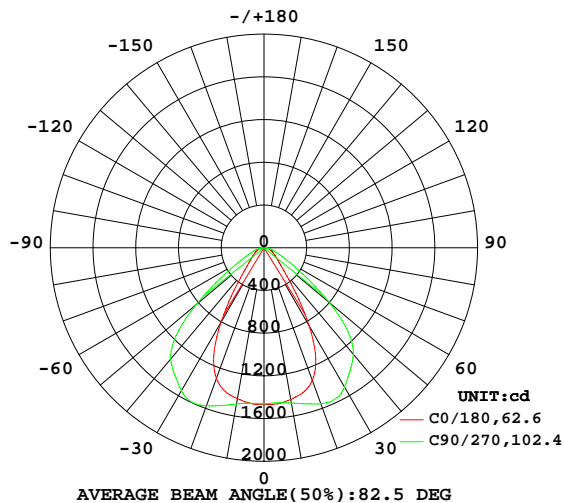


LUMINAIRE PHOTOMETRIC TEST REPORT

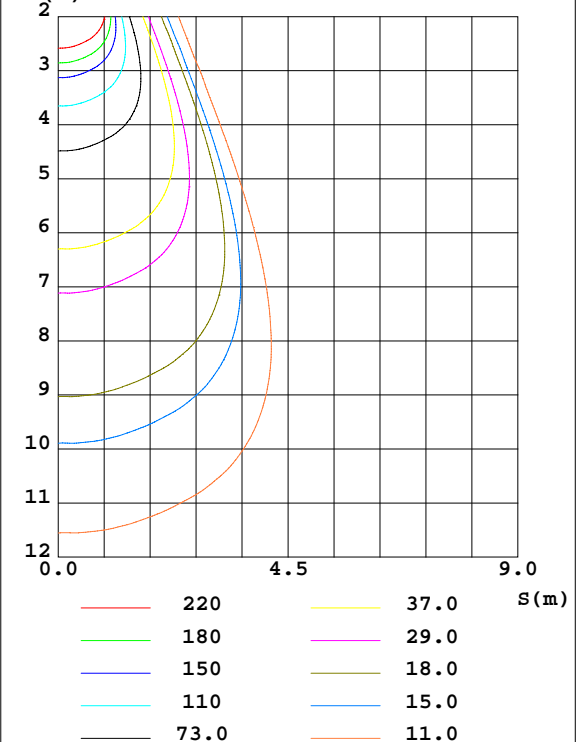
Test:U:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 17.96 lm/W			
MODEL		Imax(cd)	1597	S/MH(C0/180)	0.91
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.47
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2748.3	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	2748.29	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.15

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:2025-08-07

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:

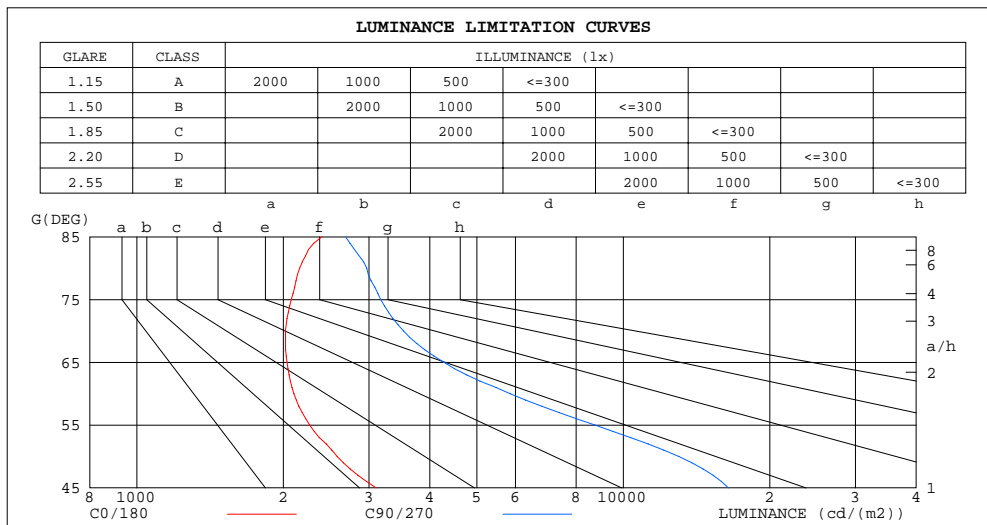
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1442	1464	1477	1453	1436	1468	1487	1463	0- 10	139.5	139.5	5.08,5.08
20	1322	1447	1555	1434	1303	1450	1575	1459	10- 20	413.0	552.5	20.1,20.1
30	849.2	1318	1508	1262	804.3	1310	1547	1311	20- 30	630.6	1183	43,43
40	313.8	815.1	1302	758.0	295.4	790.9	1359	815.9	30- 40	638.3	1821	66.3,66.3
50	159.3	311.0	801.9	292.2	155.2	295.7	831.1	308.9	40- 50	474.6	2296	83.5,83.5
60	101.0	134.9	280.7	131.4	99.08	130.1	282.4	134.9	50- 60	245.0	2541	92.5,92.5
70	66.33	77.91	116.0	75.95	65.15	75.72	115.8	77.47	60- 70	118.6	2660	96.8,96.8
80	36.03	39.47	49.48	37.99	34.72	38.21	49.69	39.37	70- 80	65.28	2725	99.1,99.1
90	3.703	3.857	3.883	3.136	2.337	2.947	4.682	4.038	80- 90	23.40	2748	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:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2399	2686
80	2161	2968
75	2076	3171
70	2020	3534
65	2036	4279
60	2104	5847
55	2267	8743
50	2581	12996
45	3104	16441

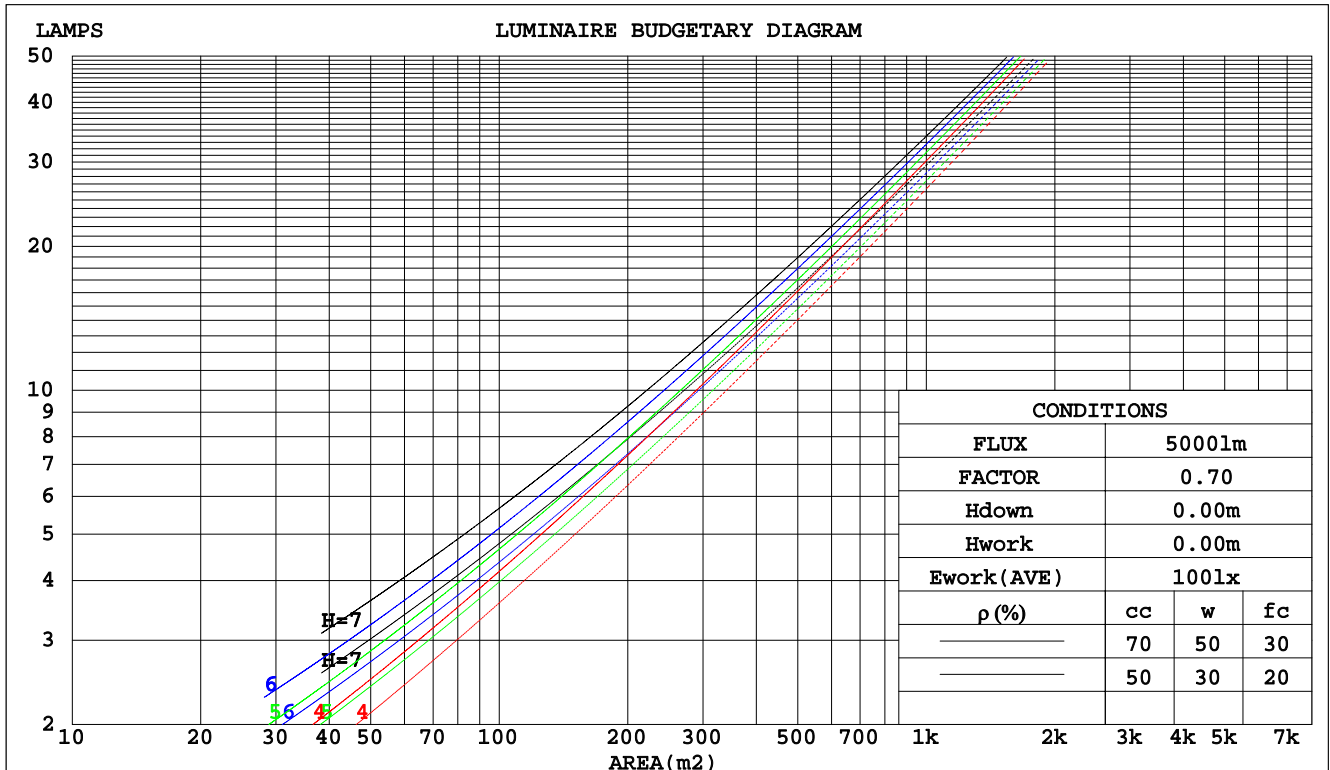
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.91	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.78
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.71	.70
4.0	.80	.72	.67	.78	.72	.66	.76	.70	.65	.74	.69	.65	.72	.67	.64	.62
5.0	.73	.65	.59	.71	.64	.59	.69	.63	.58	.68	.62	.58	.66	.61	.57	.56
6.0	.66	.59	.53	.66	.58	.53	.64	.57	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.61	.53	.48	.60	.53	.48	.59	.52	.48	.57	.52	.47	.56	.51	.47	.45
8.0	.56	.49	.44	.56	.49	.44	.54	.48	.43	.53	.47	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.38
10.0	.49	.41	.37	.48	.41	.37	.47	.41	.36	.46	.40	.36	.45	.40	.36	.35



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 1282*160*28			SERIAL No.:		
MFR.:			SUR.:0.8*0.12			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	.240	.136	.043	.233	.133	.042	.220	.126	.040	.208	.120	.039	.197	.114	.037	
2.0	.230	.126	.039	.224	.123	.038	.213	.118	.037	.202	.114	.036	.193	.109	.034	
3.0	.217	.116	.035	.212	.113	.034	.202	.110	.033	.193	.106	.032	.185	.102	.032	
4.0	.205	.106	.031	.200	.105	.031	.191	.102	.030	.184	.099	.030	.176	.096	.029	
5.0	.193	.098	.028	.189	.097	.028	.181	.094	.028	.174	.092	.027	.168	.090	.027	
6.0	.182	.091	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	.159	.084	.025	
7.0	.172	.085	.024	.168	.084	.024	.162	.082	.024	.157	.080	.023	.152	.079	.023	
8.0	.162	.079	.022	.160	.079	.022	.154	.077	.022	.149	.076	.022	.144	.074	.022	
9.0	.154	.074	.021	.151	.074	.021	.147	.072	.021	.142	.071	.020	.138	.070	.020	
10.0	.146	.070	.019	.144	.069	.019	.140	.068	.019	.135	.067	.019	.132	.066	.019	

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	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.138	.089	.053	.119	.077	.046	.082	.054	.032	.047	.032	.019	.015	.010	.006	
6.0	.131	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.073	.037	.108	.064	.032	.074	.045	.023	.043	.026	.014	.014	.009	.004	
8.0	.119	.067	.032	.103	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.022	.010	.013	.007	.003	
10.0	.109	.058	.024	.094	.050	.021	.065	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1282*160*28			SERIAL No.:			
MFR.:					SUR.:0.8*0.12			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	2H	14.1	15.4	14.4	15.6	15.8	20.3	21.6	20.6	21.8	22.0
	3H	14.7	15.9	15.0	16.1	16.3	20.6	21.7	20.9	22.0	22.2
	4H	15.1	16.2	15.4	16.5	16.7	20.7	21.8	21.0	22.0	22.3
	6H	15.5	16.5	15.8	16.8	17.0	20.8	21.8	21.1	22.1	22.3
	8H	15.6	16.6	16.0	16.9	17.2	20.8	21.8	21.1	22.1	22.3
	12H	15.8	16.7	16.1	17.0	17.3	20.8	21.8	21.2	22.0	22.3
4H	2H	14.7	15.8	15.0	16.0	16.2	20.2	21.3	20.5	21.5	21.7
	3H	15.5	16.4	15.8	16.7	17.0	20.5	21.5	20.9	21.8	22.0
	4H	16.0	16.8	16.3	17.1	17.4	20.7	21.6	21.1	21.9	22.2
	6H	16.5	17.2	16.8	17.6	17.9	20.9	21.7	21.3	22.0	22.4
	8H	16.7	17.4	17.1	17.7	18.1	21.0	21.7	21.4	22.1	22.4
	12H	16.9	17.5	17.3	17.9	18.3	21.1	21.7	21.5	22.1	22.5
8H	4H	16.2	16.9	16.6	17.3	17.7	20.7	21.4	21.1	21.8	22.1
	6H	16.9	17.5	17.3	17.9	18.3	21.0	21.6	21.4	22.0	22.4
	8H	17.2	17.7	17.7	18.2	18.6	21.1	21.6	21.6	22.1	22.5
	12H	17.5	18.0	18.0	18.4	18.9	21.2	21.7	21.7	22.1	22.6
12H	4H	16.3	16.9	16.7	17.3	17.7	20.7	21.3	21.1	21.7	22.1
	6H	17.0	17.5	17.4	17.9	18.4	21.0	21.5	21.4	21.9	22.4
	8H	17.4	17.8	17.8	18.2	18.7	21.1	21.6	21.6	22.0	22.5
Variations with the observer position at spacings:											
S = 1.0H		+ 0.9 / - 0.8					+ 0.8 / - 1.0				
1.5H		+ 1.0 / - 0.8					+ 1.3 / - 2.4				
2.0H		+ 0.6 / - 0.6					+ 3.1 / - 3.2				

CIE Pub.117, 2748 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.5$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

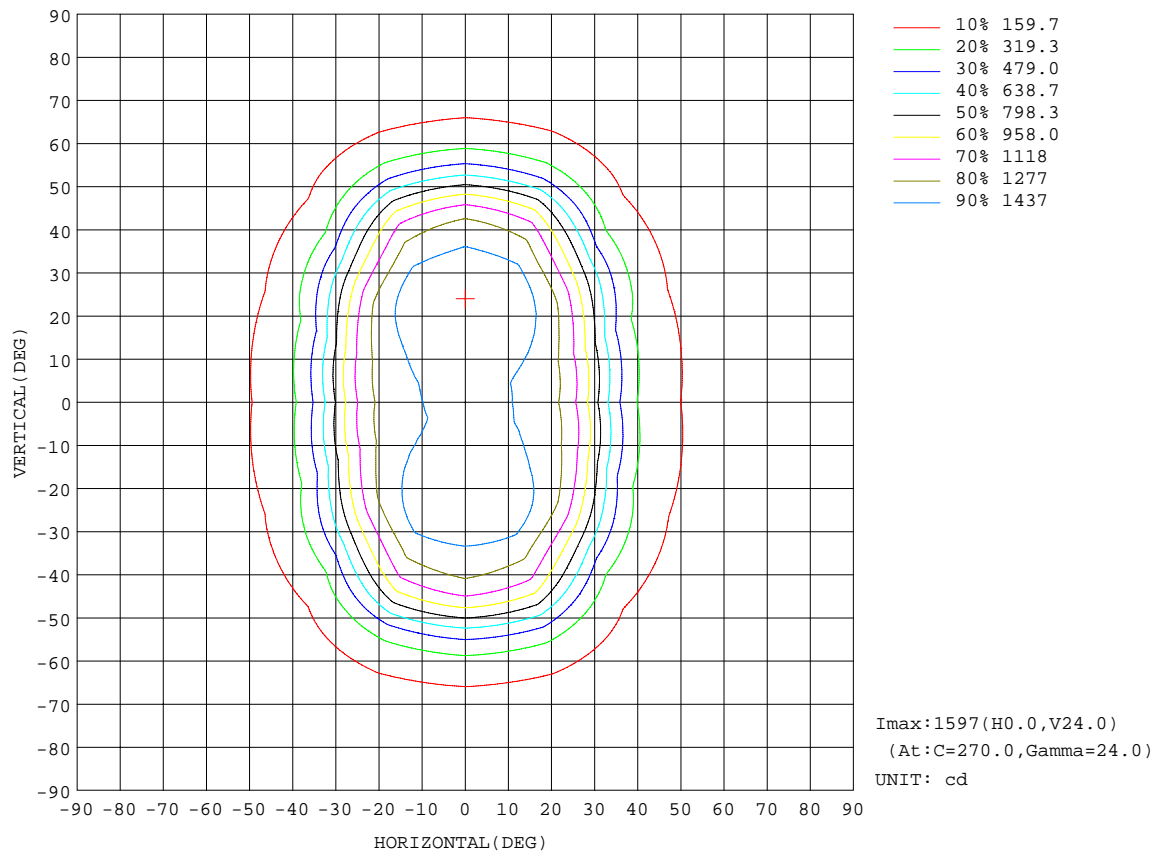
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	70	61	55	69	60	55	50
0.80	80	71	65	79	70	65	77	70	65	59
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	93	89	82
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	101	92
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:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

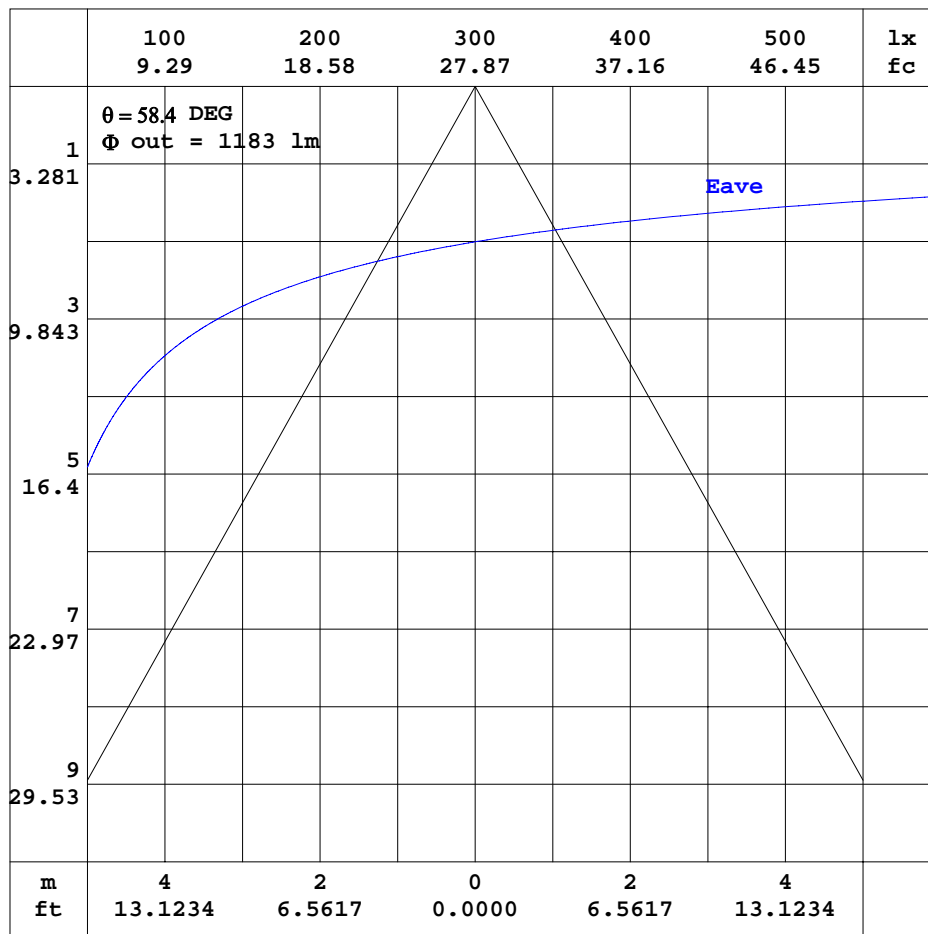


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



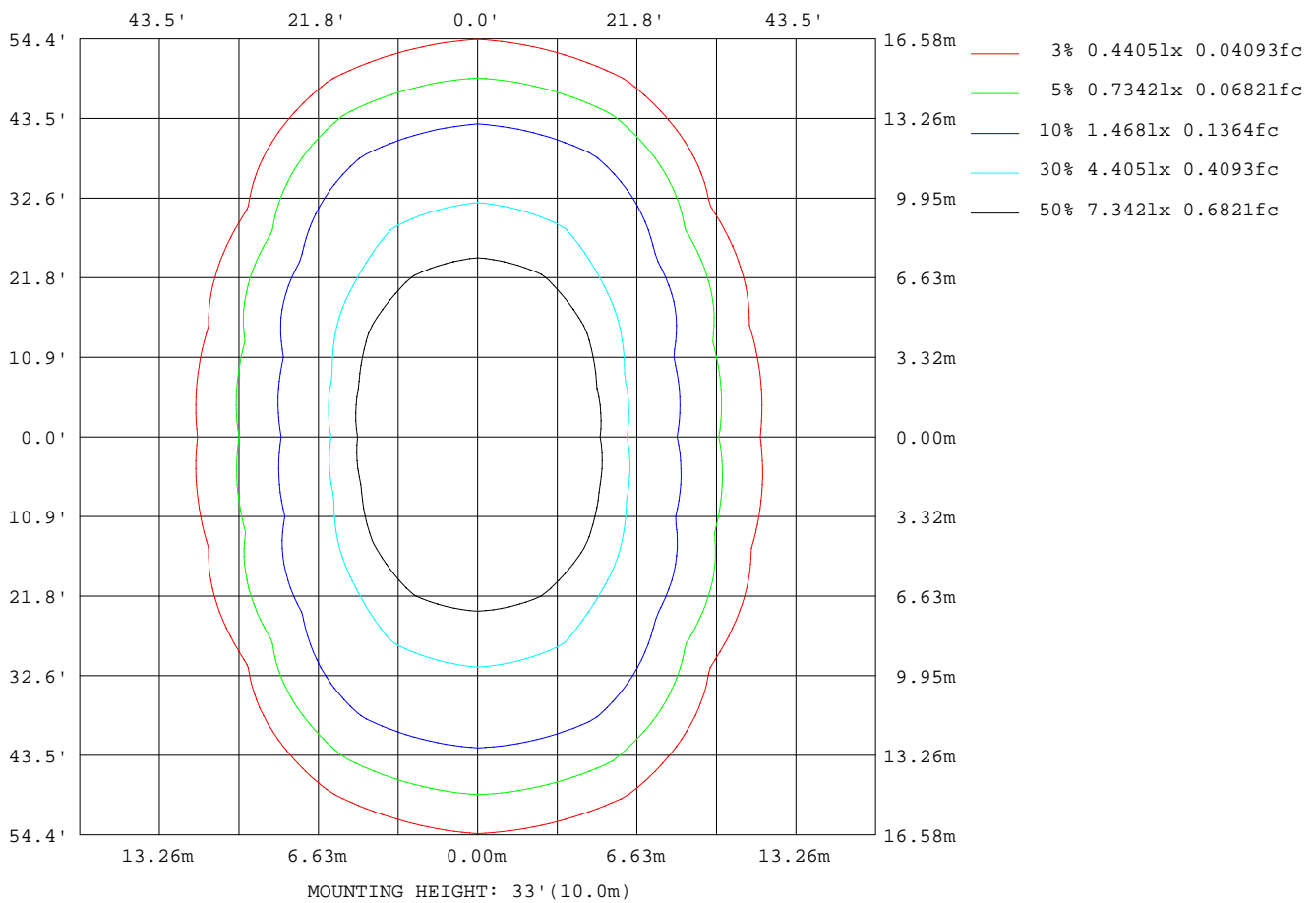
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-07

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:229.59V I:0.6800A P:152.98W PF:0.9799 Freq:49.99Hz Lamp Flux:2748.29x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

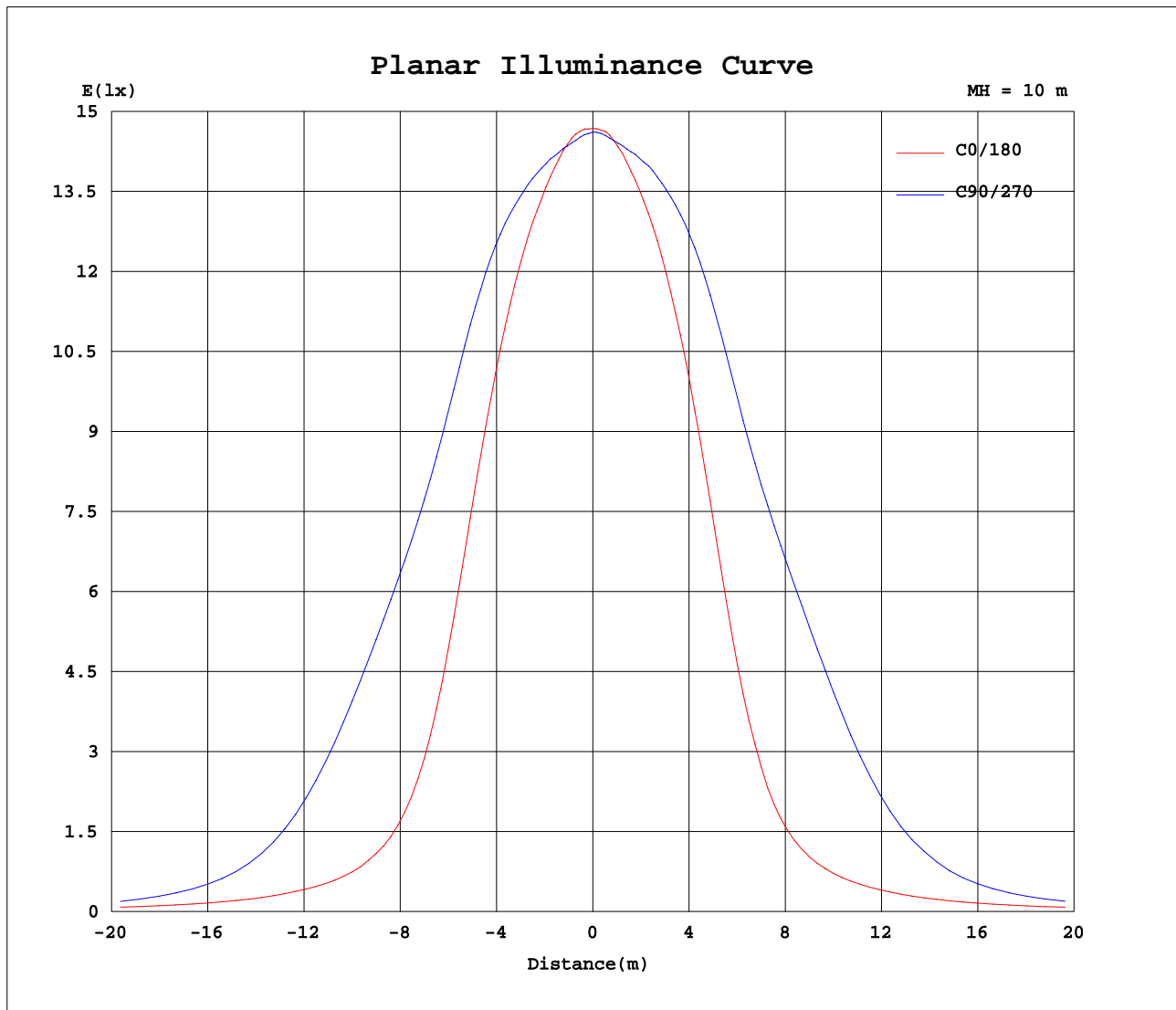
AvgL	cd/m2
L_0~180(65)av	2018
L_0~180(75)av	2052
L_0~180(85)av	2303
L_90~270(65)av	4282
L_90~270(75)av	3173
L_90~270(85)av	2741
L_45(65)av	2463
L_45(75)av	2301
L_45(85)av	2448

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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: 2025-08-07

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:

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