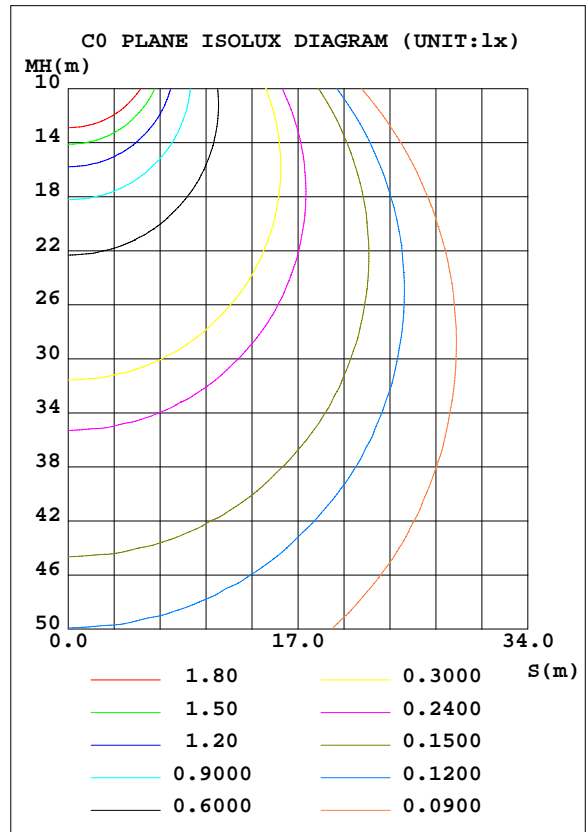
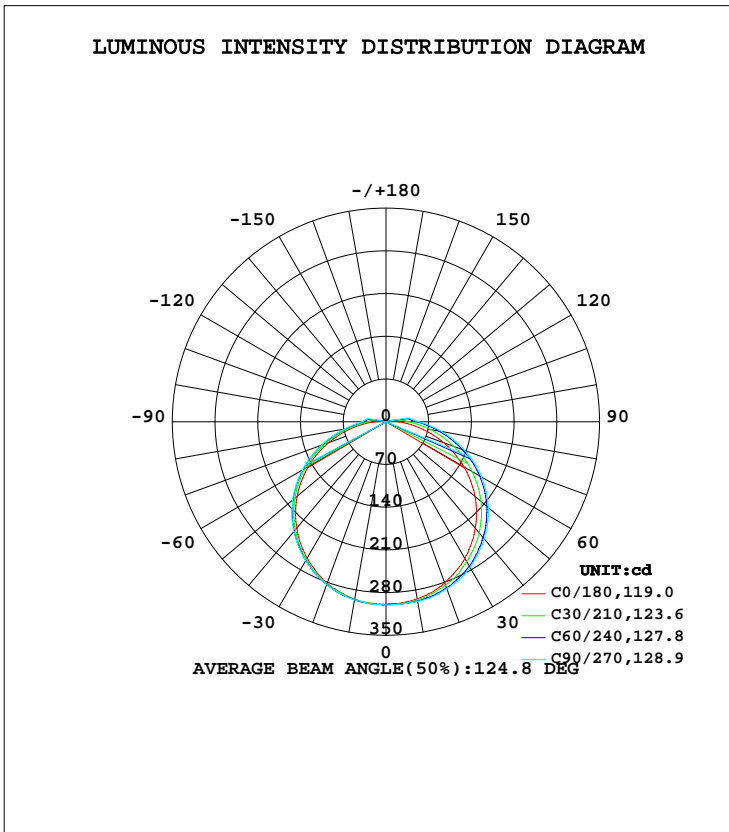


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.56 lm/W			
MODEL	YBCCT-WH-CW	I _{max} (cd)	301.4	S/MH(C0/180)	1.282
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1054.5	η UP, DN(C0-180)	2.0,49.8
NOMINAL FLUX(lm)	1054.51	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.7,46.5
LAMPS INSIDE	1	η up(%)	3.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	96.2	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	295.0	297.4	298.8	298.5	295.8	295.8	296.6	296.7	0- 10	28.49	28.49	2.7,2.7
20	281.2	287.3	291.2	287.6	282.0	283.2	284.0	283.6	10- 20	82.53	111.0	10.5,10.5
30	258.9	269.0	275.9	268.0	258.3	261.8	263.0	261.2	20- 30	127.3	238.3	22.6,22.6
40	227.4	242.6	250.5	240.9	227.1	232.7	234.8	231.8	30- 40	157.3	395.7	37.5,37.5
50	190.5	209.5	219.0	206.6	189.9	196.8	199.4	195.3	40- 50	169.4	565.1	53.6,53.6
60	147.4	170.0	181.1	165.8	147.0	155.0	158.3	153.0	50- 60	162.1	727.2	69,69
70	100.3	125.8	137.5	120.7	99.91	109.1	112.7	106.1	60- 70	136.2	863.5	81.9,81.9
80	54.47	80.80	92.44	74.81	53.66	64.60	68.81	59.79	70- 80	96.56	960.0	91,91
90	19.68	43.33	53.67	36.97	18.10	33.41	39.46	28.33	80- 90	54.66	1015	96.2,96.2
100	14.47	15.33	32.76	12.18	12.66	14.53	29.56	9.824	90-100	30.32	1045	99.1,99.1
110	0.8008	0.8371	0.8961	0.8574	0.8419	0.9366	0.9728	0.8892	100-110	4.159	1049	99.5,99.5
120	1.009	1.045	1.091	1.057	1.046	1.127	1.158	1.086	110-120	0.9709	1050	99.6,99.6
130	1.190	1.219	1.258	1.235	1.235	1.294	1.317	1.260	120-130	1.044	1051	99.7,99.7
140	1.357	1.380	1.403	1.385	1.398	1.439	1.452	1.412	130-140	1.028	1052	99.8,99.8
150	1.507	1.516	1.543	1.525	1.539	1.559	1.561	1.545	140-150	0.9227	1053	99.9,99.9
160	1.634	1.643	1.665	1.647	1.674	1.674	1.679	1.665	150-160	0.7392	1054	99.9,99.9
170	1.715	1.738	1.742	1.740	1.742	1.751	1.729	1.749	160-170	0.4817	1054	100,100
180	1.769	1.776	1.778	1.776	1.769	1.774	1.774	1.778	170-180	0.1677	1055	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 480.1 lm

%lum = 45.5%
%lamp = 45.5%

Conical surface Flux(120deg): 727.24 lm

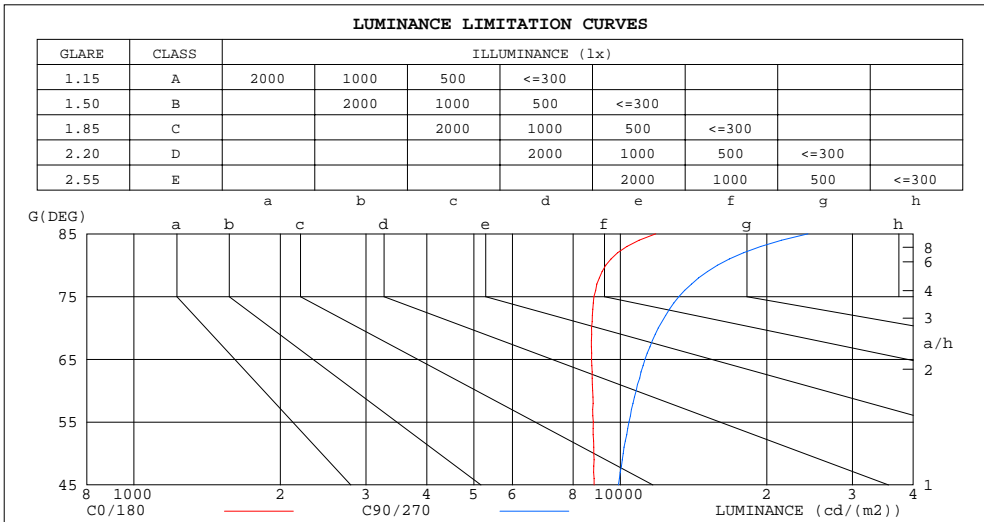
%lum = 69.0%
%lamp = 69.0%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 August 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.791m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11826	24304
80	9335	15843
75	8826	13201
70	8728	11967
65	8729	11242
60	8775	10779
55	8801	10422
50	8821	10142
45	8831	9910

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	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	.359	.204	.065	.351	.200	.064	.335	.192	.061	.321	.185	.059	.307	.178	.057	
2.0	.322	.176	.054	.314	.173	.053	.300	.167	.052	.287	.161	.050	.276	.156	.049	
3.0	.291	.155	.046	.284	.152	.046	.272	.147	.045	.260	.142	.044	.249	.138	.043	
4.0	.264	.137	.040	.258	.135	.040	.247	.131	.039	.237	.127	.038	.227	.123	.038	
5.0	.242	.123	.036	.236	.121	.035	.226	.118	.035	.217	.115	.034	.208	.111	.033	
6.0	.222	.111	.032	.218	.110	.032	.209	.107	.031	.200	.104	.031	.193	.101	.030	
7.0	.206	.102	.029	.201	.100	.029	.193	.098	.028	.186	.095	.028	.179	.093	.027	
8.0	.191	.093	.026	.187	.092	.026	.180	.090	.026	.173	.088	.025	.167	.086	.025	
9.0	.179	.086	.024	.175	.085	.024	.169	.083	.024	.162	.081	.023	.157	.080	.023	
10.0	.167	.080	.022	.164	.079	.022	.158	.078	.022	.153	.076	.022	.147	.074	.021	

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	.219	.219	.219	.187	.187	.187	.128	.128	.128	.073	.073	.073	.023	.023	.023	
1.0	.213	.185	.159	.182	.159	.137	.124	.109	.095	.072	.063	.055	.023	.020	.018	
2.0	.205	.161	.124	.176	.139	.107	.121	.096	.075	.070	.056	.044	.022	.018	.014	
3.0	.198	.144	.101	.170	.124	.087	.116	.086	.061	.067	.050	.036	.022	.016	.012	
4.0	.190	.131	.086	.163	.113	.074	.112	.079	.052	.065	.046	.031	.021	.015	.010	
5.0	.182	.121	.075	.157	.104	.065	.108	.073	.046	.062	.043	.027	.020	.014	.009	
6.0	.175	.112	.068	.150	.097	.059	.104	.068	.042	.060	.040	.025	.019	.013	.008	
7.0	.168	.106	.062	.144	.092	.054	.100	.064	.038	.058	.038	.023	.019	.012	.008	
8.0	.161	.100	.058	.139	.087	.050	.096	.061	.036	.056	.036	.021	.018	.012	.007	
9.0	.155	.095	.055	.133	.082	.048	.092	.058	.034	.054	.034	.020	.017	.011	.007	
10.0	.149	.091	.052	.128	.079	.045	.089	.055	.032	.052	.033	.019	.017	.011	.006	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm										
NAME: LED Ceiling light					TYPE:			WEIGHT:		
SPEC.:YBCCT-WH					DIM.: 230MM			SERIAL No.:		
MFR.:					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	20.2	21.7	20.5	22.0	22.3	20.9	22.5	21.3	22.8	23.0
3H	21.9	23.4	22.3	23.7	24.0	23.1	24.5	23.4	24.8	25.1
4H	22.7	24.1	23.1	24.4	24.8	24.1	25.5	24.5	25.8	26.2
6H	23.4	24.7	23.8	25.1	25.4	25.2	26.5	25.6	26.9	27.2
8H	23.7	25.0	24.1	25.4	25.7	25.8	27.0	26.2	27.4	27.8
12H	24.0	25.2	24.5	25.6	26.0	26.4	27.6	26.8	27.9	28.3
4H 2H	21.0	22.4	21.4	22.7	23.1	21.6	23.0	22.0	23.3	23.6
3H	23.0	24.2	23.5	24.6	25.0	24.0	25.2	24.4	25.5	25.9
4H	24.0	25.1	24.4	25.5	25.9	25.2	26.3	25.6	26.7	27.1
6H	24.9	25.9	25.3	26.3	26.8	26.5	27.5	26.9	27.9	28.3
8H	25.3	26.2	25.8	26.6	27.1	27.1	28.1	27.6	28.5	29.0
12H	25.7	26.5	26.1	27.0	27.5	27.8	28.7	28.3	29.2	29.6
8H 4H	24.6	25.5	25.1	26.0	26.4	25.6	26.5	26.1	27.0	27.4
6H	25.8	26.5	26.3	27.0	27.5	27.1	27.9	27.6	28.4	28.9
8H	26.3	27.0	26.8	27.5	28.0	28.0	28.7	28.5	29.2	29.7
12H	26.9	27.5	27.4	28.0	28.6	28.9	29.5	29.4	30.0	30.6
12H 4H	24.7	25.6	25.2	26.0	26.5	25.7	26.5	26.1	27.0	27.5
6H	26.0	26.7	26.5	27.2	27.7	27.3	28.0	27.8	28.5	29.0
8H	26.7	27.3	27.2	27.8	28.4	28.2	28.8	28.7	29.3	29.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 1055 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

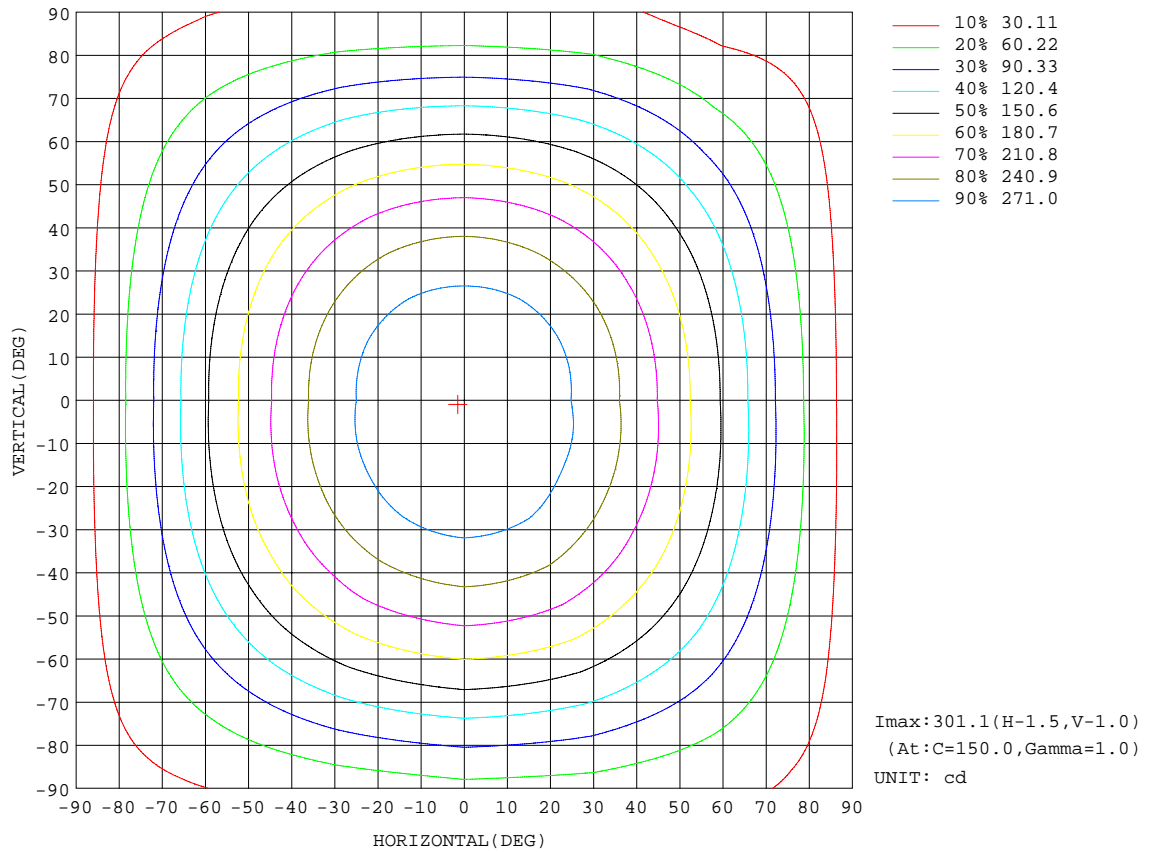
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	53	41	34	51	40	34	27
0.80	63	51	43	62	50	43	60	49	42	35
1.00	71	59	51	70	58	51	67	60	50	43
1.25	78	67	59	77	66	58	74	64	57	49
1.50	83	72	64	81	71	64	78	69	63	54
2.00	90	81	73	88	79	72	84	77	71	62
2.50	95	86	78	92	84	77	88	81	75	66
3.00	98	90	83	96	88	82	91	85	80	70
4.00	103	96	90	100	94	88	95	90	86	75
5.00	105	99	94	103	97	93	97	93	89	79
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:
 Test Date:20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

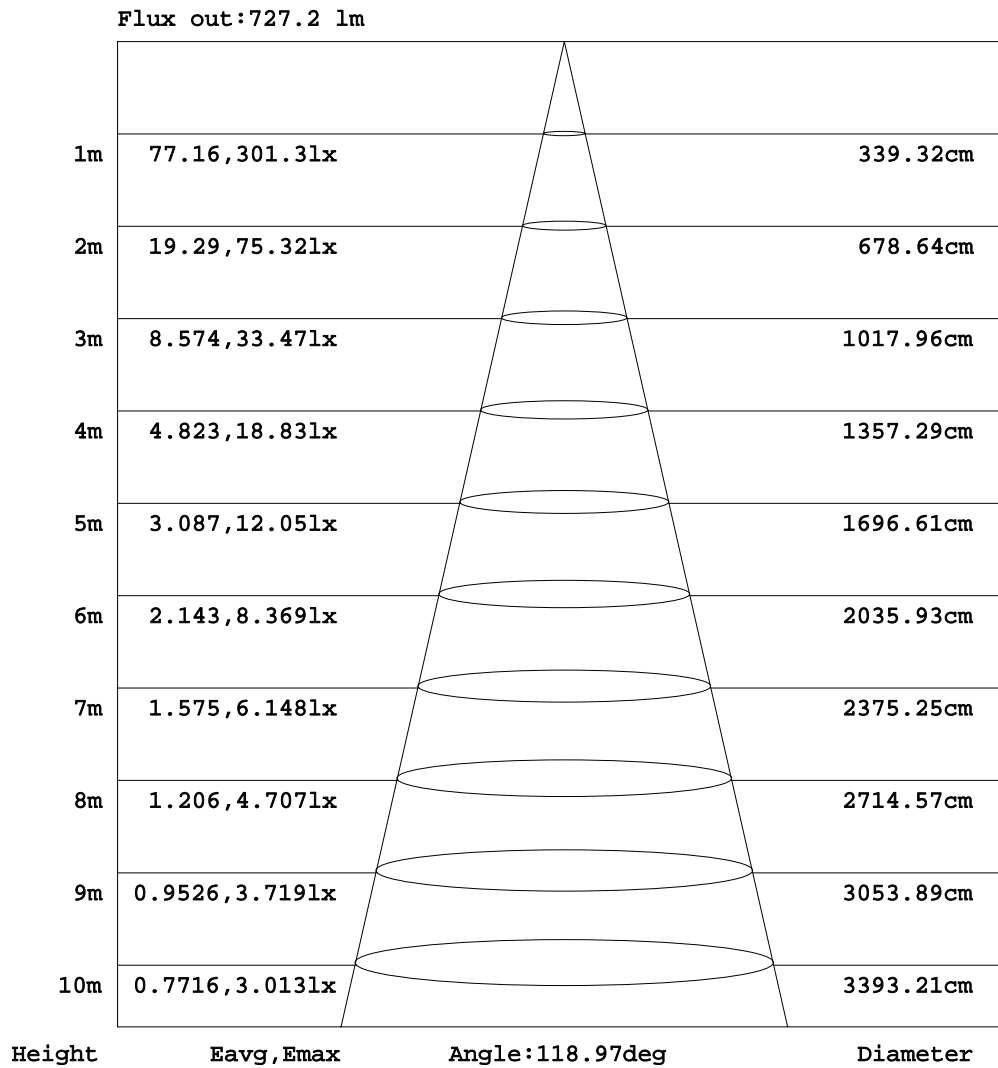


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.791m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

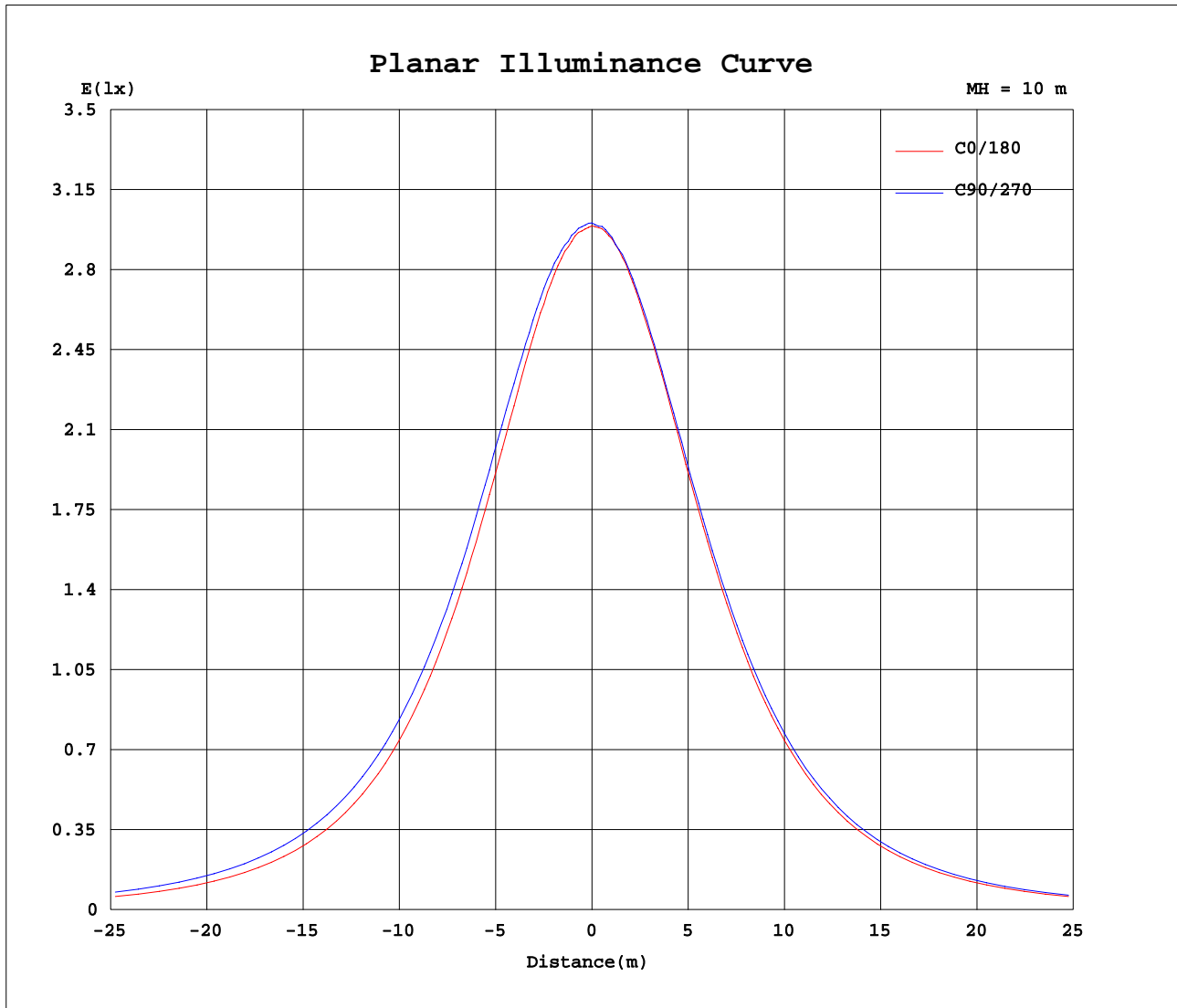


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 20 August 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.791m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.04V I:0.0564A P:12.043W PF:0.9290 Freq:49.99Hz Lamp Flux:1054.51x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	299	300	300	300	301	301	299	300	300	300	301	301							
5	298	299	300	300	300	300	298	299	299	299	299	300							
10	295	296	298	299	299	298	296	295	296	297	297	297							
15	290	292	295	297	295	293	289	290	292	291	291	291							
20	281	285	290	291	289	286	282	283	284	284	284	283							
25	270	276	282	285	281	277	271	273	275	275	275	273							
30	259	265	273	276	271	265	258	261	263	263	262	260							
35	244	252	261	264	259	251	244	247	249	250	249	246							
40	227	238	248	250	245	236	227	231	234	235	233	230							
45	210	221	232	235	230	219	209	214	217	218	216	212							
50	191	203	216	219	213	200	190	195	199	199	198	193							
55	170	184	197	201	193	180	169	175	179	180	178	172							
60	147	163	177	181	173	159	147	153	157	158	156	150							
65	124	141	156	160	151	137	124	130	135	135	134	127							
70	100	119	133	138	128	113	99.9	106	112	113	110	102							
75	76.8	95.7	110	115	105	90.0	76.1	83.2	89.0	89.9	87.5	76.6							
80	54.5	73.5	88.1	92.4	82.3	67.3	53.7	61.4	67.8	68.8	66.1	53.5							
85	34.6	53.1	67.2	71.2	61.4	46.6	33.4	42.1	49.5	51.0	47.8	33.7							
90	19.7	36.6	50.1	53.7	44.1	29.8	18.1	29.2	37.6	39.5	35.9	20.7							
95	16.4	29.4	40.6	43.3	34.9	23.2	14.6	24.5	32.3	34.3	30.8	17.2							
100	14.5	14.4	16.3	32.8	10.7	13.7	12.7	13.3	15.8	29.6	10.5	9.14							
105	5.94	1.03	0.74	0.79	0.74	2.10	7.24	1.12	0.87	0.88	0.83	0.80							
110	0.80	0.83	0.84	0.90	0.85	0.86	0.84	0.89	0.98	0.97	0.95	0.83							
115	0.91	0.94	0.94	0.99	0.96	0.96	0.95	0.98	1.08	1.07	1.04	0.95							
120	1.01	1.04	1.05	1.09	1.05	1.06	1.05	1.08	1.18	1.16	1.13	1.04							
125	1.11	1.13	1.13	1.17	1.13	1.16	1.15	1.17	1.25	1.25	1.22	1.13							
130	1.19	1.23	1.21	1.26	1.23	1.24	1.24	1.26	1.33	1.32	1.30	1.22							
135	1.28	1.31	1.29	1.34	1.30	1.32	1.32	1.34	1.40	1.38	1.38	1.30							
140	1.36	1.38	1.38	1.40	1.37	1.40	1.40	1.41	1.47	1.45	1.45	1.38							
145	1.43	1.46	1.44	1.48	1.44	1.47	1.47	1.48	1.53	1.51	1.51	1.45							
150	1.51	1.53	1.50	1.54	1.51	1.54	1.54	1.53	1.58	1.56	1.57	1.52							
155	1.57	1.60	1.57	1.61	1.57	1.61	1.61	1.60	1.64	1.63	1.63	1.59							
160	1.63	1.65	1.63	1.67	1.62	1.67	1.67	1.66	1.69	1.68	1.69	1.64							
165	1.69	1.70	1.70	1.71	1.69	1.72	1.71	1.70	1.72	1.71	1.74	1.69							
170	1.71	1.75	1.73	1.74	1.71	1.76	1.74	1.74	1.76	1.73	1.77	1.73							
175	1.74	1.77	1.76	1.76	1.76	1.78	1.76	1.77	1.77	1.76	1.78	1.76							
180	1.77	1.78	1.77	1.78	1.77	1.78	1.77	1.77	1.77	1.77	1.78	1.78							

C Range: 0 - 360DEG

C Interval: 30.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:20 August 2021

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366

Humidity:65.0%

Test Distance:8.791m [K=1.0000]

Remarks: