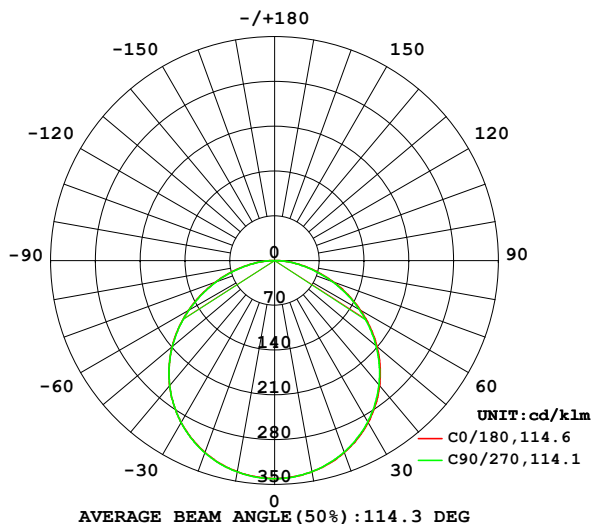


## LUMINAIRE PHOTOMETRIC TEST REPORT

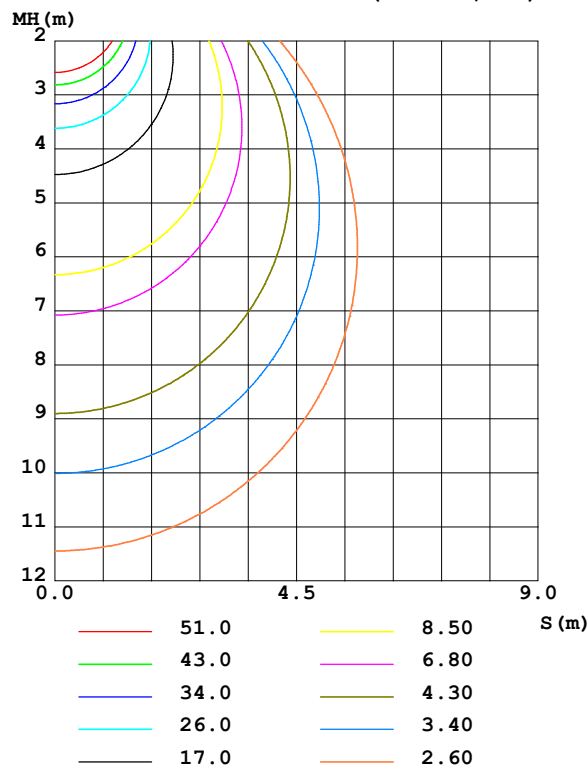
Test:U:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.12 lm/W
MODEL	LB76352	I <sub>max</sub> (cd/klm)	341.0	S/MH (C0/180)	1.28	
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.28	
RATED VOLTAGE (V)	120.0	TOTAL FLUX (lm/klm)	1000.0	η UP, DN (C0-180)	0.0,49.9	
NOMINAL FLUX (lm)	2355.48	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 °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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

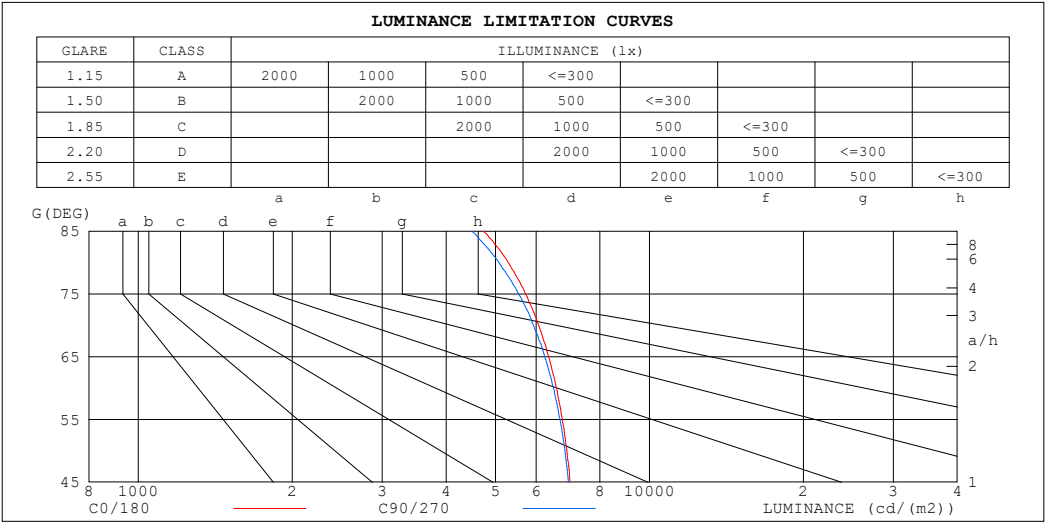
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	335.3	335.1	335.2	335.1	335.1	335.4	335.4	335.6	0- 10	32.27	32.27	3.23,3.23
20	319.2	318.4	318.4	318.8	318.9	319.1	319.4	319.9	10- 20	92.74	125.0	12.5,12.5
30	292.3	291.3	291.1	291.8	292.3	292.2	292.5	293.3	20- 30	141.4	266.5	26.6,26.6
40	255.6	254.1	253.8	254.9	255.3	255.0	255.3	256.4	30- 40	171.9	438.4	43.8,43.8
50	209.0	207.2	207.1	208.3	209.0	208.4	208.7	210.2	40- 50	179.6	617.9	61.8,61.8
60	155.1	153.1	153.0	154.8	155.5	154.5	154.6	156.3	50- 60	162.8	780.8	78.1,78.1
70	97.90	95.64	95.67	97.81	98.28	96.81	96.86	98.89	60- 70	124.7	905.4	90.5,90.5
80	43.34	41.44	41.56	43.31	43.36	41.77	41.79	43.74	70- 80	73.13	978.6	97.9,97.9
90	0.8401	0.8283	0.9491	0.8902	0.6308	0.6249	0.7251	0.7074	80- 90	21.44	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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4733	4491
80	5291	5074
75	5721	5546
70	6068	5930
65	6348	6241
60	6574	6487
55	6754	6684
50	6892	6831
45	6996	6943

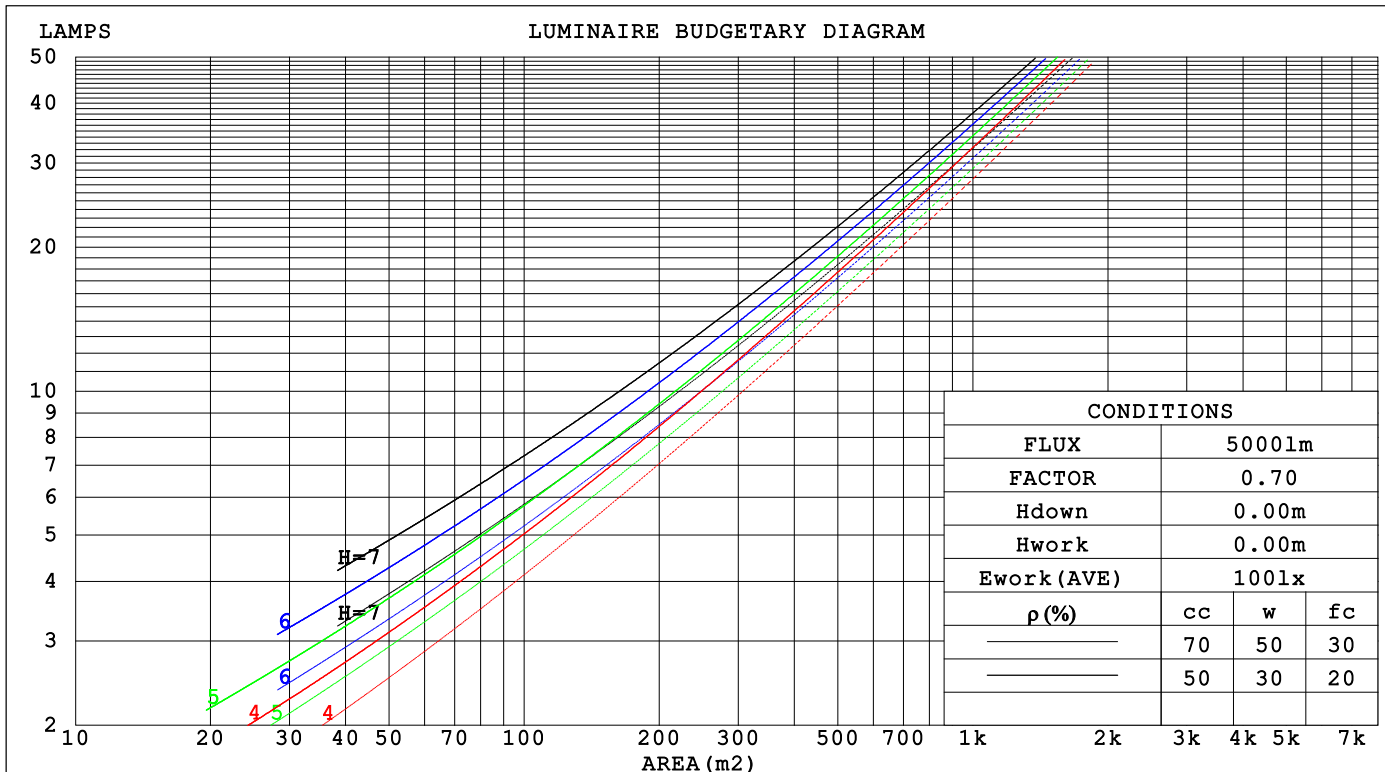
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	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                      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	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.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	.43
6.0	.56	.47	.40	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	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	.315	.179	.057	.308	.176	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051		
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.273	.145	.043	.267	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041		
4.0	.251	.131	.038	.246	.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	.109	.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	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.141	.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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm										
NAME: LB76352					TYPE:			WEIGHT:		
SPEC.: 4000K					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	16.5	18.1	16.8	18.3	18.5	16.5	18.0	16.8	18.2	18.4
3H	18.1	19.5	18.4	19.7	20.0	18.0	19.4	18.3	19.7	19.9
4H	18.7	20.1	19.0	20.3	20.6	18.6	20.0	18.9	20.2	20.5
6H	19.2	20.5	19.5	20.7	21.0	19.1	20.4	19.4	20.6	20.9
8H	19.3	20.6	19.7	20.9	21.2	19.2	20.5	19.6	20.7	21.0
12H	19.5	20.6	19.8	20.9	21.2	19.3	20.5	19.7	20.8	21.1
4H 2H	17.1	18.5	17.5	18.7	19.0	17.1	18.5	17.4	18.7	19.0
3H	18.9	20.1	19.2	20.4	20.7	18.8	20.0	19.2	20.3	20.6
4H	19.6	20.7	20.0	21.0	21.4	19.6	20.6	19.9	21.0	21.3
6H	20.2	21.2	20.6	21.6	21.9	20.1	21.1	20.5	21.4	21.8
8H	20.5	21.4	20.9	21.7	22.1	20.3	21.2	20.7	21.6	22.0
12H	20.6	21.4	21.0	21.8	22.2	20.5	21.3	20.9	21.7	22.1
8H 4H	19.9	20.8	20.3	21.2	21.5	19.8	20.7	20.2	21.1	21.5
6H	20.7	21.4	21.1	21.8	22.2	20.6	21.3	21.0	21.7	22.1
8H	21.0	21.6	21.4	22.1	22.5	20.9	21.5	21.3	21.9	22.4
12H	21.2	21.8	21.7	22.2	22.7	21.1	21.7	21.6	22.1	22.6
12H 4H	19.9	20.7	20.3	21.1	21.5	19.8	20.7	20.3	21.1	21.5
6H	20.7	21.4	21.2	21.8	22.3	20.6	21.3	21.1	21.7	22.2
8H	21.1	21.6	21.5	22.1	22.6	21.0	21.5	21.4	22.0	22.5
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	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2355 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 3.0$ )  
Area: 0.111111 m<sup>2</sup>

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:

## UTILIZATION FACTORS TABLE

Test:U:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

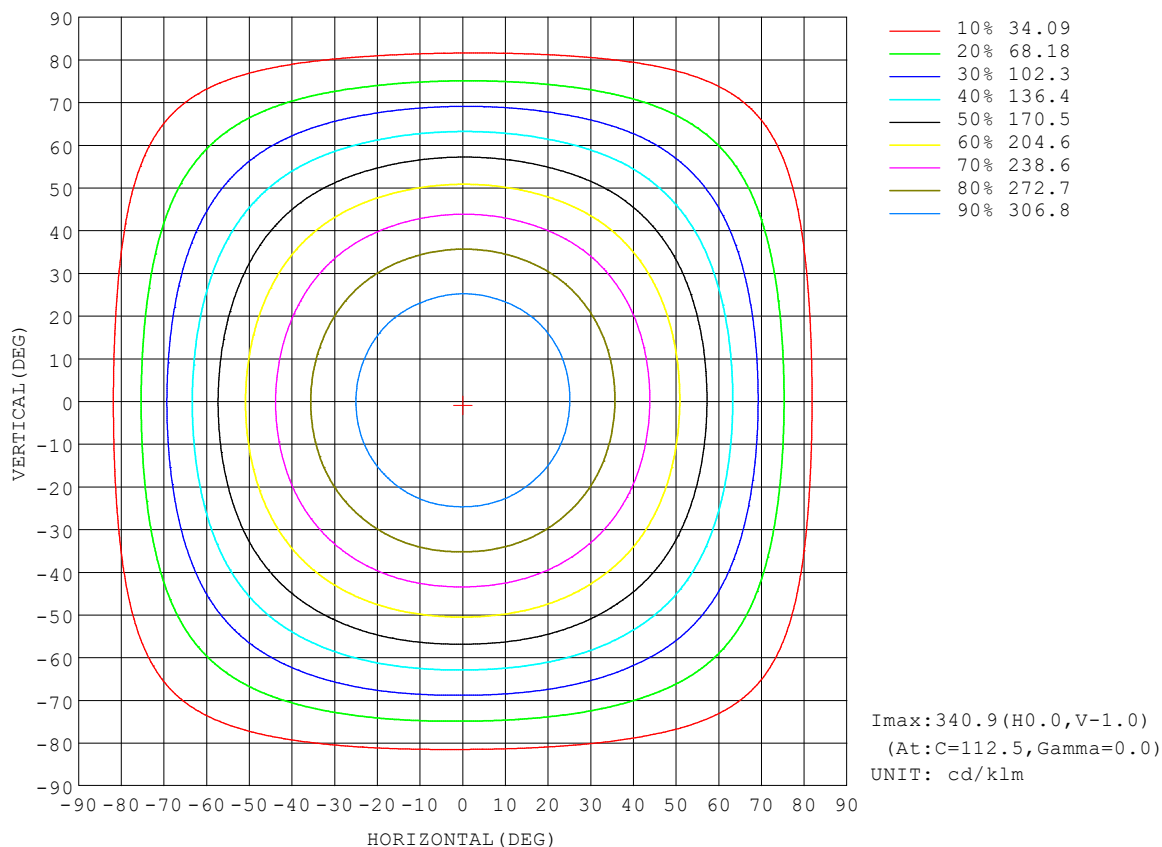
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	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	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
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

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:

## ISOCANDELA DIAGRAM

Test:U:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:



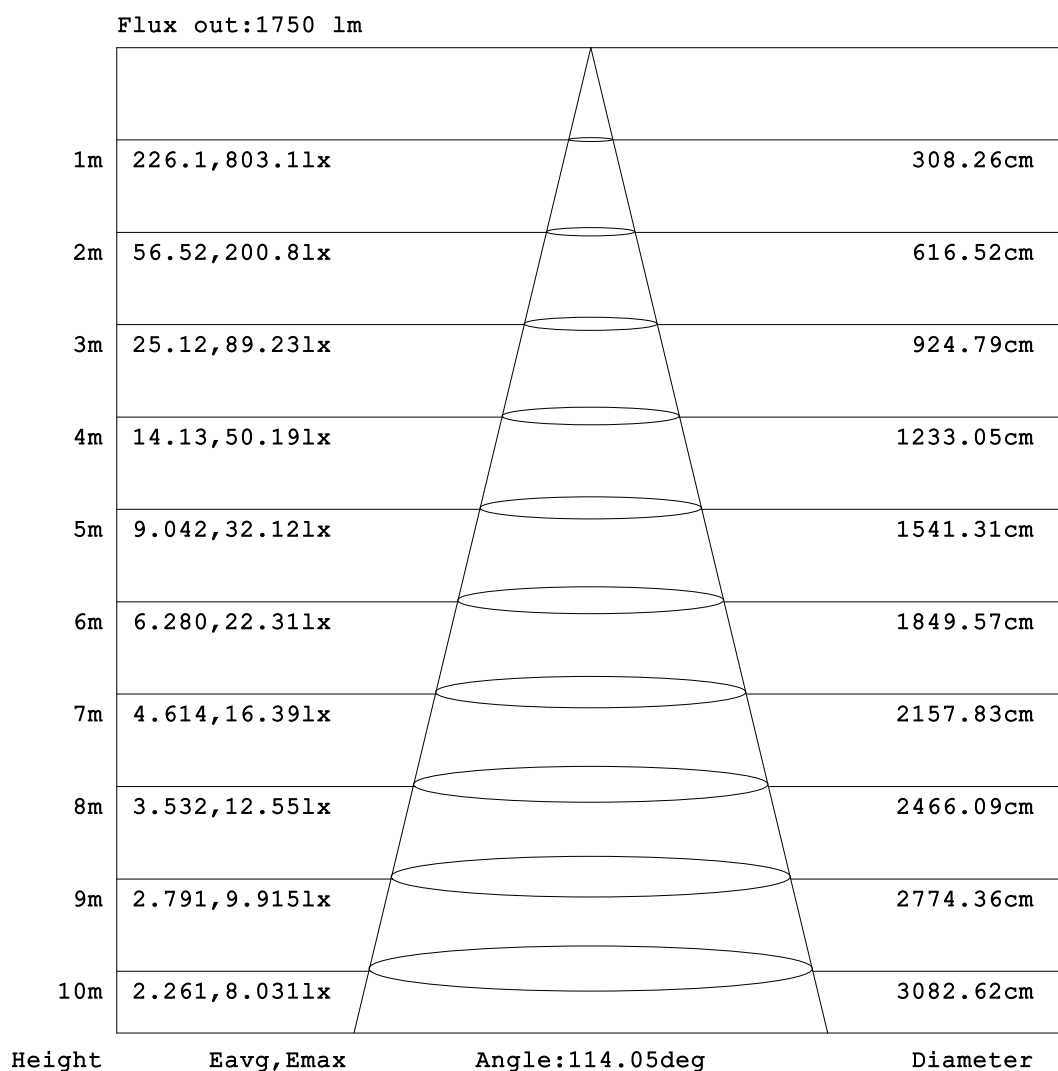
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

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:



### AAI Figure

Test:U:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

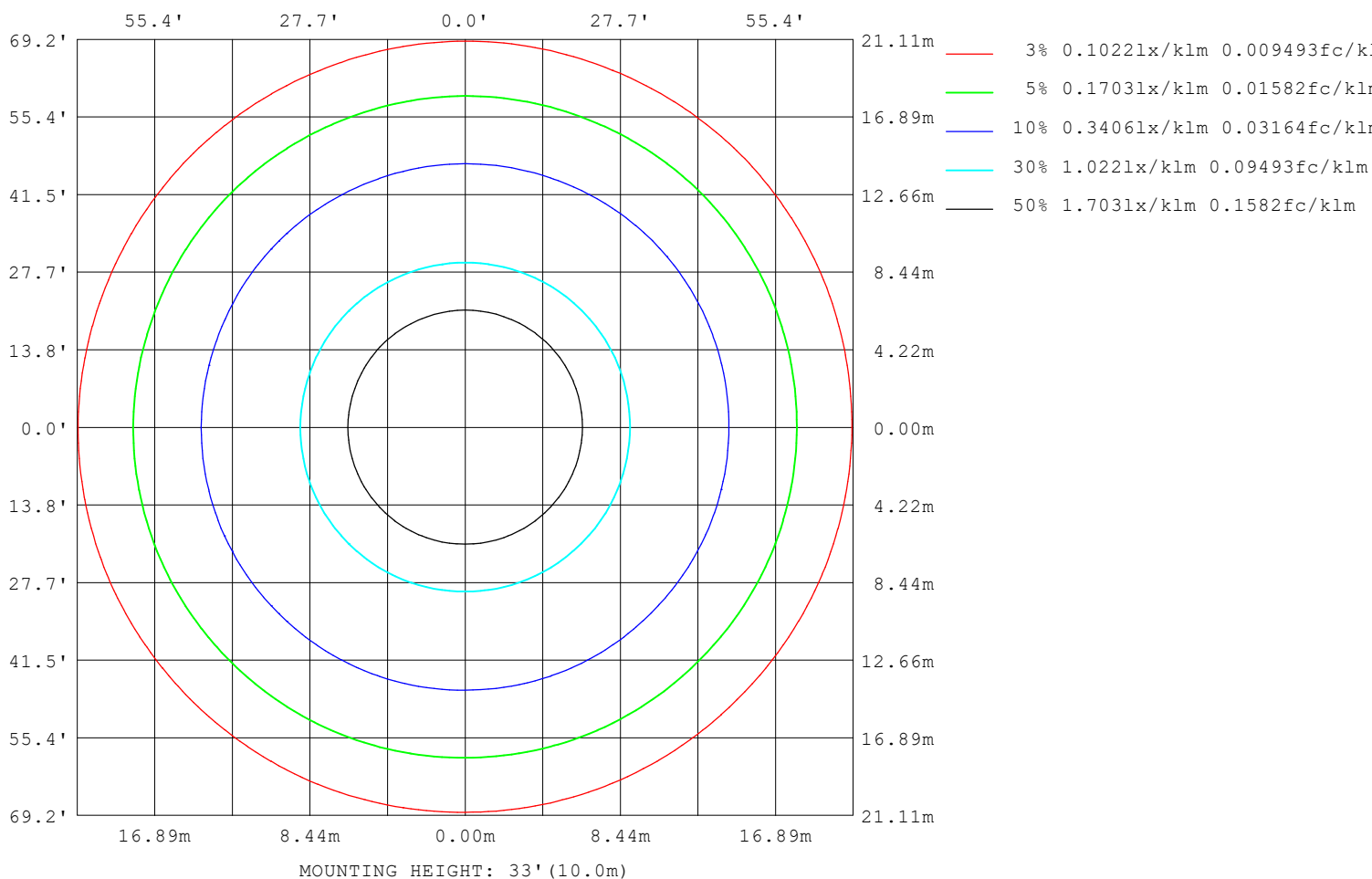


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2024-03-15

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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

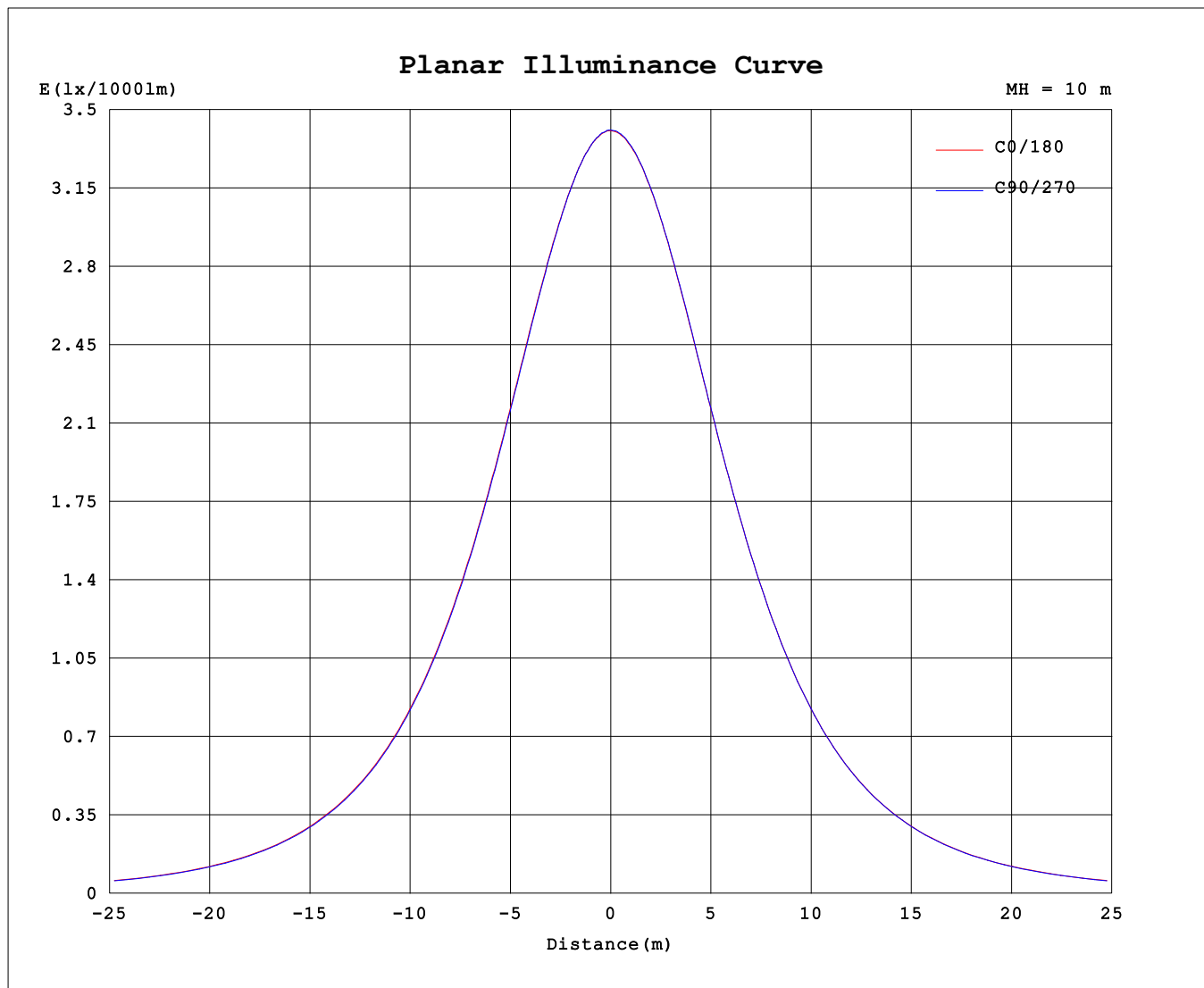
AvgL	cd/m2
L_0~180 (65) av	6358
L_0~180 (75) av	5729
L_0~180 (85) av	4720
L_90~270 (65) av	6277
L_90~270 (75) av	5575
L_90~270 (85) av	4473
L_45 (65) av	6324
L_45 (75) av	5659
L_45 (85) av	4604

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:120.70V I:0.2682A P:29.770W PF:0.9195 Freq:59.98Hz Lamp Flux:2355.48x1 lm		
NAME: LB76352	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: LB	SUR.:	Shielding Angle:

UNIT: cd/klm

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C Interval: 22.5DEG  
Test Speed: HIGH  
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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:

```