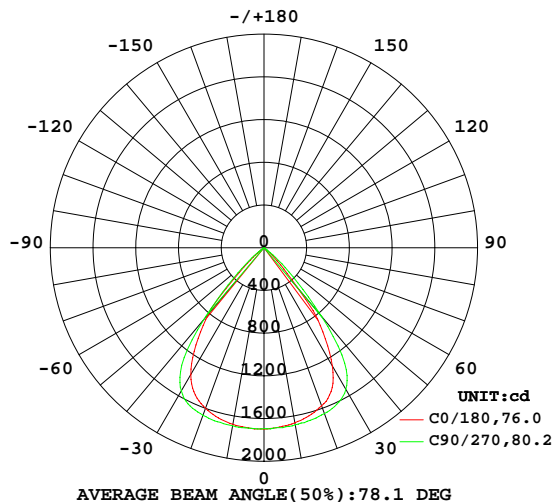


LUMINAIRE PHOTOMETRIC TEST REPORT

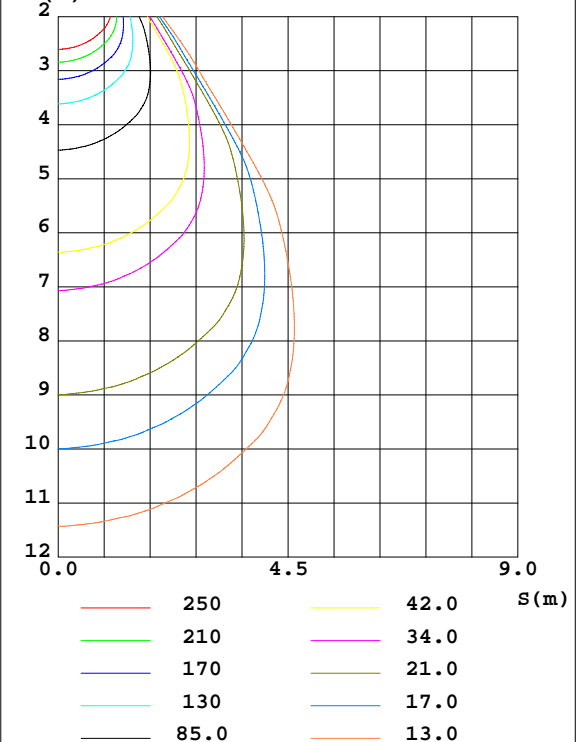
Test:U:229.68V I:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 45.77 lm/W			
MODEL		Imax(cd)	1702	S/MH(C0/180)	1.13
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2624.8	η UP,DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	2624.81	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
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:2025-09-29

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:

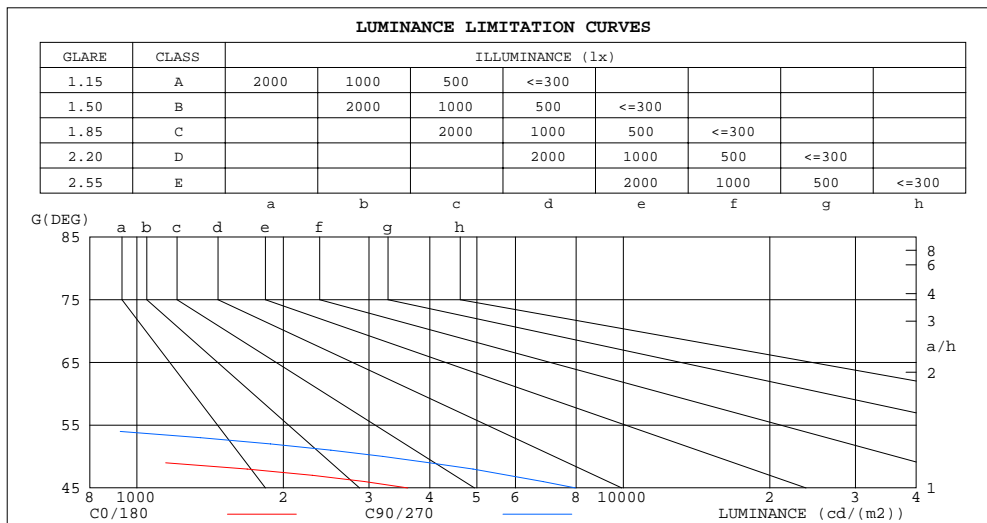
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1664	1670	1684	1687	1679	1693	1693	1679	0- 10	161.2	161.2	6.14,6.14
20	1576	1626	1653	1653	1600	1659	1669	1648	10- 20	470.3	631.6	24.1,24.1
30	1281	1547	1532	1599	1372	1604	1549	1577	20- 30	733.1	1365	52,52
40	498.7	1009	838.3	1134	808.7	1189	878.1	994.9	30- 40	796.0	2161	82.3,82.3
50	32.76	253.2	141.7	417.2	106.1	449.9	152.9	232.7	40- 50	395.3	2556	97.4,97.4
60	2.320	17.13	2.464	40.46	3.623	47.57	2.883	15.95	50- 60	63.16	2619	99.8,99.8
70	1.624	1.083	1.127	1.298	1.555	1.065	1.072	0.9875	60- 70	3.402	2622	99.9,99.9
80	1.117	0.9955	0.5331	0.8248	1.685	0.5258	0.6358	0.5326	70- 80	1.099	2624	100,100
90	0.5498	1.186	0.6615	2.732	3.093	1.383	0.7646	0.7302	80- 90	1.228	2625	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:2025-09-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ 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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	146	79
80	94	45
75	87	43
70	69	48
65	64	53
60	67	72
55	134	611
50	741	3204
45	3605	7970

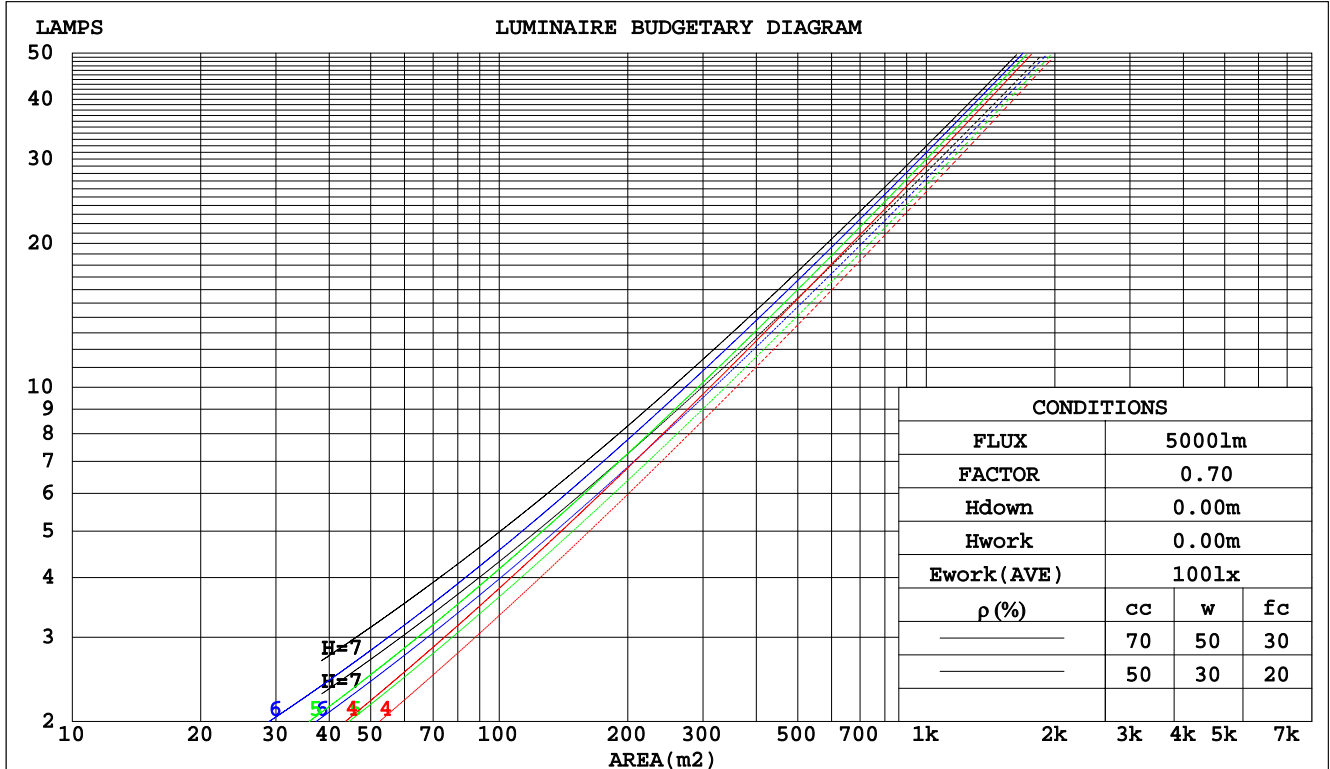
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*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			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	1.03	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.96	.93	.99	.95	.91	.96	.92	.89	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.87	.83	.91	.86	.82	.89	.84	.81	.86	.82	.79	.84	.81	.78	.76
4.0	.85	.79	.74	.84	.78	.74	.82	.77	.73	.80	.76	.72	.78	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.66	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.65	.61	.70	.65	.60	.69	.64	.60	.67	.63	.59	.58
7.0	.67	.60	.56	.67	.60	.55	.65	.59	.55	.64	.59	.55	.63	.58	.55	.53
8.0	.62	.56	.51	.62	.55	.51	.61	.55	.51	.60	.54	.50	.59	.54	.50	.49
9.0	.58	.51	.47	.58	.51	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.45
10.0	.54	.48	.43	.54	.47	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 1650*48*76			SERIAL No.:		
MFR.:			SUR.:1.64*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	.197	.112	.036	.190	.109	.034	.178	.102	.033	.166	.096	.031	.155	.090	.029	
2.0	.192	.105	.032	.186	.102	.032	.175	.097	.030	.165	.093	.029	.156	.088	.028	
3.0	.184	.098	.029	.179	.096	.029	.170	.092	.028	.162	.089	.027	.154	.085	.026	
4.0	.177	.092	.027	.172	.090	.027	.164	.087	.026	.157	.084	.025	.150	.081	.025	
5.0	.169	.086	.025	.165	.085	.025	.158	.082	.024	.151	.080	.024	.145	.078	.023	
6.0	.161	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.140	.074	.022	
7.0	.154	.076	.022	.151	.075	.021	.146	.074	.021	.140	.072	.021	.135	.070	.021	
8.0	.148	.072	.020	.145	.071	.020	.140	.070	.020	.135	.068	.020	.131	.067	.020	
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018	
10.0	.135	.065	.018	.133	.064	.018	.129	.063	.018	.125	.062	.018	.121	.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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.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	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.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	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.026	.089	.049	.022	.062	.035	.016	.036	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1650*48*76			SERIAL No.:			
MFR.:					SUR.:1.64*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	15.4	16.6	15.7	16.7	16.9	17.4	18.5	17.6	18.6	18.8	
	3H	15.3	16.3	15.5	16.5	16.7	17.2	18.2	17.4	18.4	
	4H	15.2	16.1	15.5	16.3	16.6	17.1	18.0	17.4	18.3	
	6H	15.1	16.0	15.4	16.2	16.5	17.0	17.9	17.3	18.1	
	8H	15.0	15.9	15.3	16.1	16.4	16.9	17.8	17.3	18.0	
	12H	15.0	15.8	15.3	16.1	16.4	16.9	17.7	17.2	18.0	
4H	2H	15.2	16.1	15.5	16.4	16.6	17.1	18.0	17.4	18.3	
	3H	15.0	15.8	15.3	16.1	16.4	16.9	17.7	17.2	18.0	
	4H	14.9	15.6	15.3	15.9	16.3	16.8	17.5	17.2	17.8	
	6H	14.8	15.5	15.2	15.8	16.1	16.7	17.4	17.1	17.7	
	8H	14.8	15.4	15.2	15.7	16.1	16.7	17.3	17.1	17.6	
	12H	14.7	15.3	15.1	15.6	16.0	16.6	17.2	17.0	17.5	
8H	4H	14.8	15.4	15.2	15.7	16.1	16.7	17.3	17.1	17.6	
	6H	14.7	15.2	15.1	15.5	16.0	16.6	17.1	17.0	17.4	
	8H	14.6	15.0	15.1	15.5	15.9	16.5	16.9	17.0	17.4	
	12H	14.6	14.9	15.0	15.4	15.8	16.5	16.8	16.9	17.3	
12H	4H	14.7	15.3	15.1	15.6	16.0	16.6	17.2	17.0	17.5	
	6H	14.6	15.0	15.1	15.5	15.9	16.5	16.9	17.0	17.4	
	8H	14.6	14.9	15.0	15.4	15.8	16.5	16.8	16.9	17.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.8 / -22.7					+ 2.8 / -22.3					
1.5H	+ 4.2 / -18.3					+ 4.2 / -10.9					
2.0H	+ 6.0 / -15.8					+ 6.5 / -22.4					

CIE Pub.117, 2625 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.4$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:

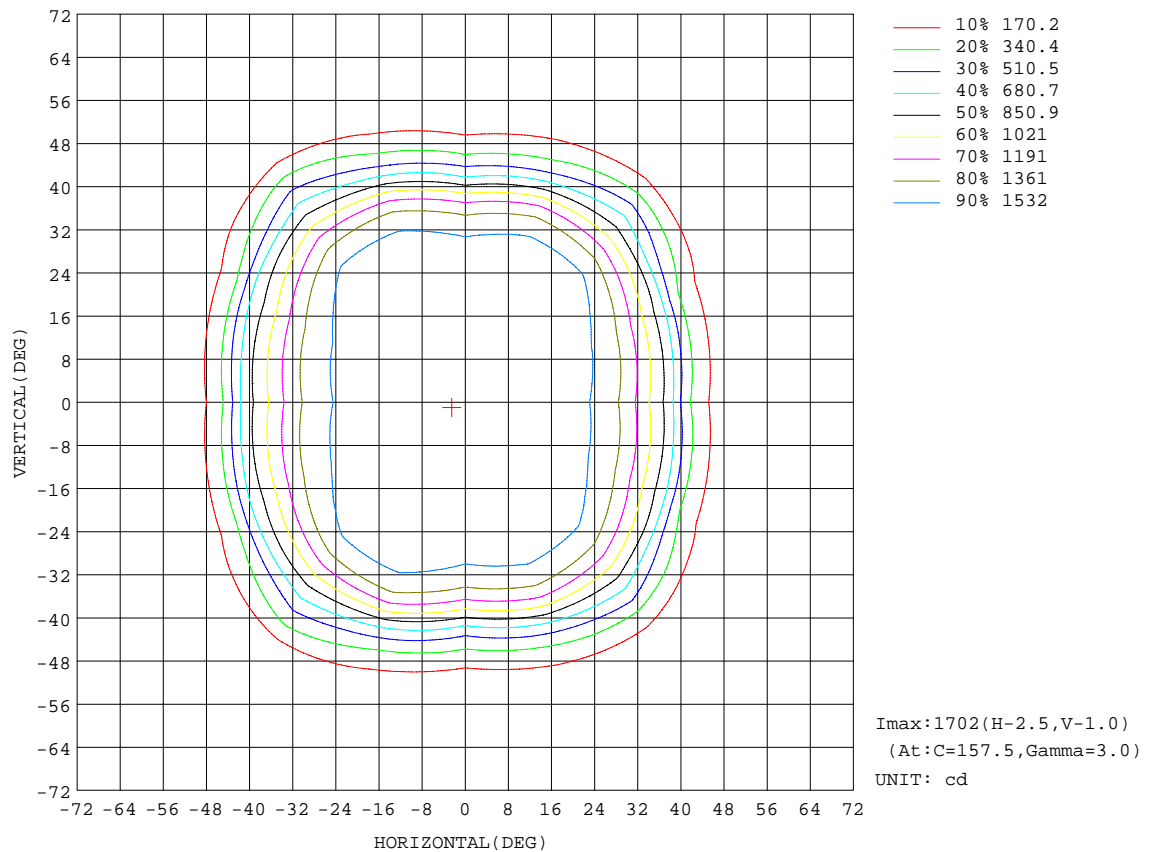
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	72	68	79	72	68	64
0.80	89	82	77	88	82	77	87	81	77	73
1.00	95	88	84	94	88	84	92	88	83	79
1.25	100	94	90	99	93	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	109	107	111	108	106	107	105	103	95
5.00	114	111	109	112	109	107	108	106	104	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:2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:

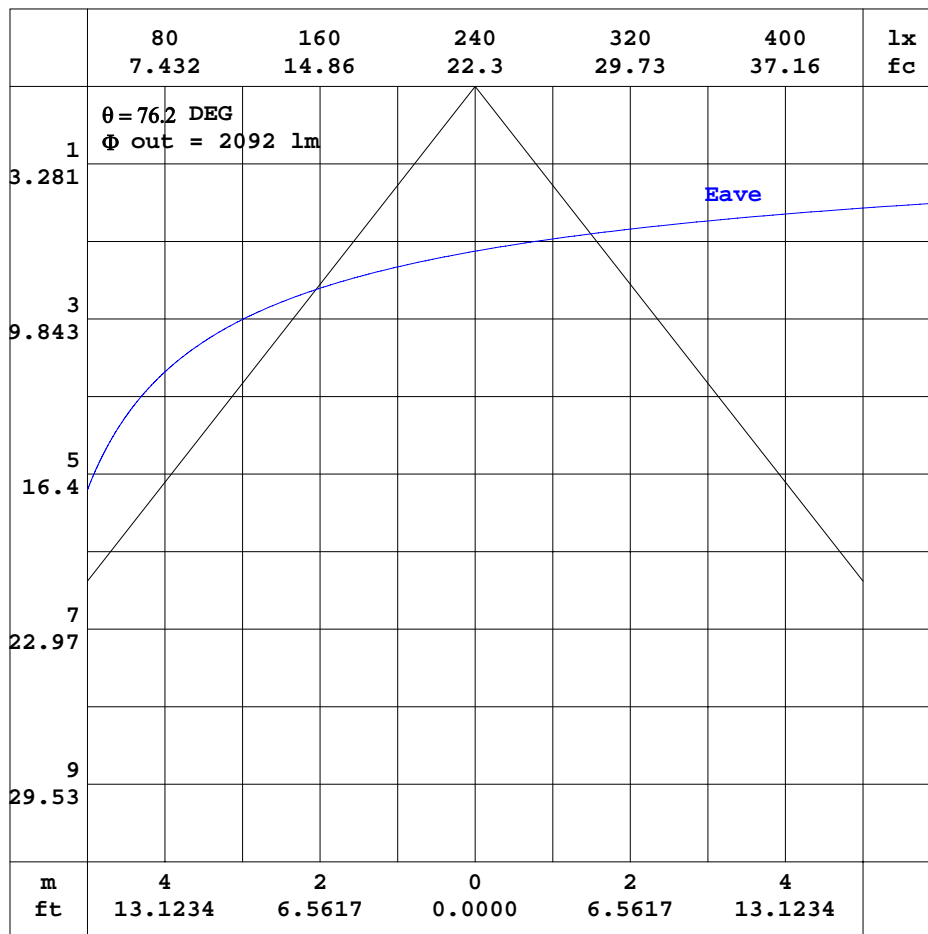


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:



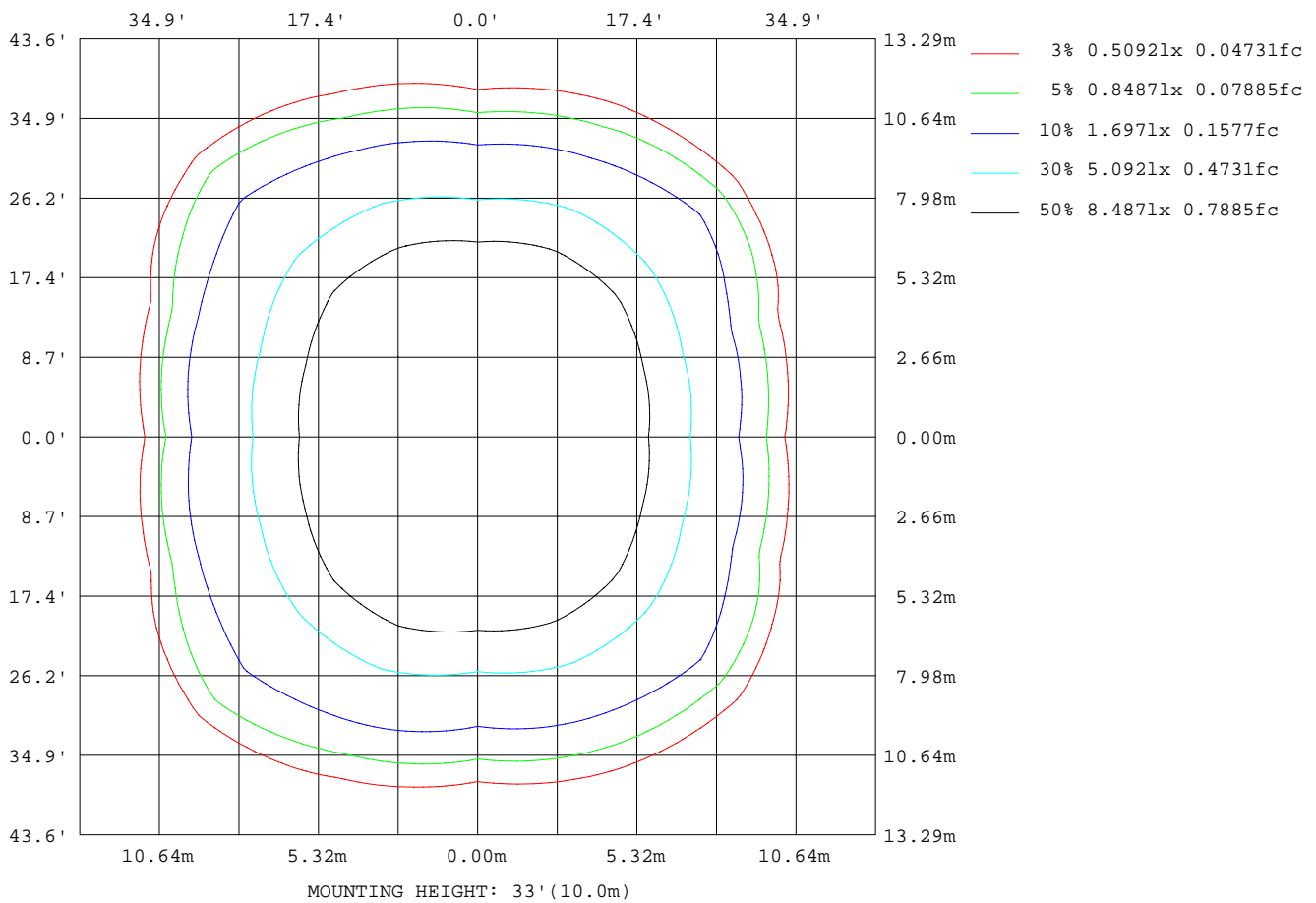
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-09-29

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:0.2511A P:57.350W PF:0.9946 Freq:49.99Hz Lamp Flux:2624.81x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*76	SERIAL No.:
MFR.:	SUR.:1.64*0.042	Shielding Angle:

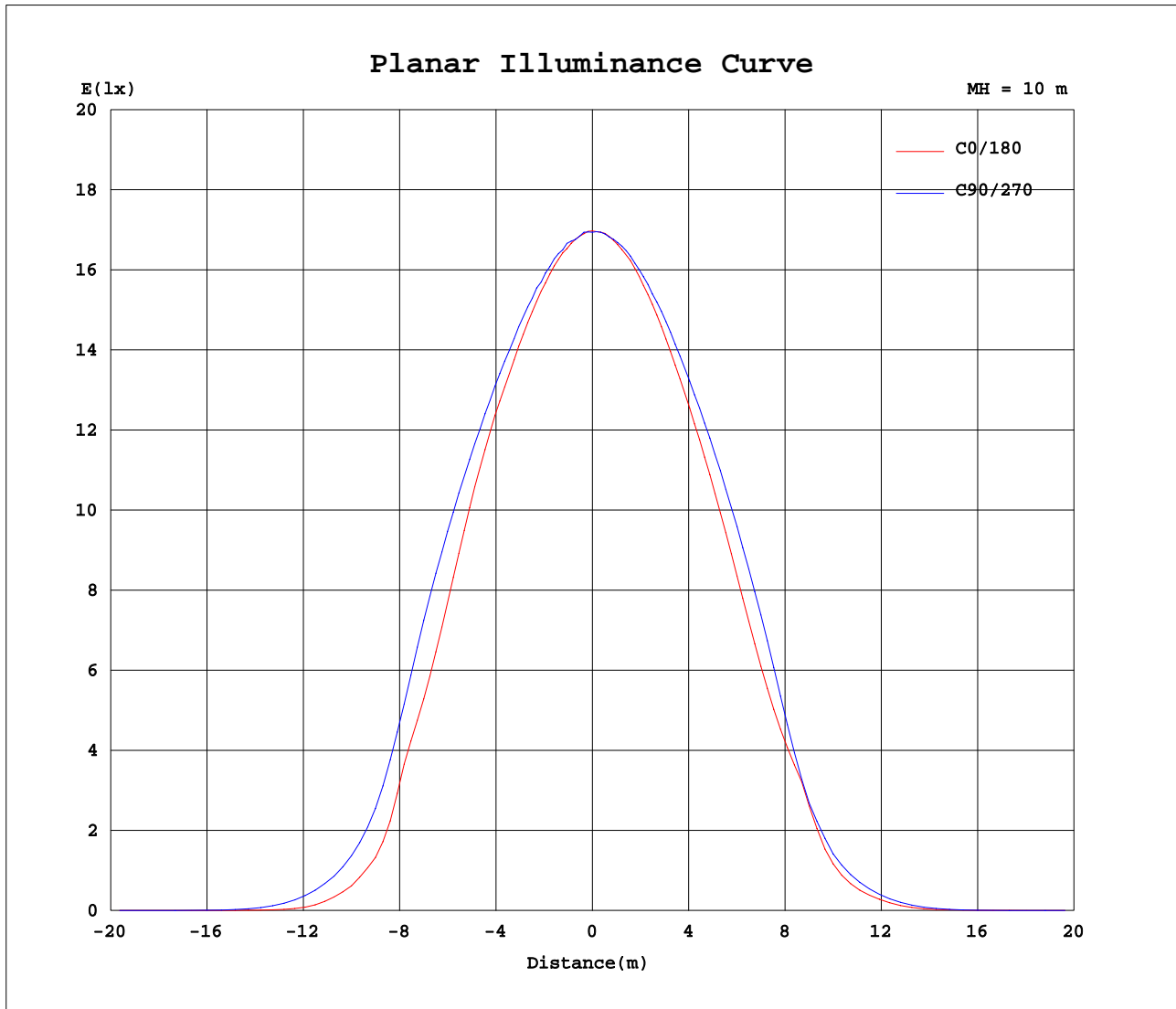
AvgL	cd/m2
L_0~180(65)av	67
L_0~180(75)av	84
L_0~180(85)av	263
L_90~270(65)av	52
L_90~270(75)av	42
L_90~270(85)av	89
L_45(65)av	132
L_45(75)av	45
L_45(85)av	153

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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: 2025-09-29

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:

```