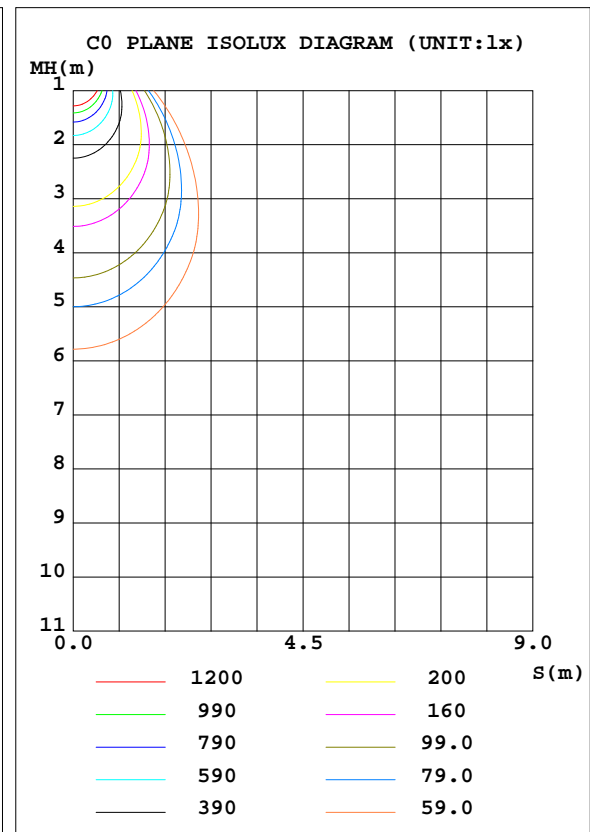
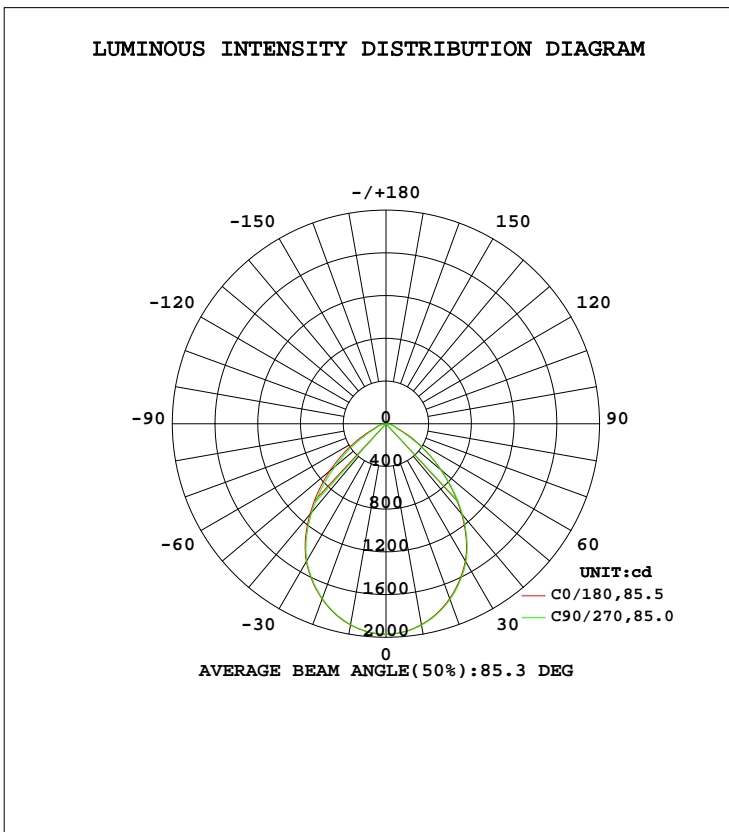


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.76 lm/W			
MODEIDL254-6-33W-OAC3-3000K		I _{max} (cd)	1971	S/MH(C0/180)	1.14
NOMINAL POWER(W)	33	LOR(%)	100.0	S/MH(C90/270)	1.14
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3606.8	η UP, DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	3606.78	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1910	1914	1913	1910				0- 10	185.3	185.3	5.14,5.14
20	1742	1751	1748	1742				10- 20	518.2	703.5	19.5,19.5
30	1486	1497	1492	1482				20- 30	748.2	1452	40.2,40.2
40	1100	1115	1110	1080				30- 40	815.0	2267	62.8,62.8
50	670.8	673.7	687.4	627.1				40- 50	677.9	2945	81.6,81.6
60	305.1	271.5	308.0	246.7				50- 60	415.1	3360	93.1,93.1
70	96.92	91.19	97.03	87.39				60- 70	161.4	3521	97.6,97.6
80	43.99	34.60	43.42	33.62				70- 80	69.86	3591	99.6,99.6
90	0.5963	0.5064	0.4686	0.4453				80- 90	15.88	3607	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		

Conical surface Flux(90deg): 2633.1 lm

%lum = 73.0%
 %lamp = 73.0%

Conical surface Flux(120deg): 3359.7 lm

%lum = 93.1%
 %lamp = 93.1%

0 - 45 DEG Zonal Flux:2633.1 %lum: 73.0%
 0 - 60 DEG Zonal Flux:3359.7 %lum: 93.1%

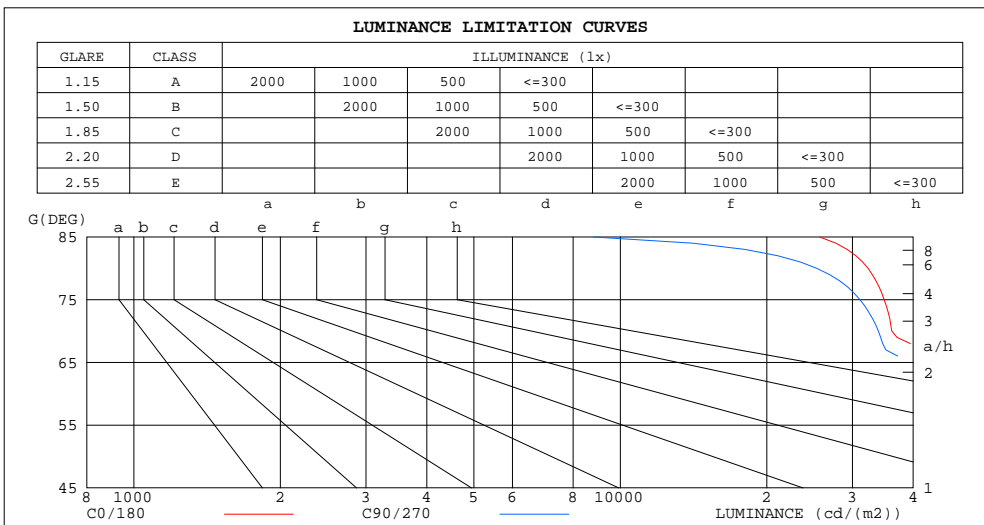
All measured values may vary less than 35 %
 from the average measured value in the 0 to 130 deg. zone: 16.5%
 All measured values in the 0 to 130 deg. zone
 may vary less than 50% from the average value of itself: 23.9%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	25681	8809
80	32310	25348
75	34870	31087
70	36145	33923
65	51254	40827
60	77827	69088
55	106022	102673
50	133111	133345
45	159172	161155

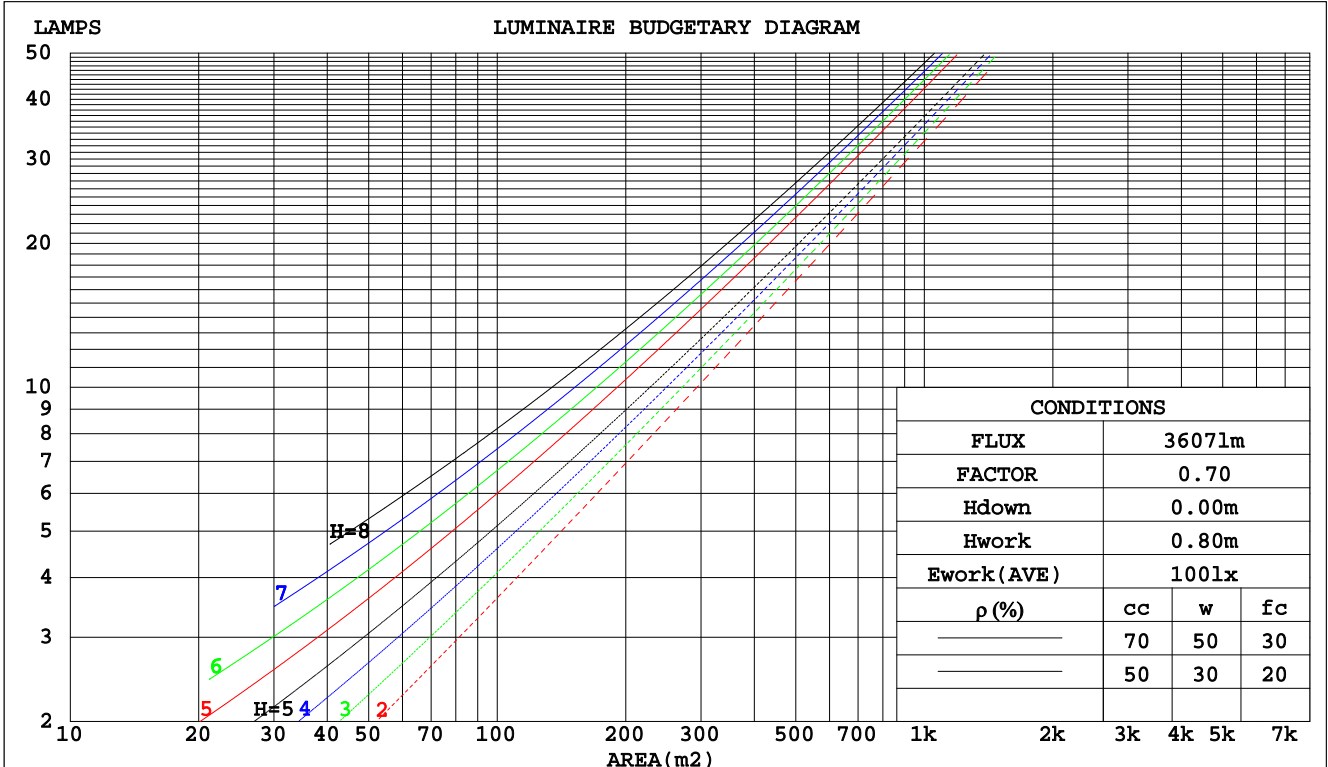
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding 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																
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	1.08	1.04	1.01	1.05	1.02	.90	1.01	.99	.97	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.91	.87	.95	.90	.86	.92	.87	.84	.88	.85	.82	.86	.83	.80	.78
3.0	.87	.81	.75	.86	.80	.75	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.65	.75	.69	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.64	.58	.71	.63	.58	.69	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.58	.52	.65	.57	.52	.63	.56	.51	.61	.55	.51	.60	.55	.51	.49
7.0	.60	.52	.47	.59	.52	.47	.58	.51	.46	.56	.51	.46	.55	.50	.46	.44
8.0	.55	.48	.42	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.43	.39	.49	.43	.38	.48	.43	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding 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	.238	.136	.043	.231	.132	.042	.219	.125	.040	.207	.119	.038	.196	.113	.037	
2.0	.231	.127	.039	.225	.124	.038	.214	.119	.037	.204	.114	.036	.194	.110	.035	
3.0	.220	.117	.035	.215	.115	.035	.205	.111	.034	.196	.107	.033	.187	.104	.032	
4.0	.208	.108	.032	.203	.106	.031	.195	.103	.031	.187	.100	.030	.179	.097	.030	
5.0	.196	.100	.029	.192	.098	.029	.184	.096	.028	.177	.093	.028	.171	.091	.027	
6.0	.185	.093	.027	.181	.092	.026	.174	.089	.026	.168	.087	.026	.162	.085	.025	
7.0	.174	.086	.024	.171	.085	.024	.165	.084	.024	.160	.082	.024	.154	.080	.024	
8.0	.165	.081	.023	.162	.080	.023	.157	.078	.022	.152	.077	.022	.147	.075	.022	
9.0	.156	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.140	.071	.021	
10.0	.148	.071	.020	.146	.070	.020	.142	.069	.020	.137	.068	.019	.133	.067	.019	

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	.175	.157	.140	.150	.135	.121	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.105	.141	.114	.091	.096	.079	.064	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.071	.091	.068	.050	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.120	.077	.045	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.109	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding 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	28.3	29.6	28.5	29.8	30.0	28.2	29.5	28.4	29.6	29.8
3H	28.4	29.6	28.7	29.8	30.1	28.3	29.4	28.5	29.7	29.9
4H	28.5	29.6	28.8	29.9	30.1	28.3	29.4	28.6	29.7	29.9
6H	28.6	29.6	28.9	29.9	30.1	28.3	29.4	28.6	29.6	29.9
8H	28.6	29.6	28.9	29.8	30.1	28.3	29.3	28.6	29.6	29.9
12H	28.6	29.5	28.9	29.8	30.1	28.3	29.2	28.6	29.5	29.8
4H 2H	28.3	29.4	28.6	29.7	29.9	28.2	29.3	28.5	29.6	29.8
3H	28.6	29.5	28.9	29.8	30.1	28.4	29.4	28.7	29.7	29.9
4H	28.7	29.6	29.1	29.9	30.2	28.5	29.4	28.9	29.7	30.0
6H	28.8	29.6	29.2	30.0	30.3	28.6	29.4	29.0	29.7	30.1
8H	28.9	29.6	29.3	30.0	30.3	28.6	29.3	29.0	29.7	30.1
12H	28.9	29.6	29.3	29.9	30.3	28.6	29.2	29.0	29.6	30.0
8H 4H	28.7	29.4	29.1	29.8	30.1	28.5	29.2	28.9	29.6	30.0
6H	28.9	29.5	29.3	29.9	30.3	28.7	29.2	29.1	29.6	30.1
8H	29.0	29.5	29.4	29.9	30.4	28.7	29.2	29.2	29.6	30.1
12H	29.0	29.5	29.5	29.9	30.4	28.7	29.1	29.2	29.6	30.0
12H 4H	28.7	29.3	29.1	29.7	30.1	28.5	29.1	28.9	29.5	29.9
6H	28.9	29.4	29.3	29.8	30.3	28.7	29.2	29.1	29.6	30.0
8H	29.0	29.4	29.5	29.9	30.3	28.7	29.1	29.2	29.6	30.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.8 / - 1.1					+ 0.9 / - 1.2				
1.5H	+ 0.4 / - 0.4					+ 0.5 / - 0.5				
2.0H	+ 1.8 / - 2.3					+ 2.0 / - 2.7				

CIE Pub.117, 3607 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.5)
Area: 0.00785 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:

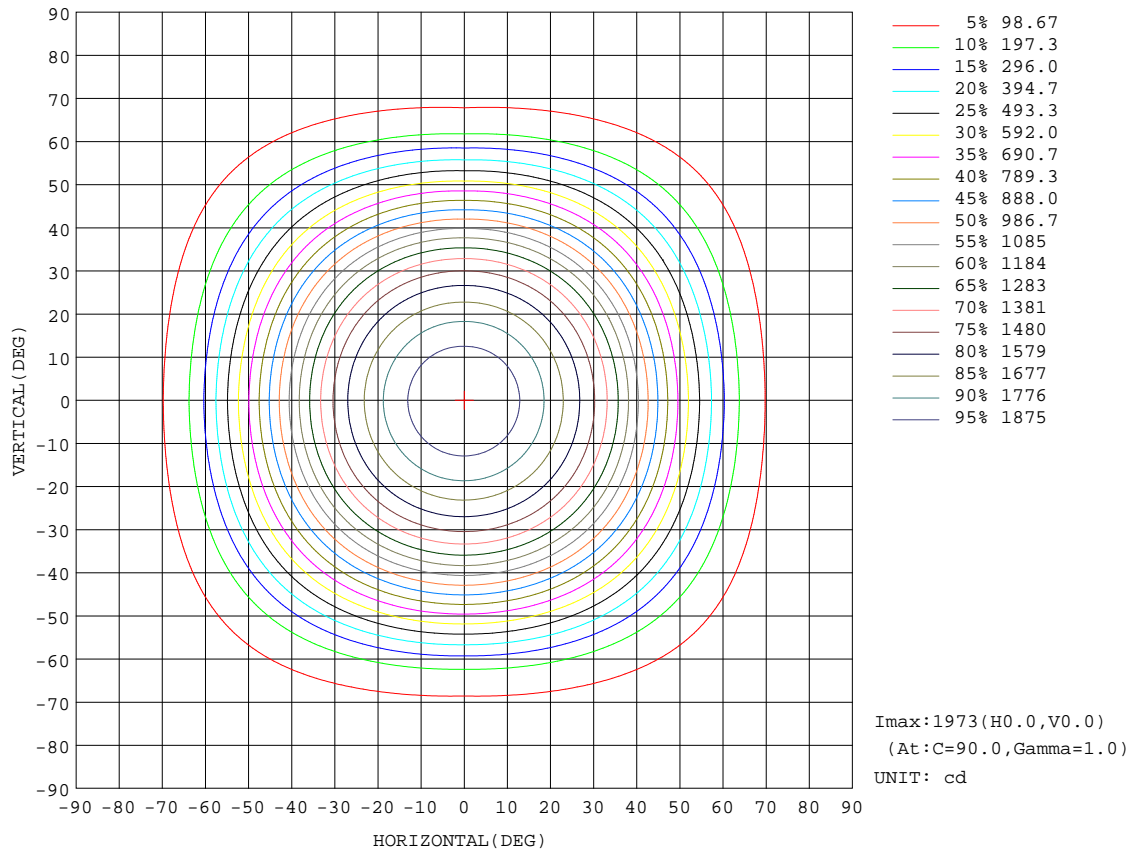
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	68	58	52	67	58	52	66	57	52	46
0.80	78	68	62	77	68	62	75	67	62	56
1.00	86	77	71	85	76	71	83	77	70	65
1.25	92	84	79	91	83	78	89	82	77	71
1.50	96	89	84	95	88	83	92	86	82	76
2.00	102	95	90	100	94	90	97	92	88	82
2.50	104	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:



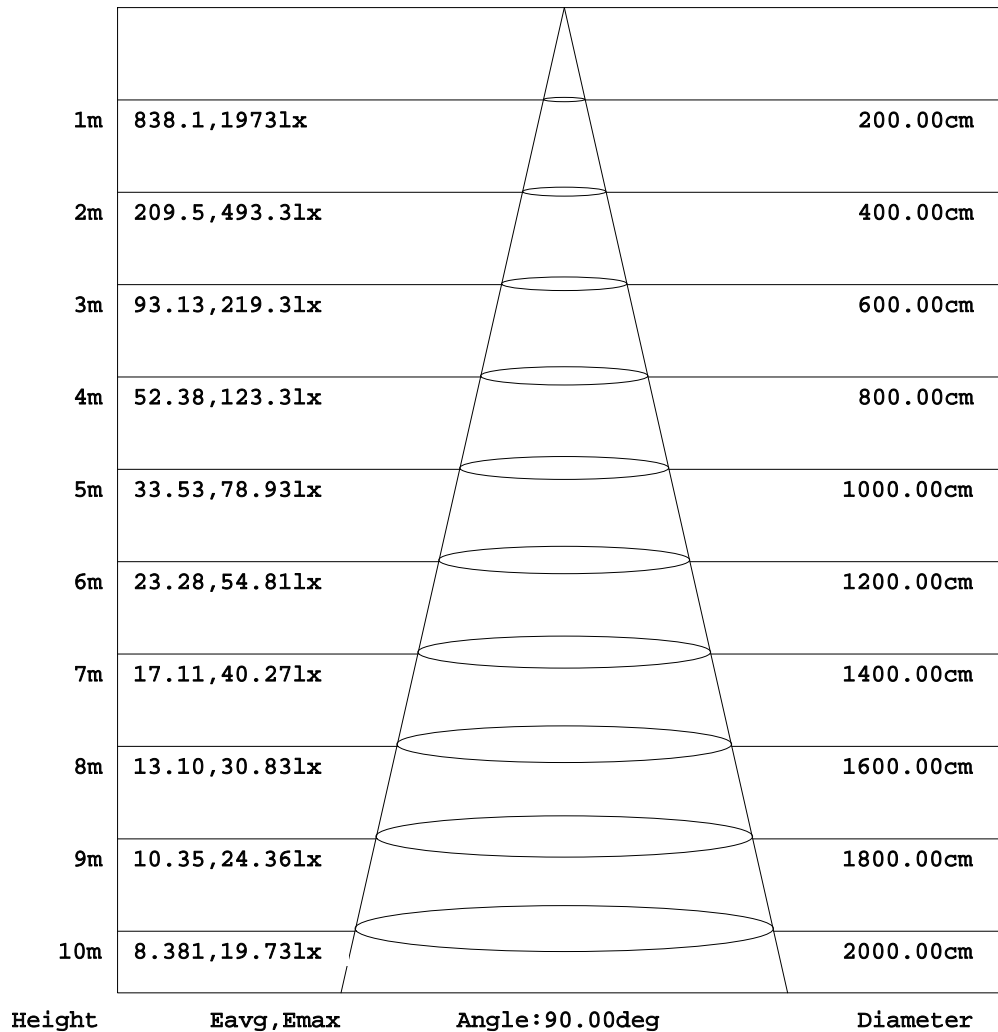
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:

Flux out:2633 lm



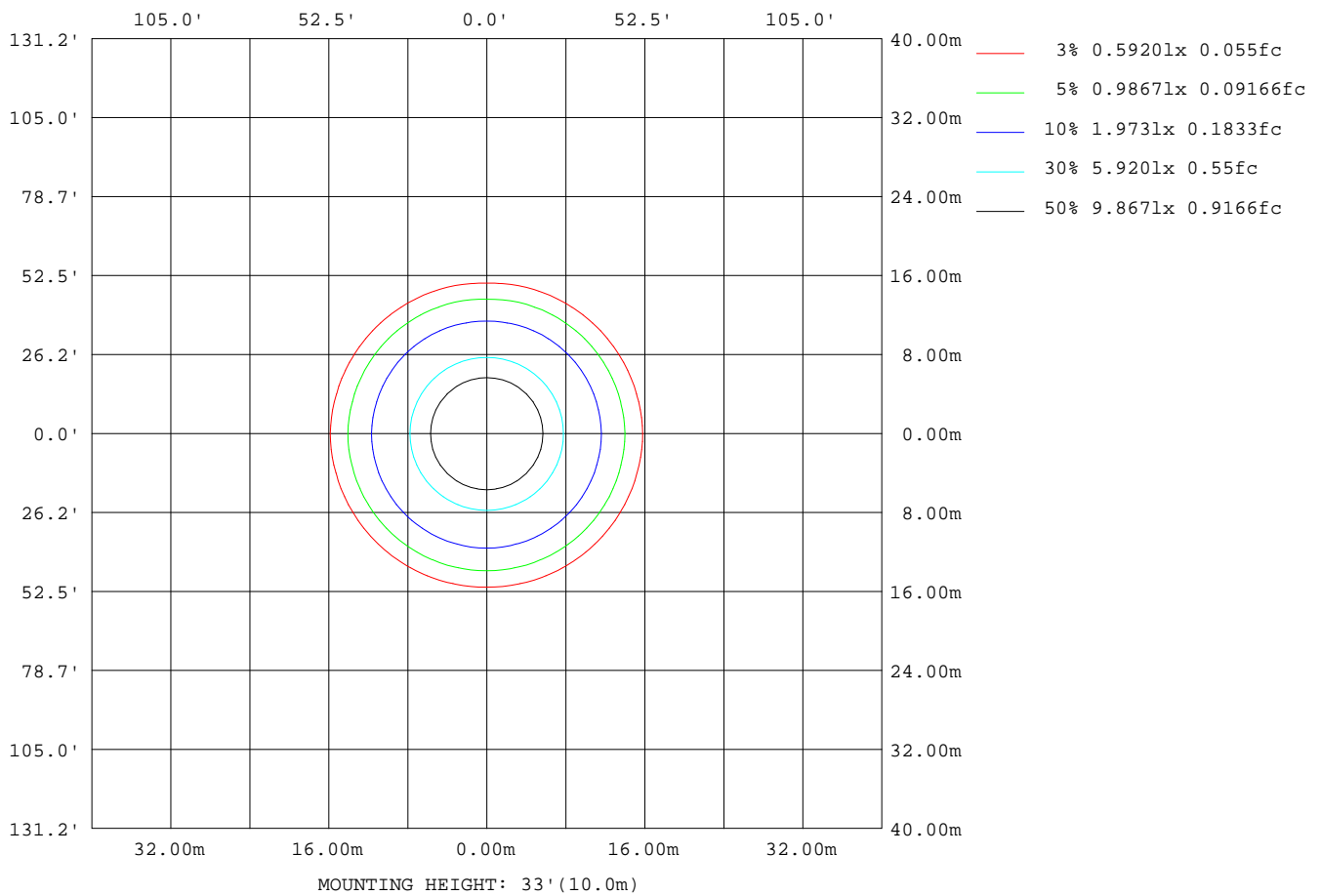
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:

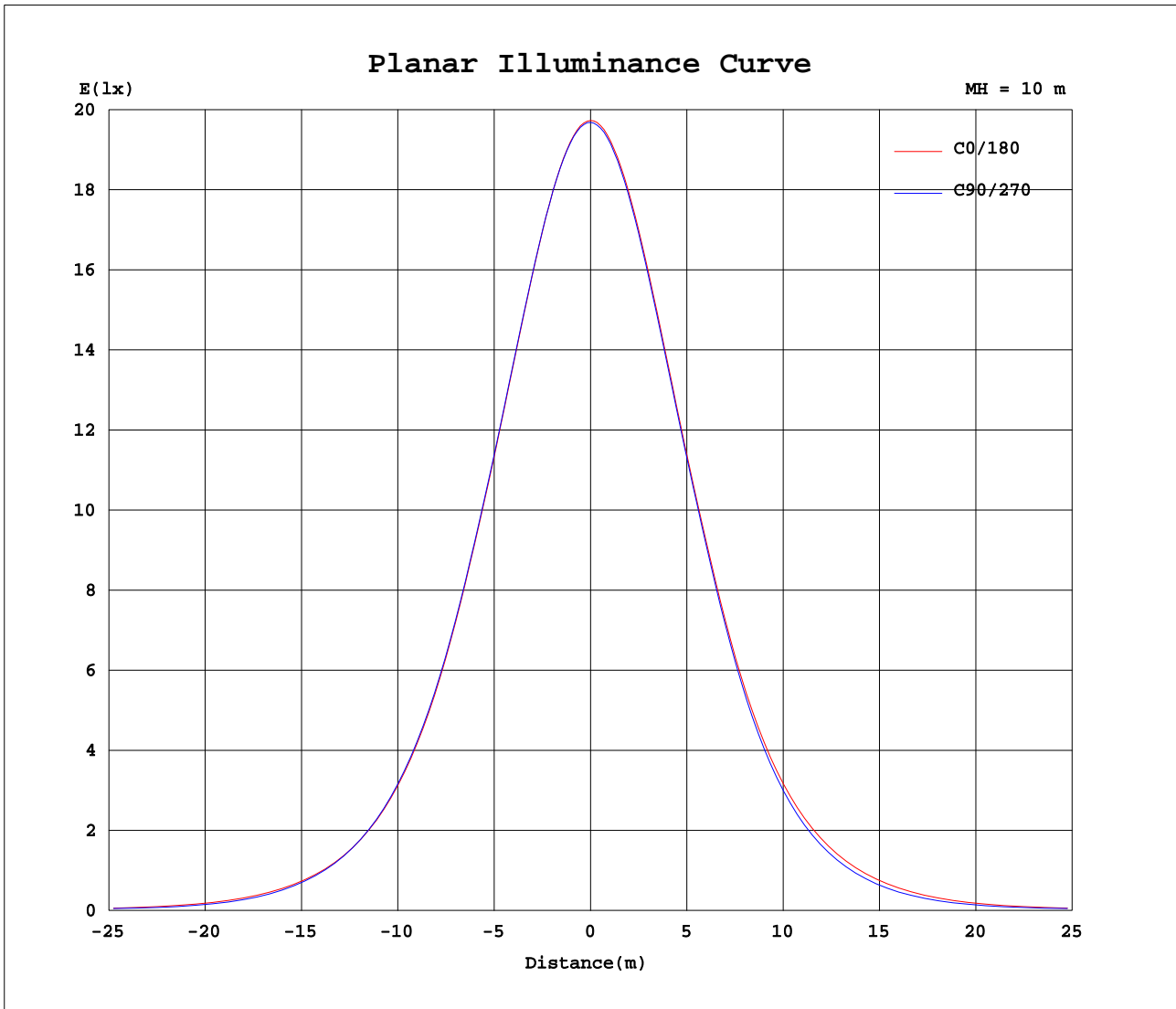
AvgL	cd/m2
L_0~180(65)av	51061
L_0~180(75)av	34792
L_0~180(85)av	24879
L_90~270(65)av	39821
L_90~270(75)av	30530
L_90~270(85)av	9004
L_45(65)av	44034
L_45(75)av	32128
L_45(85)av	14918

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.06V I:0.1420A P:31.706W PF:0.9705 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3606.78x1 lm		
NAME: DL254-6-33W-OAC3-3000K	TYPE: 33W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: #1
MFR.:	SUR.: 0.00785	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270														
0	1971	1971	1971	1971														
5	1955	1958	1956	1954														
10	1910	1914	1913	1910														
15	1839	1845	1844	1838														
20	1742	1751	1748	1742														
25	1624	1634	1630	1623														
30	1486	1497	1492	1482														
35	1309	1321	1315	1298														
40	1100	1115	1110	1080														
45	882	896	896	850														
50	671	674	687	627														
55	477	463	489	423														
60	305	272	308	247														
65	170	136	169	129														
70	96.9	91.2	97.0	87.4														
75	70.8	63.2	70.6	60.8														
80	44.0	34.6	43.4	33.6														
85	17.5	6.03	16.5	6.29														
90	0.60	0.51	0.47	0.45														

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-11-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks: