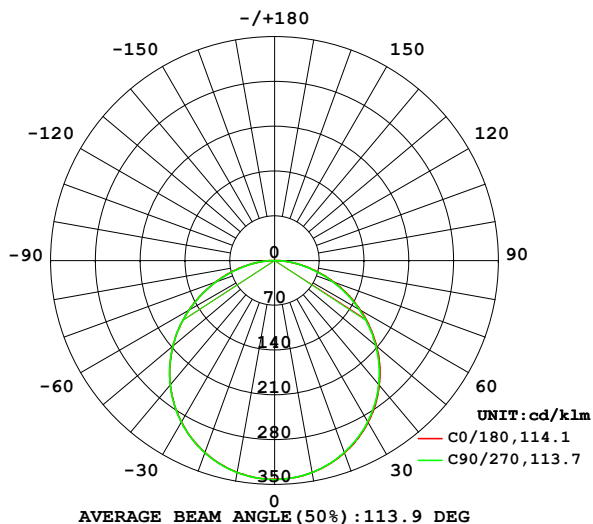


## LUMINAIRE PHOTOMETRIC TEST REPORT

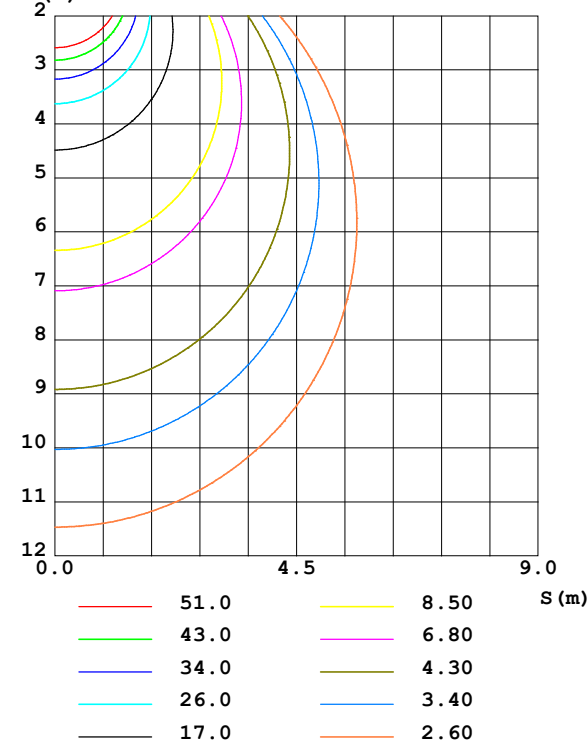
Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 59.31 lm/W			
MODEL	LB76354	I <sub>max</sub> (cd/klm)	342.3	S/MH(C0/180)	1.27
NOMINAL POWER(W)	35	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm/klm)	1000.0	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	2154.18	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx/klm)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3℃  
Operators:  
Test Date: 2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

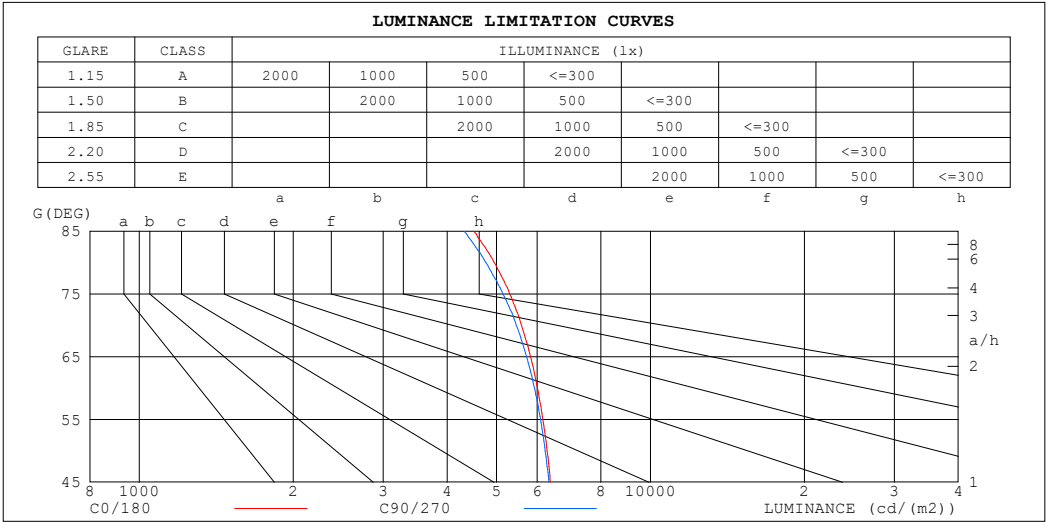
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	336.4	336.6	336.3	336.0	336.2	336.4	336.5	336.5	0- 10	32.38	32.38	3.24,3.24
20	319.8	319.7	319.0	318.4	319.1	319.6	319.6	319.8	10- 20	92.95	125.3	12.5,12.5
30	292.2	292.2	291.0	290.3	291.4	292.1	291.8	292.2	20- 30	141.4	266.7	26.7,26.7
40	254.7	254.6	253.2	252.3	253.7	254.3	253.9	254.3	30- 40	171.4	438.1	43.8,43.8
50	208.1	208.0	206.3	205.4	207.4	208.2	207.4	207.9	40- 50	178.6	616.8	61.7,61.7
60	155.0	155.1	153.0	152.1	154.5	155.5	154.2	154.7	50- 60	162.2	778.9	77.9,77.9
70	98.68	98.78	96.46	95.54	98.38	99.17	97.41	97.62	60- 70	124.8	903.7	90.4,90.4
80	44.33	44.57	42.67	42.01	44.23	44.66	42.80	42.85	70- 80	73.98	977.7	97.8,97.8
90	0.8380	0.8509	0.8509	0.8444	0.6478	0.6382	0.6188	0.6220	80- 90	22.29	1000	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/klm									UNIT:lm/klm		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4508	4321
80	4950	4764
75	5302	5144
70	5594	5468
65	5826	5724
60	6011	5931
55	6160	6096
50	6278	6223
45	6370	6327

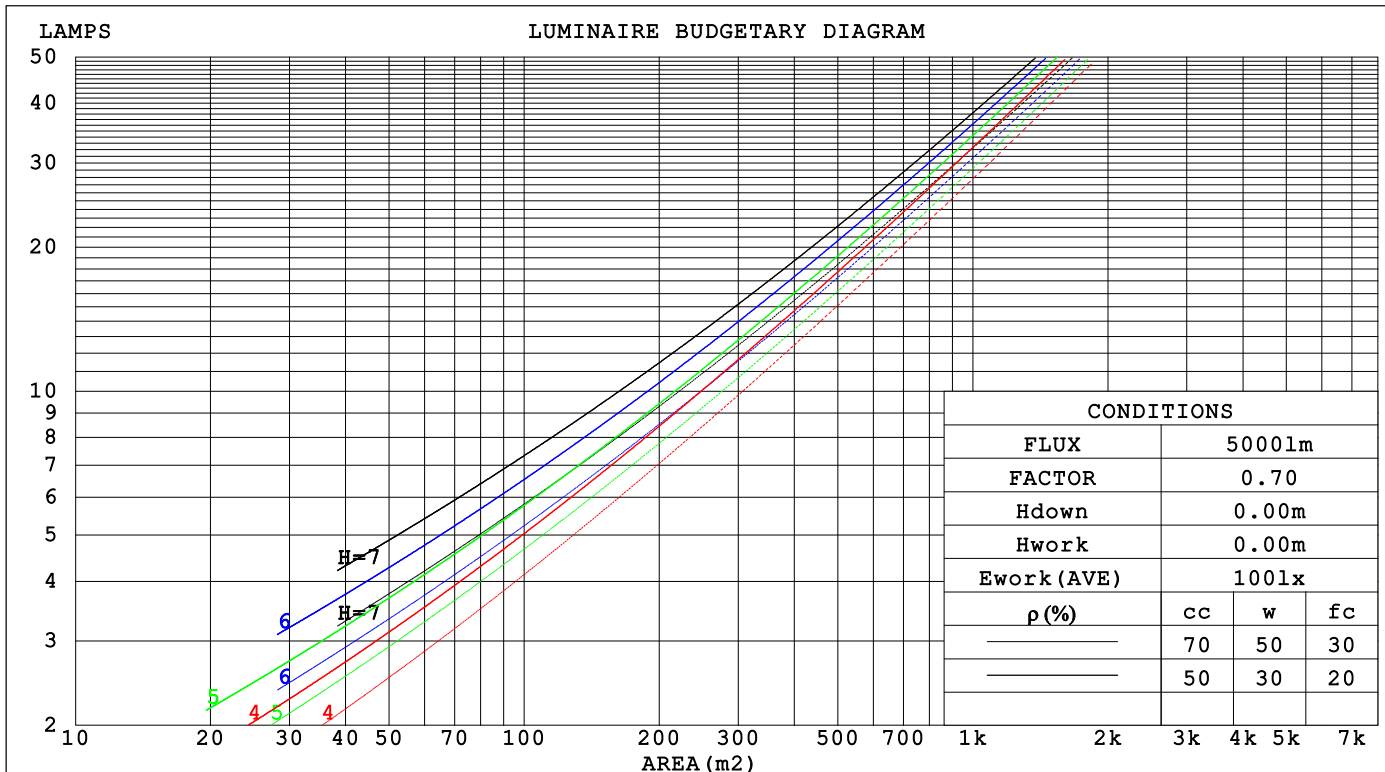
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.316	.180	.057	.309	.176	.056	.296	.170	.054	.283	.163	.052	.272	.158	.051		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.248	.136	.042	.239	.132	.041		
4.0	.252	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.110	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015		
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011		
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009		
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007		
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006		
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005		
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003		
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003		
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm											
NAME: LB76354					TYPE:			WEIGHT:			
SPEC.: 3500K					DIM.:			SERIAL No.:			
MFR.: LB					SUR.:			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		16.6	18.1	16.8	18.3	18.5	16.5	18.1	16.8	18.3	18.5
3H		18.1	19.6	18.4	19.8	20.0	18.1	19.5	18.4	19.7	20.0
4H		18.8	20.1	19.1	20.4	20.7	18.7	20.0	19.0	20.3	20.6
6H		19.3	20.6	19.6	20.8	21.1	19.2	20.4	19.5	20.7	21.0
8H		19.5	20.7	19.8	21.0	21.3	19.3	20.6	19.7	20.8	21.1
12H		19.6	20.7	19.9	21.0	21.3	19.4	20.6	19.8	20.9	21.2
4H 2H		17.2	18.5	17.5	18.8	19.1	17.2	18.5	17.5	18.8	19.0
3H		19.0	20.1	19.3	20.4	20.7	18.9	20.1	19.2	20.4	20.7
4H		19.7	20.8	20.1	21.1	21.5	19.7	20.7	20.0	21.1	21.4
6H		20.4	21.3	20.8	21.7	22.1	20.3	21.2	20.7	21.6	21.9
8H		20.6	21.5	21.0	21.9	22.3	20.5	21.4	20.9	21.8	22.1
12H		20.8	21.6	21.2	22.0	22.4	20.6	21.5	21.1	21.9	22.3
8H 4H		20.0	20.9	20.4	21.3	21.7	20.0	20.9	20.4	21.2	21.6
6H		20.8	21.6	21.3	22.0	22.4	20.7	21.5	21.2	21.9	22.3
8H		21.2	21.8	21.6	22.2	22.7	21.0	21.7	21.5	22.1	22.6
12H		21.4	22.0	21.9	22.4	22.9	21.3	21.9	21.8	22.3	22.8
12H 4H		20.1	20.9	20.5	21.3	21.7	20.0	20.8	20.4	21.2	21.6
6H		20.9	21.6	21.4	22.0	22.4	20.8	21.5	21.3	21.9	22.3
8H		21.3	21.8	21.7	22.3	22.8	21.2	21.7	21.6	22.2	22.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 2154 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.7)  
Area: 0.111111 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

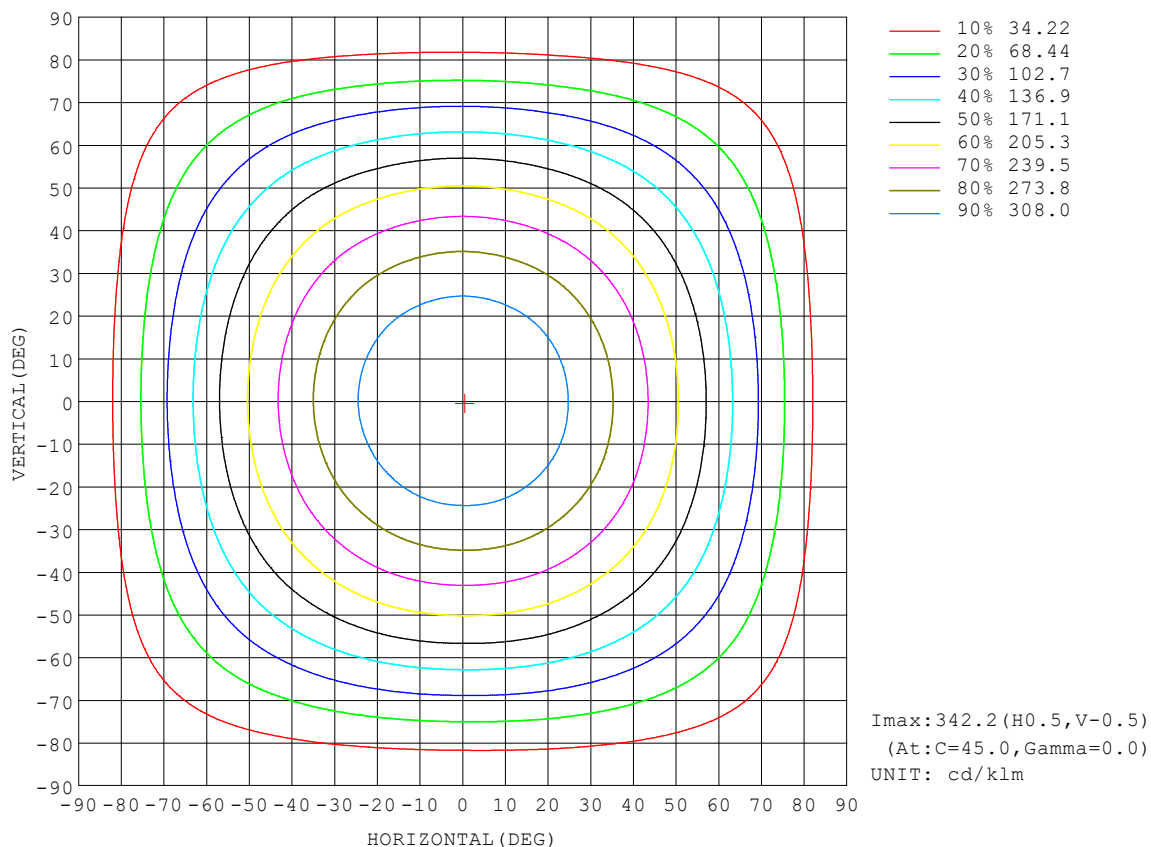
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 2024-03-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:



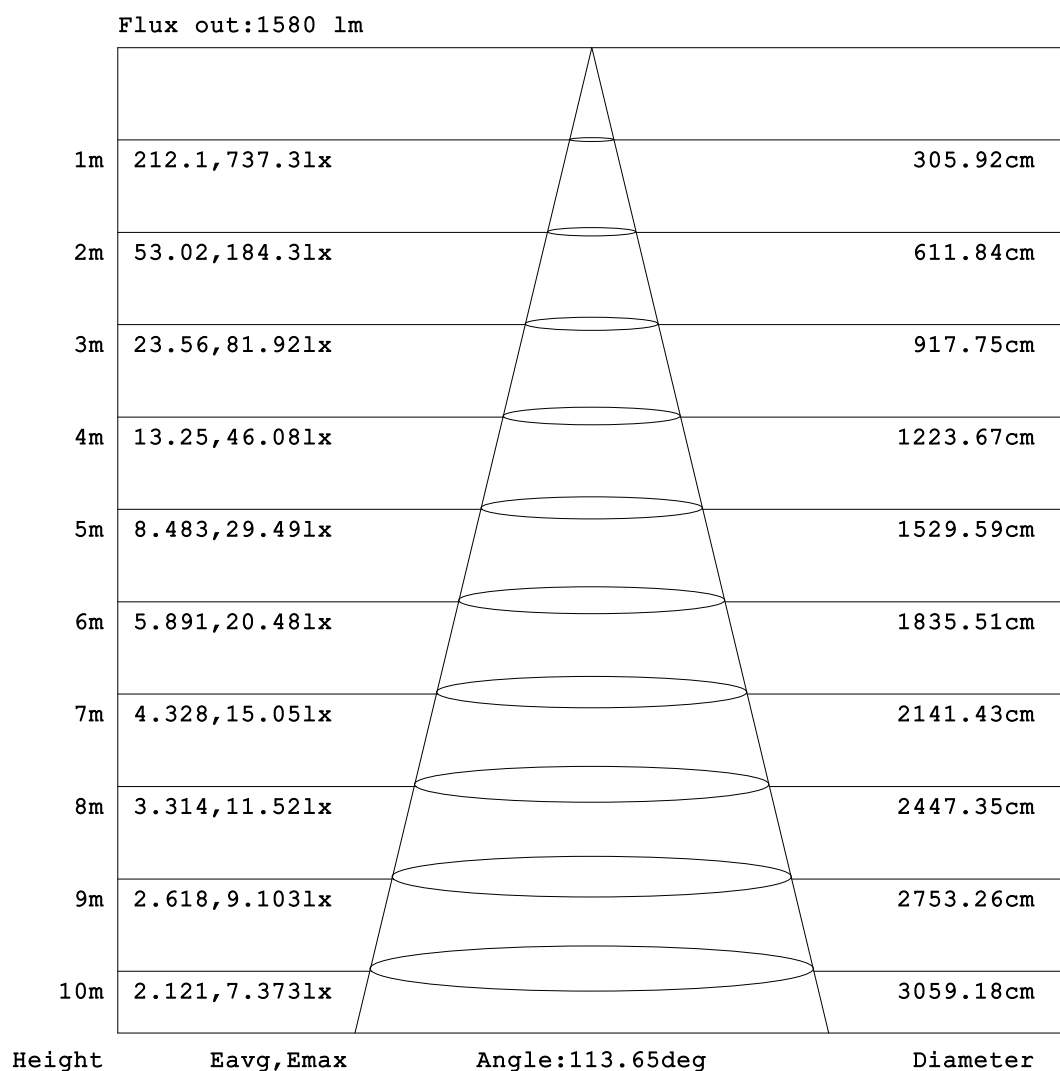
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:



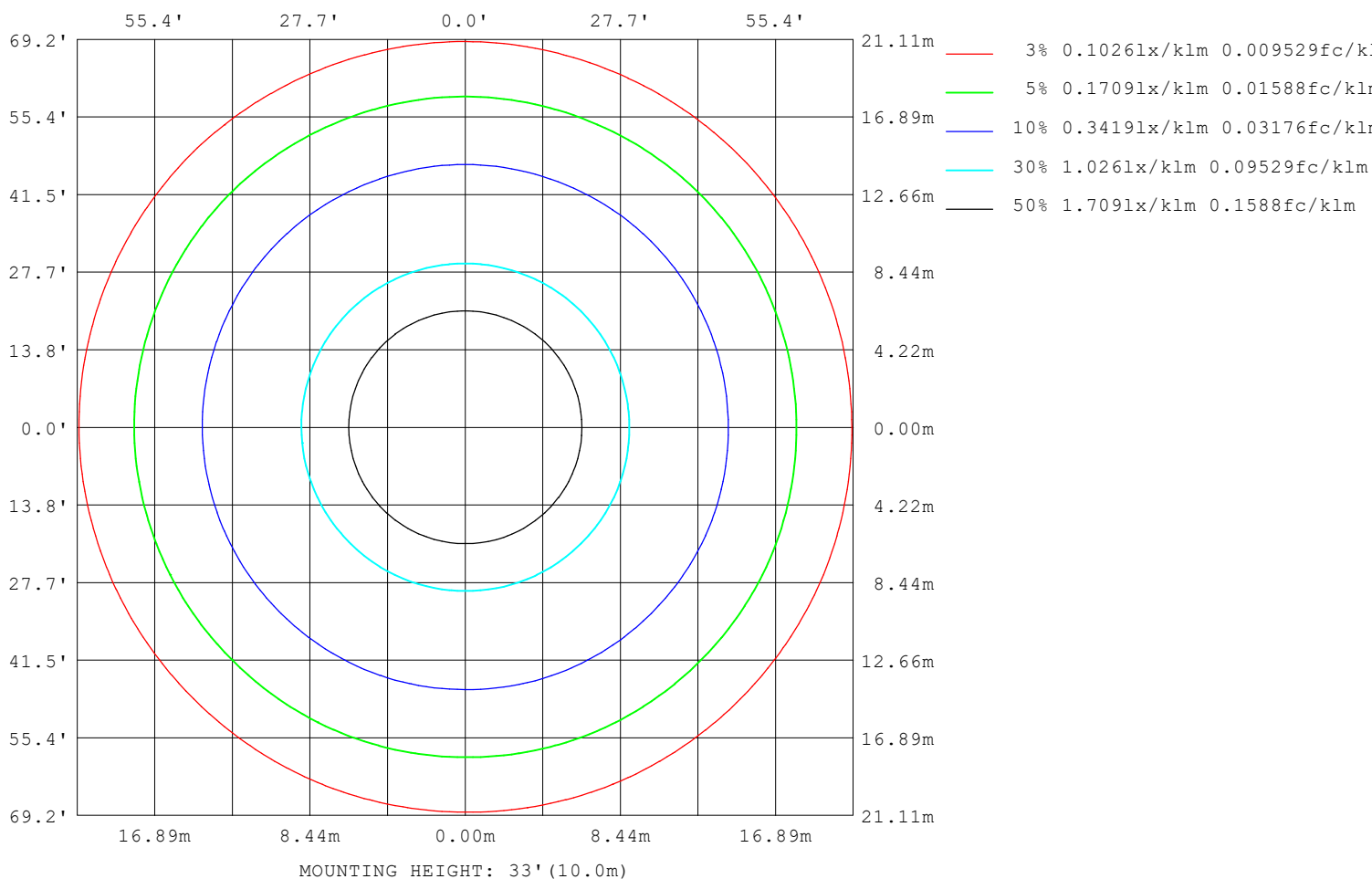
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

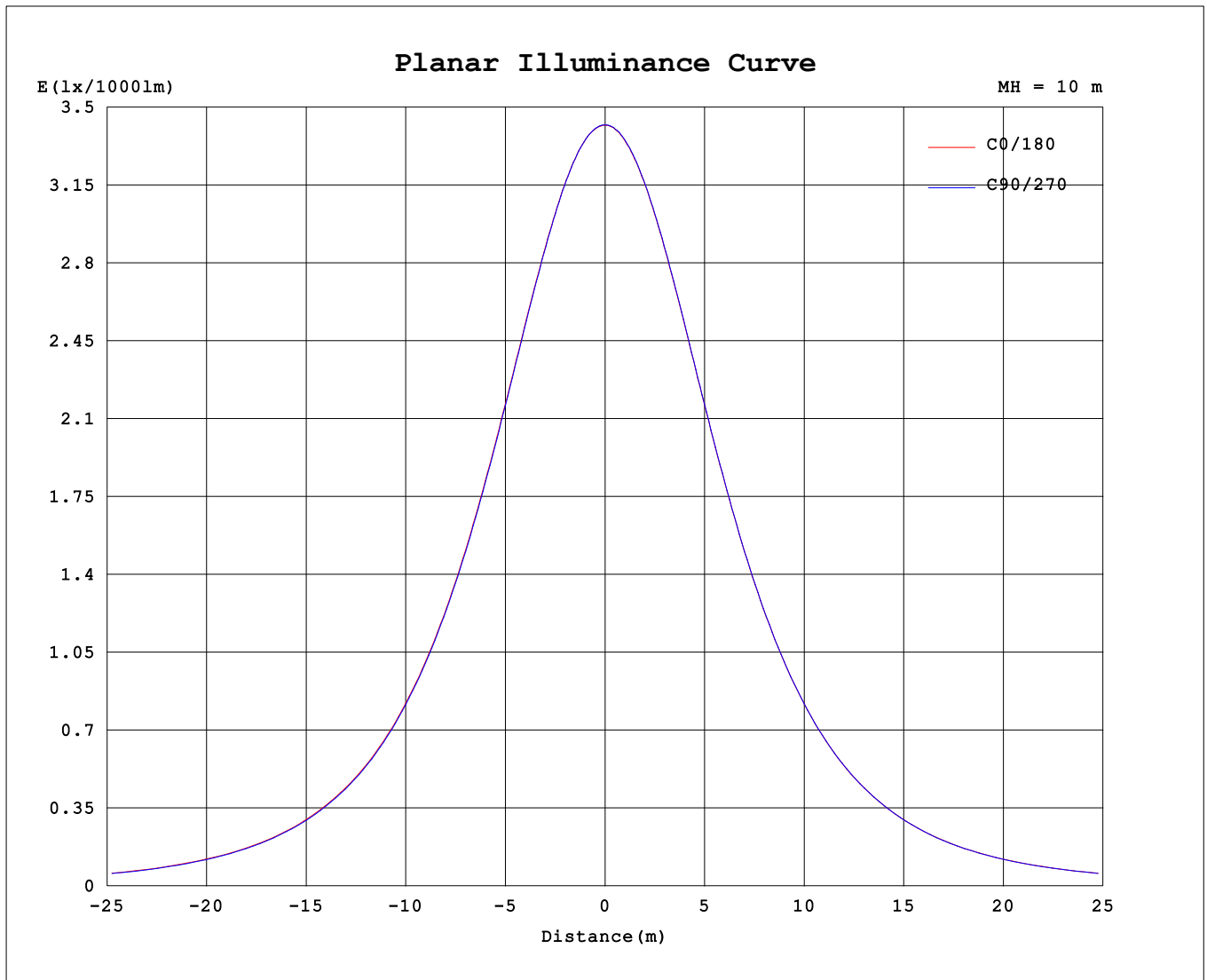
AvgL	cd/m2
L_0~180 (65) av	5817
L_0~180 (75) av	5296
L_0~180 (85) av	4512
L_90~270 (65) av	5752
L_90~270 (75) av	5168
L_90~270 (85) av	4292
L_45 (65) av	5788
L_45 (75) av	5236
L_45 (85) av	4400

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity:65.0%  
Test Distance:10.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators:  
Test Date: 2024-03-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.479  
Humidity: 65.0%  
Test Distance: 10.000m [K=1.0000]  
Remarks:

Test:U:120.68V I:0.3299A P:36.320W PF:0.9123 Freq:59.98Hz Lamp Flux:2154.18x1 lm		
NAME: LB76354	TYPE:	WEIGHT:
SPEC.: 3500K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

UNIT: cd/klm

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 2024-03-15

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

```