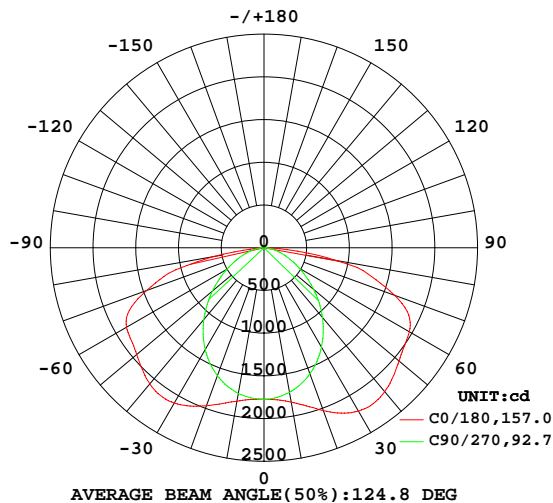


LUMINAIRE PHOTOMETRIC TEST REPORT

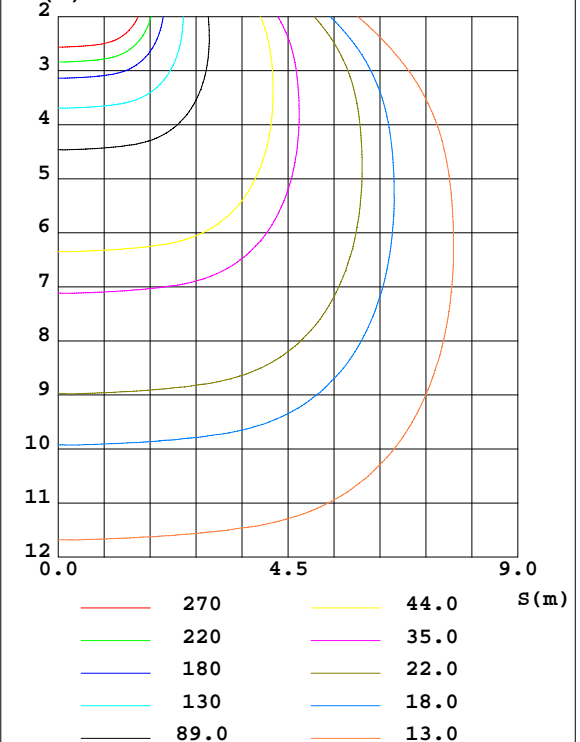
Test:U:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.39 lm/W			
MODEL		Imax(cd)	2230	S/MH(C0/180)	1.74
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	7424.8	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	7424.76	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.55

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:2025-04-22

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:

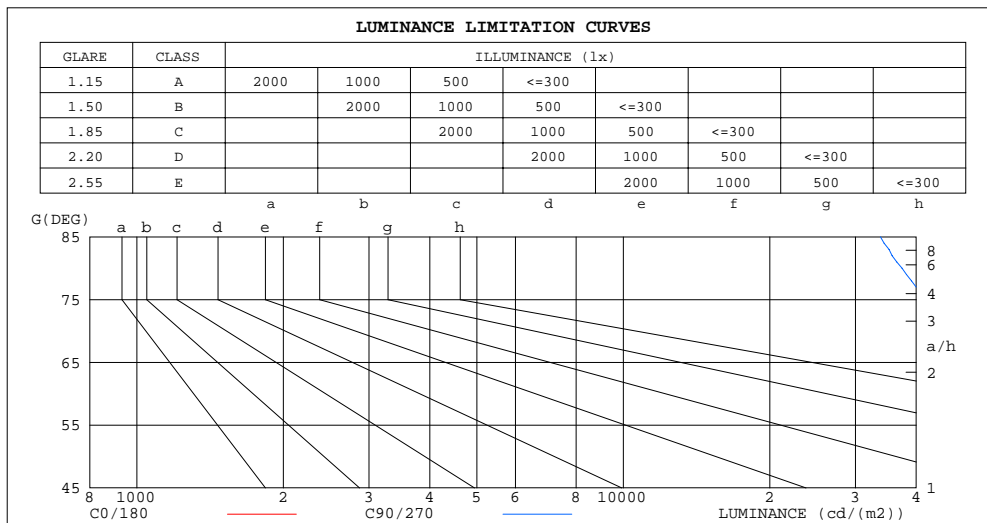
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1835	1777	1718	1766	1824	1777	1731	1781	0- 10	169.3	169.3	2.28,2.28
20	2027	1797	1571	1766	1968	1795	1594	1803	10- 20	505.4	674.7	9.09,9.09
30	2209	1839	1345	1765	2098	1813	1376	1843	20- 30	828.7	1503	20.2,20.2
40	2199	1841	1065	1731	2080	1792	1096	1854	30- 40	1095	2599	35,35
50	2064	1735	760.2	1615	1945	1685	787.8	1760	40- 50	1244	3842	51.8,51.8
60	1965	1513	476.9	1390	1858	1463	498.5	1545	50- 60	1261	5104	68.7,68.7
70	1626	1230	256.8	1104	1462	1189	270.4	1264	60- 70	1168	6272	84.5,84.5
80	847.2	871.5	103.9	763.0	608.7	823.1	111.1	904.4	70- 80	870.4	7142	96.2,96.2
90	26.28	64.94	5.258	7.088	10.85	9.124	7.122	69.91	80- 90	282.8	7425	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:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	199203	33775
80	304930	37402
75	314955	41726
70	297062	46921
65	276657	53083
60	245586	59608
55	218553	66646
50	200707	73918
45	188751	80802

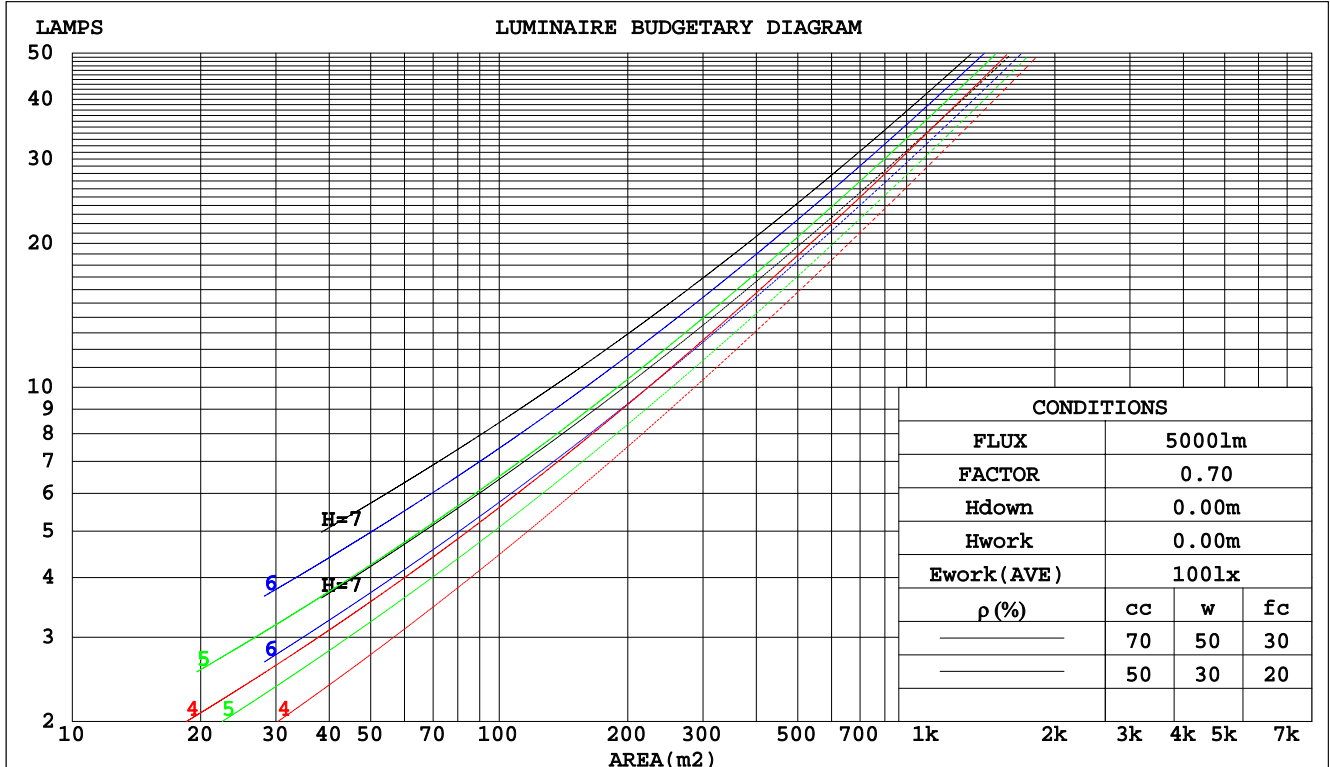
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	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	1.01	.96	.91	.99	.94	.90	.94	.90	.87	.90	.87	.84	.87	.84	.82	.79
2.0	.86	.78	.71	.84	.77	.71	.80	.74	.69	.77	.72	.67	.74	.70	.66	.63
3.0	.74	.65	.58	.73	.64	.57	.69	.62	.56	.67	.60	.55	.64	.59	.54	.52
4.0	.65	.55	.48	.63	.54	.47	.61	.53	.47	.58	.51	.46	.56	.50	.45	.43
5.0	.57	.47	.40	.56	.47	.40	.54	.46	.39	.52	.45	.39	.50	.44	.39	.36
6.0	.51	.41	.34	.50	.41	.34	.48	.40	.34	.47	.39	.34	.45	.38	.33	.31
7.0	.46	.37	.30	.45	.36	.30	.44	.36	.30	.42	.35	.29	.41	.34	.29	.27
8.0	.42	.33	.26	.41	.32	.26	.40	.32	.26	.38	.31	.26	.37	.31	.26	.24
9.0	.38	.29	.24	.38	.29	.23	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10.0	.35	.27	.21	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.: 1203*52*31		SERIAL No.:	
MFR.:		SUR.:0.8*0.02		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	.366	.208	.066	.359	.205	.065	.345	.198	.063	.333	.192	.062	.322	.186	.060	
2.0	.334	.183	.056	.328	.181	.056	.316	.176	.055	.305	.171	.054	.294	.167	.053	
3.0	.303	.161	.048	.297	.159	.048	.287	.155	.047	.277	.152	.046	.267	.148	.046	
4.0	.275	.143	.042	.270	.141	.042	.261	.138	.041	.252	.135	.041	.243	.132	.040	
5.0	.251	.128	.037	.247	.127	.037	.238	.124	.037	.230	.122	.036	.223	.119	.036	
6.0	.231	.116	.033	.227	.114	.033	.219	.112	.033	.212	.110	.032	.205	.108	.032	
7.0	.213	.105	.030	.209	.104	.030	.203	.102	.030	.196	.101	.029	.190	.099	.029	
8.0	.198	.097	.027	.194	.096	.027	.188	.094	.027	.183	.093	.027	.177	.091	.027	
9.0	.184	.089	.025	.181	.088	.025	.176	.087	.025	.171	.086	.025	.166	.084	.024	
10.0	.172	.083	.023	.170	.082	.023	.165	.081	.023	.160	.080	.023	.156	.078	.023	

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	.184	.156	.130	.158	.134	.112	.108	.092	.077	.062	.053	.045	.020	.017	.015	
2.0	.178	.132	.093	.152	.113	.080	.104	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.171	.115	.070	.146	.099	.060	.101	.069	.042	.058	.040	.025	.019	.013	.008	
4.0	.163	.102	.054	.140	.088	.047	.096	.061	.033	.056	.036	.020	.018	.012	.006	
5.0	.156	.091	.044	.134	.079	.038	.092	.055	.027	.053	.032	.016	.017	.011	.005	
6.0	.148	.083	.037	.127	.072	.032	.088	.050	.023	.051	.030	.013	.016	.010	.004	
7.0	.141	.076	.031	.121	.066	.027	.084	.046	.019	.049	.027	.011	.016	.009	.004	
8.0	.134	.071	.027	.115	.061	.024	.080	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.066	.024	.110	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.061	.021	.105	.053	.019	.073	.037	.013	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1203*52*31			SERIAL No.:			
MFR.:					SUR.:0.8*0.02			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		32.9	34.6	33.2	34.8	35.0	27.7	29.4	28.0	29.6	29.8
3H		35.7	37.2	36.0	37.5	37.7	28.6	30.2	28.9	30.4	30.6
4H		36.9	38.4	37.2	38.6	38.9	28.9	30.4	29.3	30.7	30.9
6H		37.9	39.3	38.2	39.6	39.9	29.2	30.6	29.5	30.8	31.1
8H		38.2	39.5	38.5	39.8	40.1	29.2	30.6	29.6	30.9	31.2
12H		38.3	39.6	38.7	39.9	40.2	29.2	30.5	29.6	30.9	31.2
4H 2H		33.5	34.9	33.8	35.2	35.5	30.1	31.6	30.4	31.8	32.1
3H		36.5	37.8	36.9	38.1	38.4	31.3	32.6	31.7	32.9	33.2
4H		37.9	39.1	38.3	39.5	39.8	31.7	33.0	32.1	33.3	33.6
6H		39.1	40.2	39.5	40.6	40.9	32.0	33.1	32.4	33.5	33.8
8H		39.5	40.5	39.9	40.9	41.3	32.1	33.1	32.5	33.5	33.9
12H		39.7	40.6	40.1	41.0	41.4	32.1	33.1	32.6	33.5	33.9
8H 4H		38.2	39.2	38.7	39.6	40.0	33.7	34.7	34.1	35.1	35.4
6H		39.7	40.5	40.1	41.0	41.4	34.3	35.2	34.8	35.6	36.0
8H		40.2	41.0	40.7	41.4	41.8	34.5	35.3	35.0	35.7	36.1
12H		40.5	41.2	41.0	41.6	42.1	34.6	35.3	35.1	35.7	36.2
12H 4H		38.2	39.2	38.7	39.6	40.0	34.1	35.0	34.5	35.4	35.8
6H		39.8	40.6	40.3	41.0	41.4	35.1	35.8	35.5	36.3	36.7
8H		40.4	41.0	40.9	41.5	42.0	35.4	36.1	35.9	36.5	37.0
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1				+ 0.1 / - 0.2					
1.5H		+ 0.1 / - 0.2				+ 0.2 / - 0.3					
2.0H		+ 0.1 / - 0.3				+ 0.4 / - 0.5					

CIE Pub.117, 7425 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.0$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:

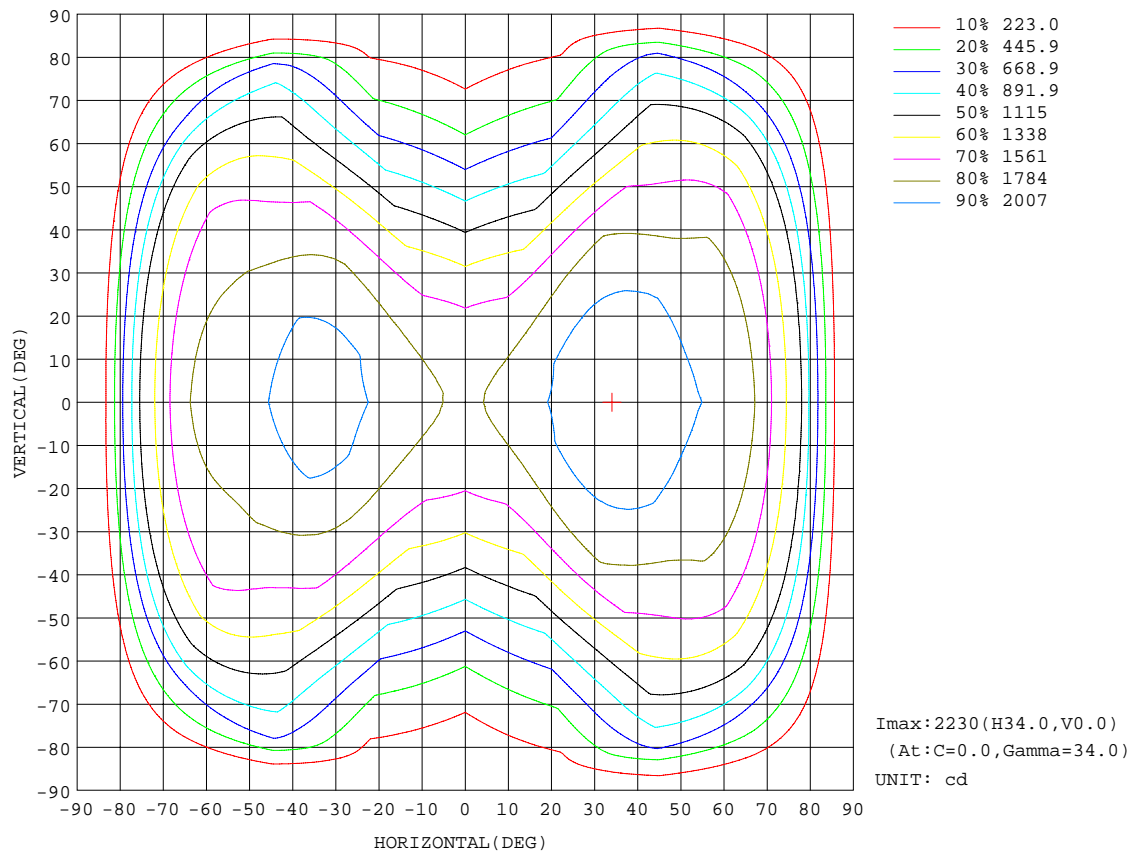
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	32	52	40	32	50	39	32	25
0.80	62	49	41	61	49	41	59	48	41	33
1.00	70	58	50	69	57	49	67	59	49	41
1.25	78	66	58	76	65	57	73	64	56	48
1.50	83	72	64	81	71	63	78	69	62	54
2.00	91	81	73	89	79	72	85	77	71	62
2.50	95	86	79	93	85	78	89	82	76	67
3.00	99	91	84	97	89	83	92	86	81	72
4.00	104	97	91	101	95	90	97	92	87	78
5.00	106	101	96	104	99	94	99	95	91	82
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:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:

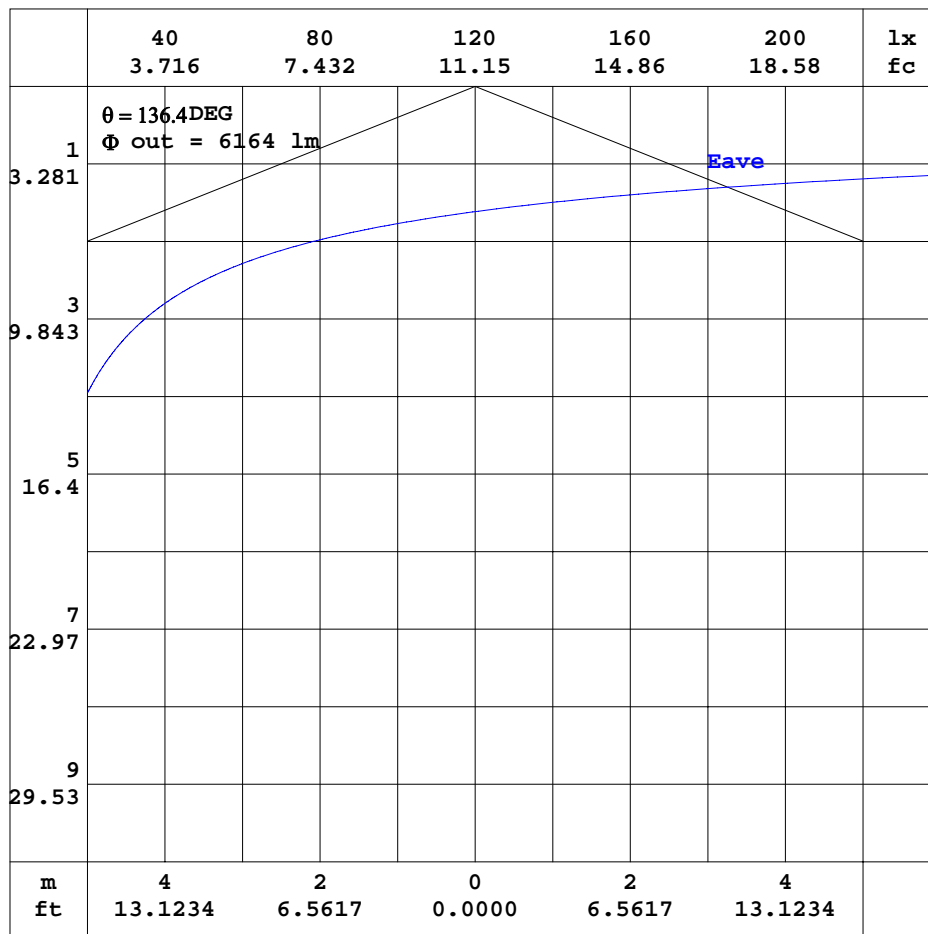


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:



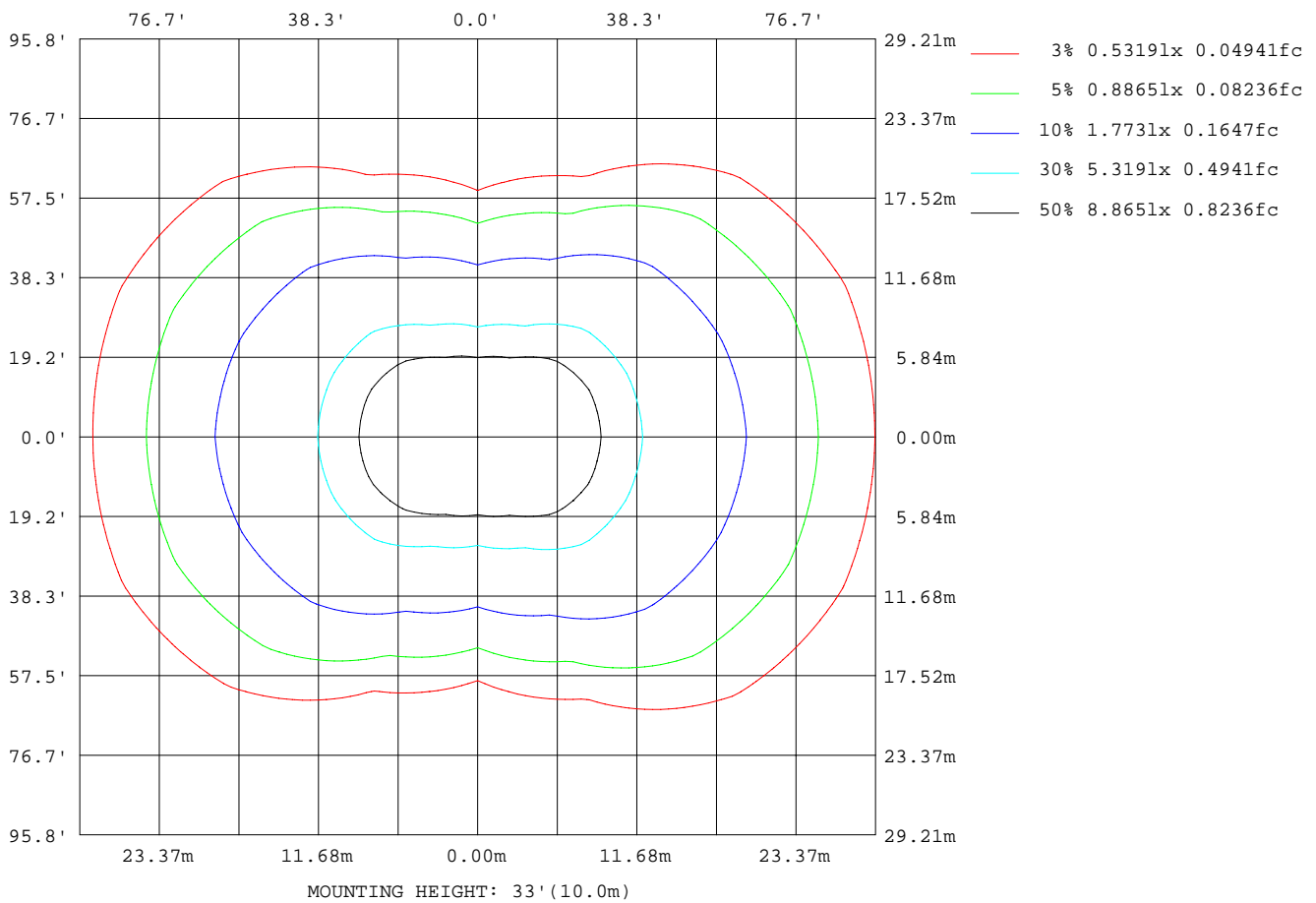
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-04-22

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:229.81V I:0.3538A P:79.506W PF:0.9778 Freq:49.99Hz Lamp Flux:7424.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.:	SUR.:0.8*0.02	Shielding Angle:

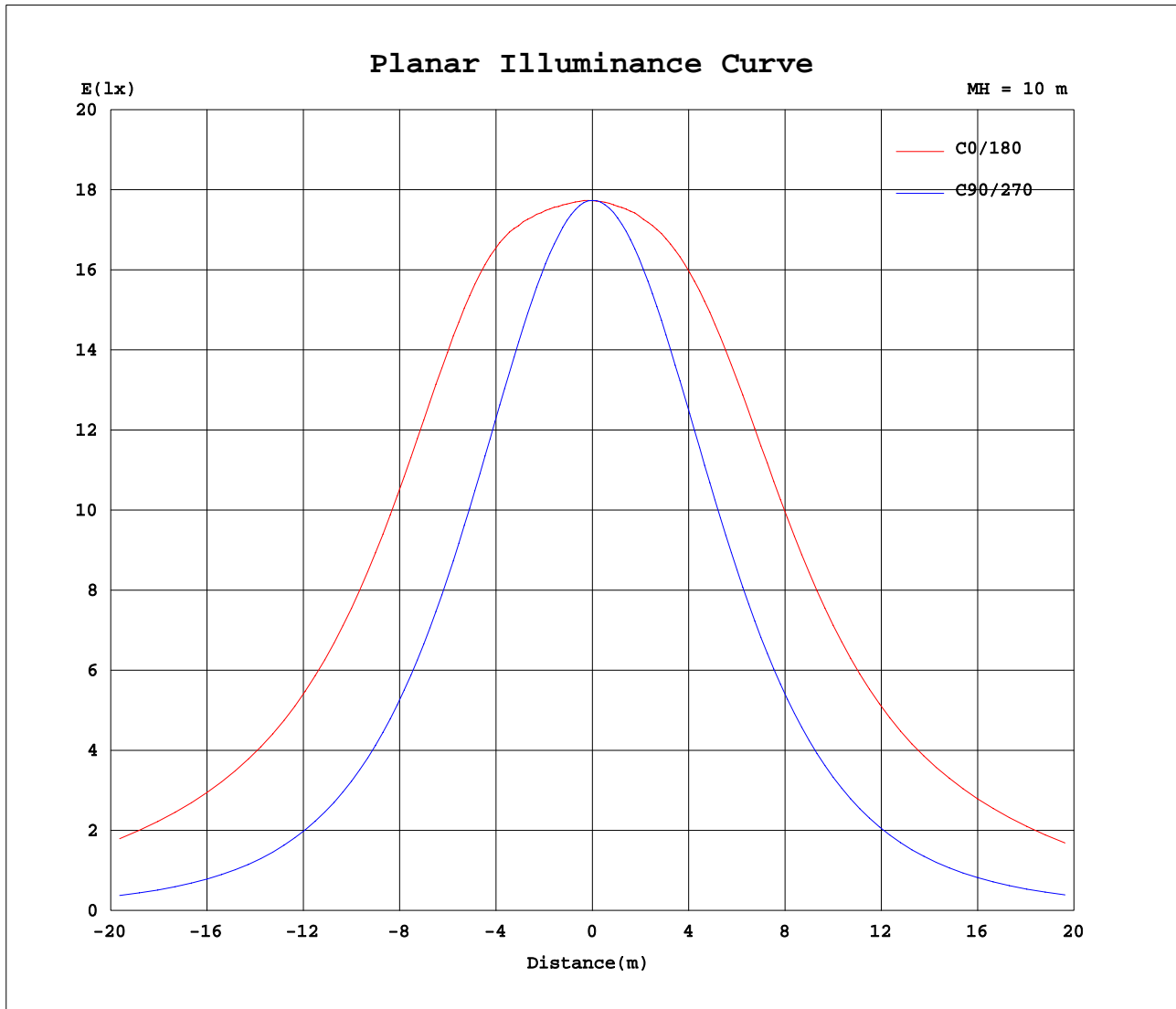
AvgL	cd/m2
L_0~180(65)av	267110
L_0~180(75)av	297408
L_0~180(85)av	136793
L_90~270(65)av	54246
L_90~270(75)av	43033
L_90~270(85)av	35452
L_45(65)av	198152
L_45(75)av	252597
L_45(85)av	270377

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-04-22

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: 2025-04-22

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:

```