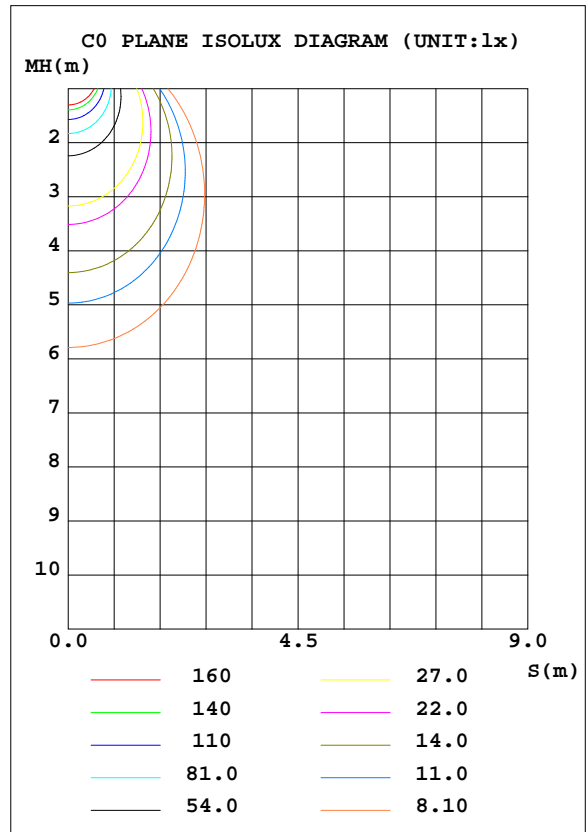
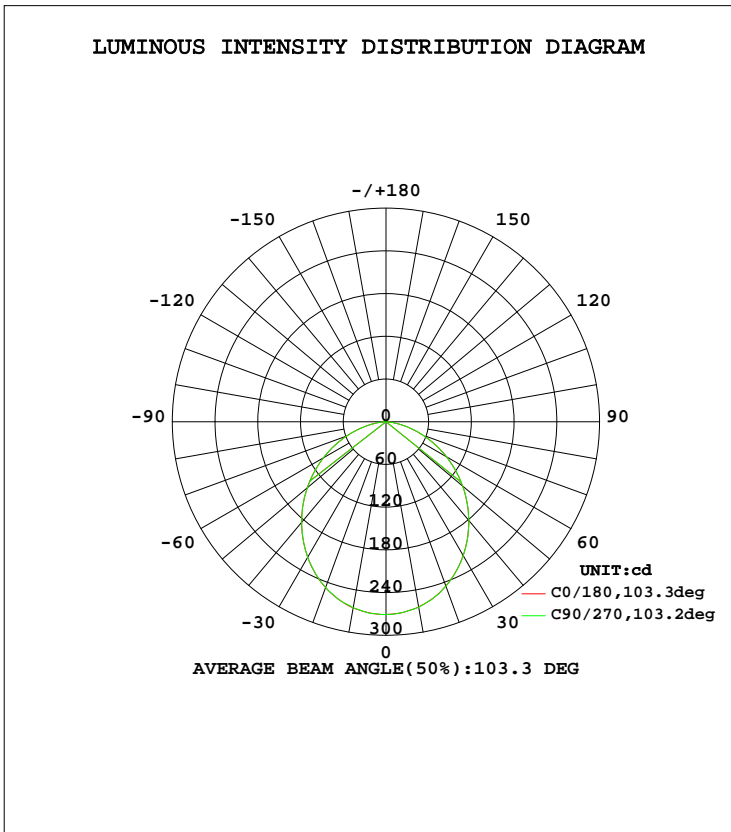


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.651x1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.32 lm/W			
MODEL	ID7W-CC	Imax(cd)	271.0	S/MH(C0/180)	1.20
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	689.65	η UP, DN(C0-180)	0.0, 49.5
NOMINAL FLUX(lm)	689.651	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.7	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [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	264.2	264.2	264.6	264.1	265.5	265.1	265.6	264.5	0- 10	25.55	25.55	3.7,3.7
20	245.7	246.0	246.0	246.4	247.8	247.6	247.8	246.9	10- 20	72.48	98.03	14.2,14.2
30	216.7	217.1	217.1	218.1	219.9	219.0	219.8	218.5	20- 30	107.6	205.6	29.8,29.8
40	180.8	181.3	181.1	182.3	184.4	183.6	184.1	182.7	30- 40	125.8	331.3	48,48
50	140.4	141.0	140.5	141.9	144.5	143.6	144.0	142.7	40- 50	125.6	456.9	66.3,66.3
60	97.86	98.23	97.85	99.10	101.7	101.2	101.5	100.3	50- 60	108.3	565.3	82,82
70	55.30	55.55	55.17	56.51	58.98	58.43	58.62	57.53	60- 70	77.36	642.6	93.2,93.2
80	17.52	17.63	17.53	18.58	20.64	20.21	20.16	19.29	70- 80	39.29	681.9	98.9,98.9
90	0.2523	0.2458	0.2324	0.2398	0.3714	0.4144	0.3239	0.2398	80- 90	7.745	689.7	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

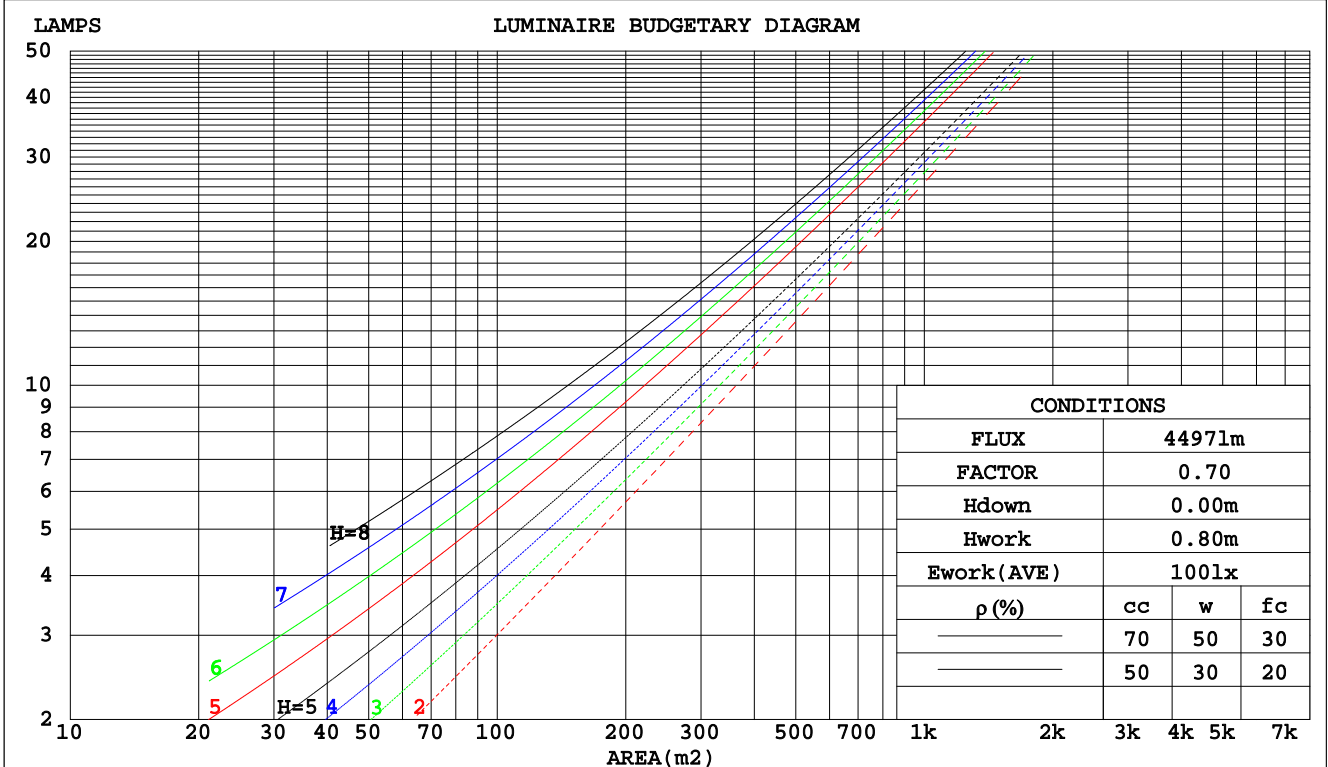
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.65lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																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	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.81	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.66	.77	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.47	.45
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.651x1 lm								
NAME: ID7W-CC			TYPE:7W			WEIGHT:		
DIM.:			SPEC.:3000K			SERIAL No.:		
MFR.: EVERFINE			SUR.:0.0305			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	.291	.165	.052	.284	.162	.051	.270	.155	.050	.258	.149	.048	.247	.143	.046	
2.0	.277	.152	.047	.271	.149	.046	.260	.144	.045	.249	.140	.044	.239	.135	.043	
3.0	.259	.138	.041	.254	.136	.041	.243	.132	.040	.234	.128	.039	.225	.125	.039	
4.0	.240	.125	.037	.236	.123	.036	.227	.120	.036	.218	.117	.035	.210	.114	.035	
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.204	.107	.032	.197	.105	.032	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.168	.085	.024	.162	.083	.024	
9.0	.171	.082	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.022	
10.0	.161	.077	.021	.158	.076	.021	.154	.075	.021	.149	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.011	
3.0	.162	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.127	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.65lx1 lm										
NAME: ID7W-CC					TYPE:7W			WEIGHT:		
DIM.:					SPEC.:3000K			SERIAL No.:		
MFR.: EVERFINE					SUR.:0.0305			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	27.6	29.0	27.8	29.2	29.4	27.5	29.0	27.8	29.2	29.4
3H	28.8	30.2	29.1	30.4	30.6	28.8	30.1	29.1	30.4	30.6
4H	29.2	30.5	29.5	30.8	31.0	29.2	30.5	29.5	30.7	31.0
6H	29.4	30.7	29.8	30.9	31.2	29.4	30.6	29.8	30.9	31.2
8H	29.5	30.6	29.8	30.9	31.2	29.4	30.6	29.8	30.9	31.2
12H	29.5	30.6	29.8	30.9	31.2	29.4	30.6	29.8	30.9	31.2
4H 2H	28.1	29.4	28.4	29.6	29.9	28.1	29.4	28.4	29.6	29.9
3H	29.5	30.6	29.9	30.9	31.2	29.5	30.6	29.8	30.9	31.2
4H	30.0	31.1	30.4	31.4	31.7	30.0	31.0	30.4	31.4	31.7
6H	30.3	31.2	30.7	31.6	32.0	30.3	31.2	30.7	31.6	31.9
8H	30.4	31.2	30.8	31.6	32.0	30.4	31.2	30.8	31.6	32.0
12H	30.4	31.2	30.8	31.6	32.0	30.4	31.2	30.8	31.5	31.9
8H 4H	30.2	31.0	30.6	31.4	31.8	30.2	31.0	30.6	31.4	31.8
6H	30.6	31.3	31.0	31.7	32.1	30.6	31.3	31.0	31.7	32.1
8H	30.7	31.3	31.2	31.7	32.2	30.7	31.3	31.1	31.7	32.2
12H	30.7	31.3	31.2	31.7	32.2	30.7	31.2	31.2	31.7	32.2
12H 4H	30.2	31.0	30.6	31.3	31.7	30.2	30.9	30.6	31.3	31.7
6H	30.6	31.2	31.1	31.7	32.1	30.6	31.2	31.0	31.6	32.1
8H	30.7	31.3	31.2	31.7	32.2	30.7	31.2	31.2	31.7	32.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 689.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.3)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.65lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

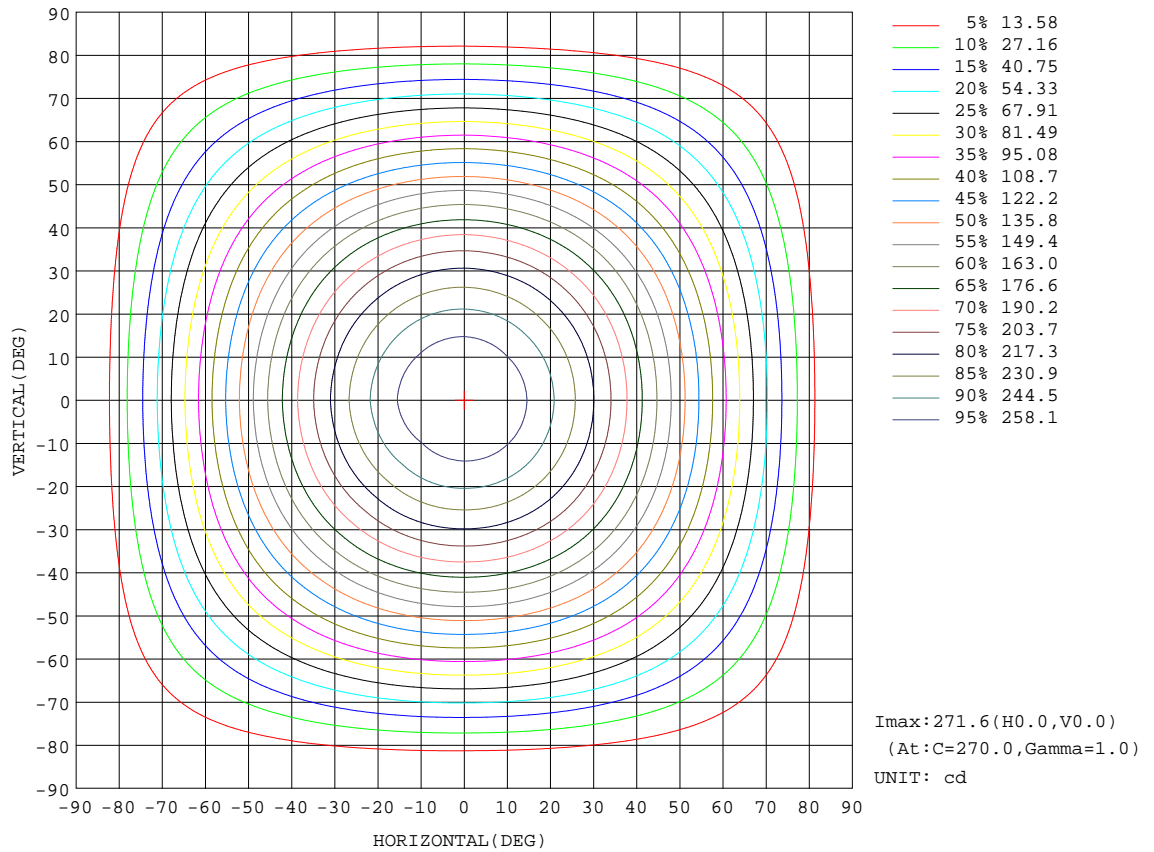
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	59	48	41	58	47	41	35
0.80	70	58	51	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	59	53
1.25	85	75	68	83	74	68	81	73	67	60
1.50	90	80	74	88	80	73	85	78	72	65
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	100	103	99	96	88
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:2020-07-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.65lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

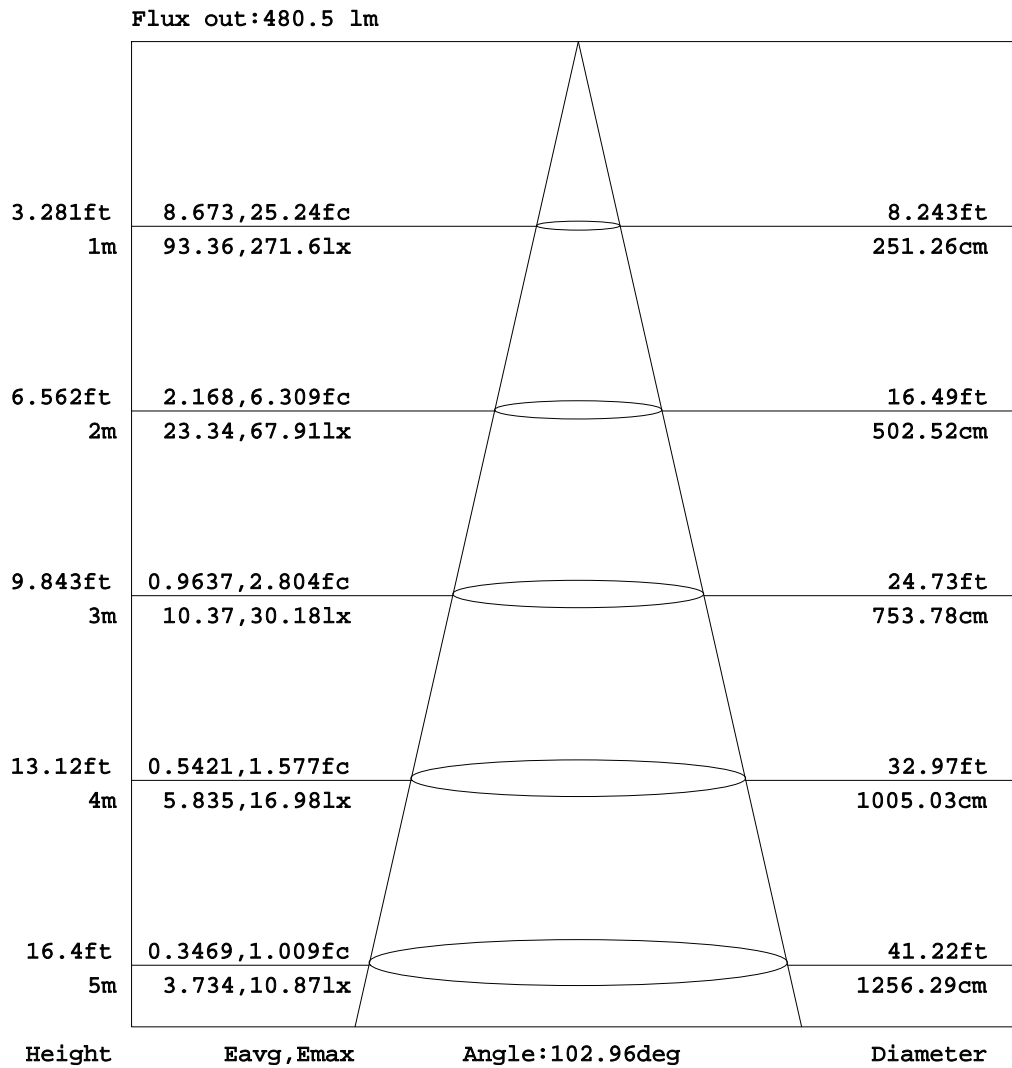


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 10.237m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.65lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:



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

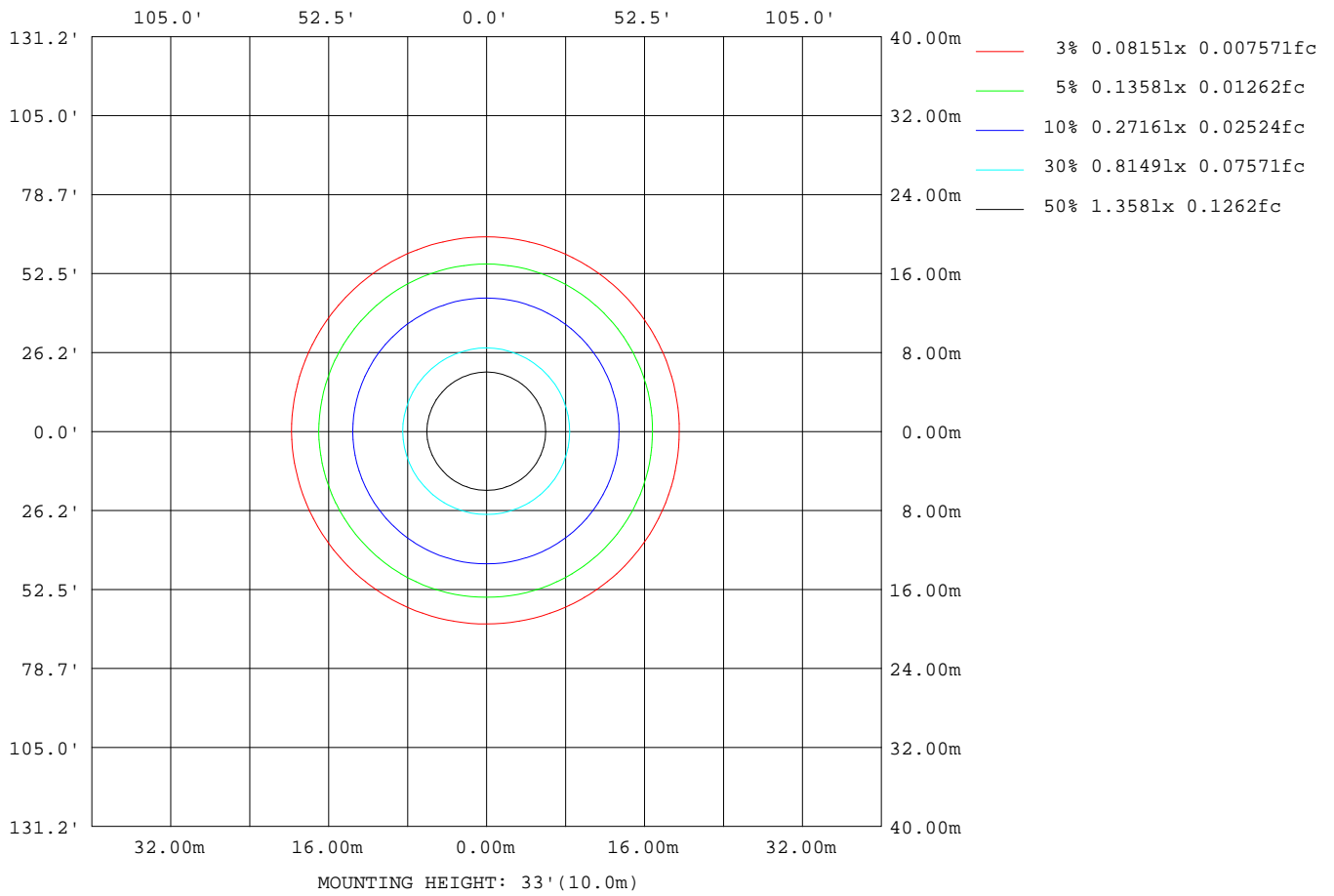
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:



**ISOLUX DIAGRAM**

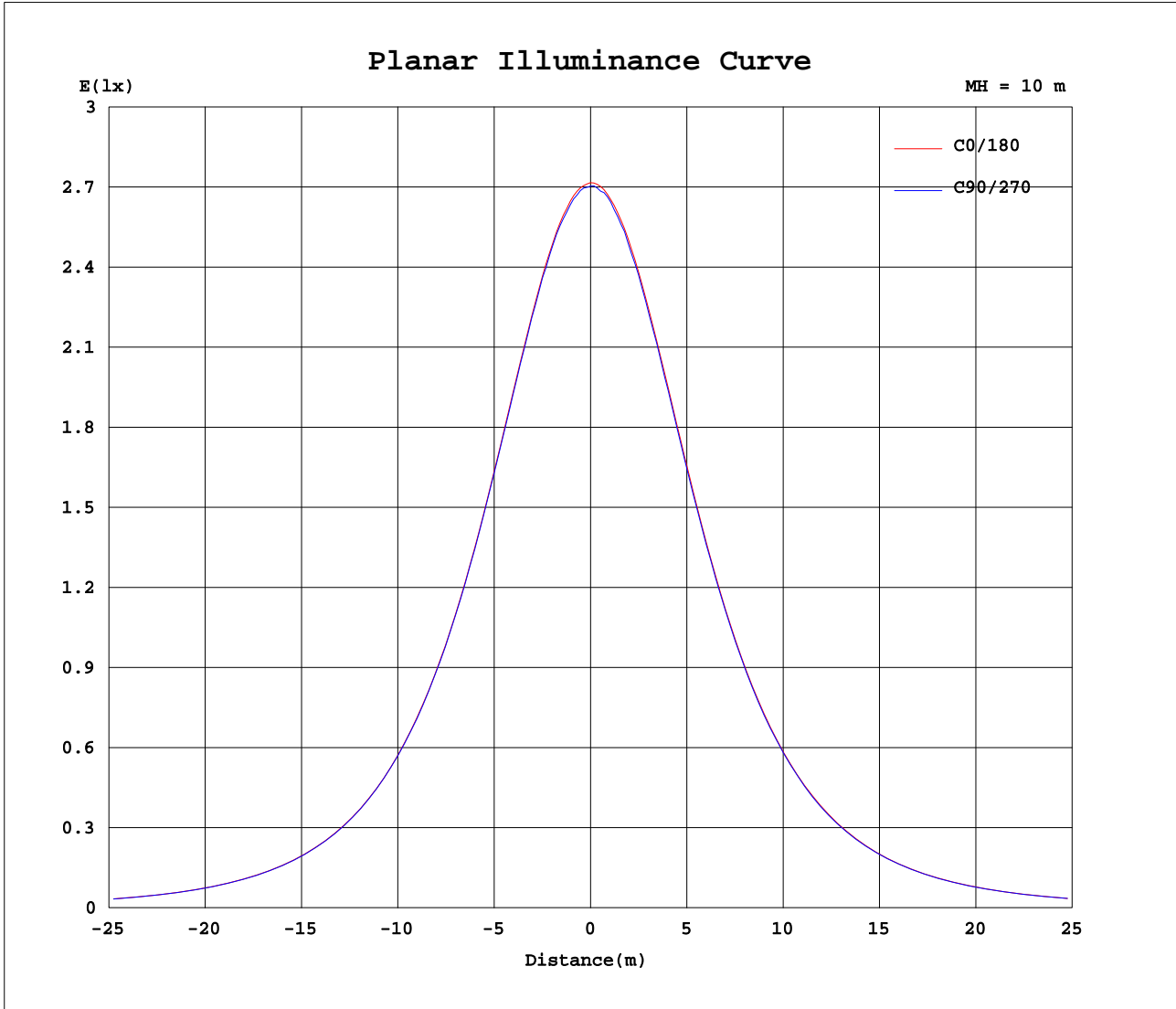
Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.651x1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-07-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [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: 2020-07-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 10.237m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.8V I:0.0320A P:7.160W PF:0.9300 Lamp Flux:689.651x1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	271	271	271	271	271	271	271	271											
5	269	269	269	269	269	270	270	269											
10	264	264	265	264	265	265	266	265											
15	256	257	257	257	258	258	258	257											
20	246	246	246	246	248	248	248	247											
25	232	233	232	233	235	234	235	234											
30	217	217	217	218	220	219	220	219											
35	200	200	200	201	203	202	203	201											
40	181	181	181	182	184	184	184	183											
45	161	162	161	162	165	164	165	163											
50	140	141	141	142	144	144	144	143											
55	119	120	119	120	123	123	123	122											
60	97.9	98.2	97.9	99.1	102	101	102	100											
65	76.4	76.7	76.3	77.7	80.1	79.6	80.0	78.5											
70	55.3	55.5	55.2	56.5	59.0	58.4	58.6	57.5											
75	35.3	35.4	35.3	36.5	38.9	38.4	38.5	37.2											
80	17.5	17.6	17.5	18.6	20.6	20.2	20.2	19.3											
85	4.91	4.92	4.96	5.43	6.52	6.04	6.27	5.53											
90	0.25	0.25	0.23	0.24	0.37	0.41	0.32	0.24											

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 45.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Temperature:25.3DEG	Humidity:65.0%
Operators:DAMIN	Test Distance:10.237m [K=1.0000]
Test Date:2020-07-20	Remarks: