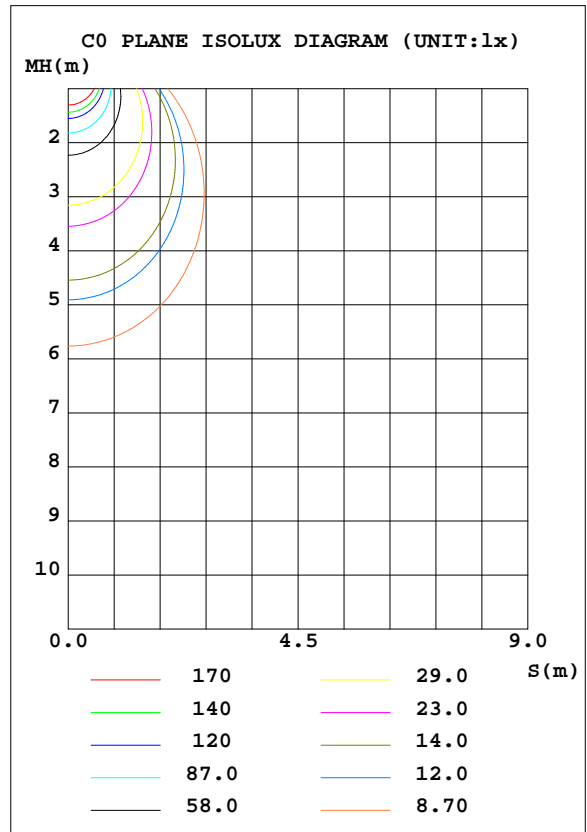
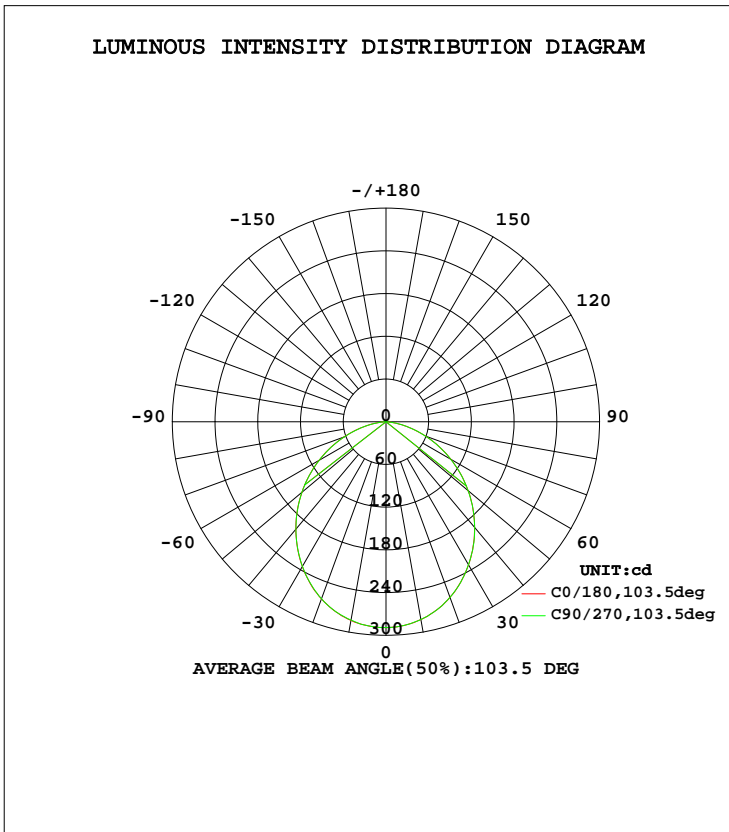


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.8V I:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.62 lm/W			
MODEL	ID7W-CC	I _{max} (cd)	289.2	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)	737.20	η UP, DN(C0-180)	0.0, 49.5
NOMINAL FLUX(lm)	737.201	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)	240.8	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	Φ lum,lamp
10	282.2	282.2	282.1	282.3	283.3	282.9	282.9	282.3	0- 10	27.28	27.28	3.7,3.7
20	262.4	263.0	262.6	263.2	264.9	264.1	264.7	263.5	10- 20	77.41	104.7	14.2,14.2
30	231.9	232.2	231.9	232.8	234.9	234.0	234.8	233.3	20- 30	114.9	219.6	29.8,29.8
40	193.7	194.3	193.7	194.7	197.1	196.3	196.8	195.6	30- 40	134.4	354.0	48,48
50	150.7	151.1	150.7	151.8	154.3	153.4	154.1	152.4	40- 50	134.4	488.4	66.2,66.2
60	105.0	105.5	104.8	106.1	108.7	107.9	108.4	107.1	50- 60	115.9	604.3	82,82
70	59.36	59.61	59.21	60.48	62.93	62.21	62.58	61.43	60- 70	82.77	687.1	93.2,93.2
80	18.70	18.92	18.68	19.77	21.77	21.31	21.36	20.35	70- 80	41.92	729.0	98.9,98.9
90	0.2674	0.2952	0.2602	0.2460	0.3448	0.3866	0.3446	0.2460	80- 90	8.213	737.2	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		

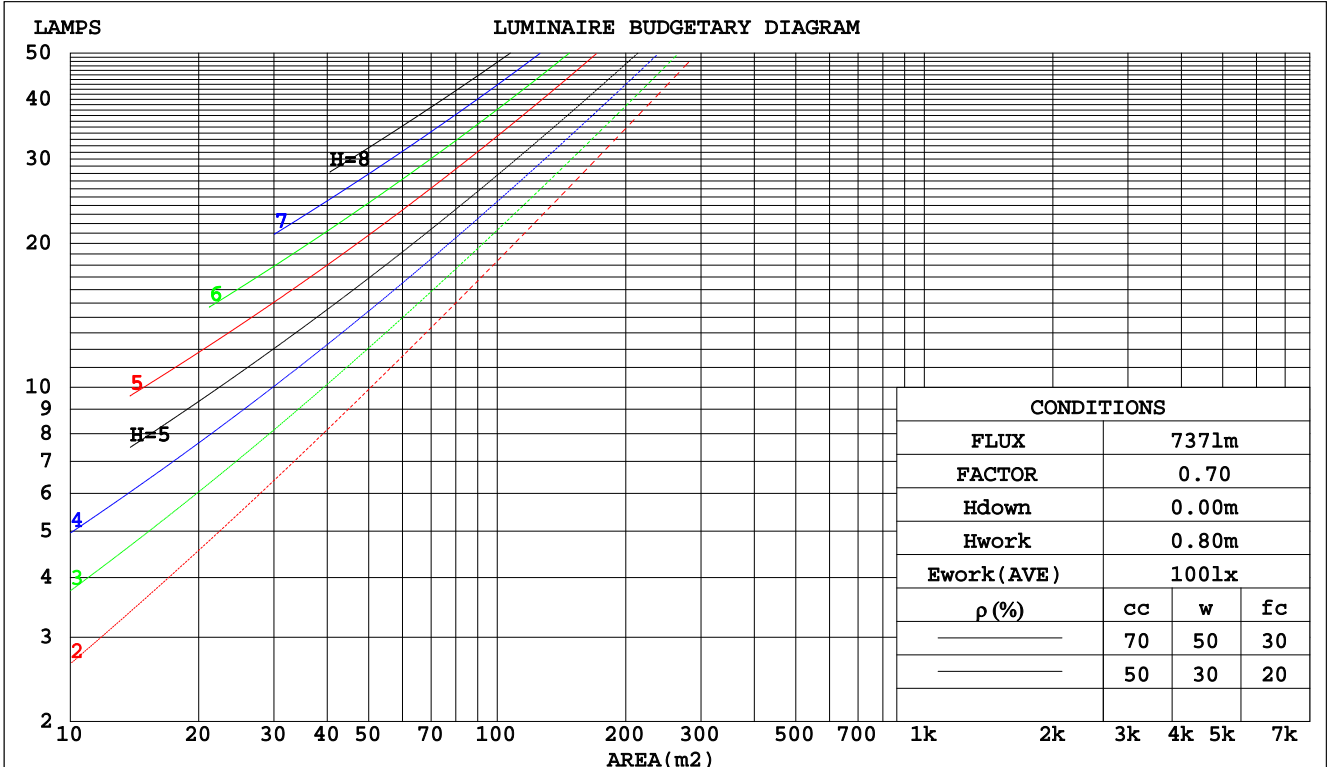
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

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:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	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	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	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.95	.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:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.201x1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	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	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.023	
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:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm										
NAME: ID7W-CC					TYPE:7W			WEIGHT:		
DIM.:					SPEC.:4000K			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	27.8	29.3	28.1	29.5	29.7	27.8	29.3	28.1	29.5	29.7
3H	29.0	30.4	29.3	30.6	30.9	29.0	30.4	29.3	30.6	30.9
4H	29.5	30.8	29.8	31.0	31.3	29.5	30.8	29.8	31.0	31.3
6H	29.7	30.9	30.0	31.2	31.4	29.7	30.9	30.0	31.2	31.4
8H	29.7	30.9	30.0	31.2	31.5	29.7	30.9	30.0	31.2	31.4
12H	29.7	30.8	30.0	31.1	31.4	29.7	30.8	30.0	31.1	31.4
4H 2H	28.3	29.6	28.6	29.9	30.1	28.3	29.6	28.6	29.9	30.1
3H	29.7	30.9	30.1	31.2	31.5	29.7	30.9	30.1	31.2	31.5
4H	30.3	31.3	30.6	31.6	31.9	30.3	31.3	30.6	31.6	31.9
6H	30.6	31.5	31.0	31.8	32.2	30.6	31.5	31.0	31.8	32.2
8H	30.6	31.5	31.0	31.8	32.2	30.6	31.5	31.0	31.8	32.2
12H	30.6	31.4	31.1	31.8	32.2	30.6	31.4	31.1	31.8	32.2
8H 4H	30.4	31.3	30.9	31.7	32.0	30.4	31.3	30.8	31.6	32.0
6H	30.8	31.5	31.3	31.9	32.4	30.8	31.5	31.3	31.9	32.4
8H	30.9	31.6	31.4	32.0	32.4	30.9	31.6	31.4	32.0	32.4
12H	31.0	31.5	31.4	31.9	32.4	31.0	31.5	31.4	31.9	32.4
12H 4H	30.4	31.2	30.9	31.6	32.0	30.4	31.2	30.8	31.6	32.0
6H	30.9	31.5	31.3	31.9	32.3	30.8	31.5	31.3	31.9	32.3
8H	31.0	31.5	31.4	31.9	32.4	31.0	31.5	31.4	31.9	32.4
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 737.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.1)

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:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

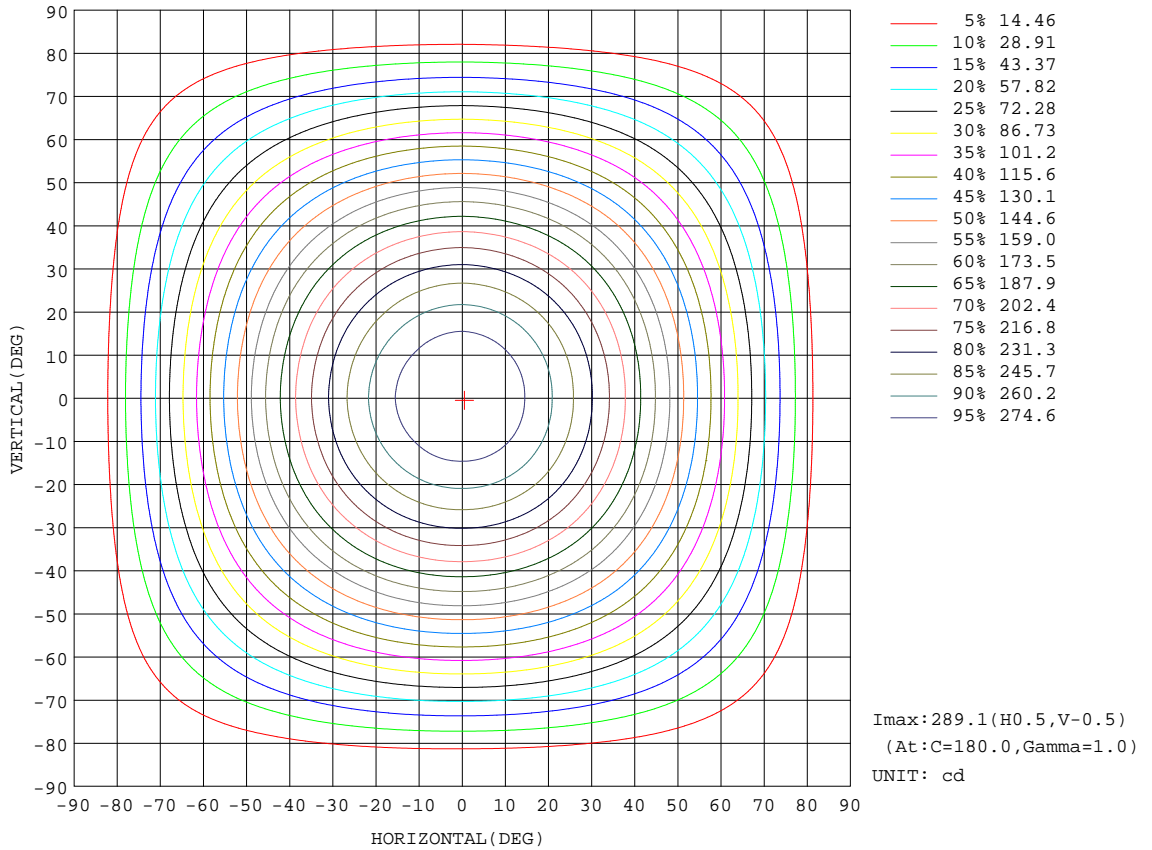
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	59	48	41	58	47	41	35
0.80	70	58	51	68	58	51	67	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

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:

ISOCANDELA DIAGRAM

Test:U:240.8V I:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:

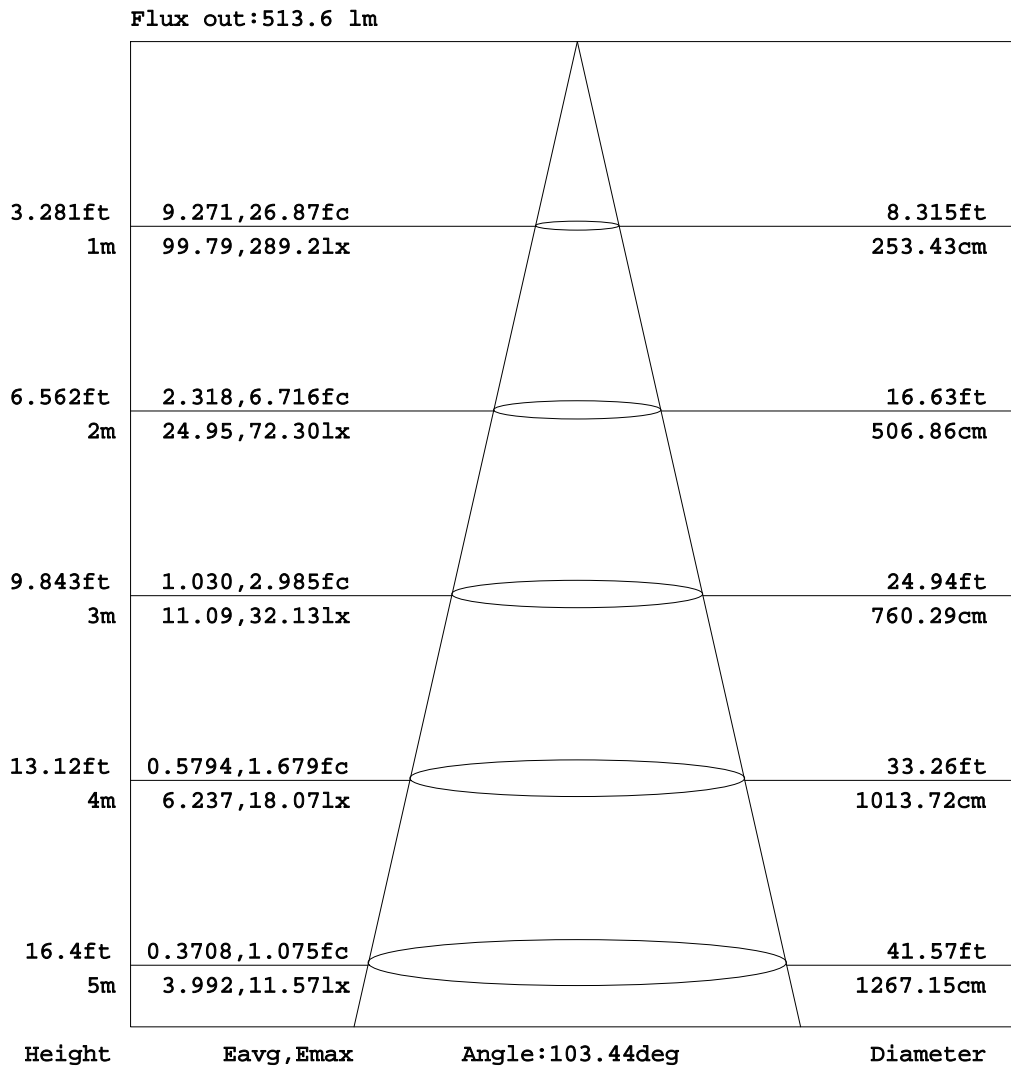


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-07-20

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:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:



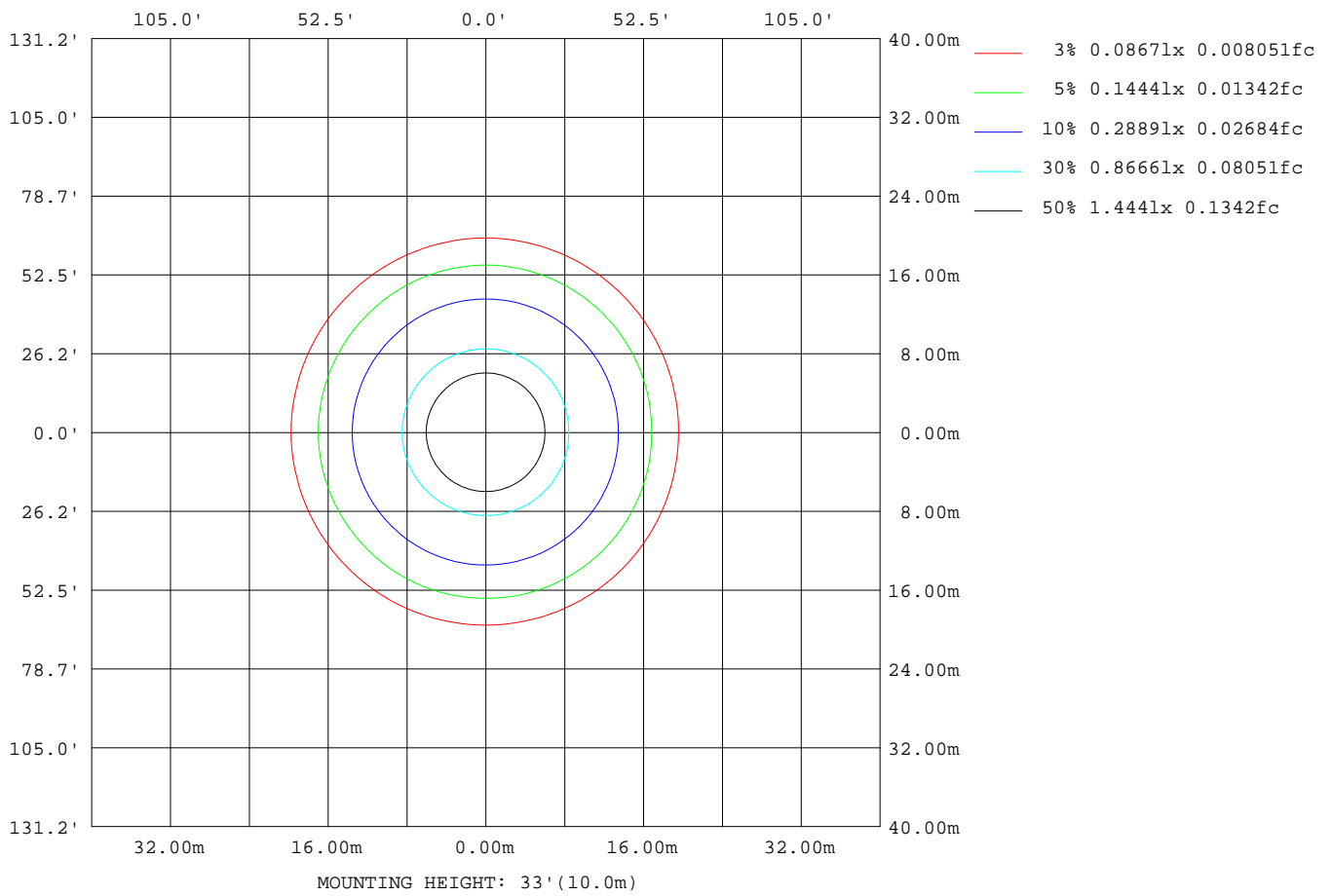
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

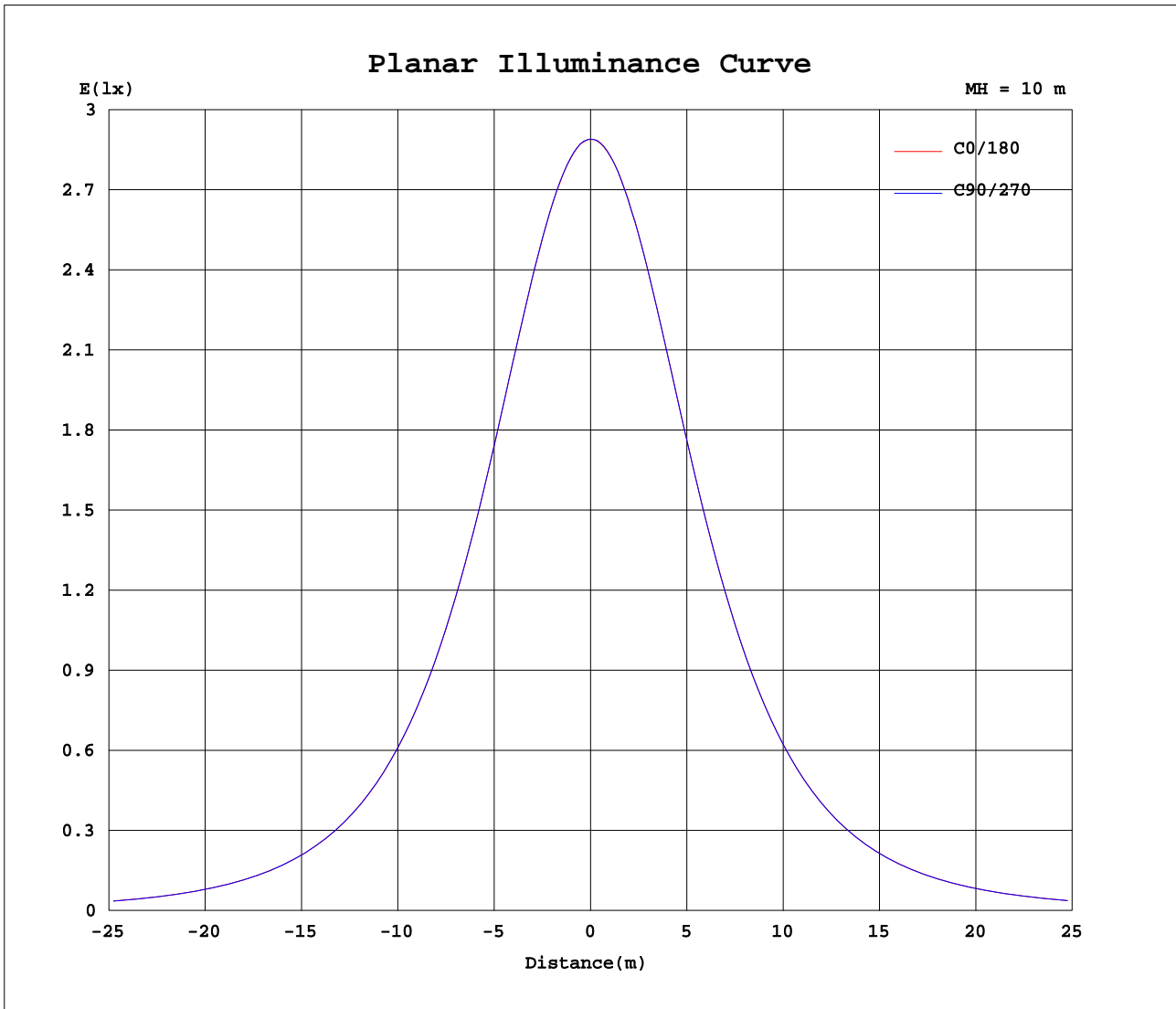
Test:U:240.8V I:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.20lx1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.0305	PROTECTION ANGLE:



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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.8V I:0.0310A P:6.980W PF:0.9270 Lamp Flux:737.201x1 lm		
NAME: ID7W-CC	TYPE:7W	WEIGHT:
DIM.:	SPEC.:4000K	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	289	289	289	289	289	289	289	289										
5	287	287	287	287	288	288	288	287										
10	282	282	282	282	283	283	283	282										
15	274	274	274	274	276	275	276	274										
20	262	263	263	263	265	264	265	264										
25	248	249	248	249	251	250	251	250										
30	232	232	232	233	235	234	235	233										
35	214	214	214	215	217	216	217	215										
40	194	194	194	195	197	196	197	196										
45	173	173	173	174	176	175	176	175										
50	151	151	151	152	154	153	154	152										
55	128	129	128	129	132	131	132	130										
60	105	106	105	106	109	108	108	107										
65	81.9	82.4	81.9	83.1	85.6	84.9	85.3	84.1										
70	59.4	59.6	59.2	60.5	62.9	62.2	62.6	61.4										
75	37.9	38.0	37.8	38.9	41.3	40.6	40.9	39.8										
80	18.7	18.9	18.7	19.8	21.8	21.3	21.4	20.4										
85	5.28	5.31	5.29	5.76	6.85	6.30	6.61	5.87										
90	0.27	0.30	0.26	0.25	0.34	0.39	0.34	0.25										

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: