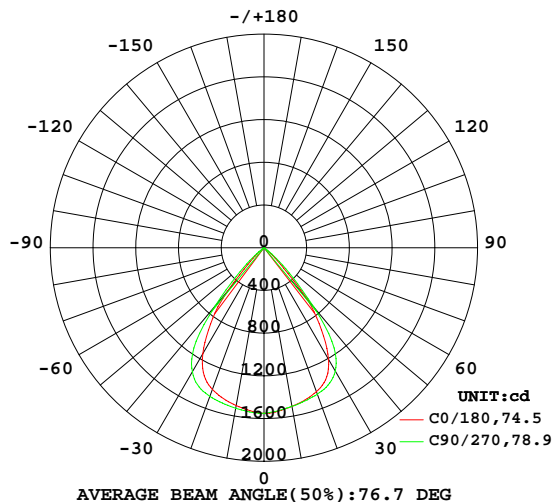


LUMINAIRE PHOTOMETRIC TEST REPORT

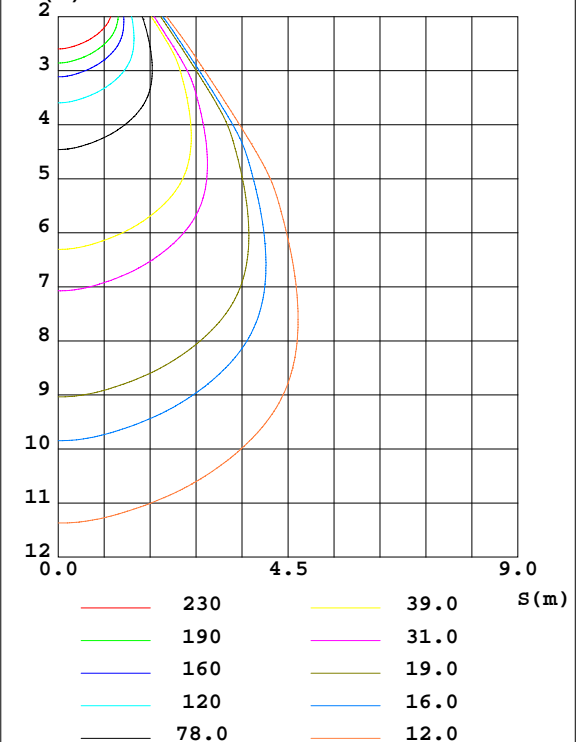
Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.79 lm/W			
MODEL		Imax(cd)	1552	S/MH(C0/180)	1.07
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2277.8	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	2277.81	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

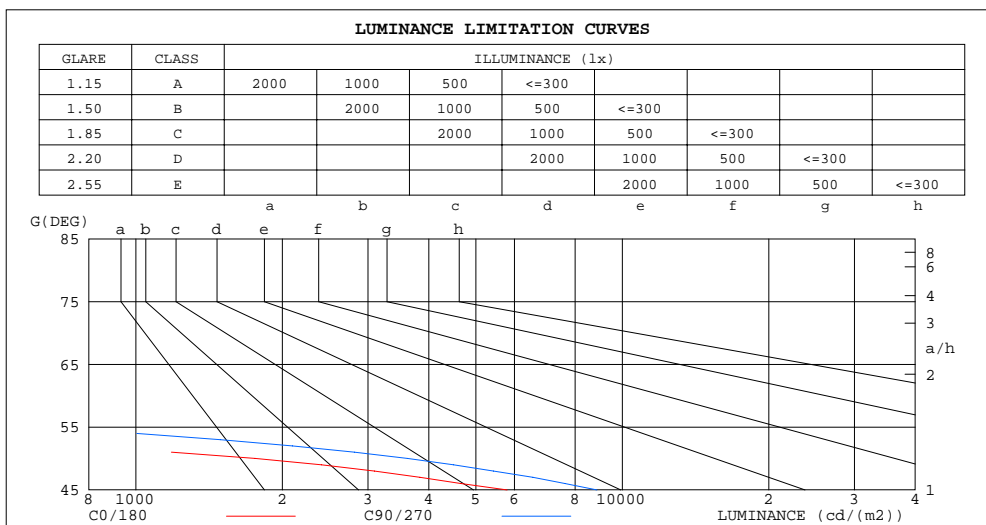
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1508	1496	1506	1492	1501	1505	1526	1512	0- 10	145.5	145.5	6.39,6.39
20	1435	1427	1460	1425	1412	1440	1481	1455	10- 20	416.7	562.3	24.7,24.7
30	1208	1377	1335	1355	1146	1367	1341	1399	20- 30	641.4	1204	52.8,52.8
40	635.2	986.7	724.9	897.8	522.1	929.9	711.0	956.4	30- 40	689.8	1893	83.1,83.1
50	60.71	307.2	124.8	270.4	42.21	261.9	114.5	289.2	40- 50	333.4	2227	97.8,97.8
60	0.6589	26.76	0.6676	19.49	0.5406	20.35	0.6817	22.44	50- 60	48.33	2275	99.9,99.9
70	0.3610	0.2492	0.2322	0.2493	0.3984	0.3815	0.2116	0.2589	60- 70	1.478	2277	99.9,99.9
80	0.2405	0.1460	0.1289	0.5273	1.491	0.3179	0.1976	0.2234	70- 80	0.3022	2277	100,100
90	0.8247	0.5498	0.1117	2.887	2.156	1.521	0.4296	1.143	80- 90	0.8808	2278	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									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	68	24
80	26	14
75	20	13
70	20	13
65	21	13
60	25	25
55	195	637
50	1759	3616
45	5798	8867

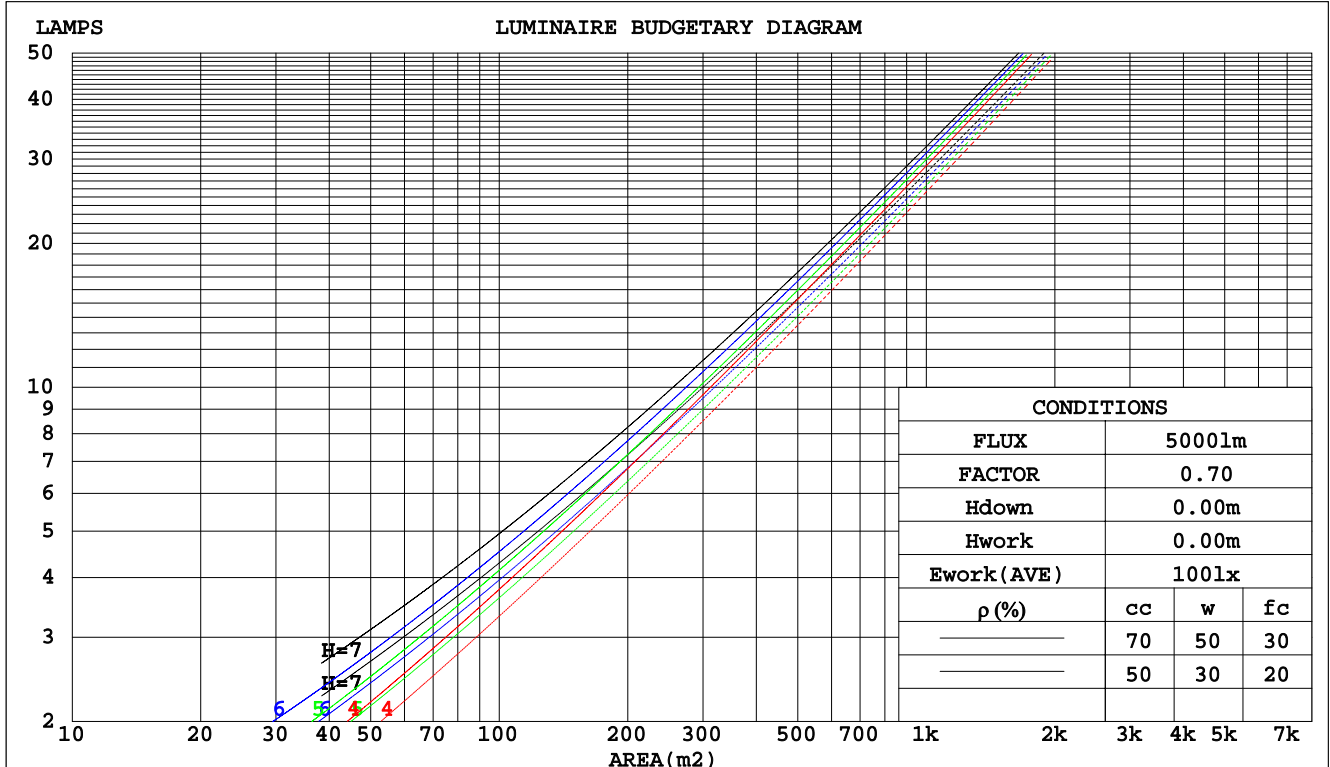
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.87	.83	.92	.86	.82	.89	.84	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.79	.75	.84	.79	.74	.82	.77	.73	.80	.76	.72	.78	.75	.72	.70
5.0	.79	.72	.68	.78	.72	.67	.76	.71	.67	.74	.70	.66	.73	.69	.65	.64
6.0	.73	.66	.61	.72	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.64	.59	.55	.63	.59	.55	.53
8.0	.63	.56	.51	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.43	.52	.47	.43	.42



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 1285*48*76			SERIAL No.:		
MFR.:			SUR.:1.28*0.042			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	.196	.111	.035	.189	.108	.034	.176	.101	.032	.164	.095	.030	.154	.089	.029		
2.0	.190	.104	.032	.184	.102	.031	.174	.097	.030	.164	.092	.029	.155	.087	.028		
3.0	.183	.097	.029	.178	.095	.029	.169	.091	.028	.160	.088	.027	.152	.084	.026		
4.0	.175	.091	.027	.171	.089	.026	.163	.086	.026	.155	.083	.025	.148	.081	.025		
5.0	.168	.085	.025	.164	.084	.025	.157	.082	.024	.150	.079	.024	.144	.077	.023		
6.0	.160	.080	.023	.157	.079	.023	.151	.077	.022	.145	.075	.022	.139	.073	.022		
7.0	.153	.076	.021	.150	.075	.021	.145	.073	.021	.139	.071	.021	.134	.070	.021		
8.0	.147	.072	.020	.144	.071	.020	.139	.069	.020	.134	.068	.020	.130	.067	.019		
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.019	.125	.063	.018		
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.017		

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	.172	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016		
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.054	.046	.039	.017	.015	.013		
3.0	.148	.114	.087	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010		
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008		
5.0	.131	.088	.056	.112	.076	.049	.077	.053	.035	.045	.031	.021	.014	.010	.007		
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006		
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005		
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004		
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.038	.022	.011	.012	.007	.004		
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 1285*48*76			SERIAL No.:				
MFR.:			SUR.:1.28*0.042			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	17.1	18.2	17.3	18.4	18.5	18.2	19.3	18.4	19.5	19.6
3H	16.9	17.9	17.2	18.1	18.3	18.0	19.0	18.3	19.2	19.4
4H	16.8	17.8	17.1	18.0	18.2	17.9	18.9	18.2	19.1	19.3
6H	16.7	17.6	17.0	17.8	18.1	17.8	18.7	18.1	19.0	19.2
8H	16.7	17.5	17.0	17.8	18.0	17.8	18.6	18.1	18.9	19.2
12H	16.6	17.4	17.0	17.7	18.0	17.7	18.5	18.1	18.8	19.1
4H 2H	16.8	17.8	17.1	18.0	18.2	17.9	18.9	18.2	19.1	19.3
3H	16.7	17.5	17.0	17.7	18.0	17.7	18.6	18.1	18.8	19.1
4H	16.6	17.3	16.9	17.6	17.9	17.7	18.4	18.0	18.7	19.0
6H	16.5	17.1	16.8	17.4	17.8	17.6	18.2	17.9	18.5	18.9
8H	16.4	17.0	16.8	17.4	17.7	17.5	18.1	17.9	18.5	18.8
12H	16.4	16.9	16.8	17.3	17.7	17.5	18.0	17.9	18.4	18.8
8H 4H	16.4	17.0	16.8	17.4	17.7	17.5	18.1	17.9	18.5	18.8
6H	16.3	16.8	16.8	17.2	17.6	17.4	17.9	17.8	18.3	18.7
8H	16.3	16.7	16.7	17.1	17.6	17.4	17.8	17.8	18.2	18.6
12H	16.2	16.6	16.7	17.0	17.5	17.3	17.7	17.8	18.1	18.6
12H 4H	16.4	16.9	16.8	17.3	17.7	17.5	18.0	17.9	18.4	18.8
6H	16.3	16.7	16.7	17.1	17.6	17.4	17.8	17.8	18.2	18.6
8H	16.2	16.6	16.7	17.0	17.5	17.3	17.7	17.8	18.1	18.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -25.9					+ 2.8 / -22.1				
1.5H	+ 3.8 / -15.0					+ 4.0 / - 9.7				
2.0H	+ 5.8 / -28.1					+ 6.2 / -33.3				

CIE Pub.117, 2278 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.9$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:

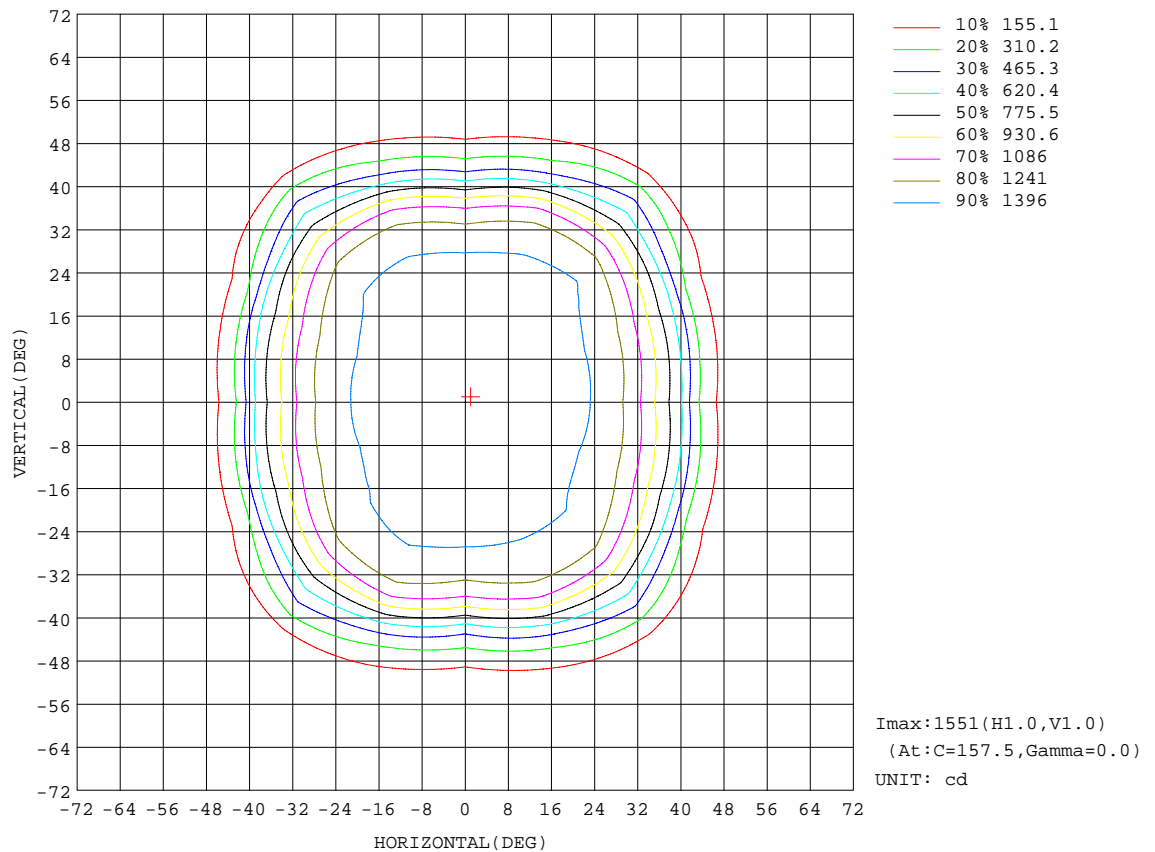
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	69	79	73	69	64
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	89	85	94	88	84	93	89	84	79
1.25	100	94	90	99	94	90	97	93	89	85
1.50	103	98	94	102	97	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	111	109	112	110	108	108	106	105	97
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:25.3DEG
 Operators:
 Test Date:2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:

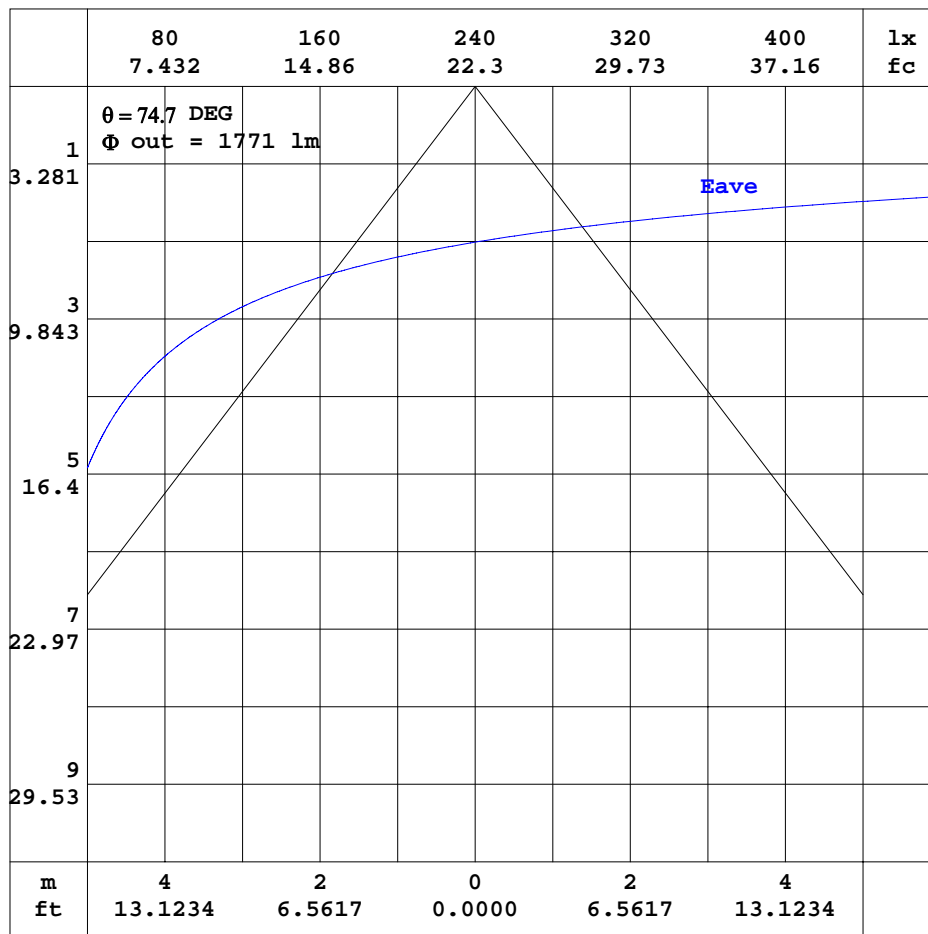


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:



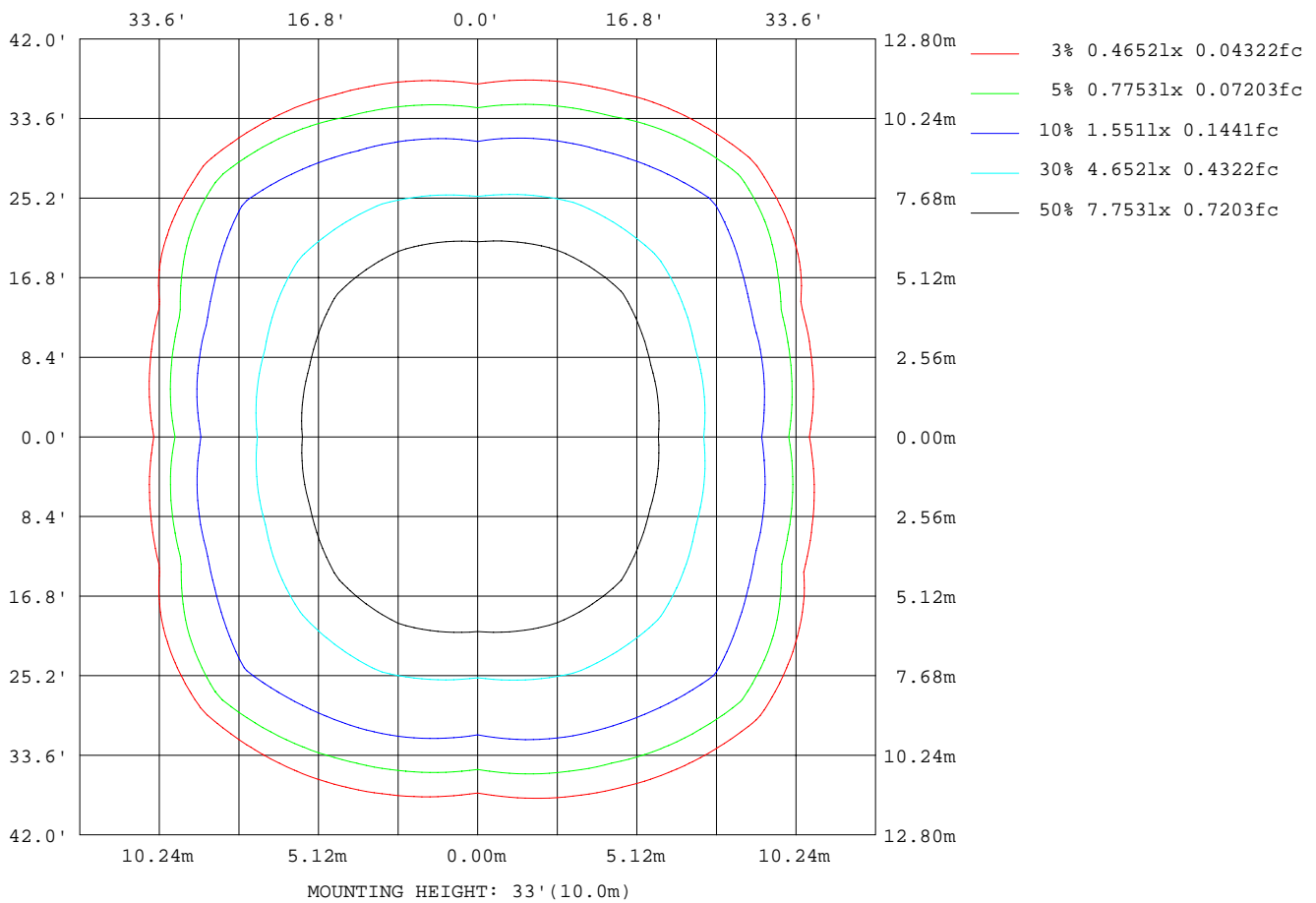
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.68V I:0.2126A P:47.659W PF:0.9762 Freq:49.99Hz Lamp Flux:2277.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*76	SERIAL No.:
MFR.:	SUR.:1.28*0.042	Shielding Angle:

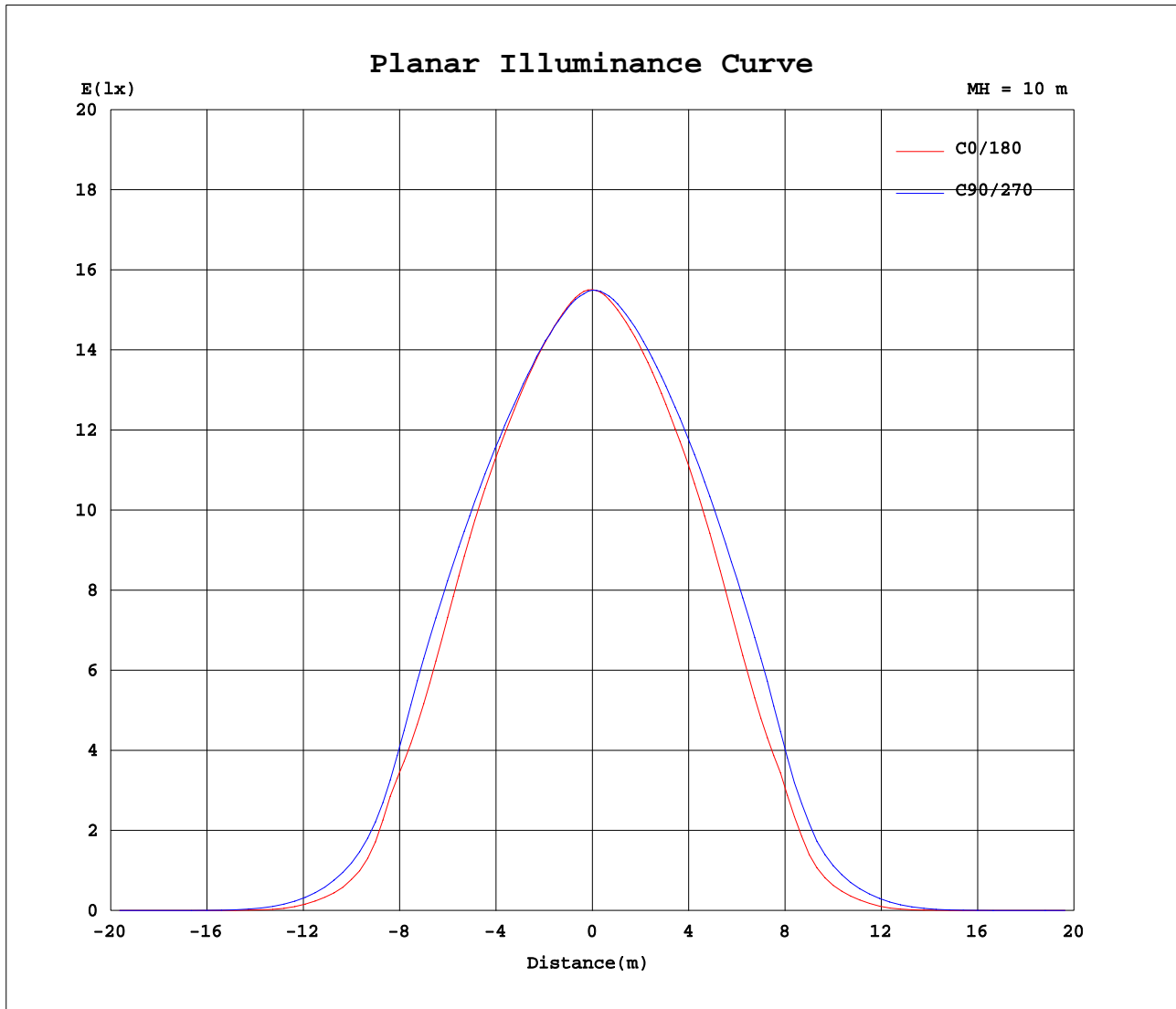
AvgL	cd/m2
L_0~180(65)av	19
L_0~180(75)av	25
L_0~180(85)av	261
L_90~270(65)av	13
L_90~270(75)av	14
L_90~270(85)av	39
L_45(65)av	64
L_45(75)av	15
L_45(85)av	209

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```