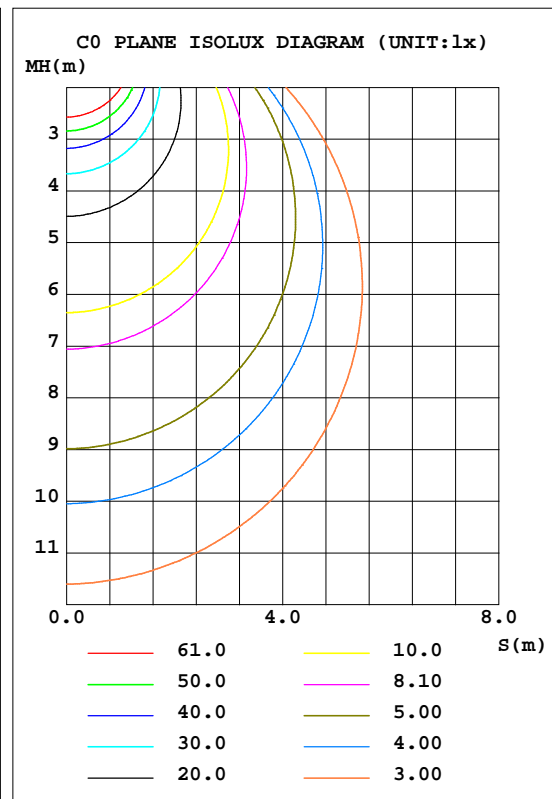
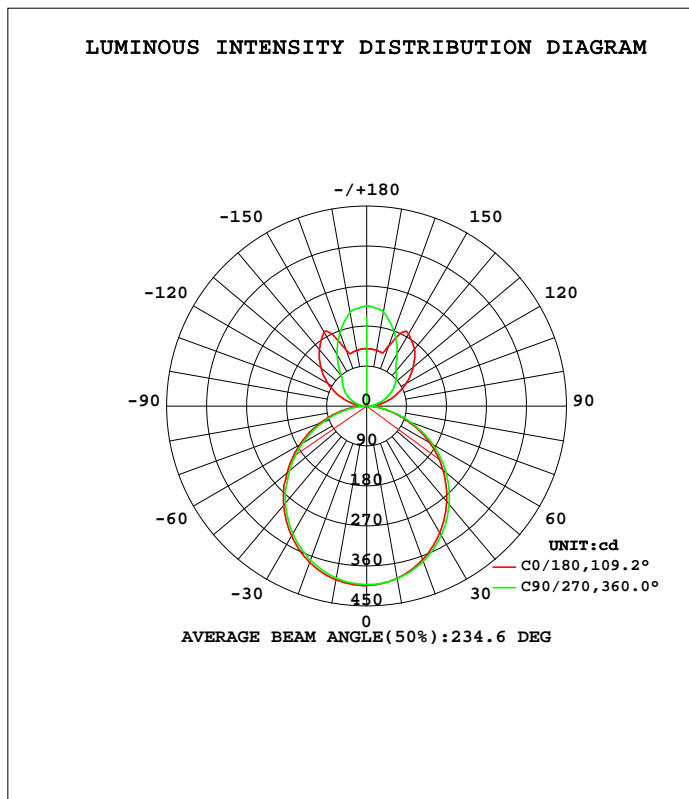


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.09 lm/W			
MODEL	3583-1M-WW 上下	I _{max} (cd)	404.1	S/MH(C0/180)	1.22
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1661.4	η UP, DN(C0-180)	16.9, 33.4
NOMINAL FLUX(lm)	1661.42	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	15.9, 33.8
LAMPS INSIDE	1	η up(%)	32.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.4	η down(%)	67.3	CIBSE SHR MAX	1.35



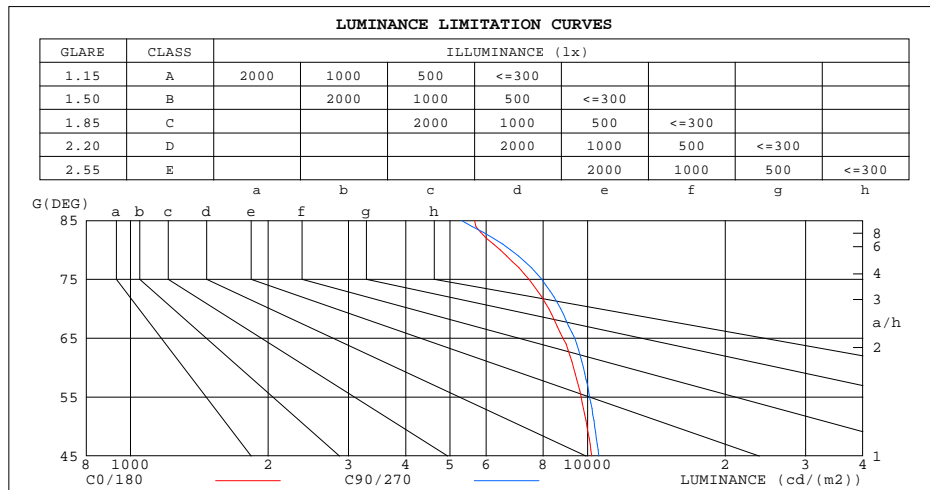
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	393.5	395.6	394.7	392.7	397.0	393.3	393.0	393.6	0- 10	38.02	38.02	2.29,2.29
20	368.0	372.8	371.9	368.3	374.7	369.5	369.3	370.2	10- 20	108.4	146.4	8.81,8.81
30	328.9	336.3	335.7	330.9	338.1	331.7	332.1	333.6	20- 30	162.9	309.2	18.6,18.6
40	280.1	289.7	288.8	283.6	291.0	285.3	284.7	286.8	30- 40	194.5	503.7	30.3,30.3
50	224.3	231.8	233.2	225.8	233.9	229.5	227.0	231.7	40- 50	199.6	703.3	42.3,42.3
60	163.0	171.1	171.4	165.3	174.4	168.5	166.7	170.7	50- 60	178.6	881.9	53.1,53.1
70	98.45	106.9	104.6	101.2	111.4	103.8	103.0	106.8	60- 70	135.4	1017	61.2,61.2
80	39.15	44.34	41.25	40.47	50.79	43.99	41.42	43.23	70- 80	77.13	1094	65.9,65.9
90	9.879	8.083	4.317	8.362	10.94	8.496	4.924	8.616	80- 90	23.01	1117	67.3,67.3
100	33.16	28.40	18.35	32.80	29.22	30.33	15.86	26.26	90-100	16.53	1134	68.3,68.3
110	67.29	57.81	41.37	68.47	63.60	65.21	34.10	53.39	100-110	44.07	1178	70.9,70.9
120	103.0	79.88	64.28	105.0	100.1	101.7	52.66	68.26	110-120	69.94	1248	75.1,75.1
130	136.9	89.82	85.45	138.2	134.6	135.3	69.78	74.61	120-130	86.54	1335	80.3,80.3
140	167.4	102.4	104.0	168.8	165.9	164.7	89.36	84.16	130-140	92.22	1427	85.9,85.9
150	188.1	115.6	138.1	194.7	192.2	190.2	133.5	100.1	140-150	89.62	1516	91.3,91.3
160	142.7	149.3	179.8	214.0	133.6	210.2	176.4	149.2	150-160	76.04	1592	95.8,95.8
170	128.0	195.2	216.0	223.3	127.7	221.8	214.8	196.4	160-170	50.41	1643	98.9,98.9
180	129.4	223.5	225.9	223.0	129.6	223.2	226.1	222.9	170-180	18.63	1661	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



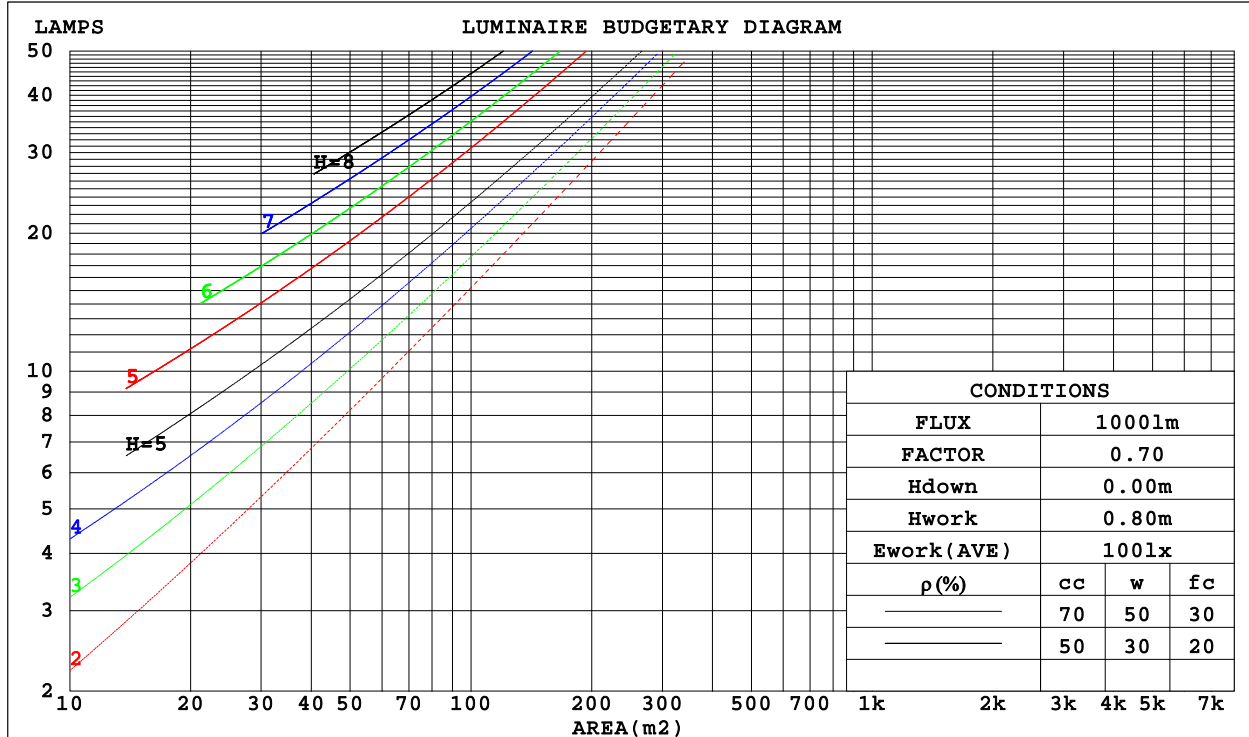
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.11	1.11	1.11	1.05	1.05	1.05	.93	.93	.93	.82	.82	.82	.72	.72	.72	.67
1.0	.97	.93	.89	.91	.88	.85	.81	.79	.76	.72	.70	.68	.63	.62	.60	.56
2.0	.84	.78	.73	.80	.74	.69	.71	.67	.63	.63	.60	.57	.56	.53	.51	.47
3.0	.74	.66	.60	.70	.63	.58	.63	.57	.53	.56	.51	.48	.49	.46	.43	.39
4.0	.66	.57	.51	.62	.55	.49	.56	.49	.45	.49	.45	.41	.44	.40	.37	.34
5.0	.58	.50	.44	.55	.48	.42	.50	.43	.39	.44	.39	.35	.39	.35	.32	.29
6.0	.52	.44	.38	.50	.42	.37	.45	.38	.34	.40	.35	.31	.36	.31	.28	.25
7.0	.47	.39	.33	.45	.37	.32	.41	.34	.30	.36	.31	.27	.33	.28	.25	.23
8.0	.43	.35	.30	.41	.34	.28	.37	.31	.26	.33	.28	.24	.30	.26	.22	.20
9.0	.39	.32	.26	.38	.30	.25	.34	.28	.24	.31	.26	.22	.28	.23	.20	.18
10.0	.36	.29	.24	.35	.28	.23	.31	.25	.21	.28	.23	.20	.26	.21	.18	.16



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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	.293	.166	.053	.276	.157	.050	.244	.140	.045	.215	.124	.040	.188	.109	.035	
2.0	.273	.150	.046	.258	.142	.044	.229	.127	.040	.203	.114	.036	.178	.101	.032	
3.0	.253	.134	.040	.239	.128	.038	.213	.115	.035	.188	.103	.032	.166	.092	.028	
4.0	.233	.121	.036	.221	.115	.034	.197	.104	.031	.175	.094	.028	.154	.084	.025	
5.0	.216	.110	.032	.204	.105	.031	.183	.095	.028	.162	.086	.025	.143	.076	.023	
6.0	.201	.101	.029	.190	.096	.028	.170	.087	.025	.151	.078	.023	.133	.070	.021	
7.0	.187	.092	.026	.177	.088	.025	.159	.080	.023	.141	.072	.021	.125	.065	.019	
8.0	.175	.085	.024	.166	.082	.023	.149	.074	.021	.132	.067	.019	.117	.060	.018	
9.0	.164	.079	.022	.156	.076	.021	.140	.069	.020	.125	.062	.018	.110	.056	.016	
10.0	.154	.074	.021	.147	.071	.020	.132	.064	.018	.118	.058	.017	.104	.052	.015	

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	.440	.440	.440	.376	.376	.376	.257	.257	.257	.147	.147	.147	.047	.047	.047	
1.0	.431	.408	.387	.368	.350	.333	.252	.241	.230	.145	.139	.134	.046	.045	.043	
2.0	.423	.385	.353	.362	.332	.306	.248	.229	.213	.143	.133	.125	.046	.043	.041	
3.0	.416	.369	.331	.356	.318	.287	.245	.221	.202	.141	.129	.119	.045	.042	.039	
4.0	.409	.356	.316	.351	.308	.275	.241	.215	.194	.139	.126	.115	.045	.041	.038	
5.0	.402	.347	.306	.345	.300	.266	.238	.210	.188	.138	.123	.111	.044	.040	.037	
6.0	.395	.339	.298	.340	.293	.260	.234	.205	.184	.136	.121	.109	.044	.040	.036	
7.0	.389	.332	.293	.335	.288	.255	.231	.202	.181	.134	.119	.108	.043	.039	.036	
8.0	.383	.327	.289	.330	.284	.252	.228	.199	.179	.133	.117	.106	.043	.039	.035	
9.0	.377	.322	.285	.325	.280	.249	.225	.197	.177	.131	.116	.105	.042	.038	.035	
10.0	.372	.318	.283	.321	.277	.247	.223	.195	.175	.130	.115	.105	.042	.038	.035	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm										
NAME:					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:			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	18.8	19.9	19.5	20.6	21.4	19.0	20.1	19.6	20.7	21.5
3H	20.1	21.1	20.8	21.8	22.7	20.4	21.4	21.1	22.1	22.9
4H	20.6	21.6	21.4	22.3	23.2	20.9	21.8	21.6	22.5	23.4
6H	21.0	21.8	21.7	22.6	23.5	21.2	22.1	22.0	22.8	23.7
8H	21.0	21.9	21.8	22.6	23.5	21.3	22.1	22.0	22.9	23.8
12H	21.1	21.9	21.8	22.6	23.5	21.3	22.1	22.1	22.9	23.8
4H 2H	19.3	20.2	20.0	21.0	21.8	19.4	20.4	20.2	21.1	22.0
3H	20.8	21.6	21.6	22.4	23.3	21.0	21.8	21.8	22.6	23.5
4H	21.4	22.2	22.2	22.9	23.9	21.6	22.4	22.4	23.1	24.1
6H	21.9	22.5	22.7	23.3	24.3	22.1	22.7	22.9	23.5	24.5
8H	22.0	22.6	22.8	23.4	24.4	22.2	22.8	23.0	23.6	24.6
12H	22.0	22.6	22.9	23.4	24.4	22.3	22.8	23.1	23.6	24.6
8H 4H	21.6	22.2	22.4	23.0	24.0	21.8	22.4	22.6	23.2	24.2
6H	22.2	22.7	23.0	23.5	24.5	22.4	22.9	23.2	23.7	24.7
8H	22.4	22.8	23.2	23.7	24.7	22.6	23.0	23.4	23.9	24.9
12H	22.5	22.9	23.4	23.7	24.8	22.7	23.0	23.6	23.9	25.0
12H 4H	21.6	22.1	22.4	23.0	24.0	21.8	22.3	22.6	23.1	24.2
6H	22.2	22.6	23.1	23.5	24.5	22.4	22.8	23.3	23.7	24.7
8H	22.4	22.8	23.3	23.7	24.8	22.6	23.0	23.5	23.9	24.9
Variations with the observer position at spacings:										
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 Corrected 1661 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

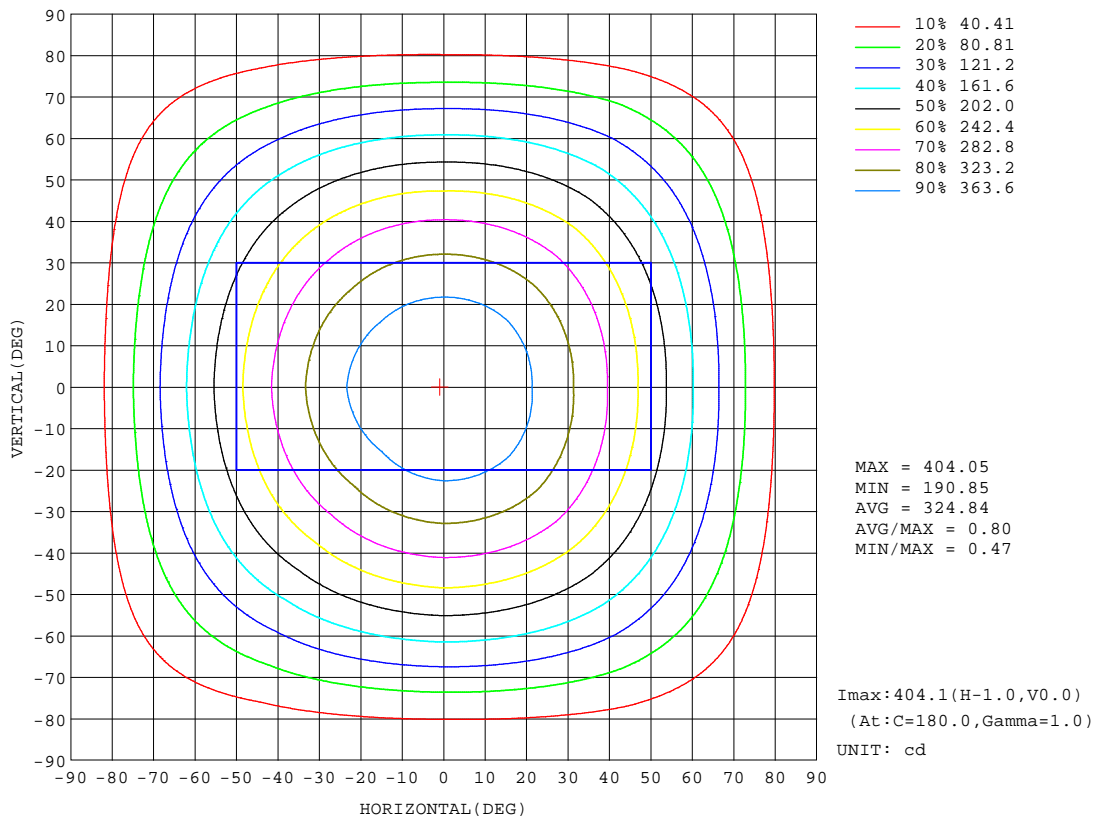
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	49	37	31	47	36	30	44	35	29	22
0.80	58	47	40	56	45	39	51	42	37	28
1.00	66	55	48	63	53	46	58	51	44	34
1.25	73	62	55	70	60	53	63	56	50	38
1.50	78	68	61	74	65	59	67	60	55	42
2.00	85	76	69	81	73	67	73	67	62	47
2.50	90	81	75	85	78	72	76	71	66	50
3.00	93	86	80	88	82	76	79	74	70	53
4.00	97	91	86	92	87	82	82	78	75	56
5.00	100	95	90	94	90	86	84	81	78	58
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



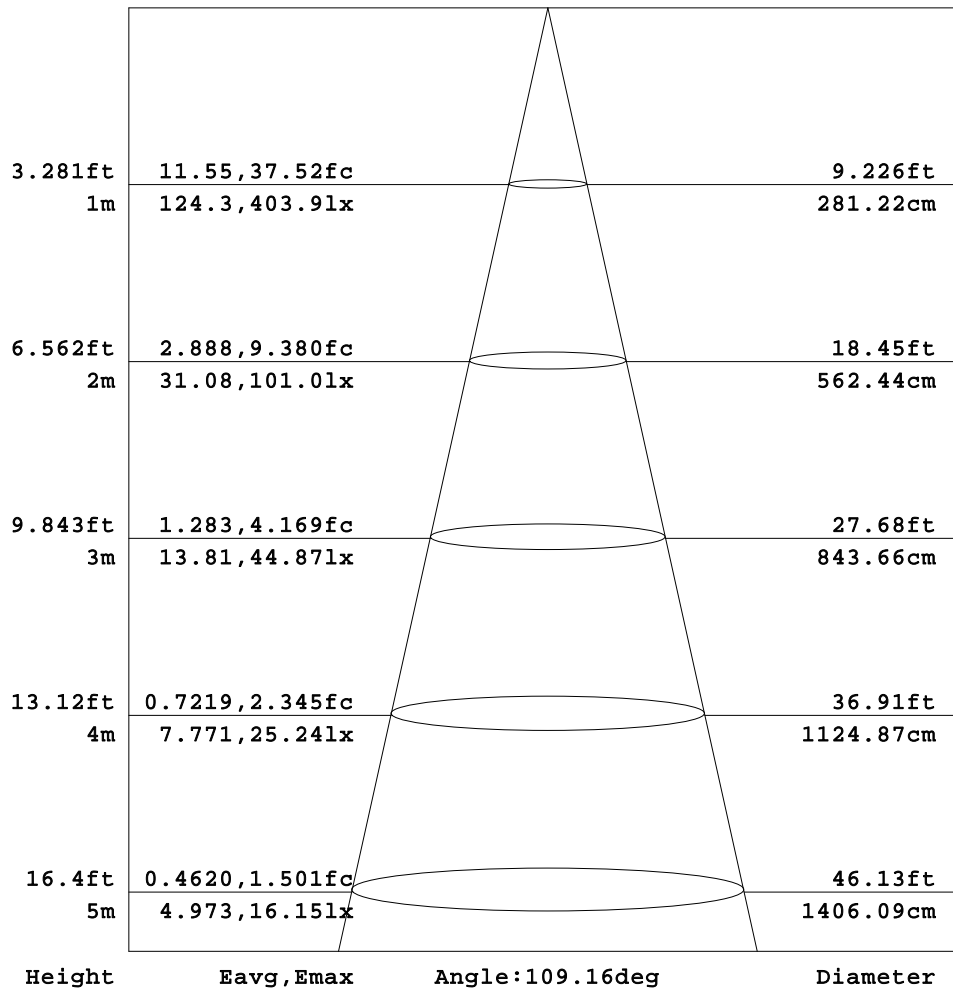
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Flux out:796.7 lm



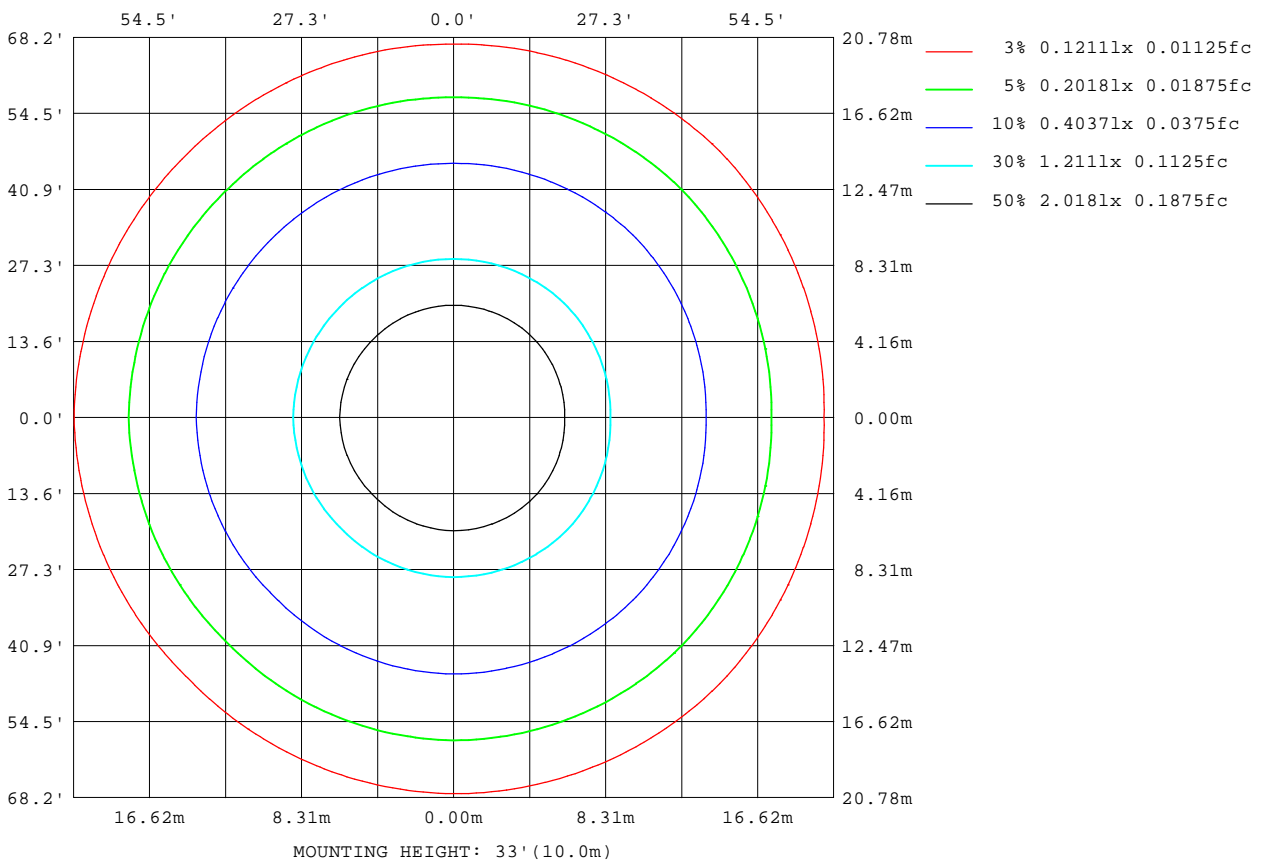
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

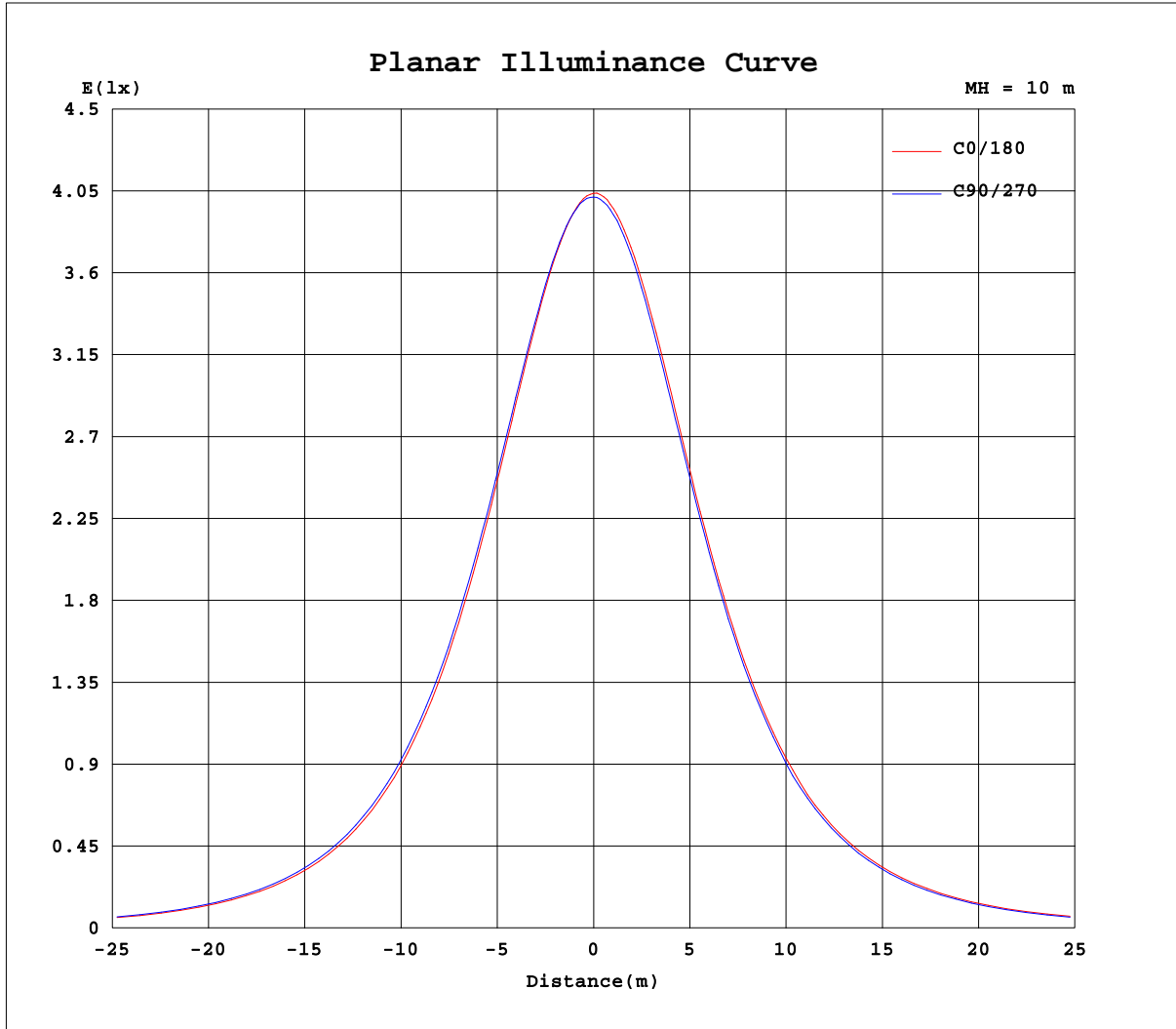
Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.1360A P:29.10W PF:0.9700 Lamp Flux:1661.42x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	404	403	402	401	404	403	402	401											
5	401	401	400	399	402	400	399	399											
10	393	396	395	393	397	393	393	394											
15	382	386	385	382	388	383	383	384											
20	368	373	372	368	375	370	369	370											
25	350	356	355	351	358	352	352	353											
30	329	336	336	331	338	332	332	334											
35	306	314	313	308	316	310	309	311											
40	280	290	289	284	291	285	285	287											
45	253	263	262	255	265	258	256	260											
50	224	232	233	226	234	229	227	232											
55	194	202	203	196	205	200	198	202											
60	163	171	171	165	174	168	167	171											
65	131	139	139	133	143	137	135	139											
70	98.5	107	105	101	111	104	103	107											
75	67.4	74.5	71.9	69.7	80.2	72.8	71.3	75.3											
80	39.1	44.3	41.2	40.5	50.8	44.0	41.4	43.2											
85	17.3	19.8	16.2	17.2	25.6	20.1	16.8	18.7											
90	9.88	8.08	4.32	8.36	10.9	8.50	4.92	8.62											
95	18.5	14.4	9.16	17.9	15.5	16.2	8.69	13.1											
100	33.2	28.4	18.3	32.8	29.2	30.3	15.9	26.3											
105	49.6	45.2	29.7	50.2	45.7	47.2	24.7	42.5											
110	67.3	57.8	41.4	68.5	63.6	65.2	34.1	53.4											
115	85.2	72.2	53.0	86.9	82.0	83.6	43.5	59.9											
120	103	79.9	64.3	105	100	102	52.7	68.3											
125	120	86.3	75.2	122	118	119	61.5	73.2											
130	137	89.8	85.4	138	135	135	69.8	74.6											
135	153	96.2	95.1	154	151	150	77.6	79.5											
140	167	102	104	169	166	165	89.4	84.2											
145	178	109	116	183	180	178	111	88.9											
150	188	116	138	195	192	190	133	100											
155	180	125	159	205	174	201	155	125											
160	143	149	180	214	134	210	176	149											
165	126	173	199	220	125	218	196	173											
170	128	195	216	223	128	222	215	196											
175	129	216	222	224	129	223	222	217											
180	129	223	226	223	130	223	226	223											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-07-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.250m [K=1.0000]
 Remarks: