

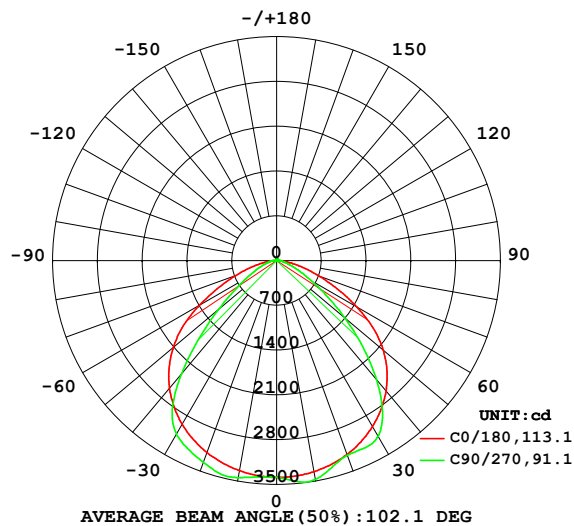
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz
Lamp Flux:8424.72x1 lm

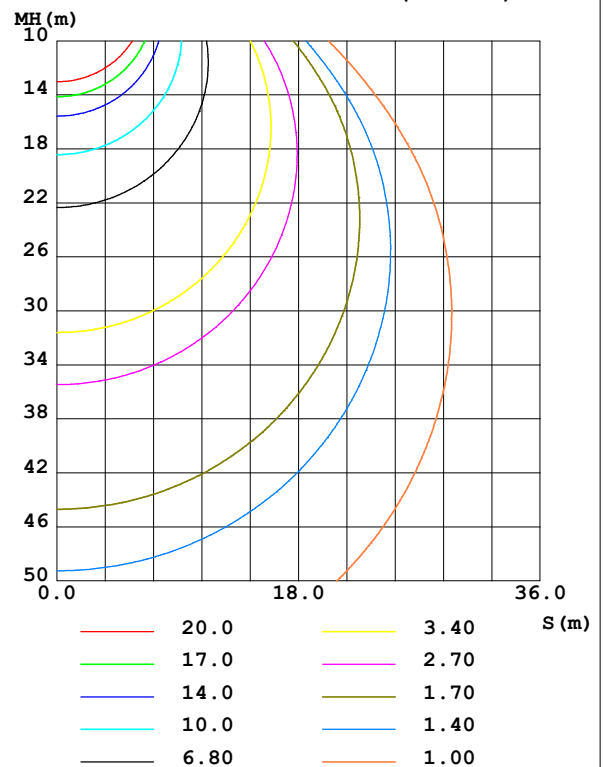
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 160.02 lm/W
MODEL		I _{max} (cd)	3491	S/MH(C0/180)	1.30	
NOMINAL POWER(W)	55	LOR(%)	100.0	S/MH(C90/270)	1.28	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	8424.7	η UP,DN(C0-180)	0.6,50.4	
NOMINAL FLUX(lm)	8424.72	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,48.4	
LAMPS INSIDE	1	η up(%)	1.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	230	η down(%)	98.7	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: QC
Test Date: 18 July 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 8.120m [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	3352	3478	3475	3445	3334	3371	3444	3405	0- 10	325.4	325.4	3.86,3.86
20	3223	3288	3239	3263	3187	3338	3354	3364	10- 20	951.0	1276	15.2,15.2
30	2998	3065	3171	3032	2953	3088	3132	3135	20- 30	1470	2747	32.6,32.6
40	2662	2726	2431	2680	2606	2586	2316	2638	30- 40	1794	4541	53.9,53.9
50	2177	1795	1390	1781	2107	1599	1179	1605	40- 50	1659	6200	73.6,73.6
60	1444	888.6	622.3	893.3	1390	732.0	527.7	723.6	50- 60	1144	7344	87.2,87.2
70	704.3	371.4	256.7	373.7	675.1	309.3	243.7	305.3	60- 70	621.5	7966	94.6,94.6
80	229.1	120.4	98.40	120.4	218.0	115.7	112.8	119.9	70- 80	271.3	8237	97.8,97.8
90	7.520	20.85	29.77	21.73	8.569	25.39	33.73	28.19	80- 90	80.50	8318	98.7,98.7
100	9.856	14.79	17.28	15.12	11.13	13.76	18.07	15.79	90-100	16.12	8334	98.9,98.9
110	12.00	15.22	16.06	15.37	13.75	16.34	18.89	16.79	100-110	15.98	8350	99.1,99.1
120	13.82	16.23	15.65	16.38	15.95	16.63	17.63	17.27	110-120	15.80	8365	99.3,99.3
130	15.81	17.20	16.81	17.44	18.18	18.50	18.48	19.33	120-130	15.28	8381	99.5,99.5
140	17.20	18.87	17.89	18.10	19.67	19.46	20.04	20.60	130-140	14.38	8395	99.6,99.6
150	18.75	18.85	19.76	18.00	20.85	18.94	21.08	19.89	140-150	11.98	8407	99.8,99.8
160	20.90	20.89	20.11	20.65	21.95	20.77	20.79	21.09	150-160	9.248	8416	99.9,99.9
170	22.59	22.88	22.70	22.91	22.95	22.16	22.24	22.19	160-170	6.161	8423	100,100
180	23.44	23.38	23.39	23.37	23.49	23.33	23.43	23.36	170-180	2.190	8425	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5420.2 lm

%lum = 64.3%

%lamp = 64.3%

Conical surface Flux(130deg): 7709.9 lm

%lum = 91.5%

%lamp = 91.5%

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks:

LUMINANCE LIMITATION CURVES

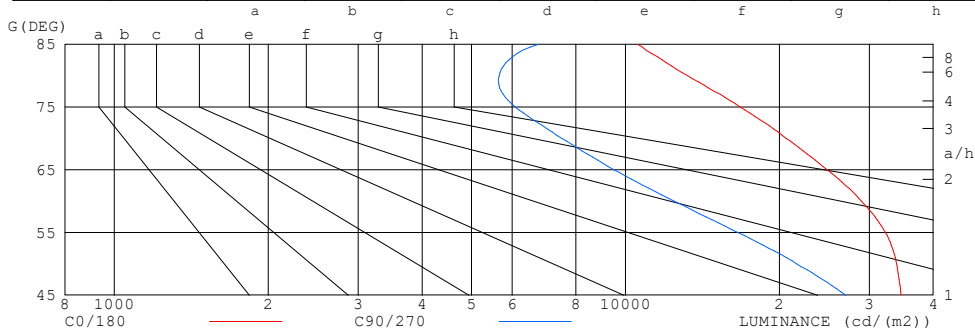
Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz

Lamp Flux:8424.72x1 lm

NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10561	6769
80	13216	5664
75	16762	6088
70	20633	7500
65	24813	9494
60	28945	12440
55	32262	16580
50	33936	21614
45	34604	26953

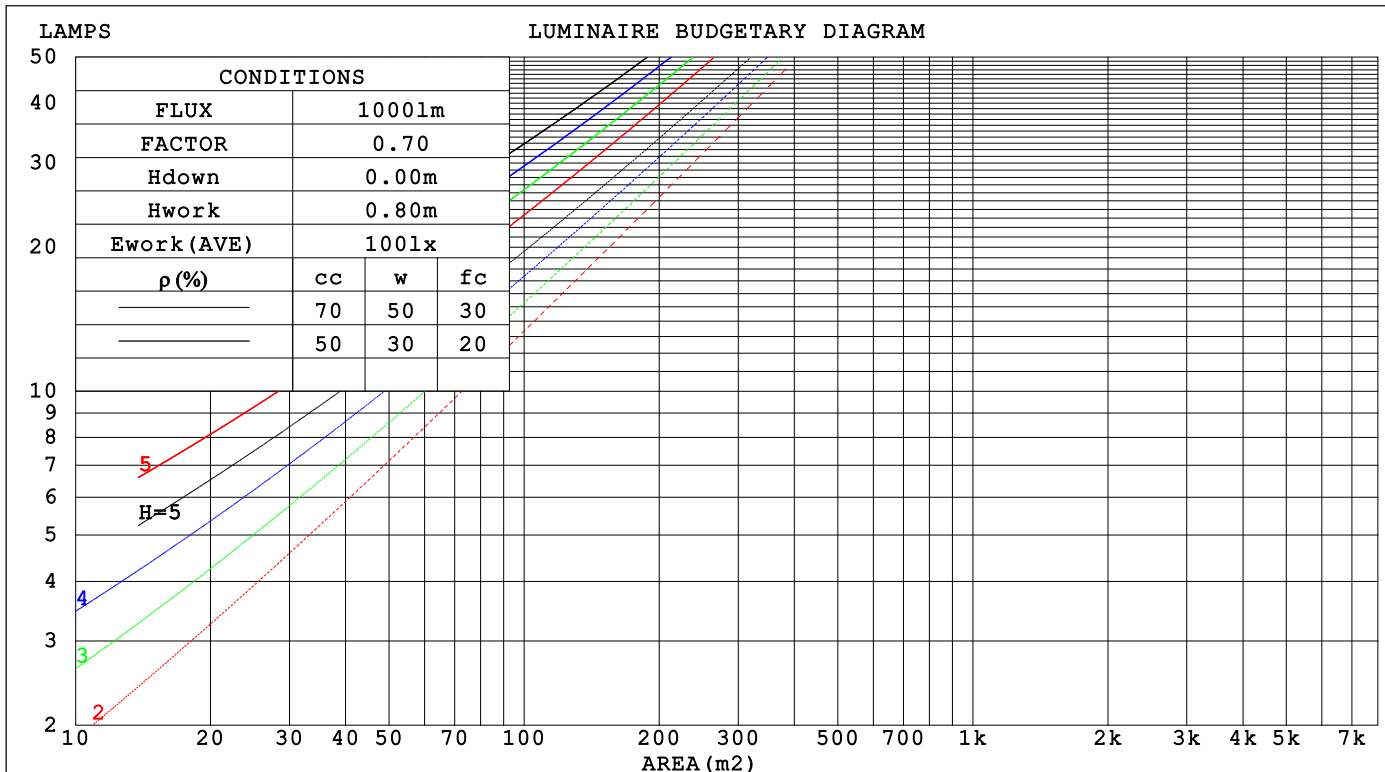
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:18 July 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	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															



C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks:

WEC AND CCEC

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.: 4000K		DIM.:		SERIAL No.:	
MFR.:		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	.265	.151	.048	.258	.147	.047	.244	.140	.045	.231	.133	.043	.220	.127	.041		
2.0	.255	.139	.043	.248	.137	.042	.236	.131	.041	.225	.126	.040	.215	.121	.038		
3.0	.240	.128	.038	.234	.125	.038	.224	.121	.037	.214	.117	.036	.205	.113	.035		
4.0	.225	.117	.034	.220	.115	.034	.210	.112	.033	.202	.108	.033	.194	.105	.032		
5.0	.211	.107	.031	.206	.106	.031	.198	.103	.030	.190	.100	.030	.183	.098	.029		
6.0	.197	.099	.028	.194	.098	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027		
7.0	.185	.092	.026	.182	.091	.026	.175	.089	.026	.169	.087	.025	.163	.085	.025		
8.0	.175	.085	.024	.171	.084	.024	.165	.083	.024	.160	.081	.023	.154	.079	.023		
9.0	.165	.080	.022	.162	.079	.022	.156	.077	.022	.151	.076	.022	.146	.074	.021		
10.0	.156	.075	.021	.153	.074	.021	.148	.073	.020	.143	.071	.020	.139	.070	.020		

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021		
1.0	.187	.166	.148	.160	.143	.127	.109	.098	.088	.063	.057	.051	.020	.018	.017		
2.0	.177	.142	.112	.152	.122	.097	.104	.085	.068	.060	.049	.040	.019	.016	.013		
3.0	.169	.124	.088	.145	.107	.077	.099	.074	.054	.057	.043	.032	.018	.014	.010		
4.0	.161	.110	.072	.138	.095	.062	.095	.066	.044	.055	.039	.026	.018	.013	.009		
5.0	.154	.100	.060	.132	.086	.052	.091	.060	.037	.053	.035	.022	.017	.012	.007		
6.0	.147	.091	.051	.126	.079	.045	.087	.055	.032	.050	.033	.019	.016	.011	.006		
7.0	.140	.084	.045	.121	.073	.039	.083	.051	.028	.048	.030	.017	.016	.010	.005		
8.0	.134	.079	.040	.116	.068	.035	.080	.048	.025	.047	.028	.015	.015	.009	.005		
9.0	.129	.074	.036	.111	.064	.032	.077	.045	.023	.045	.027	.013	.015	.009	.004		
10.0	.124	.069	.033	.106	.060	.029	.074	.042	.021	.043	.025	.012	.014	.008	.004		

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.: 4000K					DIM.:			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	17.2	18.6	17.5	18.8	19.0	15.0	16.4	15.3	16.6	16.9
3H	18.2	19.4	18.5	19.7	19.9	15.3	16.6	15.6	16.9	17.1
4H	18.5	19.7	18.8	19.9	20.2	15.4	16.6	15.7	16.9	17.1
6H	18.6	19.8	19.0	20.1	20.3	15.4	16.6	15.8	16.8	17.1
8H	18.7	19.8	19.0	20.1	20.4	15.4	16.5	15.8	16.8	17.1
12H	18.7	19.7	19.1	20.0	20.4	15.5	16.5	15.8	16.8	17.1
4H 2H	17.3	18.5	17.6	18.7	19.0	15.4	16.6	15.7	16.9	17.2
3H	18.3	19.4	18.7	19.7	20.0	15.8	16.9	16.2	17.2	17.5
4H	18.7	19.7	19.1	20.0	20.4	16.0	16.9	16.4	17.3	17.6
6H	19.0	19.8	19.4	20.2	20.6	16.1	16.9	16.5	17.3	17.7
8H	19.1	19.9	19.5	20.3	20.7	16.1	16.9	16.5	17.3	17.7
12H	19.2	19.9	19.6	20.3	20.7	16.2	16.9	16.6	17.3	17.7
8H 4H	18.7	19.5	19.1	19.9	20.3	16.1	16.9	16.5	17.2	17.6
6H	19.0	19.7	19.5	20.1	20.5	16.3	16.9	16.7	17.3	17.8
8H	19.2	19.7	19.7	20.2	20.7	16.3	16.9	16.8	17.4	17.8
12H	19.3	19.8	19.8	20.2	20.7	16.4	16.9	16.9	17.4	17.9
12H 4H	18.7	19.4	19.1	19.8	20.2	16.1	16.8	16.5	17.2	17.6
6H	19.0	19.6	19.5	20.0	20.5	16.3	16.8	16.8	17.3	17.8
8H	19.2	19.6	19.7	20.1	20.6	16.4	16.9	16.9	17.3	17.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.3					+ 0.8 / - 1.0				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.8				
2.0H	+ 0.9 / - 1.2					+ 1.4 / - 1.8				

CIE Pub.117, 8425 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 7.4)
Area: 0.1 m2

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

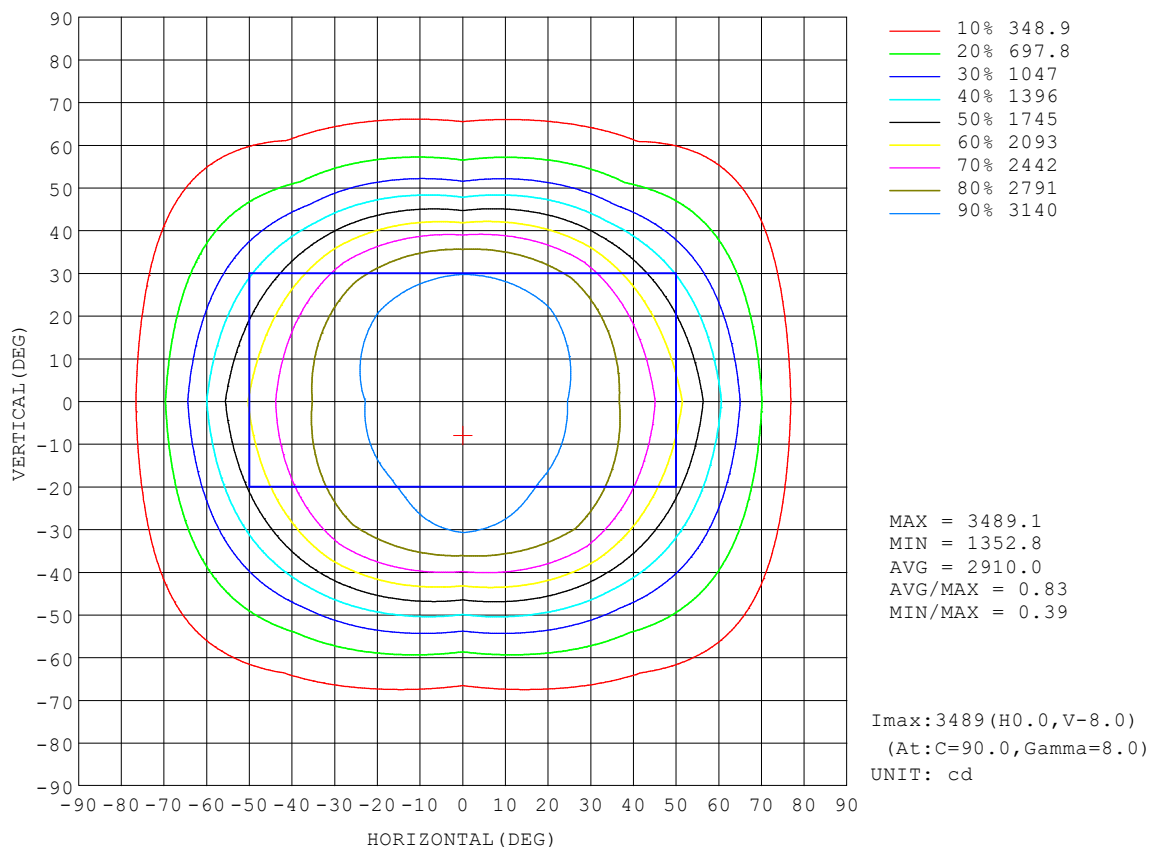
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	52	45	62	52	45	61	51	45	39
0.80	73	62	56	72	62	56	70	61	55	49
1.00	81	71	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	71	65
1.50	93	84	78	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	101	98	95	86
5.00	110	106	102	108	104	101	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: QC
Test Date: 18 July 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 8.120m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

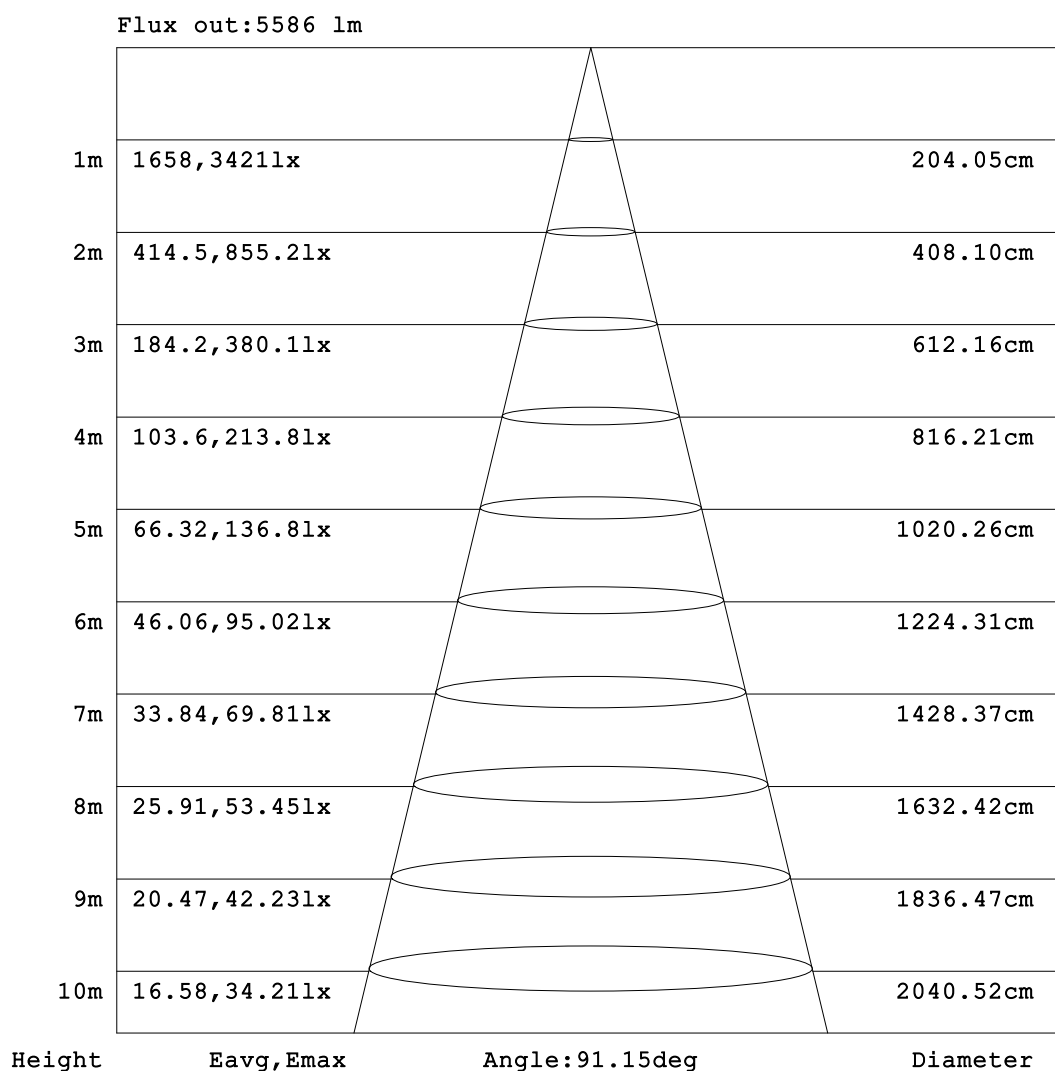


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:18 July 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	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: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

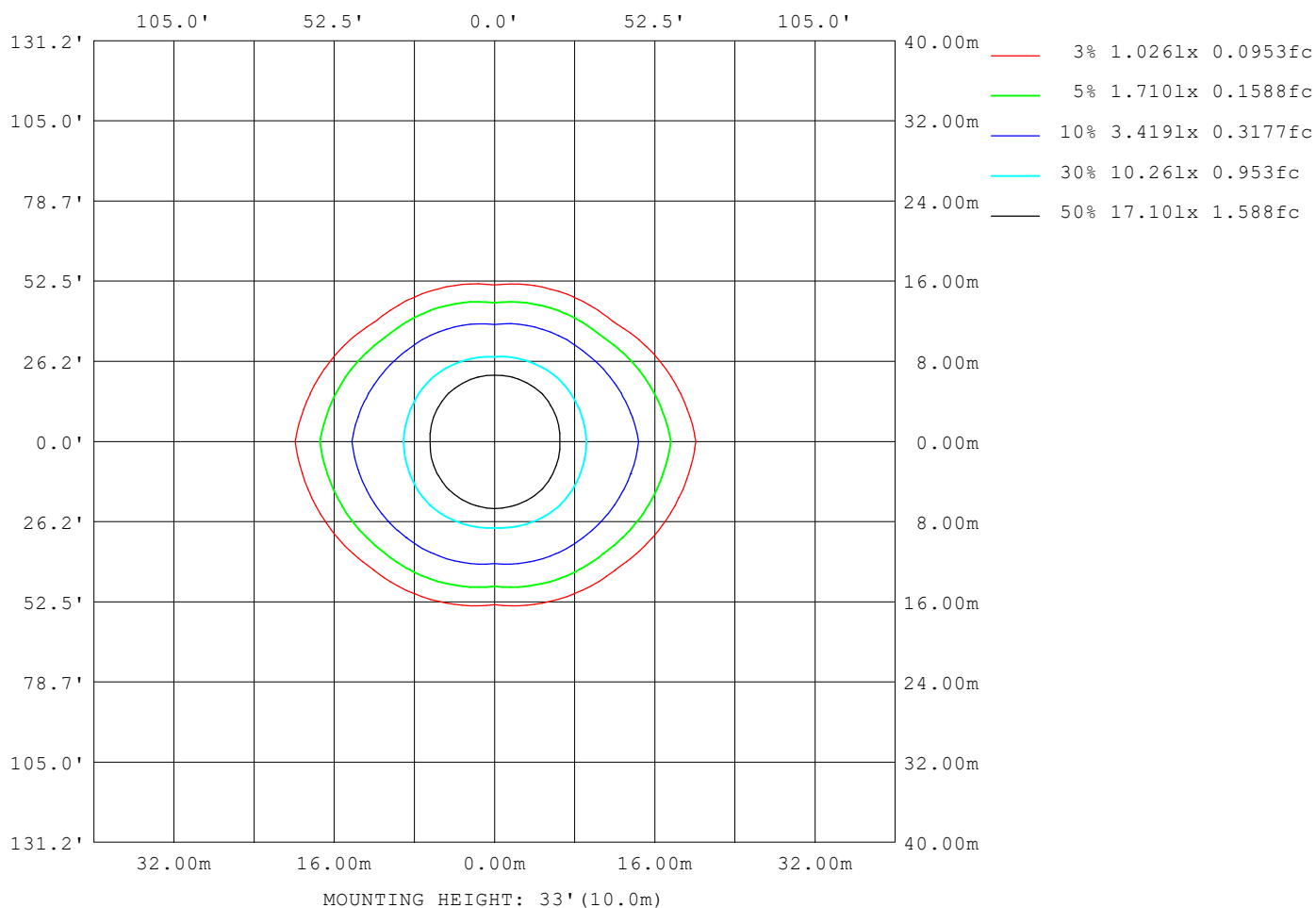
Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks:

ISOLUX DIAGRAM

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QC
Test Date:18 July 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	24231
L_0~180 (75) av	16424
L_0~180 (85) av	10203
L_90~270 (65) av	9022
L_90~270 (75) av	6156
L_90~270 (85) av	7445
L_45 (65) av	12570
L_45 (75) av	7950
L_45 (85) av	7248

Standard: GB/T 29293-2012

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

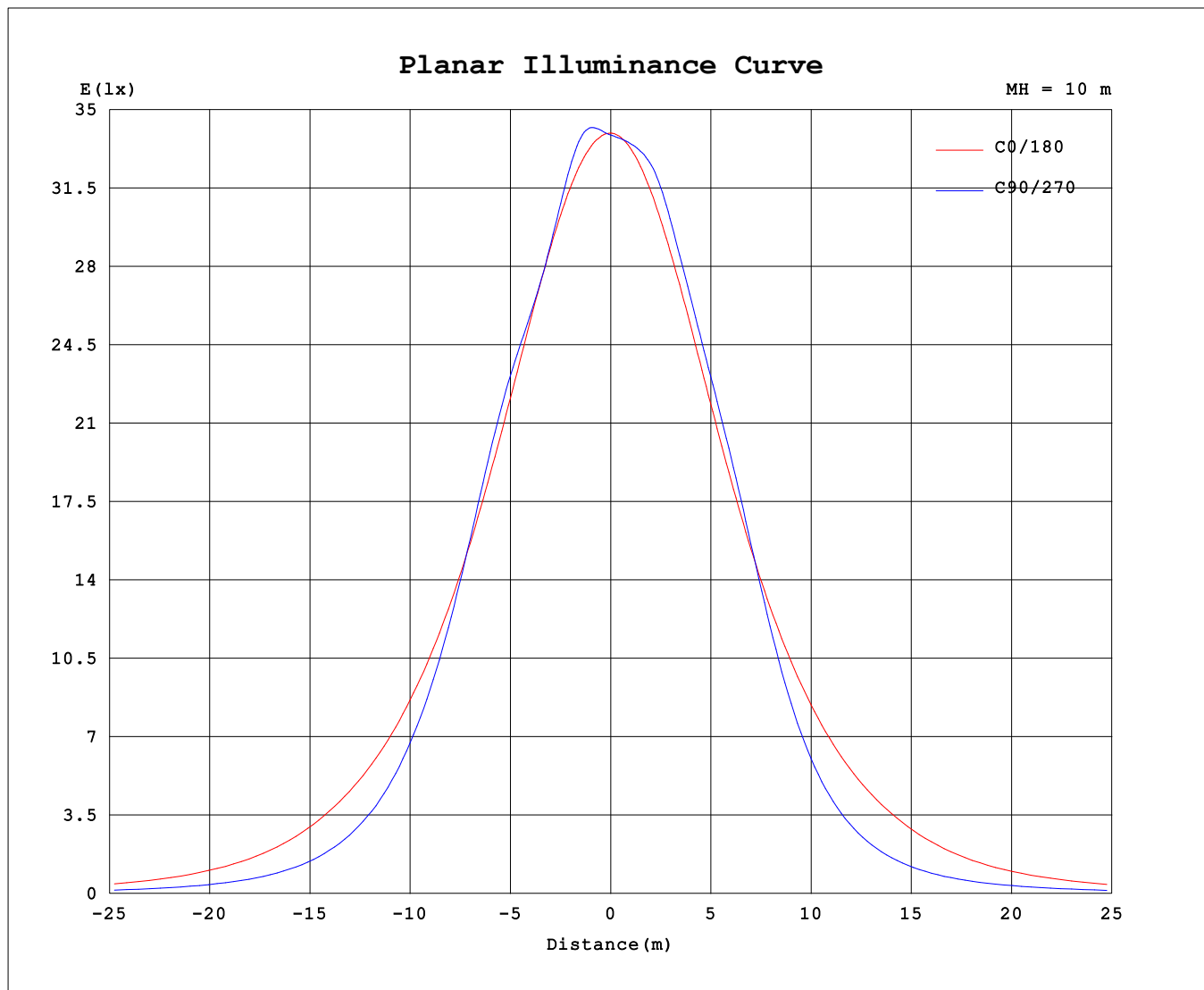
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: QC
Test Date: 18 July 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 8.120m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.00V I:0.2331A P:52.648W PF:0.9780 Freq:49.99Hz Lamp Flux:8424.72x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	3389	3389	3389	3389	3389	3389	3389	3389										
5	3380	3443	3462	3417	3374	3373	3395	3391										
10	3352	3478	3475	3445	3334	3371	3444	3405										
15	3299	3421	3345	3391	3273	3373	3445	3413										
20	3223	3288	3239	3263	3187	3338	3354	3364										
25	3124	3156	3237	3133	3085	3232	3258	3257										
30	2998	3065	3171	3032	2953	3088	3132	3135										
35	2844	2968	2886	2917	2794	2890	2842	2950										
40	2662	2726	2431	2680	2606	2586	2316	2638										
45	2442	2305	1907	2274	2379	2129	1705	2157										
50	2177	1795	1390	1781	2107	1599	1179	1605										
55	1847	1299	951	1302	1784	1113	787	1105										
60	1444	889	622	893	1390	732	528	724										
65	1047	587	401	588	1001	479	361	470										
70	704	371	257	374	675	309	244	305										
75	433	216	158	220	417	191	161	195										
80	229	120	98.4	120	218	116	113	120										
85	91.9	59.0	59.0	59.9	86.0	65.5	70.8	68.2										
90	7.52	20.8	29.8	21.7	8.57	25.4	33.7	28.2										
95	8.41	14.0	17.9	13.6	9.48	14.6	20.4	15.5										
100	9.86	14.8	17.3	15.1	11.1	13.8	18.1	15.8										
105	11.2	14.9	17.3	15.5	12.7	15.4	18.2	16.6										
110	12.0	15.2	16.1	15.4	13.8	16.3	18.9	16.8										
115	12.8	15.7	15.9	15.8	14.8	16.9	18.6	17.2										
120	13.8	16.2	15.7	16.4	15.9	16.6	17.6	17.3										
125	14.8	16.9	15.7	17.3	17.1	18.1	17.9	18.6										
130	15.8	17.2	16.8	17.4	18.2	18.5	18.5	19.3										
135	16.5	18.4	17.7	18.3	19.1	19.5	20.0	20.3										
140	17.2	18.9	17.9	18.1	19.7	19.5	20.0	20.6										
145	17.9	18.3	19.4	17.4	20.2	18.4	21.3	19.7										
150	18.7	18.9	19.8	18.0	20.8	18.9	21.1	19.9										
155	19.9	19.7	19.1	19.3	21.4	19.8	20.3	20.4										
160	20.9	20.9	20.1	20.6	22.0	20.8	20.8	21.1										
165	21.9	22.0	21.7	21.9	22.5	21.6	21.8	21.6										
170	22.6	22.9	22.7	22.9	22.9	22.2	22.2	22.2										
175	23.0	23.4	23.4	23.4	23.3	22.9	22.9	22.9										
180	23.4	23.4	23.4	23.4	23.5	23.3	23.4	23.4										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:QC

Test Date:18 July 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.460

Humidity:65.0%

Test Distance:8.120m [K=1.0000]

Remarks: