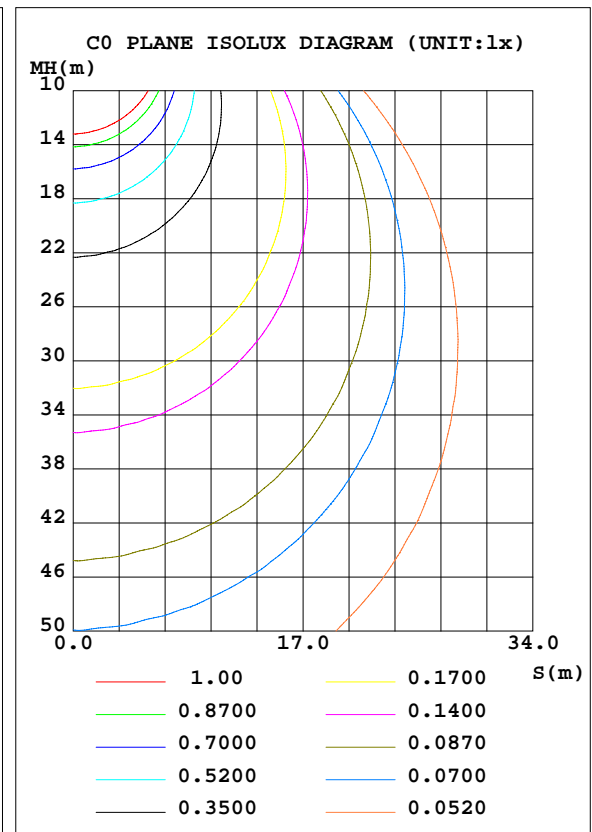
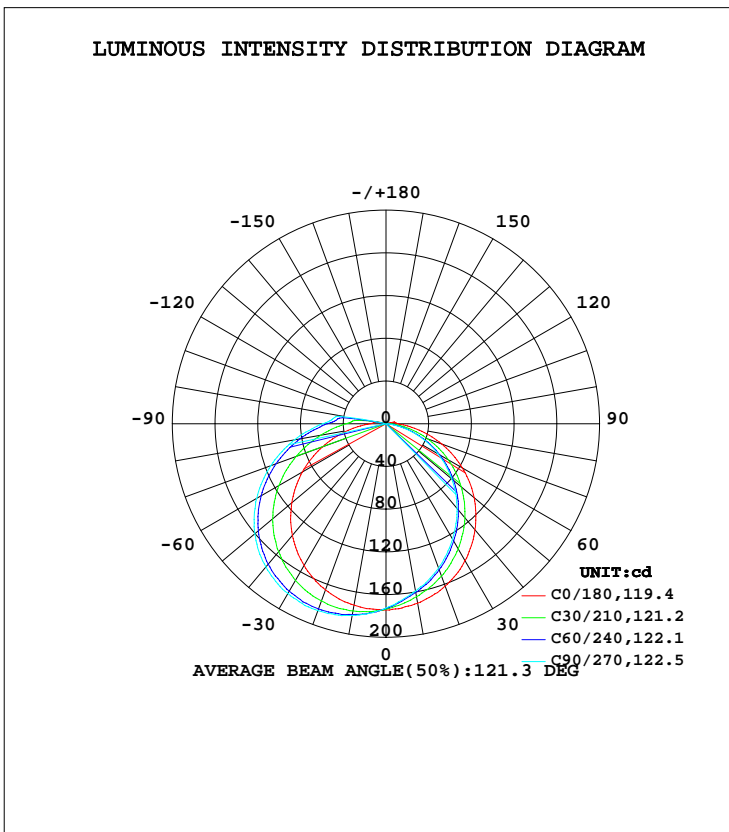


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 50.84 lm/W
MODEL	YBCCT-WH-EYELID-WW	I _{max} (cd)	186.4	S/MH(C0/180)	1.312	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.57	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	612.66	η UP, DN(C0-180)	0.7,36.2	
NOMINAL FLUX(lm)	612.663	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.3,59.7	
LAMPS INSIDE	1	η up(%)	4.1	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	230	η down(%)	95.9	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	170.7	162.4	159.1	162.8	172.4	179.7	182.2	177.5	0- 10	16.41	16.41	2.68,2.68
20	161.8	148.7	143.9	149.6	165.6	180.5	186.2	176.9	10- 20	47.49	63.89	10.4,10.4
30	148.0	131.1	124.7	132.9	153.2	175.3	183.4	170.6	20- 30	73.29	137.2	22.4,22.4
40	129.5	110.2	103.6	112.8	136.4	164.0	174.9	158.0	30- 40	90.67	227.8	37.2,37.2
50	107.8	87.31	80.53	90.14	115.1	147.4	160.4	139.7	40- 50	97.74	325.6	53.1,53.1
60	82.47	62.66	56.32	65.66	90.52	125.4	139.8	116.5	50- 60	93.52	419.1	68.4,68.4
70	55.53	37.40	31.71	40.25	63.13	99.46	114.7	89.93	60- 70	78.88	498.0	81.3,81.3
80	29.48	14.28	9.835	16.50	36.10	71.85	86.94	62.47	70- 80	56.63	554.6	90.5,90.5
90	10.68	2.255	0.6833	3.237	14.53	46.32	59.44	37.41	80- 90	33.15	587.8	95.9,95.9
100	8.450	1.782	0.7150	2.477	10.45	16.35	34.43	11.19	90-100	19.23	607.0	99.1,99.1
110	0.4842	0.7014	0.8282	0.6696	0.4662	0.3168	0.2578	0.3507	100-110	2.581	609.6	99.5,99.5
120	0.5970	0.7987	0.9186	0.7806	0.5793	0.4434	0.3934	0.4616	110-120	0.5601	610.1	99.6,99.6
130	0.6878	0.8801	0.9865	0.8665	0.6968	0.5453	0.4976	0.5815	120-130	0.6009	610.7	99.7,99.7
140	0.7872	0.9480	1.032	0.9435	0.7875	0.6651	0.6109	0.6923	130-140	0.5918	611.3	99.8,99.8
150	0.8642	0.9978	1.072	0.9978	0.8690	0.7693	0.7239	0.8009	140-150	0.5321	611.9	99.9,99.9
160	0.9456	1.041	1.068	1.045	0.9595	0.8688	0.8371	0.8960	150-160	0.4281	612.3	99.9,99.9
170	0.9864	1.054	1.063	1.059	1.005	0.9706	0.9321	0.9820	160-170	0.2790	612.6	100,100
180	1.036	1.036	1.041	1.050	1.045	1.041	1.032	1.054	170-180	0.0976	612.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 276.54 lm

%lum = 45.1%
%lamp = 45.1%

Conical surface Flux(120deg): 419.11 lm

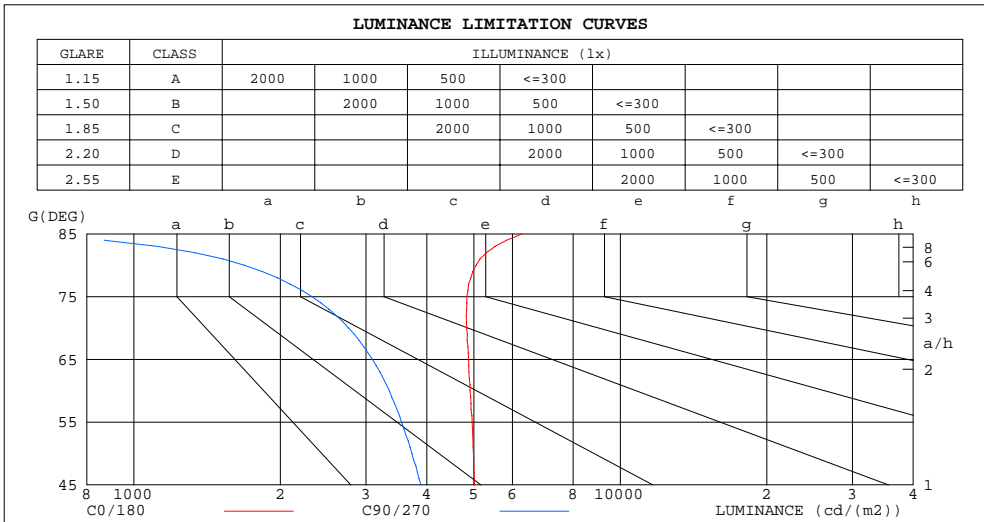
%lum = 68.4%
%lamp = 68.4%

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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 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	6287	581
80	5052	1686
75	4837	2322
70	4832	2759
65	4875	3093
60	4909	3352
55	4958	3551
50	4990	3729
45	5015	3890

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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 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	.362	.206	.065	.353	.202	.064	.338	.194	.062	.323	.186	.060	.310	.179	.058	
2.0	.323	.177	.054	.316	.174	.054	.302	.168	.052	.289	.162	.051	.277	.156	.049	
3.0	.292	.155	.046	.285	.153	.046	.272	.148	.045	.261	.143	.044	.250	.138	.043	
4.0	.265	.138	.040	.259	.135	.040	.248	.131	.039	.237	.127	.038	.227	.124	.038	
5.0	.242	.123	.036	.237	.122	.035	.227	.118	.035	.217	.115	.034	.208	.111	.033	
6.0	.223	.112	.032	.218	.110	.032	.209	.107	.031	.200	.104	.031	.192	.101	.030	
7.0	.206	.102	.029	.202	.100	.029	.194	.098	.028	.186	.095	.028	.179	.093	.027	
8.0	.191	.094	.026	.188	.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	.156	.079	.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	.221	.221	.221	.189	.189	.189	.129	.129	.129	.074	.074	.074	.024	.024	.024	
1.0	.215	.187	.161	.184	.160	.139	.126	.110	.096	.072	.064	.056	.023	.021	.018	
2.0	.208	.163	.126	.178	.140	.109	.122	.097	.076	.070	.057	.044	.023	.018	.014	
3.0	.200	.146	.103	.172	.126	.089	.118	.088	.063	.068	.051	.037	.022	.017	.012	
4.0	.192	.133	.088	.165	.115	.076	.114	.080	.054	.066	.047	.032	.021	.015	.010	
5.0	.185	.123	.077	.159	.106	.067	.109	.074	.047	.063	.044	.028	.020	.014	.009	
6.0	.177	.115	.070	.152	.099	.061	.105	.070	.043	.061	.041	.026	.020	.013	.008	
7.0	.170	.108	.064	.146	.094	.056	.101	.066	.040	.059	.039	.024	.019	.013	.008	
8.0	.163	.102	.060	.141	.089	.052	.097	.062	.037	.057	.037	.022	.018	.012	.007	
9.0	.157	.097	.057	.135	.084	.050	.094	.059	.035	.055	.035	.021	.018	.011	.007	
10.0	.151	.093	.054	.130	.081	.047	.090	.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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 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	18.8	20.4	19.2	20.7	21.0	17.3	18.9	17.7	19.2	19.5
3H	20.6	22.0	21.0	22.3	22.7	18.6	20.0	18.9	20.3	20.6
4H	21.4	22.7	21.8	23.1	23.4	19.0	20.3	19.3	20.7	21.0
6H	22.1	23.4	22.5	23.7	24.1	19.2	20.4	19.6	20.8	21.2
8H	22.4	23.6	22.8	24.0	24.4	19.2	20.4	19.6	20.8	21.2
12H	22.7	23.9	23.1	24.3	24.7	19.1	20.3	19.5	20.7	21.1
4H 2H	19.2	20.5	19.6	20.9	21.2	18.0	19.4	18.4	19.7	20.0
3H	21.1	22.3	21.5	22.7	23.1	19.3	20.6	19.8	20.9	21.3
4H	22.0	23.1	22.4	23.5	23.9	19.8	20.9	20.3	21.3	21.8
6H	22.8	23.8	23.3	24.3	24.7	20.1	21.1	20.6	21.5	22.0
8H	23.2	24.1	23.7	24.6	25.1	20.2	21.1	20.6	21.5	22.0
12H	23.6	24.5	24.1	24.9	25.4	20.1	21.0	20.6	21.4	21.9
8H 4H	22.1	23.0	22.6	23.4	23.9	20.1	21.1	20.6	21.5	22.0
6H	23.0	23.8	23.5	24.3	24.8	20.5	21.3	21.0	21.8	22.3
8H	23.5	24.2	24.0	24.7	25.3	20.6	21.3	21.1	21.8	22.3
12H	24.0	24.6	24.6	25.2	25.7	20.6	21.2	21.1	21.7	22.3
12H 4H	22.0	22.9	22.5	23.4	23.9	20.2	21.0	20.7	21.5	22.0
6H	23.0	23.7	23.6	24.2	24.8	20.6	21.3	21.1	21.8	22.3
8H	23.5	24.2	24.1	24.7	25.2	20.7	21.3	21.2	21.8	22.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 612.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)

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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

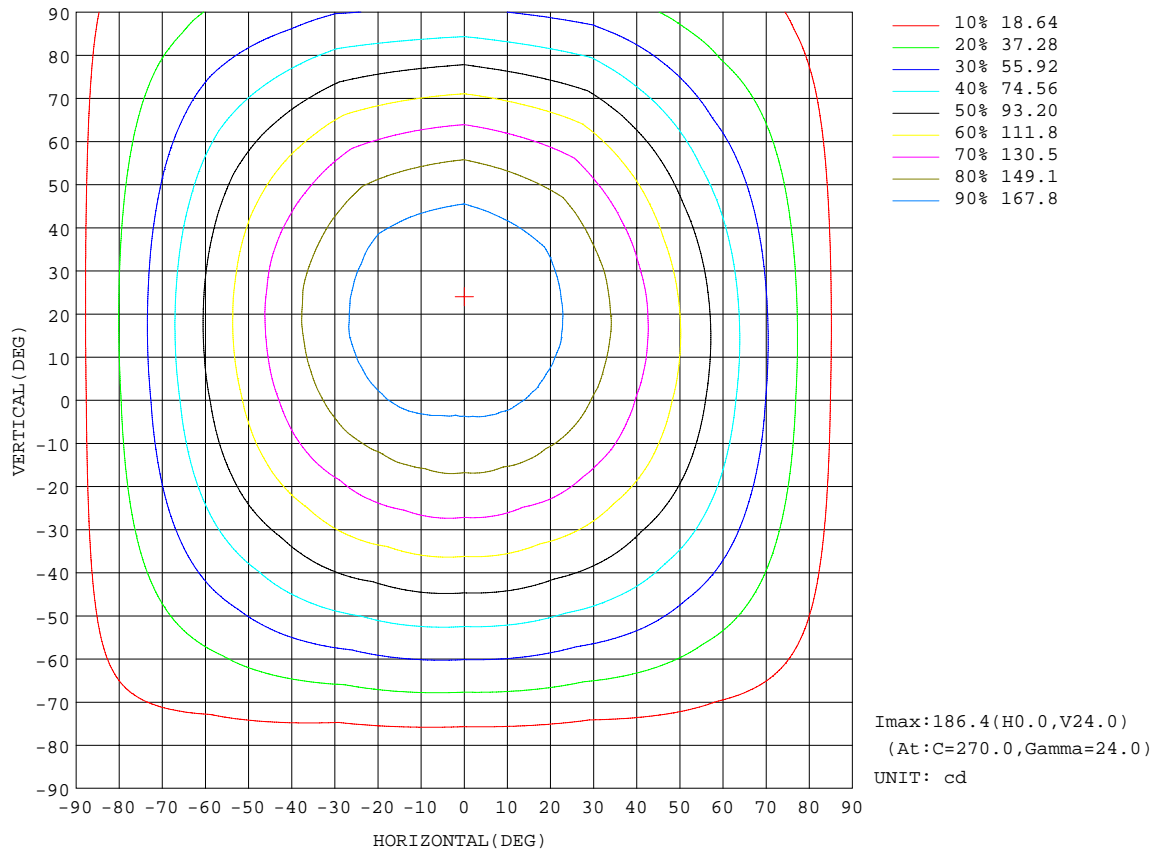
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	33	27
0.80	63	50	42	62	50	42	60	49	42	35
1.00	71	59	51	70	58	50	67	60	50	42
1.25	78	66	58	76	65	58	73	64	57	49
1.50	83	72	64	81	71	63	78	69	62	54
2.00	90	80	73	88	79	72	84	76	70	61
2.50	94	85	78	92	84	77	88	81	75	66
3.00	98	90	83	95	88	82	91	85	79	70
4.00	102	95	90	100	93	88	95	90	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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

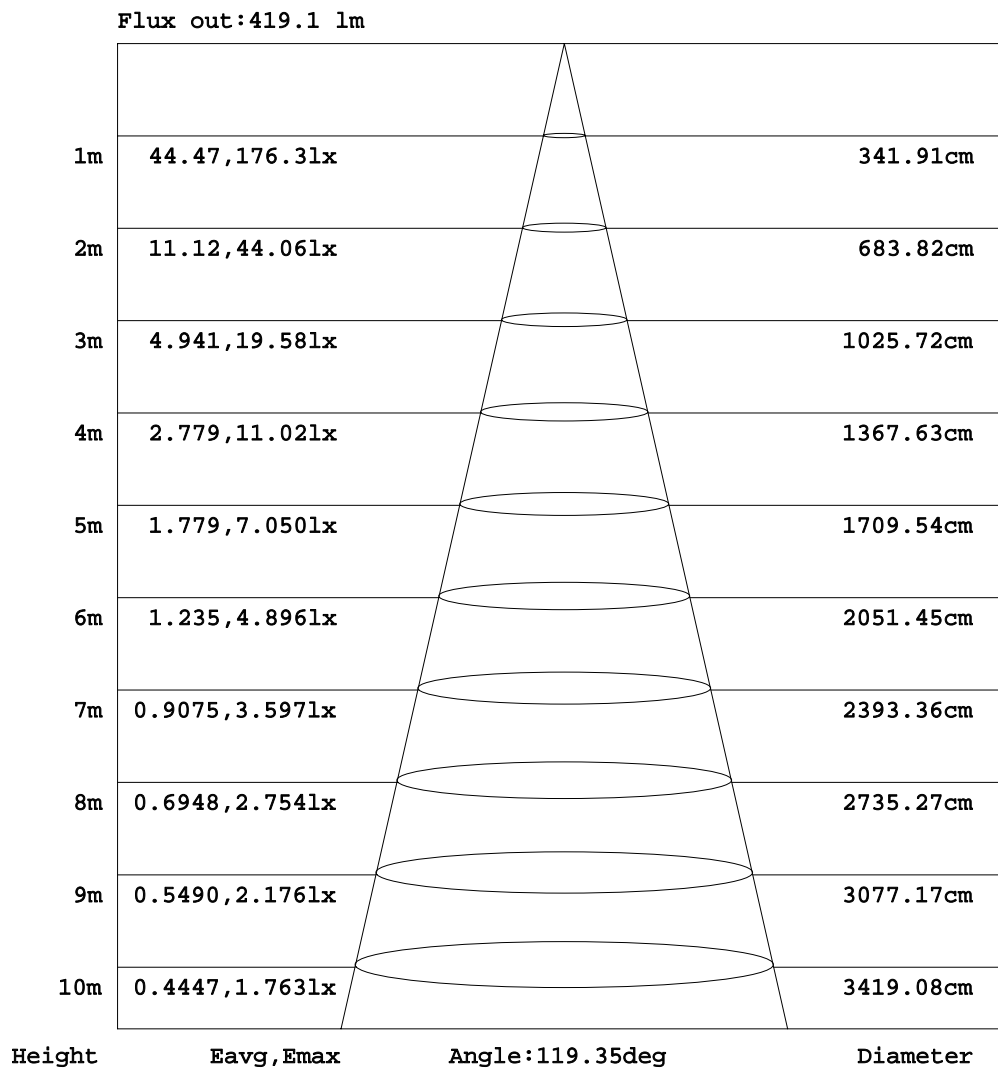


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 20 August 2021

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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:YBCCT-WH	DIM.: 230MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

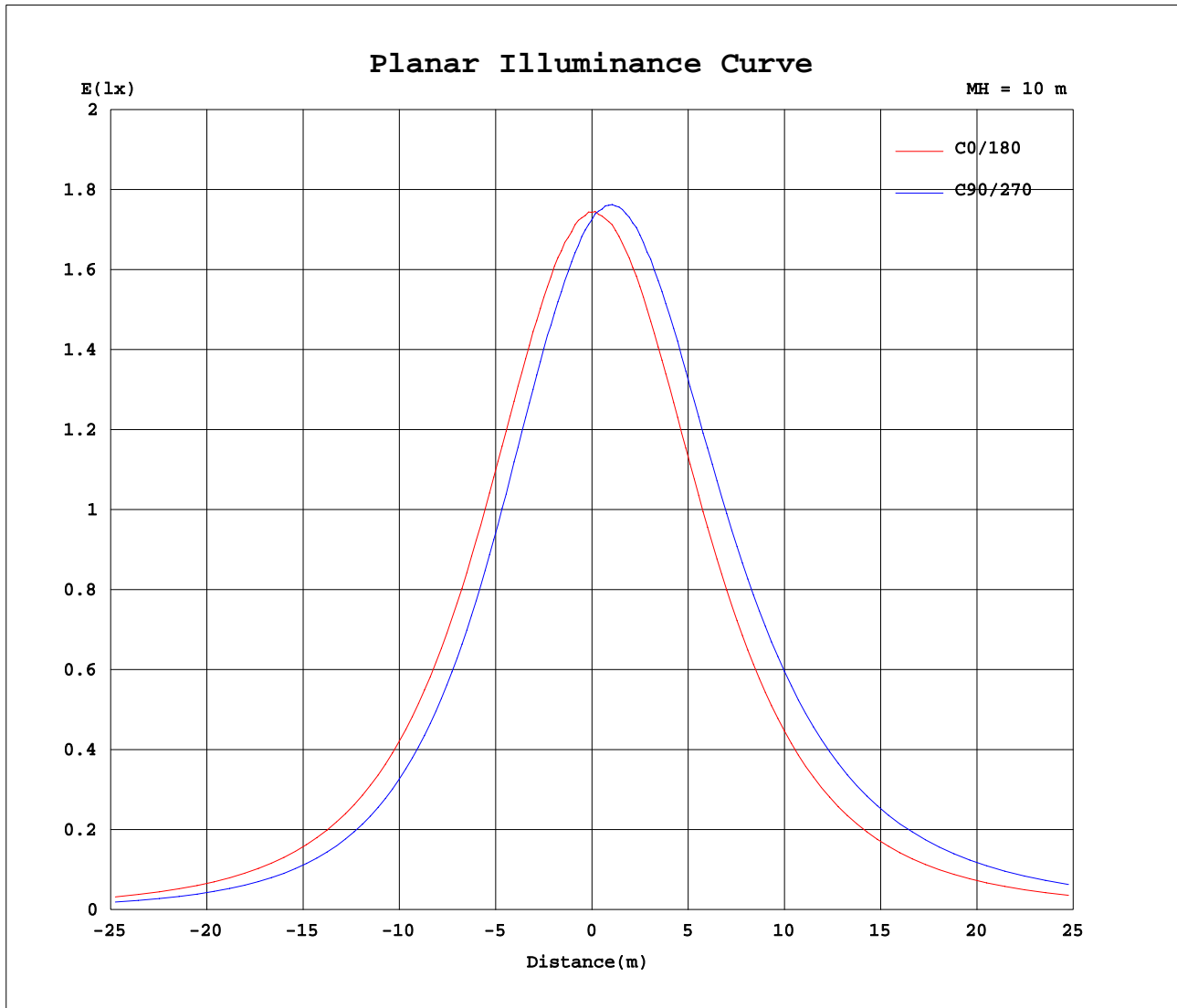


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.14V I:0.0564A P:12.051W PF:0.9291 Freq:0Hz Lamp Flux:612.663x1 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	174	174	173	173	172	173	174	174	173	173	172	173							
5	173	169	167	166	167	169	174	177	178	178	177	174							
10	171	165	160	159	161	165	172	178	181	182	180	175							
15	167	159	154	152	154	160	170	178	184	185	182	175							
20	162	152	145	144	146	153	166	177	185	186	182	172							
25	156	144	137	135	138	146	160	174	184	186	180	169							
30	148	135	127	125	128	138	153	170	181	183	177	164							
35	139	125	117	114	118	128	145	164	177	180	173	157							
40	130	115	106	104	107	118	136	156	172	175	167	149							
45	119	104	94.5	92.4	96.2	108	126	148	164	168	160	140							
50	108	92.0	82.6	80.5	84.3	96.0	115	139	156	160	151	128							
55	95.6	79.8	70.4	68.4	72.2	84.0	103	128	146	151	141	116							
60	82.5	67.3	58.0	56.3	59.7	71.6	90.5	116	135	140	130	103							
65	69.2	54.6	45.5	43.9	47.1	58.8	77.0	103	123	128	118	89.5							
70	55.5	41.7	33.1	31.7	34.5	46.0	63.1	89.5	109	115	104	75.6							
75	42.1	29.2	21.3	20.2	22.5	33.2	49.4	75.6	95.6	101	90.6	61.7							
80	29.5	17.8	10.8	9.84	11.7	21.3	36.1	61.9	81.8	86.9	76.7	48.2							
85	18.4	8.35	2.44	1.70	2.88	11.3	24.1	49.1	67.9	72.3	63.0	36.0							
90	10.7	3.86	0.65	0.68	0.67	5.81	14.5	37.6	55.0	59.4	48.9	26.0							
95	9.34	3.24	0.63	0.67	0.64	4.91	11.9	31.1	46.2	50.4	39.0	21.4							
100	8.45	2.93	0.63	0.71	0.63	4.33	10.5	15.3	17.4	34.4	11.5	10.9							
105	3.97	0.79	0.69	0.77	0.66	1.18	4.85	0.71	0.24	0.23	0.26	0.50							
110	0.48	0.64	0.76	0.83	0.73	0.61	0.47	0.33	0.30	0.26	0.32	0.38							
115	0.53	0.70	0.80	0.88	0.78	0.67	0.53	0.39	0.37	0.33	0.38	0.43							
120	0.60	0.76	0.84	0.92	0.84	0.72	0.58	0.47	0.42	0.39	0.44	0.48							
125	0.64	0.81	0.89	0.96	0.87	0.77	0.63	0.50	0.48	0.45	0.50	0.54							
130	0.69	0.84	0.92	0.99	0.91	0.82	0.70	0.56	0.53	0.50	0.56	0.61							
135	0.76	0.88	0.96	1.01	0.94	0.87	0.74	0.62	0.59	0.56	0.61	0.67							
140	0.79	0.92	0.98	1.03	0.97	0.91	0.79	0.68	0.65	0.61	0.67	0.71							
145	0.83	0.95	1.00	1.05	0.99	0.95	0.83	0.73	0.71	0.68	0.73	0.76							
150	0.86	0.98	1.02	1.07	1.01	0.98	0.87	0.78	0.76	0.72	0.79	0.81							
155	0.90	1.01	1.05	1.07	1.05	1.01	0.91	0.83	0.81	0.78	0.84	0.86							
160	0.95	1.02	1.06	1.07	1.05	1.04	0.96	0.87	0.86	0.84	0.89	0.90							
165	0.98	1.04	1.06	1.06	1.05	1.05	0.99	0.92	0.91	0.90	0.94	0.94							
170	0.99	1.05	1.06	1.06	1.06	1.06	1.00	0.97	0.97	0.93	0.99	0.98							
175	1.02	1.05	1.06	1.06	1.06	1.06	1.02	0.99	1.01	0.98	1.02	1.00							
180	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.04	1.04	1.03	1.05	1.05							

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: