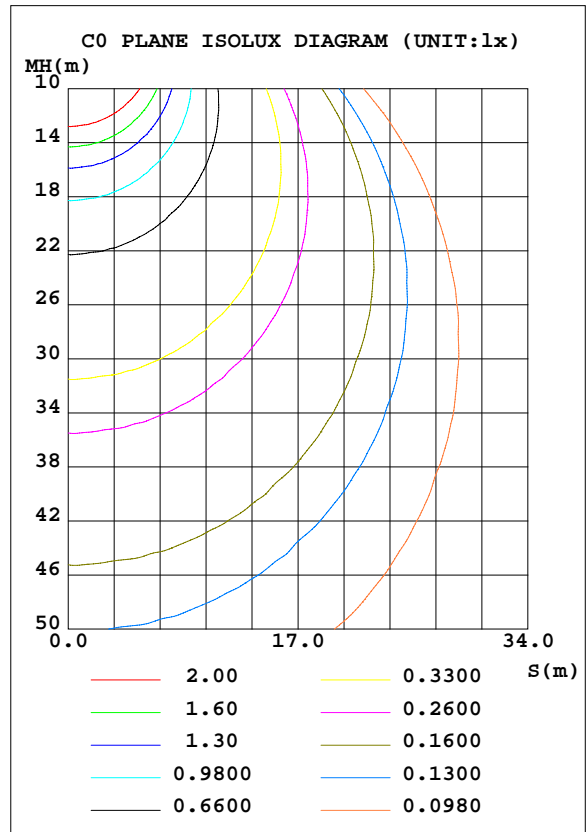
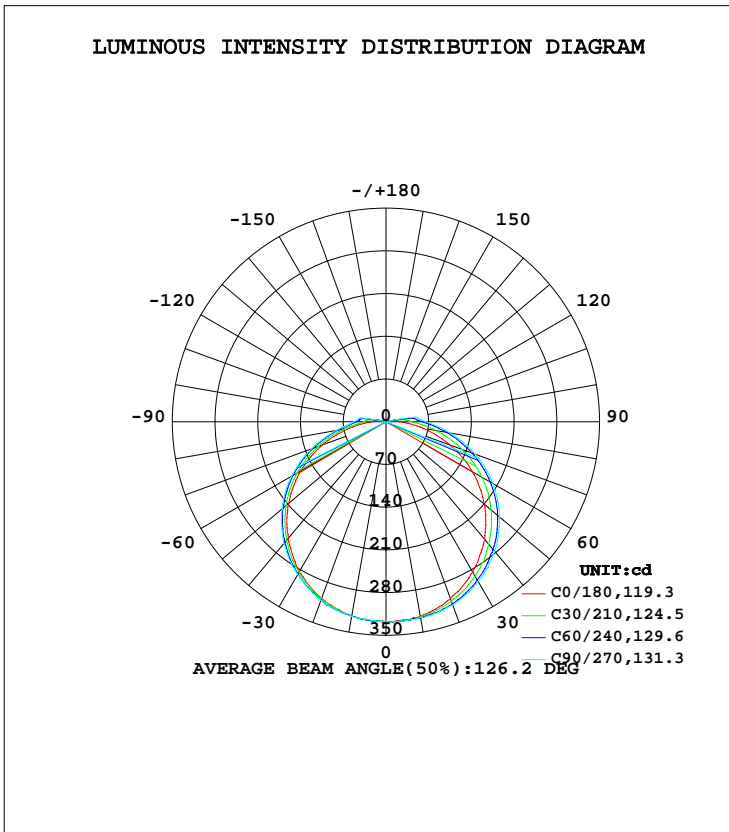


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.85 lm/W			
MODEL	YBCCT-WH-NW	I _{max} (cd)	328.4	S/MH(C0/180)	1.292
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1177.6	η UP, DN(C0-180)	2.2,49.6
NOMINAL FLUX(lm)	1177.62	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.9,46.2
LAMPS INSIDE	1	η up(%)	4.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	95.8	CIBSE SHR MAX	1.55



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	323.7	325.7	325.7	325.0	323.2	323.4	323.5	323.2	0- 10	31.12	31.12	2.64,2.64
20	309.1	315.3	319.7	314.4	308.2	309.4	311.4	309.8	10- 20	90.25	121.4	10.3,10.3
30	284.3	295.7	302.0	293.9	283.8	286.2	289.4	287.0	20- 30	139.5	260.9	22.2,22.2
40	251.4	267.0	276.8	264.8	249.1	255.6	260.3	255.1	30- 40	173.0	433.9	36.8,36.8
50	210.2	231.6	243.2	228.5	208.5	216.6	222.0	216.9	40- 50	187.0	620.9	52.7,52.7
60	163.4	189.0	202.4	185.7	161.2	172.1	178.4	169.9	50- 60	179.9	800.8	68,68
70	111.9	141.4	155.7	137.3	110.1	122.4	129.9	118.9	60- 70	152.4	953.2	80.9,80.9
80	61.48	92.04	106.9	87.63	60.33	74.80	82.94	70.27	70- 80	110.0	1063	90.3,90.3
90	22.39	50.82	65.17	47.48	23.03	42.22	51.67	36.50	80- 90	65.07	1128	95.8,95.8
100	16.37	19.04	39.64	17.27	18.02	16.62	31.13	10.76	90-100	38.35	1167	99.1,99.1
110	0.8868	0.9411	1.027	0.9751	0.9505	1.054	1.117	1.011	100-110	5.036	1172	99.5,99.5
120	1.109	1.145	1.222	1.188	1.177	1.258	1.303	1.215	110-120	1.090	1173	99.6,99.6
130	1.321	1.339	1.398	1.367	1.380	1.439	1.470	1.398	120-130	1.163	1174	99.7,99.7
140	1.493	1.507	1.552	1.532	1.548	1.584	1.597	1.552	130-140	1.137	1175	99.8,99.8
150	1.656	1.661	1.688	1.670	1.702	1.726	1.719	1.699	140-150	1.015	1176	99.9,99.9
160	1.792	1.799	1.828	1.806	1.837	1.848	1.842	1.828	150-160	0.8116	1177	99.9,99.9
170	1.891	1.909	1.896	1.901	1.914	1.925	1.914	1.923	160-170	0.5285	1177	100,100
180	1.932	1.943	1.941	1.955	1.937	1.950	1.928	1.946	170-180	0.1839	1178	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 526.95 lm

%lum = 44.7%
 %lamp = 44.7%

Conical surface Flux(120deg): 800.8 lm

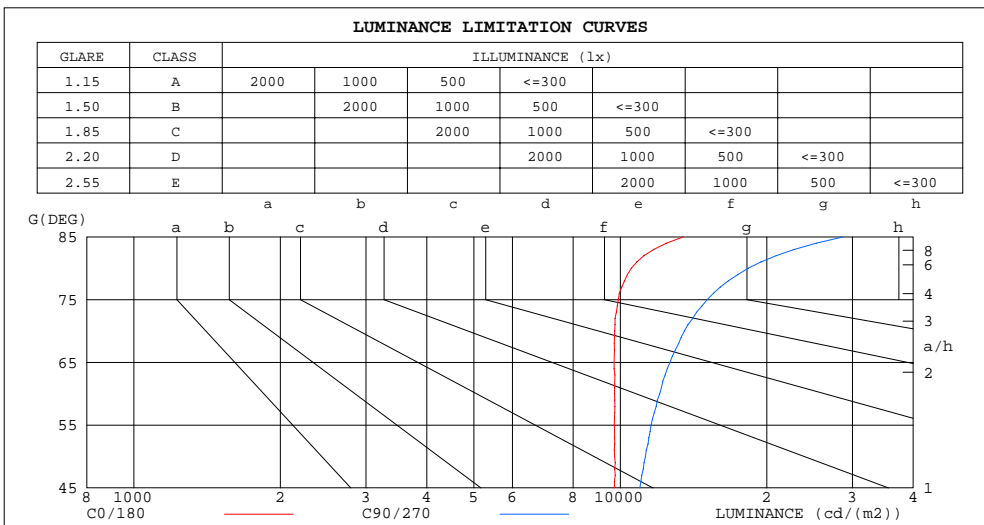
%lum = 68.0%
 %lamp = 68.0%

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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 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	13484	28745
80	10537	18321
75	9910	15086
70	9738	13546
65	9712	12645
60	9729	12047
55	9714	11567
50	9732	11260
45	9723	10969

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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 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	.364	.207	.066	.355	.203	.064	.339	.195	.062	.325	.187	.060	.311	.180	.058	
2.0	.325	.178	.055	.317	.175	.054	.303	.168	.052	.290	.163	.051	.278	.157	.050	
3.0	.293	.156	.047	.286	.153	.046	.273	.148	.045	.261	.143	.044	.250	.139	.043	
4.0	.265	.138	.041	.259	.136	.040	.248	.132	.039	.238	.128	.038	.228	.124	.038	
5.0	.243	.124	.036	.237	.122	.035	.227	.118	.035	.218	.115	.034	.209	.112	.034	
6.0	.223	.112	.032	.218	.110	.032	.209	.107	.031	.201	.104	.031	.193	.101	.030	
7.0	.206	.102	.029	.202	.101	.029	.194	.098	.028	.186	.095	.028	.179	.093	.027	
8.0	.192	.094	.026	.188	.092	.026	.180	.090	.026	.173	.088	.025	.167	.086	.025	
9.0	.179	.087	.024	.175	.085	.024	.169	.083	.024	.162	.081	.023	.156	.079	.023	
10.0	.168	.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	.222	.222	.222	.190	.190	.190	.130	.130	.130	.075	.075	.075	.024	.024	.024	
1.0	.216	.188	.162	.185	.161	.140	.127	.111	.097	.073	.064	.056	.023	.021	.018	
2.0	.209	.164	.126	.179	.141	.109	.123	.098	.076	.071	.057	.045	.023	.018	.015	
3.0	.201	.147	.104	.173	.127	.090	.119	.088	.063	.068	.051	.037	.022	.017	.012	
4.0	.194	.134	.089	.166	.116	.077	.114	.081	.054	.066	.047	.032	.021	.015	.011	
5.0	.186	.124	.078	.160	.107	.068	.110	.075	.048	.064	.044	.028	.021	.014	.009	
6.0	.178	.116	.071	.153	.100	.062	.106	.070	.044	.061	.041	.026	.020	.013	.009	
7.0	.171	.109	.065	.147	.094	.057	.102	.066	.040	.059	.039	.024	.019	.013	.008	
8.0	.165	.103	.061	.142	.089	.053	.098	.063	.038	.057	.037	.022	.018	.012	.007	
9.0	.158	.098	.058	.136	.085	.050	.094	.060	.036	.055	.035	.021	.018	.012	.007	
10.0	.152	.094	.055	.131	.082	.048	.091	.057	.034	.053	.034	.020	.017	.011	.007	

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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 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	20.1	21.6	20.4	21.9	22.2	20.9	22.4	21.2	22.7	23.0
3H	21.9	23.3	22.3	23.6	24.0	23.1	24.5	23.5	24.8	25.2
4H	22.7	24.1	23.1	24.4	24.8	24.2	25.6	24.6	25.9	26.2
6H	23.4	24.7	23.8	25.1	25.4	25.3	26.6	25.7	27.0	27.3
8H	23.7	25.0	24.2	25.4	25.8	25.9	27.1	26.3	27.5	27.9
12H	24.1	25.3	24.5	25.6	26.0	26.5	27.7	26.9	28.1	28.5
4H 2H	21.0	22.4	21.4	22.7	23.0	21.6	22.9	22.0	23.3	23.6
3H	23.0	24.2	23.4	24.6	25.0	24.0	25.2	24.4	25.6	26.0
4H	24.0	25.1	24.4	25.5	25.9	25.3	26.4	25.7	26.8	27.2
6H	24.9	25.9	25.4	26.3	26.8	26.6	27.6	27.0	28.0	28.4
8H	25.3	26.2	25.8	26.7	27.2	27.2	28.2	27.7	28.6	29.1
12H	25.7	26.5	26.2	27.0	27.5	28.0	28.9	28.5	29.3	29.8
8H 4H	24.6	25.5	25.1	26.0	26.5	25.7	26.6	26.1	27.0	27.5
6H	25.8	26.6	26.3	27.0	27.6	27.2	28.0	27.7	28.5	29.0
8H	26.4	27.1	26.9	27.6	28.1	28.1	28.8	28.6	29.3	29.8
12H	26.9	27.5	27.5	28.1	28.6	29.1	29.7	29.6	30.2	30.8
12H 4H	24.7	25.6	25.2	26.1	26.6	25.7	26.6	26.2	27.0	27.5
6H	26.0	26.7	26.6	27.2	27.8	27.4	28.1	27.9	28.6	29.1
8H	26.7	27.3	27.3	27.9	28.4	28.3	28.9	28.9	29.5	30.0
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, 1178 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.6)

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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

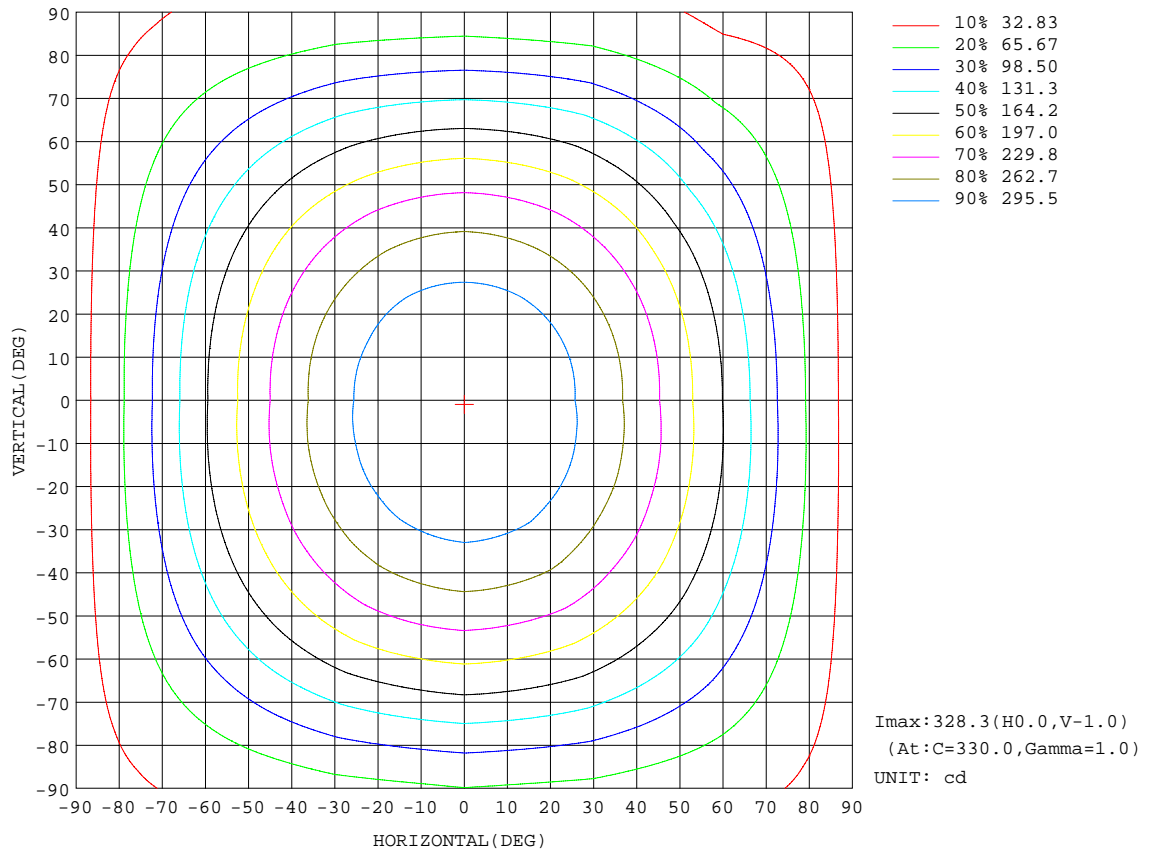
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	33	52	41	33	51	40	33	26
0.80	63	50	42	61	50	42	59	49	42	34
1.00	71	58	50	69	58	50	67	59	50	42
1.25	78	66	58	76	65	58	73	64	57	49
1.50	83	72	64	81	71	63	77	69	62	53
2.00	90	80	72	88	79	72	84	76	70	61
2.50	94	85	78	92	83	77	87	80	75	65
3.00	98	89	83	95	88	82	91	84	79	69
4.00	102	95	89	99	93	88	95	89	85	75
5.00	105	99	94	102	97	92	97	93	89	78
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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

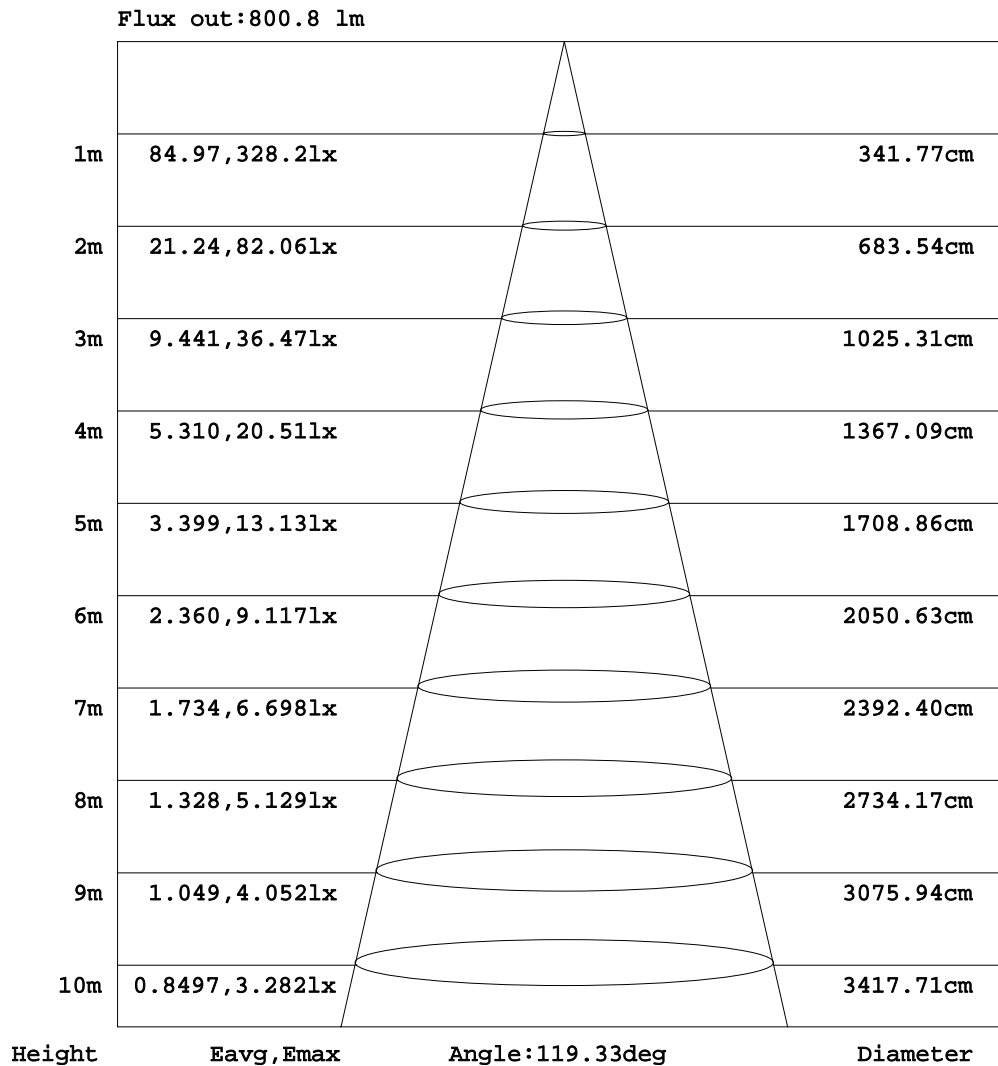


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 20 August 2021

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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

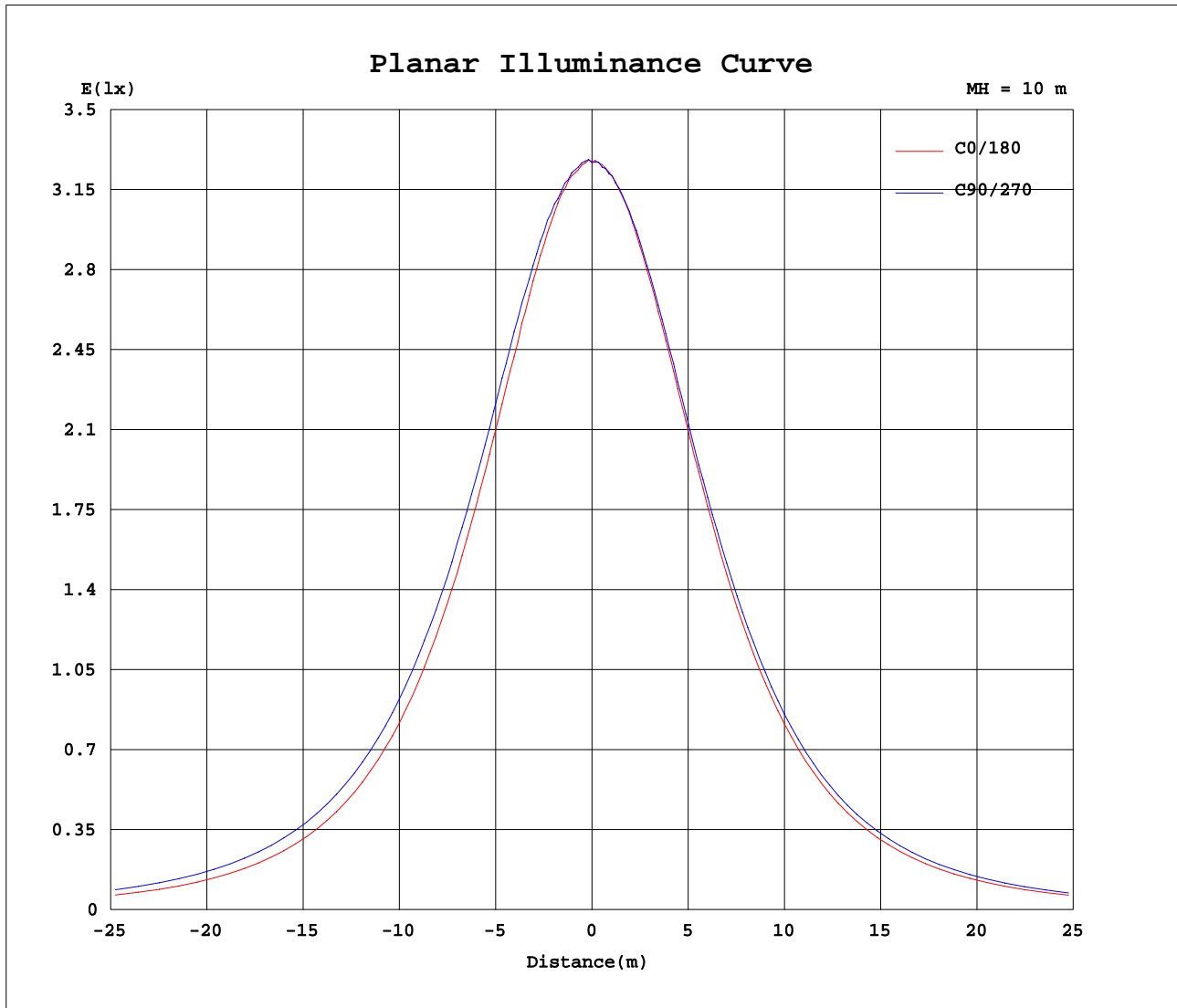


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:229.94V I:0.0543A P:11.562W PF:0.9257 Freq:49.99Hz Lamp Flux:1177.62x1 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	327	328	328	327	328	328	327	328	328	327	328	328							
5	326	328	328	327	327	327	326	327	327	326	326	327							
10	324	325	326	326	325	325	323	323	324	324	324	323							
15	318	320	323	325	323	319	317	317	319	318	318	318							
20	309	313	318	320	316	313	308	308	310	311	310	309							
25	297	304	310	312	309	302	297	298	301	301	301	299							
30	284	292	299	302	298	290	284	285	288	289	288	286							
35	268	279	287	291	285	276	267	271	274	276	274	270							
40	251	262	272	277	270	259	249	253	258	260	257	253							
45	231	244	257	261	254	241	230	234	240	242	239	234							
50	210	225	238	243	236	221	209	213	220	222	220	214							
55	187	204	219	223	216	200	186	192	198	201	198	190							
60	163	181	197	202	194	177	161	168	176	178	175	165							
65	138	158	174	180	171	153	136	144	152	155	151	137							
70	112	133	150	156	147	128	110	118	127	130	127	111							
75	86.2	108	125	131	121	103	84.6	93.0	103	105	102	85.8							
80	61.5	83.4	101	107	97.2	78.1	60.3	69.7	79.9	82.9	78.9	61.6							
85	39.5	60.9	78.1	84.2	74.5	56.1	38.6	49.2	60.4	63.7	58.9	40.6							
90	22.4	42.4	59.2	65.2	56.3	38.7	23.0	36.3	48.1	51.7	45.6	27.4							
95	18.4	34.2	48.9	54.2	47.2	32.5	20.0	32.0	43.1	46.3	38.6	23.2							
100	16.4	16.5	21.6	39.6	15.8	18.8	18.0	17.7	15.6	31.1	9.41	12.1							
105	7.25	1.46	0.84	0.91	0.86	2.36	8.00	1.29	0.99	1.00	0.95	1.19							
110	0.89	0.92	0.96	1.03	0.97	0.98	0.95	1.00	1.11	1.12	1.07	0.95							
115	1.00	1.03	1.05	1.12	1.07	1.08	1.06	1.11	1.22	1.21	1.18	1.05							
120	1.11	1.14	1.15	1.22	1.18	1.19	1.18	1.21	1.31	1.30	1.27	1.16							
125	1.22	1.24	1.26	1.31	1.27	1.30	1.28	1.31	1.39	1.40	1.36	1.26							
130	1.32	1.34	1.34	1.40	1.36	1.38	1.38	1.40	1.48	1.47	1.45	1.35							
135	1.41	1.43	1.43	1.48	1.44	1.47	1.47	1.48	1.56	1.53	1.53	1.44							
140	1.49	1.51	1.50	1.55	1.51	1.55	1.55	1.55	1.62	1.60	1.59	1.52							
145	1.57	1.59	1.57	1.62	1.58	1.62	1.62	1.63	1.68	1.67	1.66	1.59							
150	1.66	1.67	1.66	1.69	1.66	1.68	1.70	1.70	1.75	1.72	1.73	1.67							
155	1.72	1.74	1.73	1.76	1.73	1.76	1.77	1.76	1.81	1.78	1.79	1.73							
160	1.79	1.81	1.79	1.83	1.78	1.83	1.84	1.84	1.86	1.84	1.86	1.80							
165	1.85	1.86	1.85	1.86	1.84	1.88	1.89	1.87	1.90	1.87	1.90	1.85							
170	1.89	1.91	1.90	1.90	1.88	1.92	1.91	1.92	1.93	1.91	1.94	1.90							
175	1.92	1.95	1.92	1.94	1.93	1.96	1.94	1.94	1.95	1.93	1.95	1.92							
180	1.93	1.95	1.94	1.94	1.95	1.96	1.94	1.95	1.95	1.93	1.95	1.95							

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: