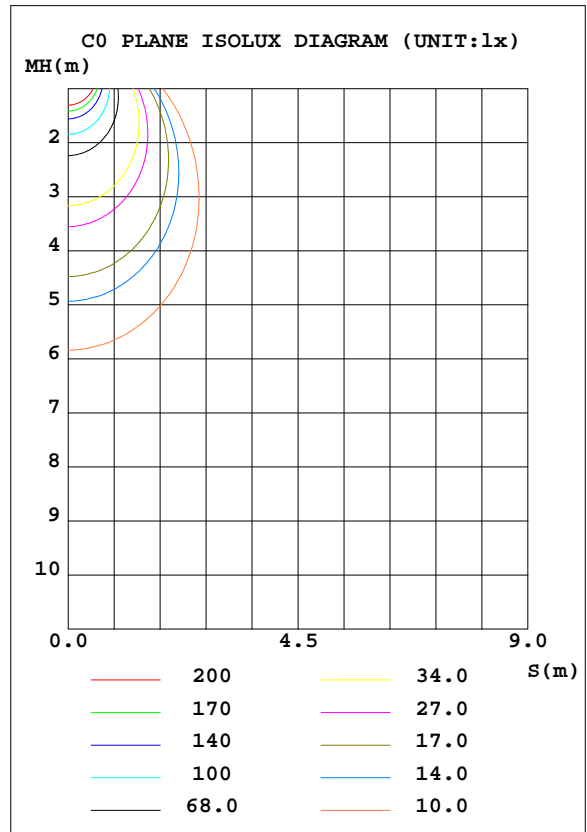
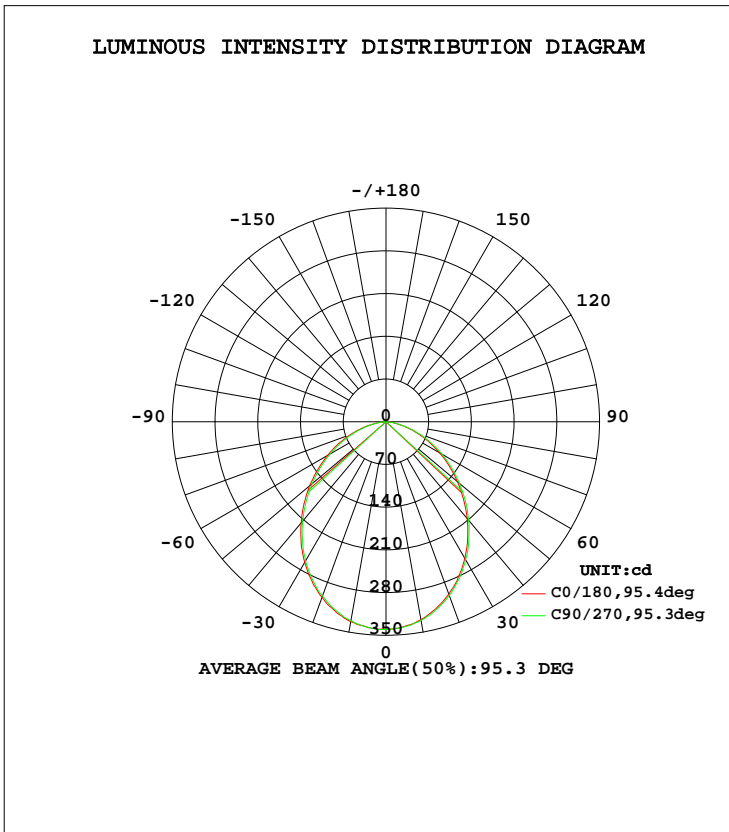


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 90.71 lm/W
MODEL	ID8W-WF	Imax(cd)	340.6	S/MH(C0/180)	1.15	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.15	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	788.25	η UP, DN(C0-180)	0.0, 49.6	
NOMINAL FLUX(lm)	788.25	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.4	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	240.7	η down(%)	100.0	CIBSE SHR MAX	1.30	



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	329.2	330.0	330.4	331.1	332.6	331.7	331.2	330.2	0- 10	32.03	32.03	4.06,4.06
20	300.8	301.9	303.2	305.1	306.2	305.4	304.0	302.8	10- 20	89.89	121.9	15.5,15.5
30	258.5	260.8	260.8	263.5	266.3	264.7	263.4	260.7	20- 30	130.8	252.8	32.1,32.1
40	207.2	209.8	210.5	213.2	216.3	214.1	212.3	209.1	30- 40	148.6	401.3	50.9,50.9
50	152.8	155.8	157.1	159.9	163.5	160.1	158.0	154.3	40- 50	142.4	543.7	69,69
60	101.1	104.0	105.5	107.9	110.9	108.3	105.9	102.8	50- 60	117.5	661.2	83.9,83.9
70	54.13	56.56	57.44	60.00	62.56	60.32	58.29	55.76	60- 70	80.58	741.7	94.1,94.1
80	16.27	16.98	17.36	18.24	21.24	20.20	19.00	16.76	70- 80	39.24	781.0	99.1,99.1
90	0.2948	0.2667	0.2393	0.2256	0.2738	0.3461	0.3731	0.2537	80- 90	7.260	788.3	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		

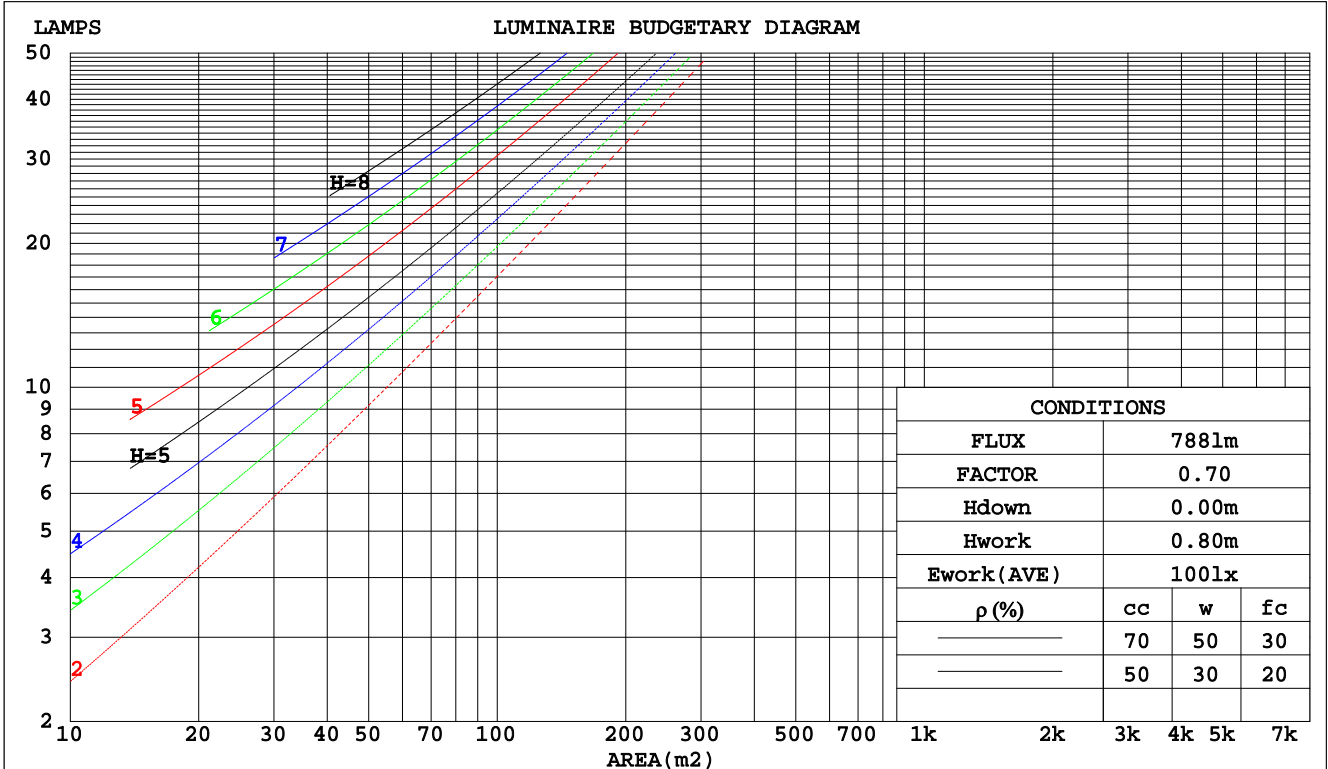
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	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	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.75	.68	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.64	.62
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.58	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.37
8.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.47	.40	.35	.45	.40	.35	.33
9.0	.46	.38	.32	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10.0	.42	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27



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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	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	.280	.159	.050	.273	.156	.050	.260	.149	.048	.248	.143	.046	.237	.137	.044	
2.0	.269	.147	.045	.262	.145	.045	.251	.140	.043	.240	.135	.042	.231	.130	.041	
3.0	.251	.134	.040	.246	.132	.040	.236	.128	.039	.227	.124	.038	.218	.121	.037	
4.0	.234	.122	.036	.229	.120	.035	.220	.117	.035	.212	.114	.034	.204	.111	.034	
5.0	.218	.111	.032	.214	.110	.032	.206	.107	.032	.198	.105	.031	.192	.102	.031	
6.0	.203	.102	.029	.200	.101	.029	.192	.099	.029	.186	.097	.028	.180	.095	.028	
7.0	.190	.094	.027	.187	.093	.027	.180	.091	.026	.175	.089	.026	.169	.088	.026	
8.0	.178	.087	.024	.175	.086	.024	.170	.085	.024	.164	.083	.024	.159	.082	.024	
9.0	.168	.081	.023	.165	.080	.023	.160	.079	.022	.155	.078	.022	.151	.076	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.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	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.009	.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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm										
NAME: ID8W-WF					TYPE:8W			WEIGHT:		
DIM.:					SPEC.:4000K			SERIAL No.:		
MFR.: EVERFINE					SUR.:0.042			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	25.4	26.8	25.6	27.0	27.2	25.5	26.9	25.8	27.1	27.3
3H	26.4	27.8	26.7	28.0	28.2	26.6	28.0	26.9	28.2	28.4
4H	26.8	28.1	27.1	28.3	28.6	27.0	28.3	27.3	28.5	28.8
6H	27.0	28.2	27.3	28.4	28.7	27.2	28.4	27.5	28.6	28.9
8H	27.0	28.1	27.3	28.4	28.7	27.2	28.3	27.5	28.6	28.9
12H	27.0	28.1	27.3	28.3	28.6	27.2	28.3	27.5	28.6	28.9
4H 2H	25.9	27.1	26.2	27.4	27.6	26.0	27.2	26.3	27.5	27.7
3H	27.1	28.2	27.5	28.5	28.8	27.3	28.4	27.6	28.7	29.0
4H	27.6	28.6	27.9	28.9	29.2	27.7	28.7	28.1	29.1	29.4
6H	27.8	28.7	28.2	29.0	29.4	28.0	28.9	28.4	29.2	29.6
8H	27.8	28.7	28.3	29.0	29.4	28.0	28.9	28.5	29.2	29.6
12H	27.8	28.6	28.3	29.0	29.4	28.0	28.8	28.5	29.2	29.6
8H 4H	27.7	28.5	28.1	28.9	29.3	27.9	28.7	28.3	29.1	29.4
6H	28.0	28.7	28.5	29.1	29.5	28.2	28.9	28.7	29.3	29.7
8H	28.1	28.7	28.6	29.1	29.6	28.3	28.9	28.8	29.3	29.8
12H	28.1	28.6	28.6	29.1	29.6	28.3	28.8	28.8	29.3	29.7
12H 4H	27.7	28.4	28.1	28.8	29.2	27.9	28.6	28.3	29.0	29.4
6H	28.0	28.6	28.5	29.1	29.5	28.2	28.8	28.7	29.2	29.7
8H	28.1	28.7	28.6	29.1	29.6	28.3	28.8	28.8	29.3	29.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 788.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.8)

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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	PROTECTION ANGLE:

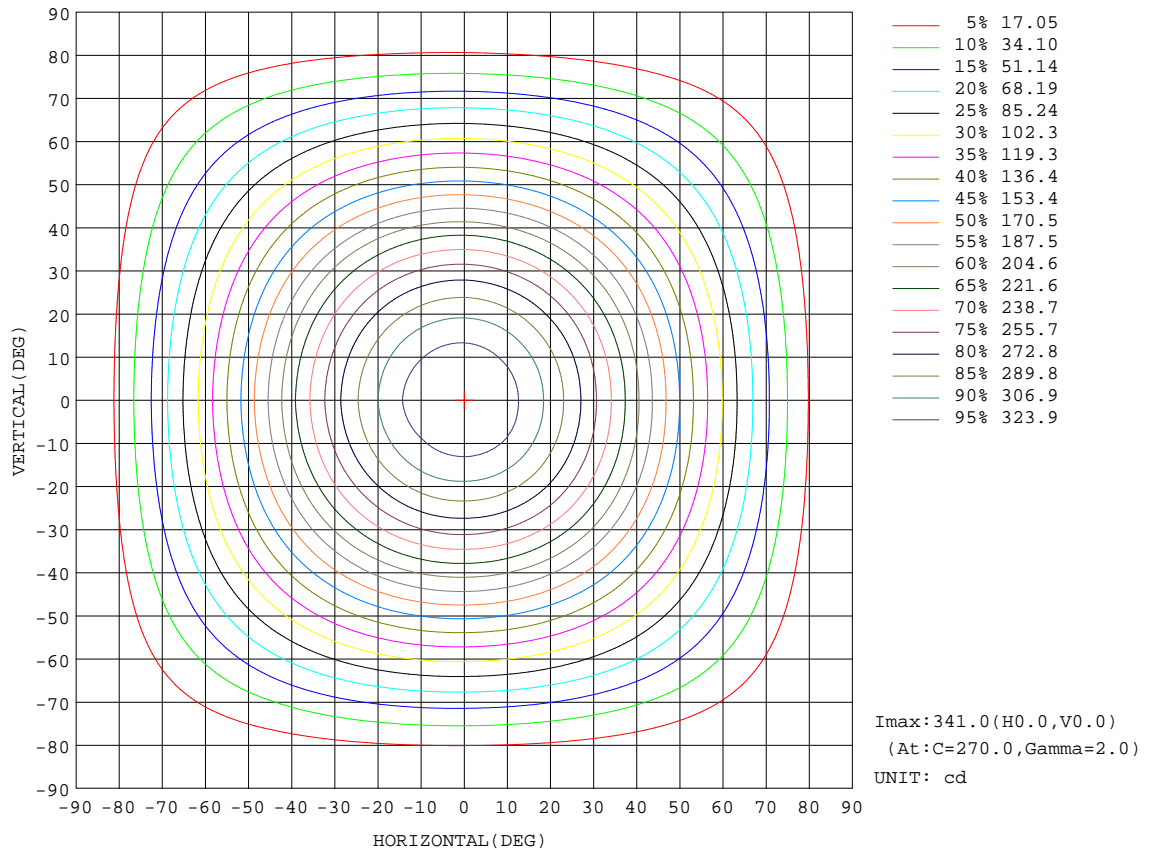
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	43	60	50	43	59	49	43	37
0.80	71	60	53	70	60	53	68	59	53	46
1.00	79	69	62	78	69	62	76	70	62	55
1.25	86	77	70	85	76	70	82	75	69	62
1.50	91	82	76	89	81	75	87	79	74	67
2.00	97	90	84	96	88	83	92	86	81	74
2.50	101	94	88	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	82
4.00	108	103	98	105	101	97	101	97	94	86
5.00	110	106	102	107	104	100	103	100	97	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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	PROTECTION ANGLE:

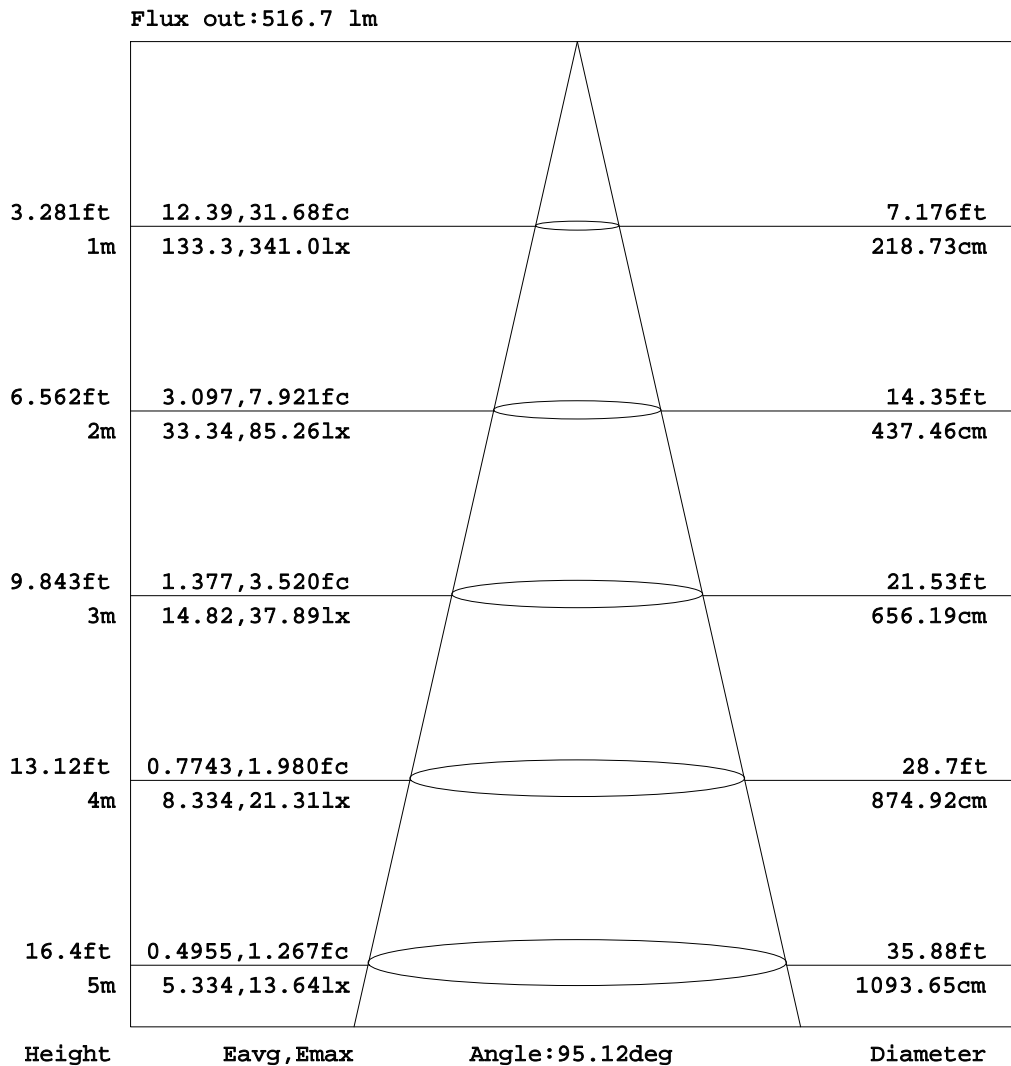


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-07-20

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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	PROTECTION ANGLE:



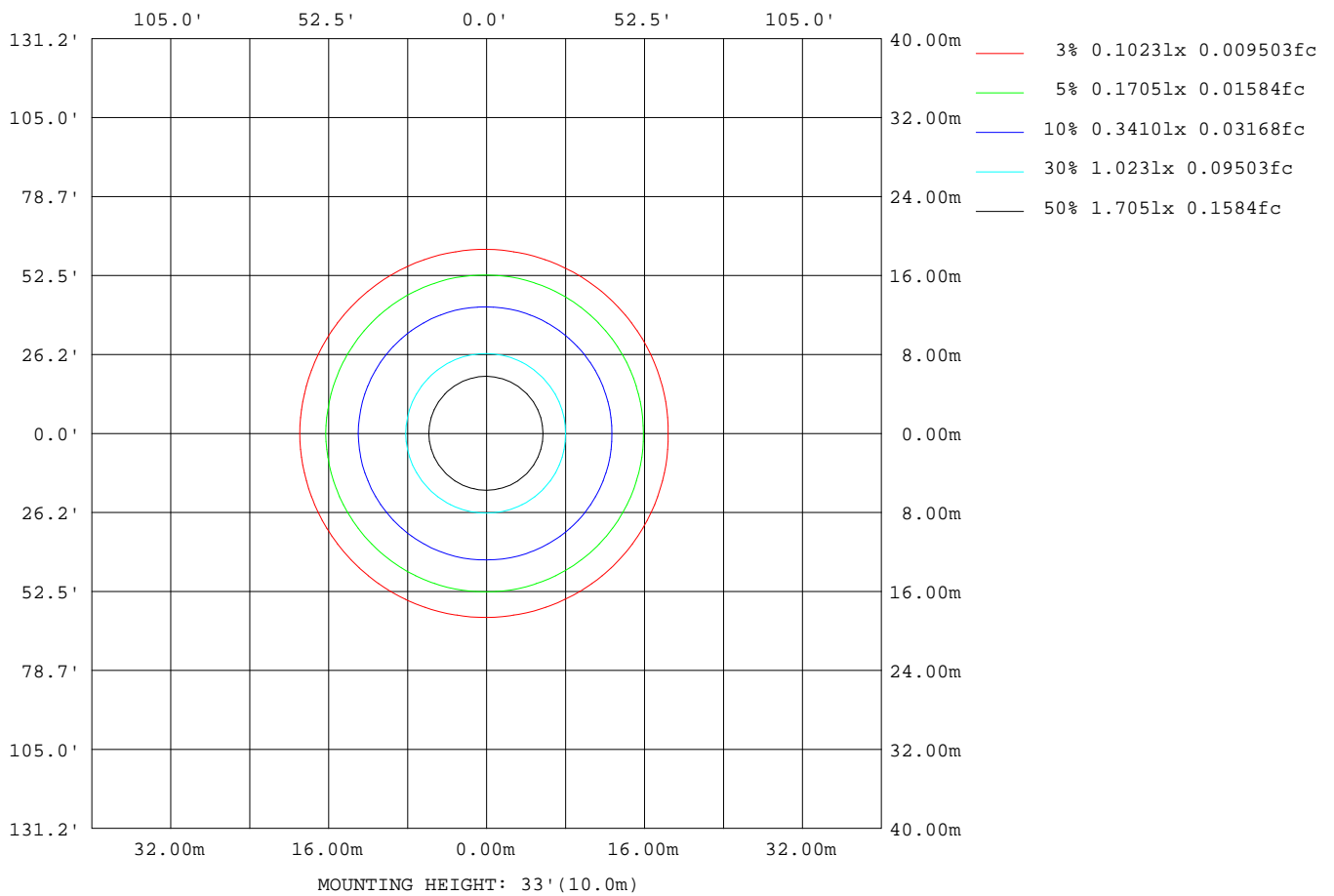
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

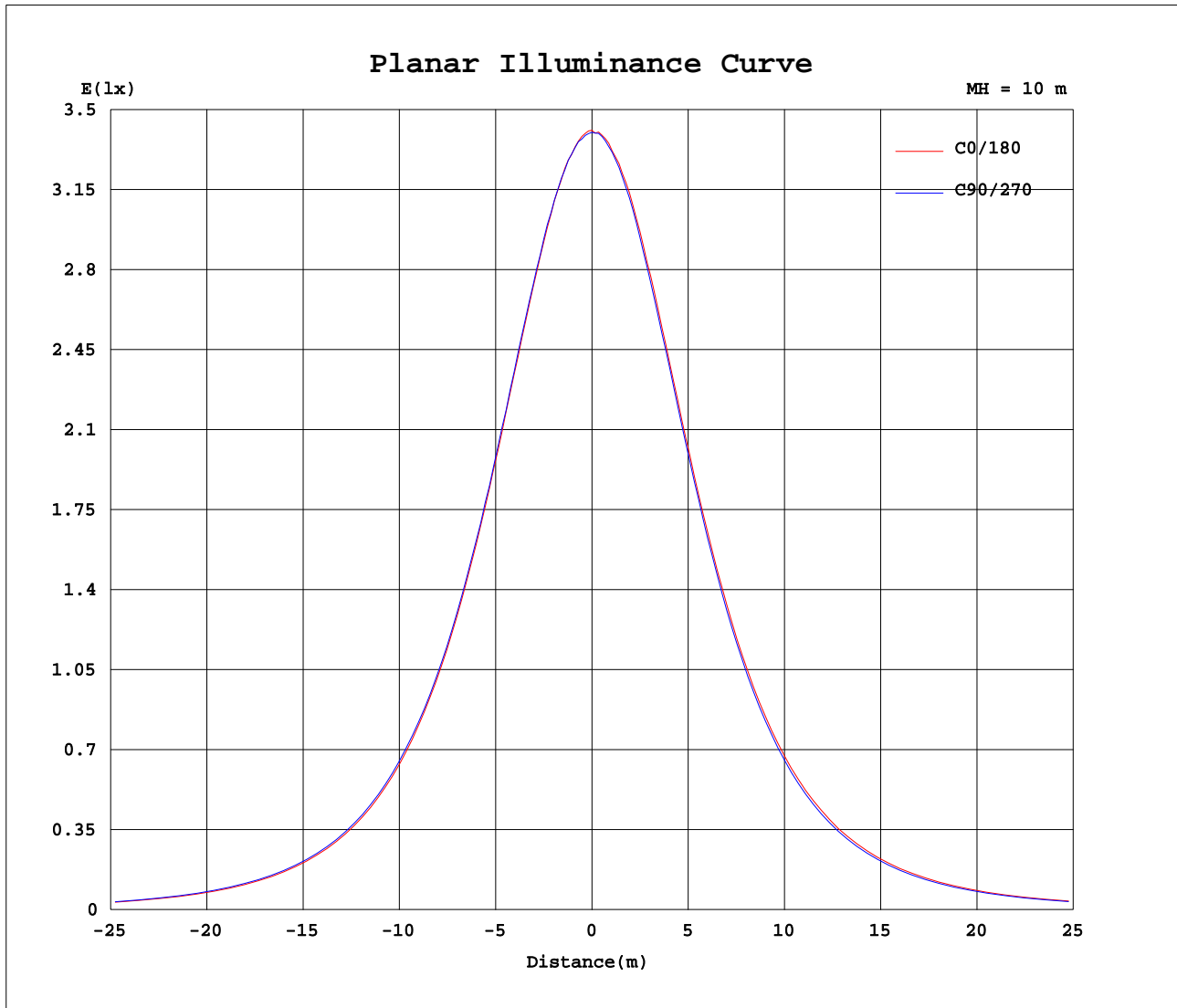
Test:U:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	PROTECTION ANGLE:



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:240.7V I:0.0380A P:8.690W PF:0.9450 Lamp Flux:788.25x1 lm		
NAME: ID8W-WF	TYPE:8W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.042	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	340	340	340	340	340	340	340	340										
5	337	338	338	338	339	338	338	338										
10	329	330	330	331	333	332	331	330										
15	317	318	319	320	322	320	320	318										
20	301	302	303	305	306	305	304	303										
25	281	283	284	286	288	286	285	283										
30	259	261	261	264	266	265	263	261										
35	233	236	237	240	242	240	239	236										
40	207	210	211	213	216	214	212	209										
45	180	183	184	187	190	187	185	182										
50	153	156	157	160	164	160	158	154										
55	127	129	131	134	136	134	131	128										
60	101	104	105	108	111	108	106	103										
65	76.8	79.7	80.8	83.5	86.2	83.5	81.4	78.6										
70	54.1	56.6	57.4	60.0	62.6	60.3	58.3	55.8										
75	33.8	35.2	36.2	37.3	40.7	39.0	37.2	35.0										
80	16.3	17.0	17.4	18.2	21.2	20.2	19.0	16.8										
85	4.09	4.25	4.37	5.06	6.46	5.83	5.79	4.89										
90	0.29	0.27	0.24	0.23	0.27	0.35	0.37	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
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
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