8497	8446	8453	8416
45.0	7881	7888	8230	8123	8113	8018	8021	7973	7994	7958
48.0	7397	7405	7712	7599	7584	7493	7498	7463	7489	7465
51.0	6875	6888	7170	7036	7020	6926	6944	6913	6951	6934
54.0	6310	6330	6578	6422	6409	6304	6339	6308	6365	6351
57.0	5705	5724	5947	5772	5753	5652	5694	5674	5733	5734
60.0	5070	5091	5281	5093	5073	4971	5026	5012	5076	5079
63.0	4392	4426	4587	4383	4372	4277	4329	4308	4385	4390
66.0	3663	3701	3825	3608	3625	3544	3590	3547	3621	3615
69.0	2875	2915	3074	2888	2896	2808	2886	2858	2890	2848
72.0	2152	2178	2348	2234	2240	2163	2219	2197	2218	2154
75.0	1500	1534	1691	1615	1653	1589	1624	1565	1591	1537
78.0	908.1	945.3	1074	1051	1077	1031	1032	974.9	994.7	955.1
81.0	447.7	466.9	574.1	557.9	586.9	535.1	545.9	497.6	516.3	488.2
84.0	149.2	158.1	253.1	239.1	272.2	217.1	242.9	196.4	203.9	185.1
87.0	32.35	33.85	70.09	72.68	78.28	52.18	55.93	46.94	48.66	41.75
90.0	9.262	9.143	30.77	30.66	30.43	11.57	11.38	11.54	11.29	11.41
93.0	12.10	11.94	33.84	33.68	33.38	14.54	14.33	14.53	14.28	14.42
96.0	15.39	15.27	37.38	37.14	36.84	17.95	17.76	17.94	17.72	17.86
99.0	19.22	19.04	41.42	41.15	40.74	21.89	21.63	21.90	21.62	21.81
102.0	23.43	23.21	45.88	45.55	45.10	26.23	25.92	26.25	25.93	26.18
105.0	27.94	27.71	50.70	50.25	49.78	30.87	30.57	30.89	30.59	30.83
108.0	32.74	32.52	55.77	55.23	54.75	35.77	35.48	35.76	35.51	35.72
111.0	37.65	37.45	60.97	60.36	59.86	40.84	40.55	40.82	40.56	40.77
114.0	42.62	42.39	66.21	65.53	65.03	45.96	45.63	45.91	45.63	45.85
117.0	47.55	47.31	71.40	70.71	70.17	51.10	50.73	50.95	50.67	50.85
120.0	52.42	52.15	76.50	75.75	75.22	56.10	55.71	55.91	55.60	55.82
123.0	57.11	56.78	81.40	80.68	80.12	61.00	60.56	60.74	60.38	60.56
126.0	61.61	61.34	86.14	85.46	84.87	65.75	65.25	65.38	65.01	65.14
129.0	65.96	65.70	90.75	90.03	89.50	70.27	69.83	69.84	69.52	69.53
132.0	70.11	69.86	95.10	94.38	93.85	74.58	74.15	74.13	73.76	73.75
135.0	74.08	73.86	99.26	98.53	98.04	78.69	78.27	78.16	77.85	77.76
138.0	77.86	77.67	103.3	102.4	102.0	82.59	82.19	81.99	81.71	81.58
141.0	81.46	81.24	107.0	106.1	105.7	86.27	85.84	85.61	85.28	85.15
144.0	84.79	84.57	110.6	109.6	109.2	89.74	89.27	88.99	88.68	88.50
147.0	87.97	87.78	114.0	113.0	112.6	93.03	92.58	92.22	91.93	91.67
150.0	91.29	91.10	117.2	116.3	115.8	96.27	95.82	95.37	95.10	94.80
153.0	94.57	94.42	120.4	119.5	119.0	99.37	98.96	98.41	98.14	97.76
156.0	97.69	97.54	123.4	122.6	122.0	102.4	102.0	101.4	101.1	100.7
159.0	100.7	100.5	126.3	125.5	124.9	105.2	104.9	104.1	103.9	103.4
162.0	103.6	103.4	129.1	128.3	127.8	108.0	107.6	106.8	106.5	106.1
165.0	106.5	106.3	131.7	130.9	130.5	110.6	110.1	109.4	109.1	108.6
168.0	109.2	109.1	134.2	133.4	133.0	112.9	112.6	111.7	111.4	110.9
171.0	111.8	111.6	136.4	135.6	135.3	115.2	114.7	113.8	113.6	113.0
174.0	114.0	113.9	138.3	137.5	137.2	117.2	116.7	115.7	115.4	114.8
177.0	115.5	115.5	139.9	139.1	138.9	118.9	118.3	117.3	117.1	116.3
180.0	116.2	116.2	140.8	139.8	139.7	119.7	119.3	118.1	117.9	117.2
G/C	300.0	315.0	330.0	345.0						
0.0	11283	11251	11225	11203						
3.0	11267	11234	11209	11186						
6.0	11219	11184	11163	11138						
9.0	11142	11107	11087	11061						
12.0	11038	11001	10984	10958						
15.0	10914	10876	10860	10832						
18.0	10759	10723	10708	10682						
21.0	10577	10541	10526	10502						
24.0	10367	10327	10318	10289						
27.0	10124	10083	10079	10047						
30.0	9850	9815	9807	9778						
33.0	9546	9501	9507	9468						
36.0	9204	9166	9169	9130						
39.0	8830	8784	8797	8760						
42.0	8420	8376	8388	8347						
45.0	7974	7935	7946	7913						
48.0	7486	7455	7465	7430						
51.0	6970	6929	6958	6914						
54.0	6405	6363	6398	6353						
57.0	5795	5768	5800	5762						
60.0	5150	5111	5170	5118						
63.0	4462	4435	4496	4468						
66.0	3697	3653	3730	3728						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: C

Test Date: 24 January 2022

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446

Humidity: 65.0%

Test Distance: 8.000m [K=1.0000]

Remarks:

Photometric Data Table [cd]

69.0	2942	2923	2967	2927
72.0	2223	2213	2257	2206
75.0	1587	1553	1596	1559
78.0	988.9	957.0	991.2	985.8
81.0	514.9	485.6	512.3	490.5
84.0	194.7	181.0	191.4	178.9
87.0	45.98	41.73	44.16	40.27
90.0	11.20	11.32	11.16	11.28
93.0	14.18	14.34	14.10	14.26
96.0	17.63	17.77	17.55	17.70
99.0	21.53	21.73	21.45	21.64
102.0	25.86	26.07	25.75	25.98
105.0	30.51	30.71	30.39	30.58
108.0	35.43	35.60	35.28	35.44
111.0	40.46	40.61	40.31	40.43
114.0	45.52	45.65	45.33	45.46
117.0	50.56	50.68	50.35	50.44
120.0	55.44	55.56	55.19	55.35
123.0	60.17	60.29	59.91	60.05
126.0	64.72	64.82	64.45	64.58
129.0	69.18	69.19	68.88	68.94
132.0	73.38	73.37	73.07	73.11
135.0	77.43	77.36	77.09	77.07
138.0	81.28	81.15	80.89	80.82
141.0	84.83	84.70	84.42	84.35
144.0	88.18	88.02	87.74	87.65
147.0	91.38	91.16	90.91	90.78
150.0	94.51	94.25	94.01	93.85
153.0	97.51	97.19	96.98	96.79
156.0	100.4	100.1	99.84	99.63
159.0	103.2	102.8	102.6	102.4
162.0	105.8	105.5	105.2	105.0
165.0	108.3	107.9	107.7	107.5
168.0	110.6	110.2	110.0	109.8
171.0	112.8	112.4	112.2	111.9
174.0	114.6	114.1	114.0	113.7
177.0	116.2	115.7	115.6	115.2
180.0	117.1	116.5	116.4	116.0

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:24 January 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: