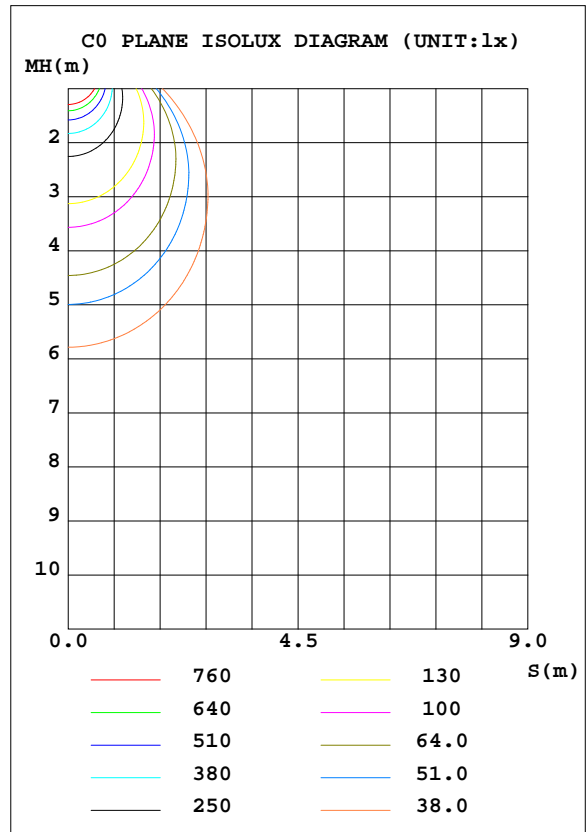
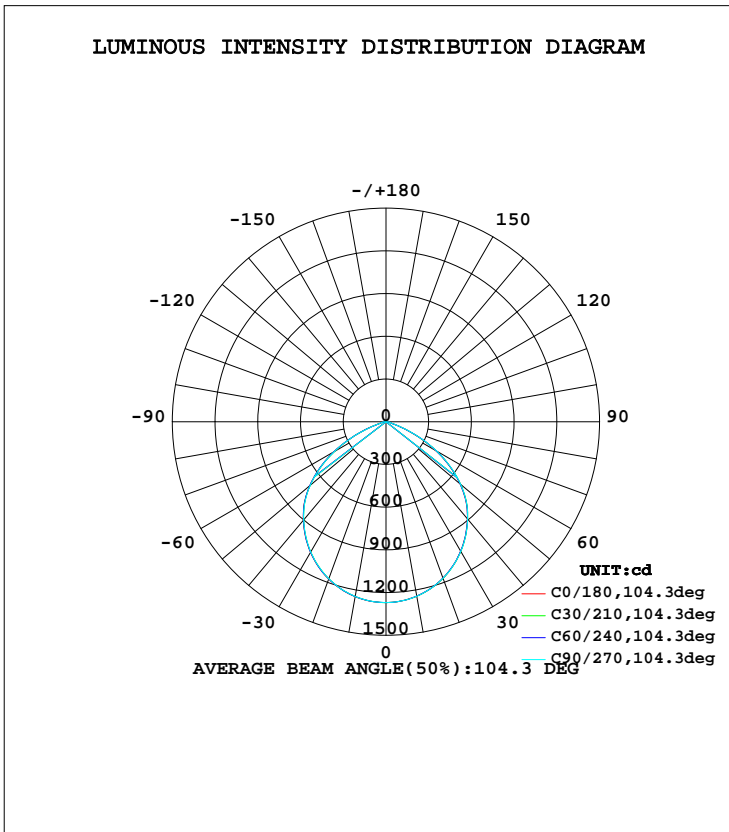


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.6V I:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.40 lm/W			
MODEL	ID33W-CC	I _{max} (cd)	1270	S/MH(C0/180)	1.23
NOMINAL POWER(W)	33	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3033.6	η UP, DN(C0-180)	0.0, 49.6
NOMINAL FLUX(lm)	3033.61	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)	240.6	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	1244	1244	1244	1244	1247	1246	1246	1246	0- 10	120.0	120.0	3.96,3.96
20	1169	1170	1170	1171	1176	1175	1174	1174	10- 20	342.7	462.7	15.3,15.3
30	1049	1050	1051	1052	1060	1058	1057	1057	20- 30	515.3	978.0	32.2,32.2
40	889.2	891.4	892.0	893.7	903.1	900.7	899.4	898.7	30- 40	612.4	1590	52.4,52.4
50	679.1	682.6	683.7	685.7	699.5	697.0	695.2	693.1	40- 50	617.1	2207	72.8,72.8
60	400.1	406.2	408.4	408.4	421.9	420.9	419.5	416.5	50- 60	495.9	2703	89.1,89.1
70	111.6	113.9	115.0	118.2	130.4	126.5	123.1	121.4	60- 70	258.5	2962	97.6,97.6
80	27.68	26.55	28.36	27.40	30.35	28.46	29.50	28.02	70- 80	56.43	3018	99.5,99.5
90	1.040	1.026	1.011	0.9731	1.422	1.361	1.310	1.323	80- 90	15.34	3034	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		

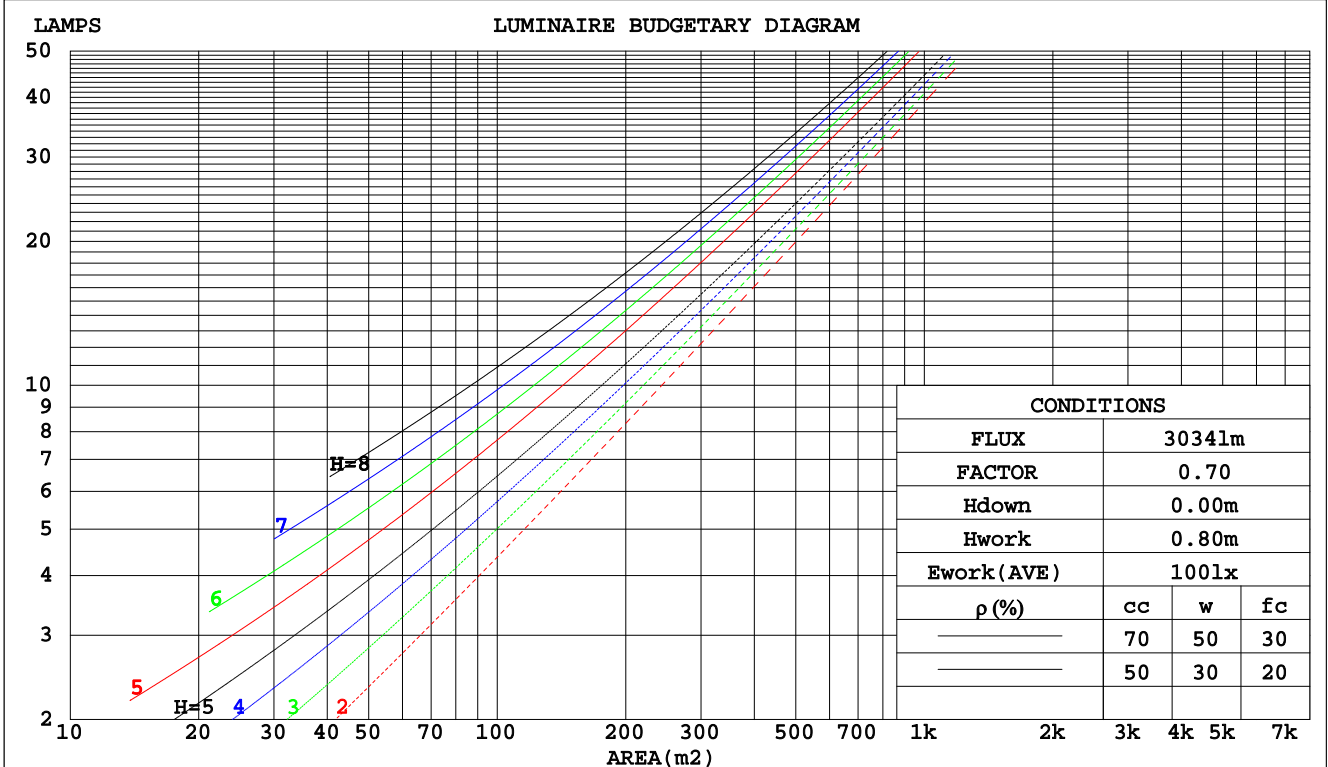
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	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	1.00
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	.83	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.61	.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	.42	.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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	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	.246	.136	.042	.235	.131	.041	.225	.126	.039	.215	.122	.038	
3.0	.240	.128	.038	.235	.126	.038	.225	.122	.037	.215	.118	.036	.207	.115	.035	
4.0	.226	.117	.035	.221	.116	.034	.212	.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	.195	.099	.028	.188	.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	.154	.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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61x1 lm										
NAME: ID33W-CC					TYPE:33W			WEIGHT:		
DIM.:					SPEC.:5700K			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	25.3	26.7	25.6	26.9	27.1	25.3	26.7	25.6	26.9	27.1
3H	25.7	27.0	26.0	27.2	27.4	25.7	27.0	26.0	27.2	27.4
4H	25.6	26.8	25.9	27.1	27.3	25.7	26.9	26.0	27.1	27.4
6H	25.6	26.7	25.9	27.0	27.3	25.6	26.7	25.9	27.0	27.3
8H	25.5	26.6	25.9	26.9	27.2	25.6	26.7	25.9	27.0	27.2
12H	25.5	26.6	25.9	26.9	27.2	25.5	26.6	25.9	26.9	27.2
4H 2H	25.6	26.8	25.9	27.1	27.3	25.6	26.8	25.9	27.1	27.3
3H	26.0	27.1	26.3	27.3	27.6	26.0	27.1	26.4	27.4	27.7
4H	26.0	26.9	26.3	27.2	27.6	26.0	26.9	26.4	27.3	27.6
6H	26.0	26.8	26.3	27.1	27.5	26.0	26.8	26.4	27.2	27.5
8H	25.9	26.7	26.3	27.1	27.5	26.0	26.7	26.4	27.1	27.5
12H	25.9	26.6	26.3	27.0	27.4	25.9	26.7	26.4	27.0	27.4
8H 4H	25.9	26.7	26.3	27.0	27.4	25.9	26.7	26.3	27.0	27.4
6H	25.9	26.5	26.3	26.9	27.4	25.9	26.6	26.4	27.0	27.4
8H	25.9	26.5	26.4	26.9	27.3	25.9	26.5	26.4	26.9	27.4
12H	25.9	26.4	26.4	26.8	27.3	25.9	26.4	26.4	26.9	27.3
12H 4H	25.9	26.6	26.3	26.9	27.3	25.9	26.6	26.3	27.0	27.4
6H	25.9	26.4	26.3	26.9	27.3	25.9	26.5	26.4	26.9	27.3
8H	25.9	26.4	26.4	26.8	27.3	25.9	26.4	26.4	26.8	27.3
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	+ 0.9 / - 1.1					+ 0.9 / - 1.1				

CIE Pub.117 Corrected 3034 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

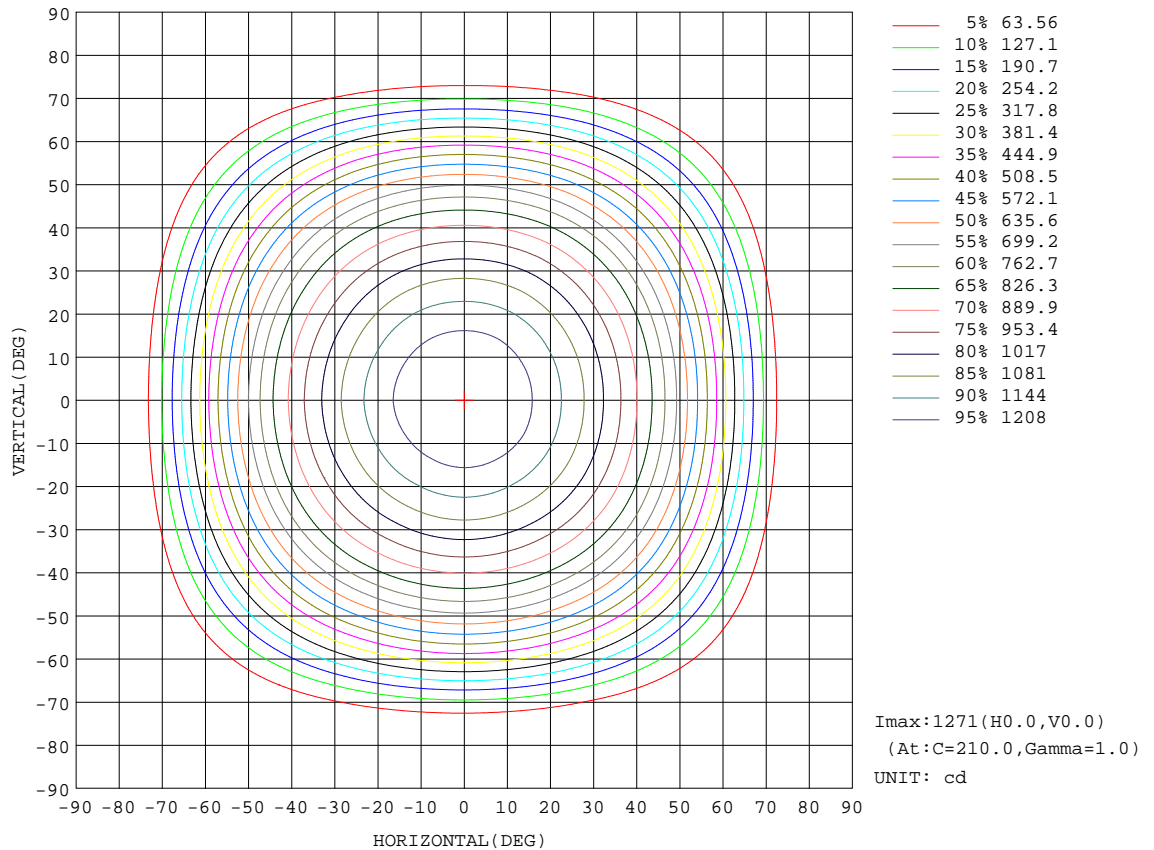
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	44	61	50	44	59	50	44	37
0.80	72	61	54	71	61	54	69	60	54	48
1.00	81	71	64	80	70	64	78	71	63	57
1.25	88	79	72	87	78	72	84	77	71	65
1.50	93	84	78	91	83	78	88	82	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	99	102	99	96	88
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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61x1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:

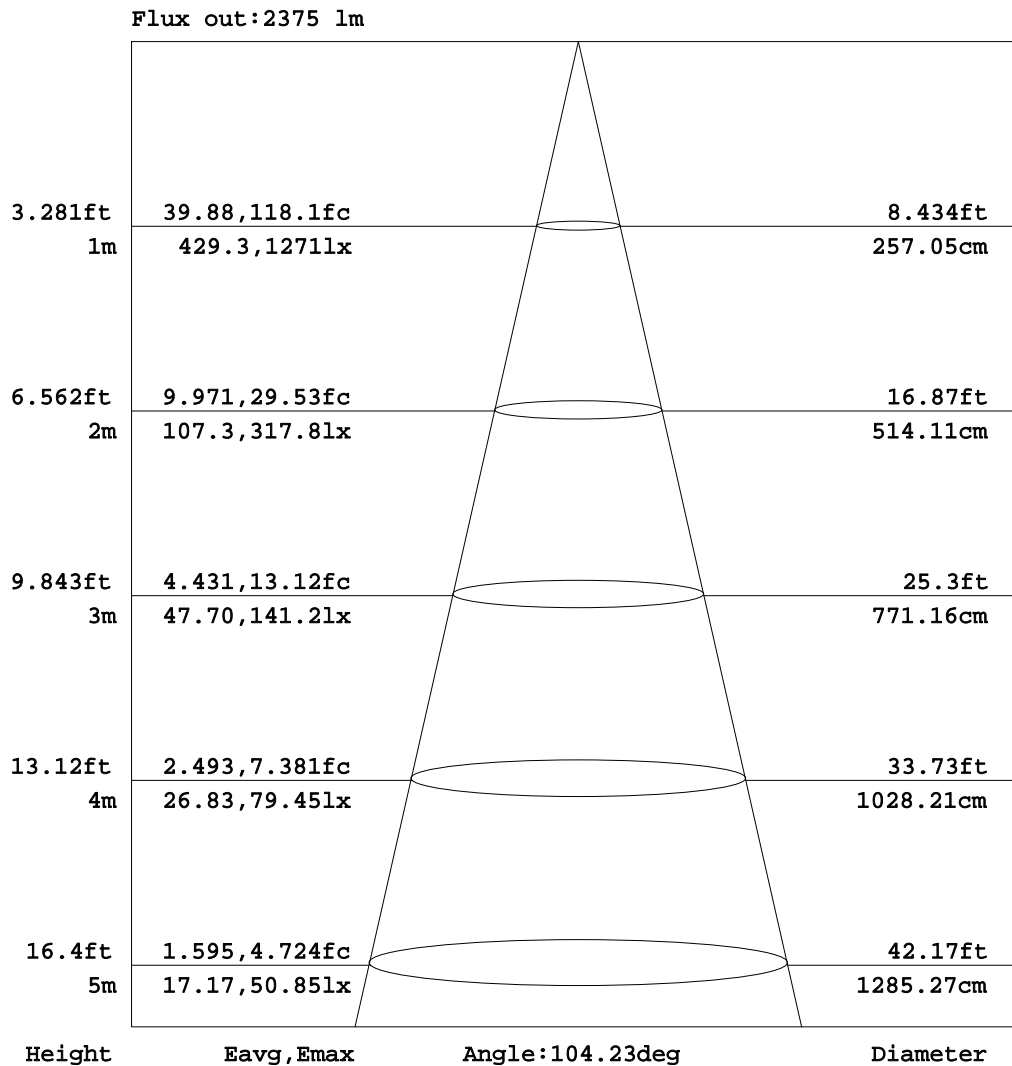


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-05-07

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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.6lx1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:



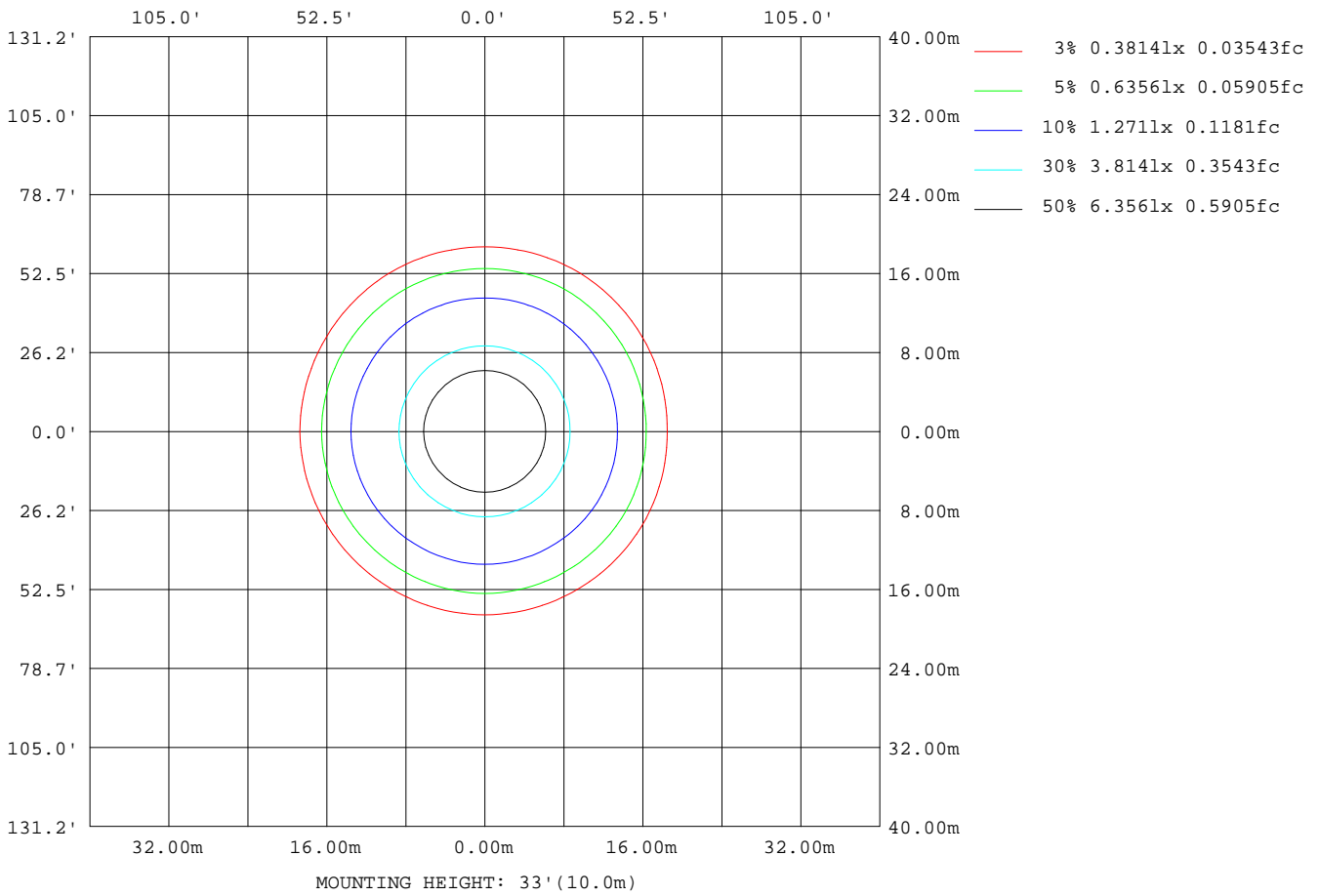
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

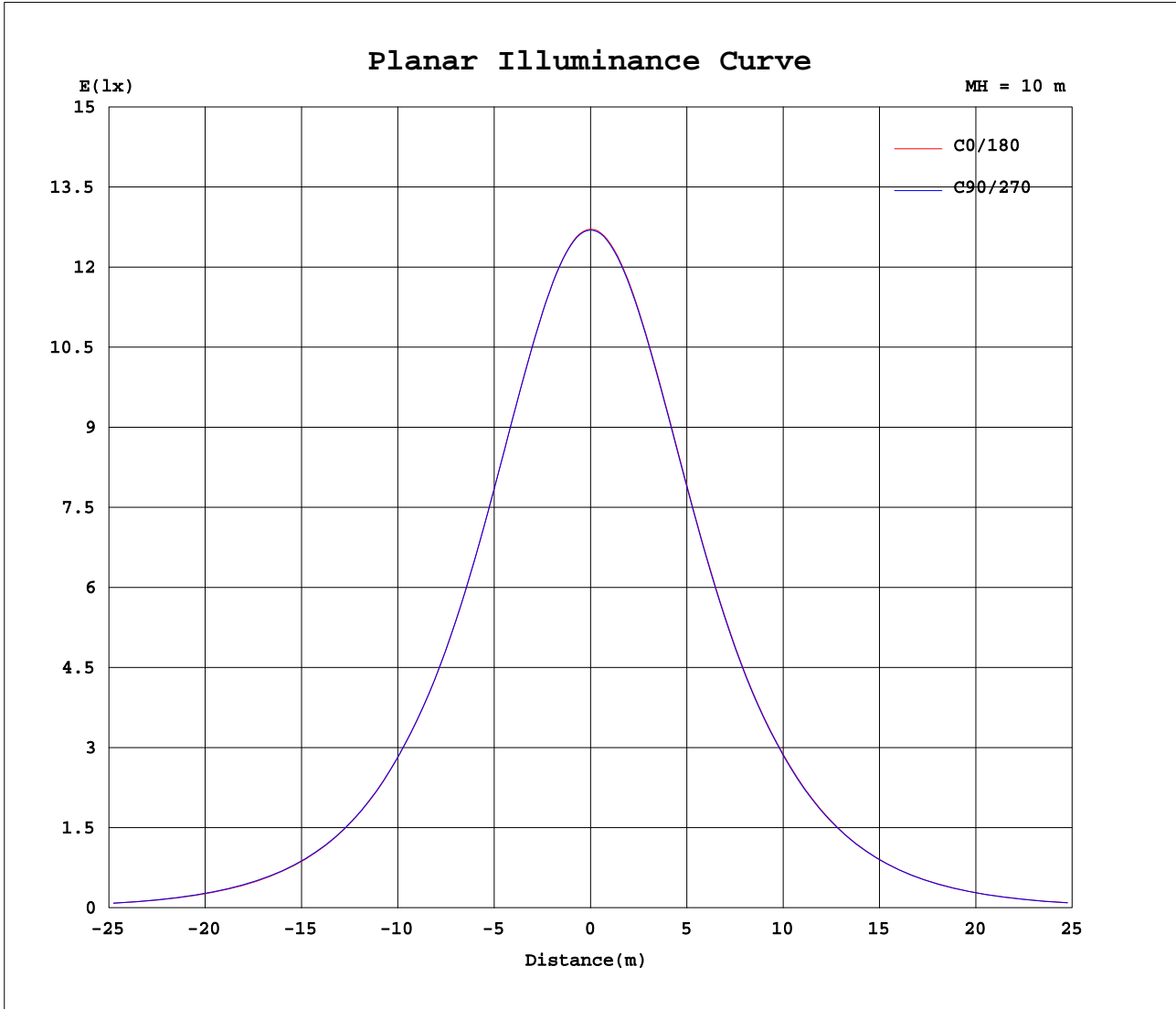
Test:U:240.6V I:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.61lx1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:0.09	PROTECTION ANGLE:



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:0.1330A P:31.80W PF:0.9900 Lamp Flux:3033.6lx1 lm		
NAME: ID33W-CC	TYPE:33W	WEIGHT:
DIM.:	SPEC.:5700K	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	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270						
5	1263	1263	1263	1263	1263	1264	1265	1264	1264	1264	1265	1264						
10	1244	1244	1244	1244	1243	1246	1247	1246	1246	1246	1247	1246						
15	1212	1213	1212	1212	1212	1215	1217	1216	1217	1216	1217	1215						
20	1169	1171	1169	1170	1169	1173	1176	1174	1175	1174	1176	1173						
25	1115	1116	1114	1116	1115	1119	1123	1121	1123	1121	1123	1119						
30	1049	1051	1049	1051	1050	1055	1060	1057	1059	1057	1059	1054						
35	974	976	974	976	974	980	986	983	985	983	984	980						
40	889	893	890	892	890	897	903	900	902	899	901	896						
45	796	800	797	799	798	805	812	808	811	808	810	804						
50	679	684	681	684	681	690	699	695	699	695	697	689						
55	546	552	549	552	549	558	567	564	568	564	566	556						
60	400	408	405	408	405	412	422	418	423	420	422	411						
65	248	254	253	256	255	260	269	267	270	267	267	259						
70	112	116	112	115	114	122	130	127	126	123	124	118						
75	40.8	40.7	40.2	41.3	40.8	41.8	44.3	42.7	42.7	42.7	42.3	41.4						
80	27.7	26.6	26.5	28.4	27.0	27.8	30.4	28.6	28.3	29.5	28.5	27.5						
85	13.3	13.1	12.9	14.1	13.4	14.1	16.3	15.1	14.6	15.5	14.5	13.9						
90	1.04	1.02	1.04	1.01	0.98	0.97	1.42	1.39	1.33	1.31	1.32	1.33						

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: