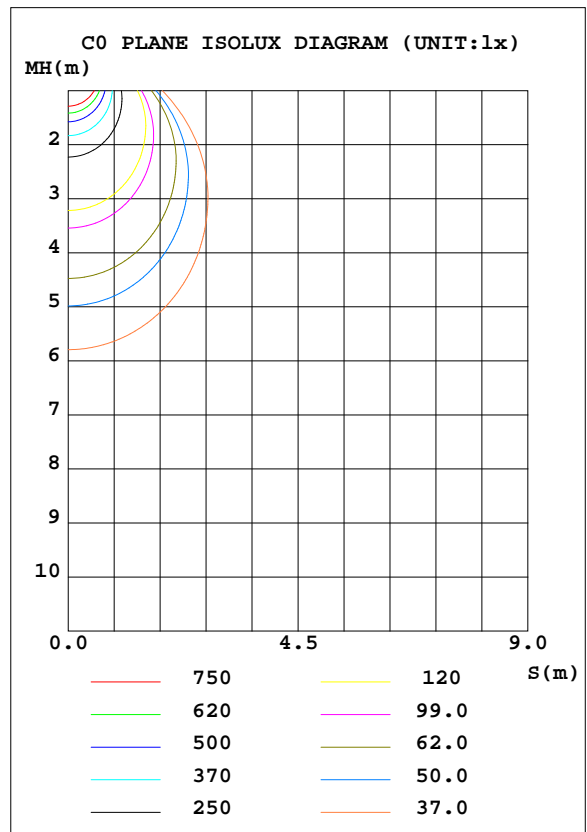
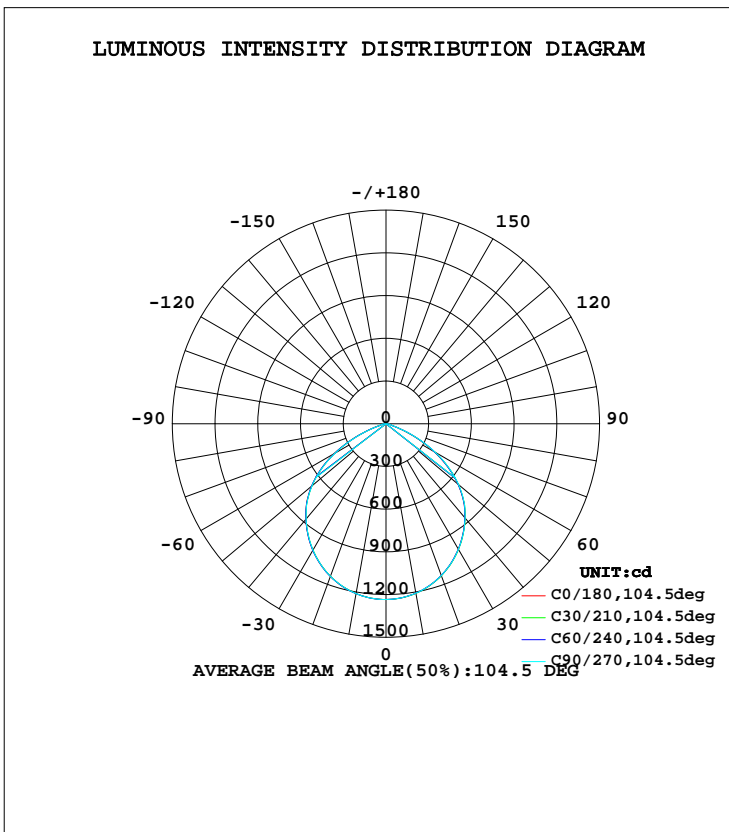


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.41 lm/W			
MODEL	ID33W-CC	I _{max} (cd)	1235	S/MH(C0/180)	1.23
NOMINAL POWER(W)	33	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2947.4	η UP, DN(C0-180)	0.0, 49.5
NOMINAL FLUX(lm)	2947.37	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)	240.6	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [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	1209	1209	1208	1208	1211	1211	1211	1211	0- 10	116.6	116.6	3.96,3.96
20	1135	1135	1135	1135	1141	1141	1140	1140	10- 20	332.7	449.4	15.2,15.2
30	1016	1018	1018	1018	1027	1026	1025	1025	20- 30	499.7	949.1	32.2,32.2
40	861.7	862.8	863.5	864.8	875.4	874.2	872.6	872.1	30- 40	593.4	1543	52.3,52.3
50	660.6	662.6	664.8	668.0	682.2	680.8	678.1	675.8	40- 50	599.0	2142	72.7,72.7
60	385.8	392.3	398.0	401.8	418.0	417.0	412.3	406.1	50- 60	484.8	2626	89.1,89.1
70	104.2	106.9	110.1	114.7	128.6	124.9	119.5	115.9	60- 70	251.8	2878	97.7,97.7
80	26.40	25.39	27.48	26.80	29.95	28.07	28.70	26.95	70- 80	54.30	2932	99.5,99.5
90	1.011	0.9767	0.9646	0.9523	1.387	1.308	1.258	1.265	80- 90	14.90	2947	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		

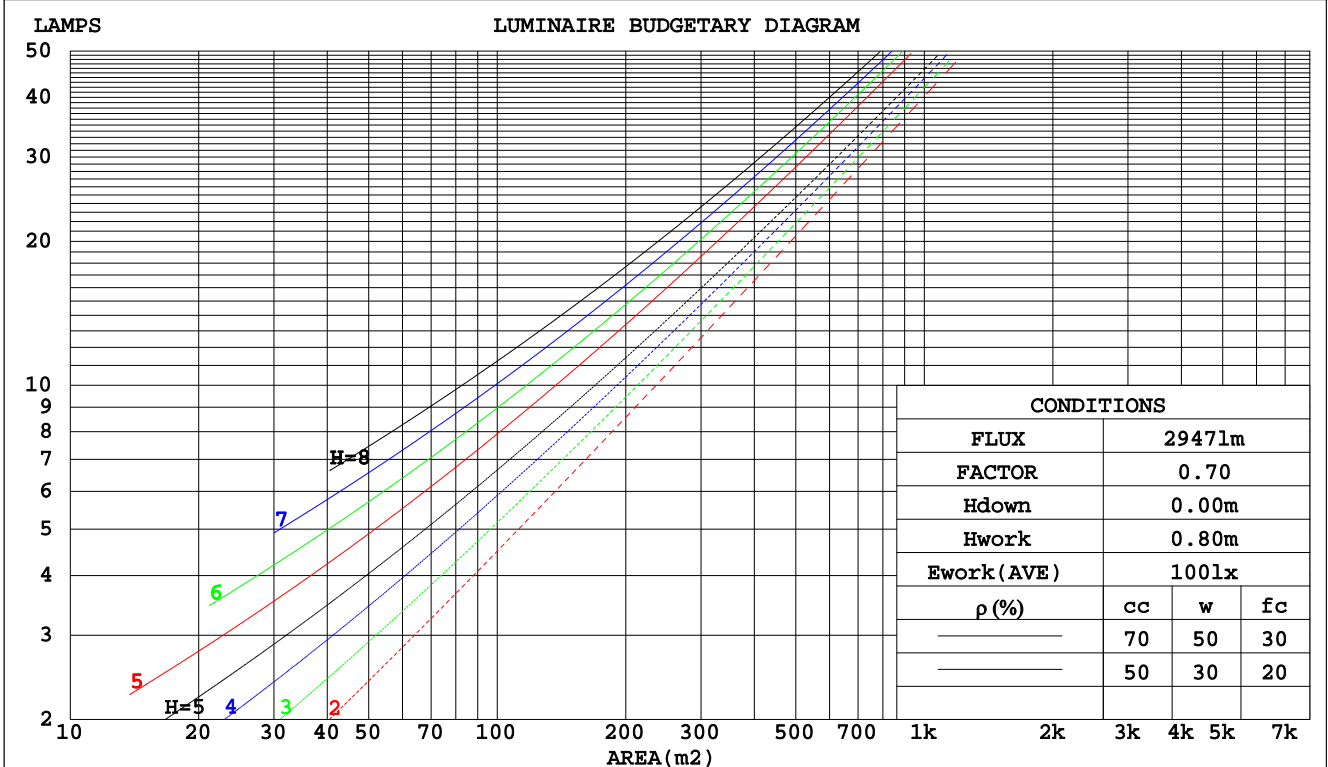
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	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	.00
1.0	1.07	1.03	.00	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.82	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.52	.61	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.46	.58	.51	.46	.57	.50	.46	.55	.50	.45	.43
7.0	.55	.47	.41	.55	.47	.41	.53	.46	.41	.52	.45	.41	.50	.45	.40	.38
8.0	.51	.43	.37	.50	.42	.37	.49	.42	.37	.47	.41	.36	.46	.41	.36	.34
9.0	.47	.39	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.35	.30	.41	.34	.30	.40	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	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	.259	.147	.047	.252	.144	.046	.239	.137	.044	.227	.131	.042	.216	.125	.040	
2.0	.253	.138	.042	.247	.136	.042	.235	.131	.041	.225	.126	.039	.215	.122	.038	
3.0	.240	.128	.038	.235	.126	.038	.225	.122	.037	.216	.118	.036	.207	.115	.035	
4.0	.226	.118	.035	.221	.116	.034	.213	.113	.034	.204	.110	.033	.197	.107	.033	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.099	.030	
6.0	.199	.100	.029	.196	.099	.028	.189	.097	.028	.182	.095	.028	.176	.093	.027	
7.0	.187	.093	.026	.184	.092	.026	.178	.090	.026	.172	.088	.026	.166	.086	.025	
8.0	.176	.086	.024	.173	.085	.024	.168	.084	.024	.162	.082	.024	.157	.081	.024	
9.0	.166	.080	.022	.163	.080	.022	.158	.078	.022	.154	.077	.022	.149	.076	.022	
10.0	.157	.075	.021	.155	.075	.021	.150	.073	.021	.146	.072	.021	.142	.071	.020	

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	.177	.157	.138	.151	.134	.119	.103	.092	.082	.060	.054	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.103	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm										
NAME: ID33W-CC					TYPE:33W			WEIGHT:		
DIM.:					SPEC.:3000K			SERIAL No.:1		
MFR.:					SUR.:0.09			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	25.2	26.6	25.5	26.8	27.0	25.2	26.6	25.5	26.8	27.0
3H	25.6	26.8	25.8	27.1	27.3	25.6	26.9	25.9	27.1	27.3
4H	25.5	26.7	25.8	27.0	27.2	25.5	26.8	25.8	27.0	27.2
6H	25.4	26.6	25.8	26.9	27.1	25.5	26.6	25.8	26.9	27.2
8H	25.4	26.5	25.8	26.8	27.1	25.5	26.6	25.8	26.8	27.1
12H	25.4	26.4	25.7	26.7	27.0	25.4	26.5	25.8	26.8	27.1
4H 2H	25.5	26.7	25.8	27.0	27.2	25.5	26.7	25.8	27.0	27.2
3H	25.9	26.9	26.2	27.2	27.5	25.9	26.9	26.2	27.2	27.5
4H	25.8	26.8	26.2	27.1	27.4	25.9	26.8	26.2	27.1	27.5
6H	25.8	26.7	26.2	27.0	27.4	25.8	26.7	26.2	27.0	27.4
8H	25.8	26.6	26.2	26.9	27.3	25.8	26.6	26.2	27.0	27.3
12H	25.8	26.5	26.2	26.9	27.3	25.8	26.5	26.2	26.9	27.3
8H 4H	25.8	26.5	26.2	26.9	27.3	25.8	26.6	26.2	26.9	27.3
6H	25.8	26.4	26.2	26.8	27.2	25.8	26.4	26.2	26.8	27.2
8H	25.8	26.3	26.2	26.8	27.2	25.8	26.4	26.3	26.8	27.2
12H	25.8	26.3	26.3	26.7	27.2	25.8	26.3	26.3	26.7	27.2
12H 4H	25.7	26.4	26.1	26.8	27.2	25.7	26.4	26.2	26.8	27.2
6H	25.7	26.3	26.2	26.7	27.2	25.8	26.3	26.2	26.7	27.2
8H	25.8	26.2	26.2	26.7	27.1	25.8	26.3	26.3	26.7	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.6				
1.5H	+ 0.4 / - 0.7					+ 0.4 / - 0.7				
2.0H	+ 1.0 / - 1.1					+ 1.0 / - 1.1				

CIE Pub.117 Corrected 2947 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.8)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

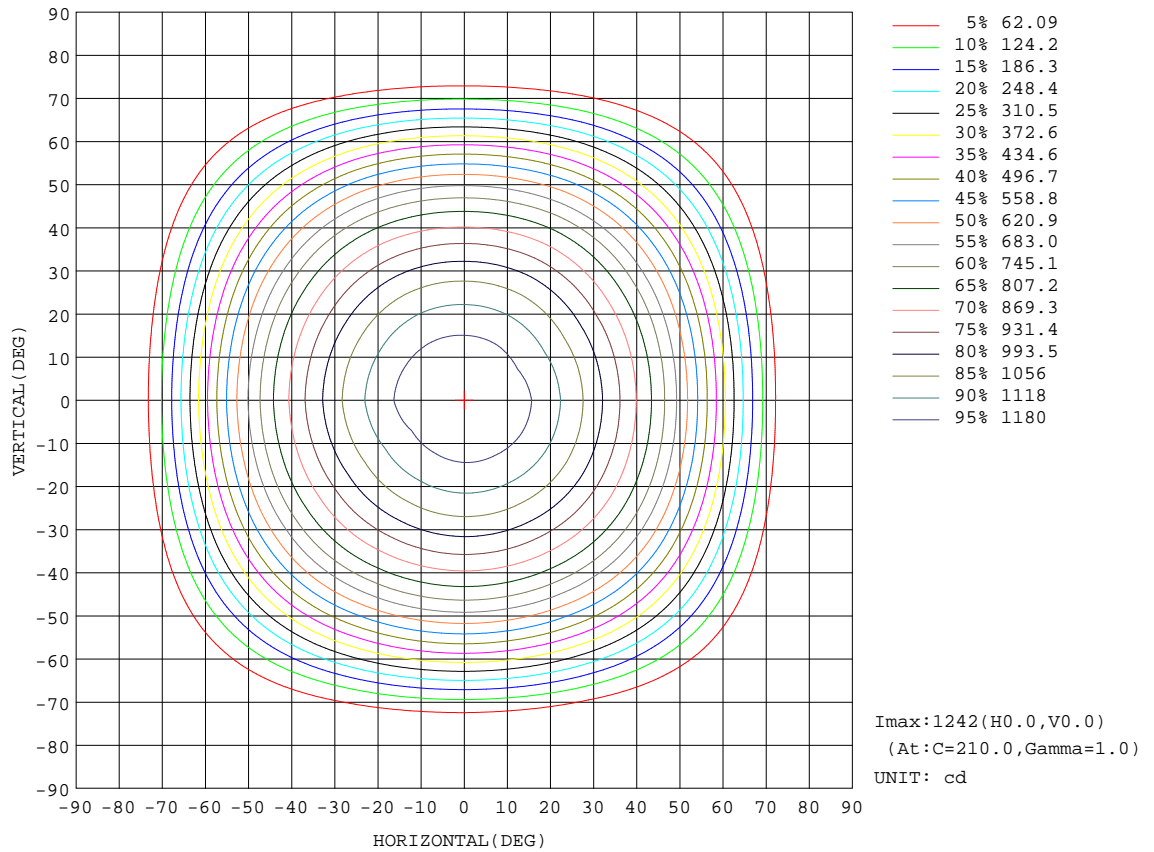
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	44	61	50	44	59	50	43	37
0.80	72	61	54	71	61	54	69	60	54	47
1.00	81	71	64	80	70	64	78	71	63	57
1.25	88	79	72	86	78	72	84	77	71	65
1.50	93	84	78	91	83	77	88	81	76	70
2.00	99	92	86	97	91	85	94	88	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	98	102	99	96	87
5.00	111	106	103	108	105	101	104	101	98	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

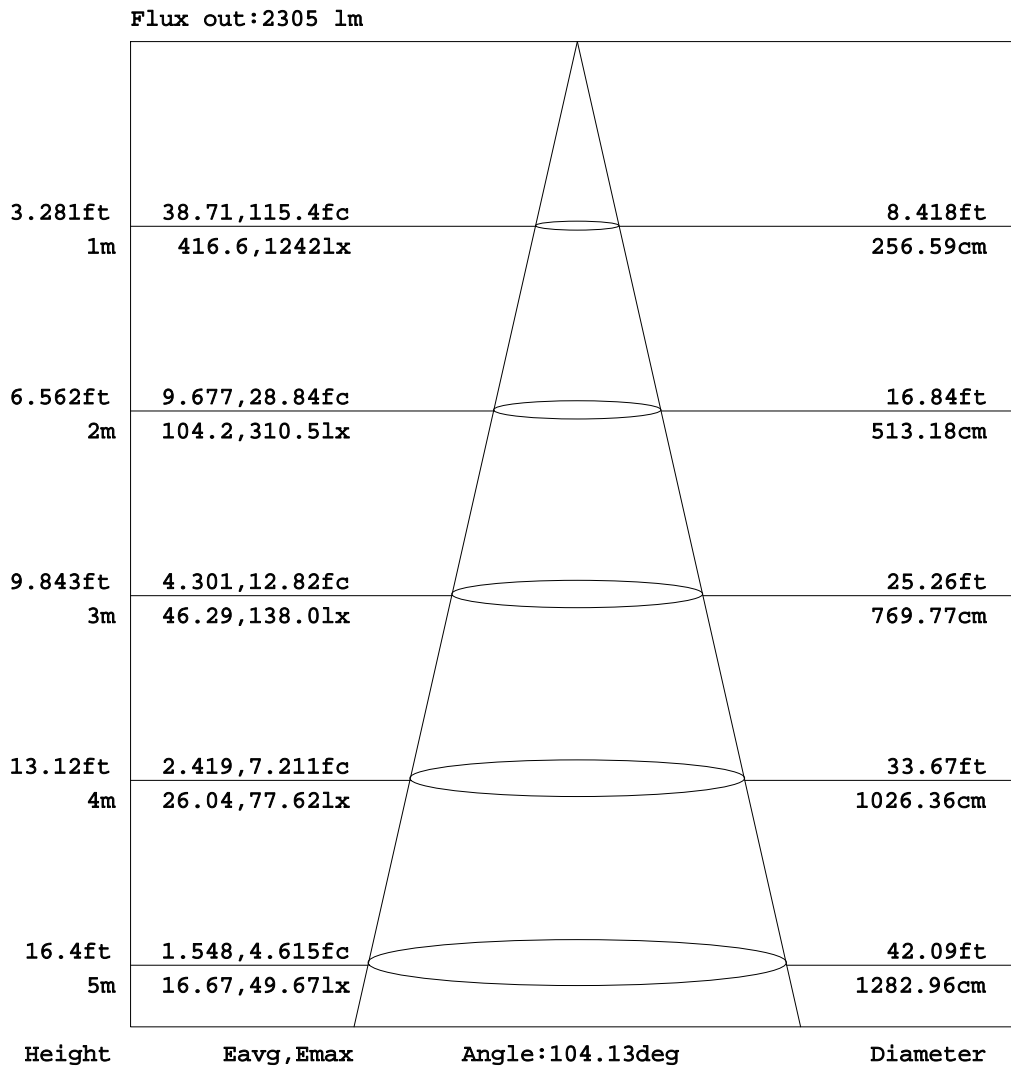


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMAN
 Test Date: 2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.443m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:



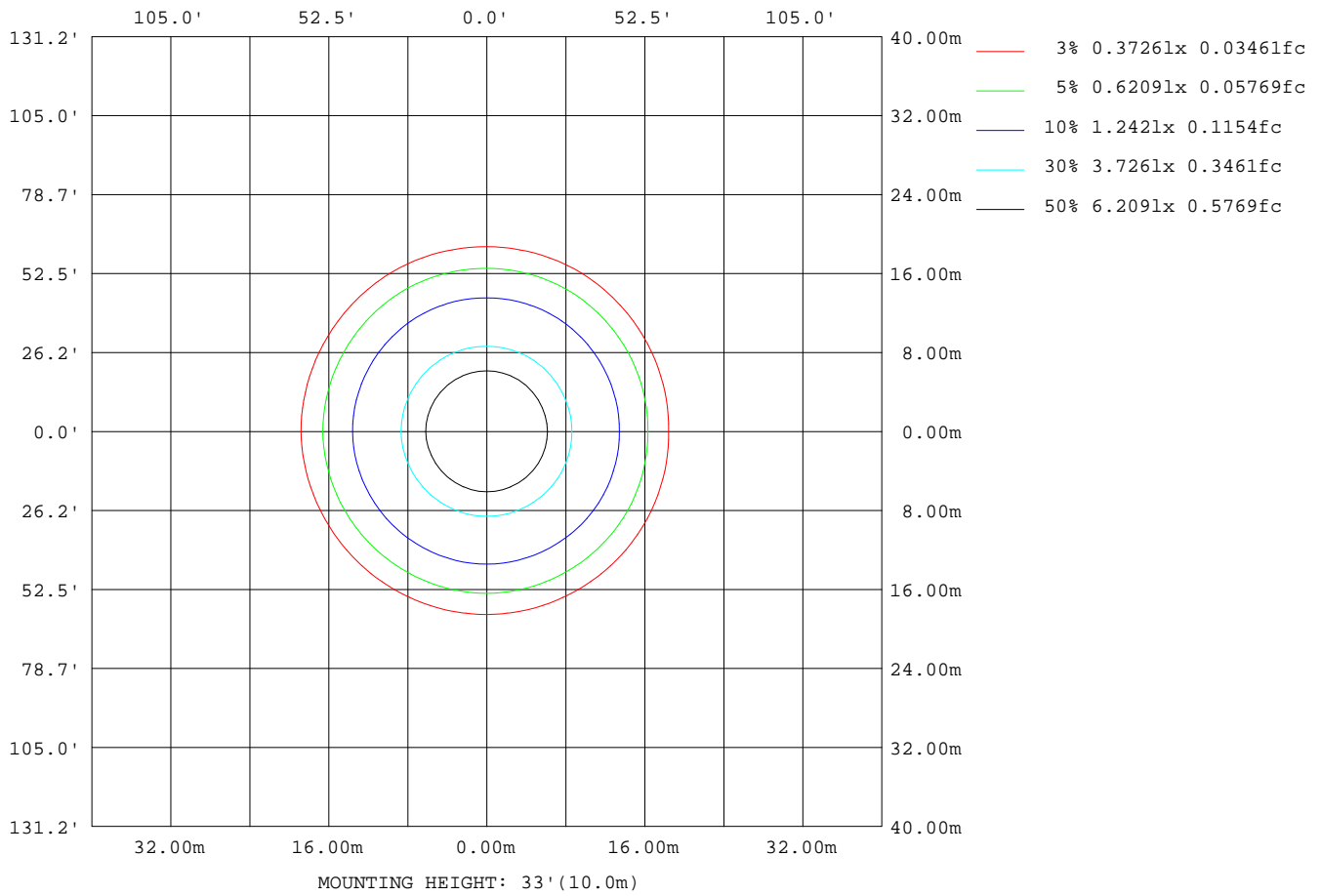
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

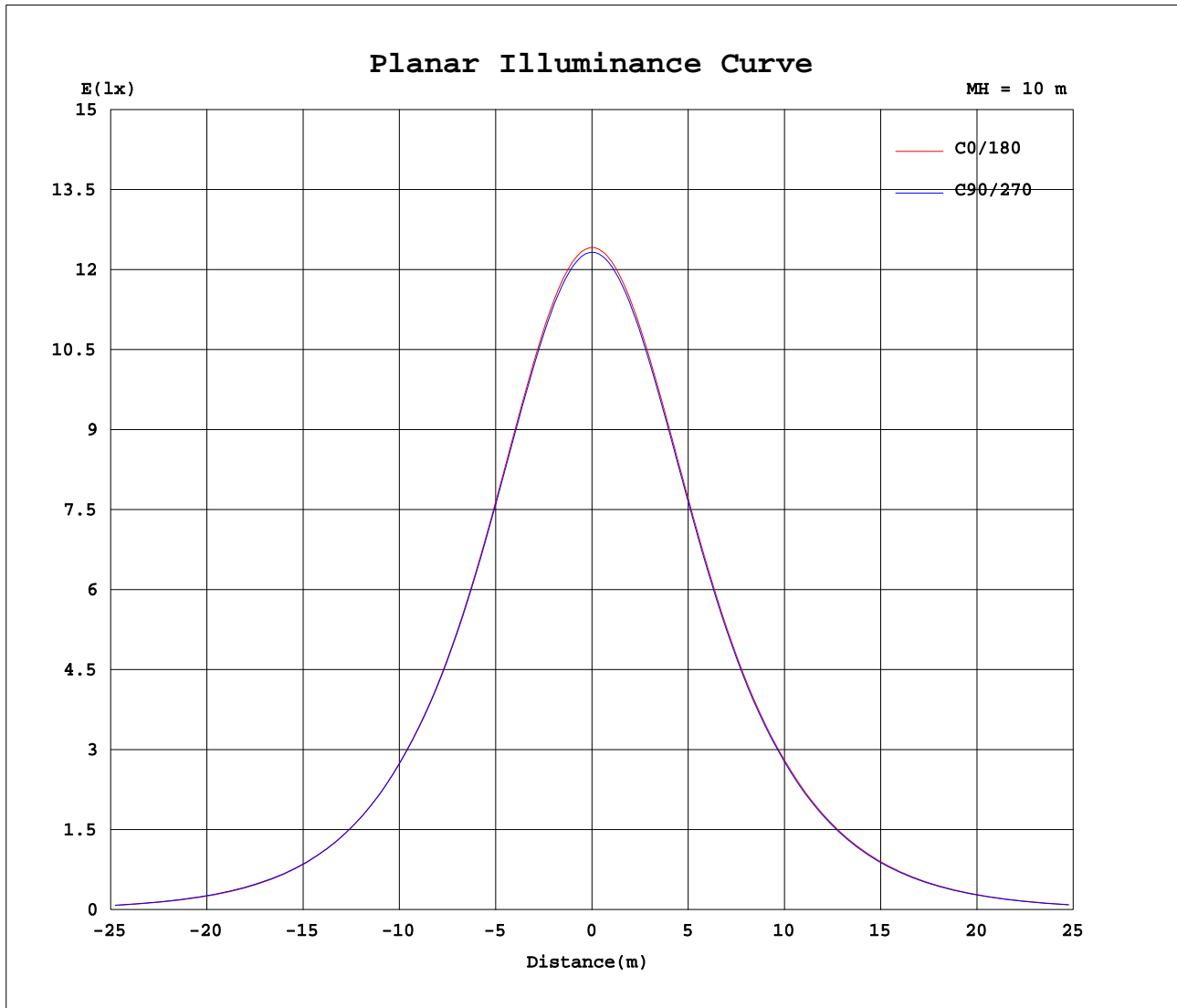
Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMAN
 Test Date: 2020-05-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.443m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.6V I:0.1360A P:32.60W PF:0.9910 Lamp Flux:2947.37x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1234	1234	1234	1234	1234	1234	1234	1234	1234	1234	1234	1234						
5	1227	1228	1227	1227	1227	1228	1229	1229	1230	1229	1229	1229						
10	1209	1209	1208	1208	1208	1209	1211	1211	1211	1211	1212	1211						
15	1177	1179	1177	1178	1176	1180	1182	1181	1183	1182	1183	1180						
20	1135	1136	1134	1135	1134	1137	1141	1140	1142	1140	1142	1139						
25	1081	1083	1081	1081	1080	1084	1089	1088	1089	1088	1090	1086						
30	1016	1019	1016	1018	1016	1021	1027	1025	1028	1025	1027	1023						
35	943	946	943	945	943	949	955	953	956	953	955	950						
40	862	864	861	864	861	868	875	873	875	873	875	869						
45	771	775	771	774	772	780	788	785	788	785	787	780						
50	661	664	661	665	664	673	682	679	683	678	680	671						
55	532	536	533	538	538	548	559	555	559	554	555	544						
60	386	393	392	398	397	407	418	415	419	412	413	400						
65	237	243	244	248	249	256	267	265	266	261	260	249						
70	104	108	105	110	111	119	129	125	124	120	119	112						
75	38.7	38.7	38.5	39.8	39.7	40.9	43.4	42.2	41.9	41.3	40.6	39.4						
80	26.4	25.4	25.4	27.5	26.3	27.3	29.9	28.3	27.9	28.7	27.5	26.4						
85	12.6	12.5	12.3	13.6	13.1	13.8	16.1	15.0	14.3	15.1	14.0	13.4						
90	1.01	0.99	0.96	0.96	0.95	0.95	1.39	1.34	1.27	1.26	1.24	1.29						

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 30.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Temperature:25.3DEG	Humidity:65.0%
Operators:DAMAN	Test Distance:9.443m [K=1.0000]
Test Date:2020-05-07	Remarks: