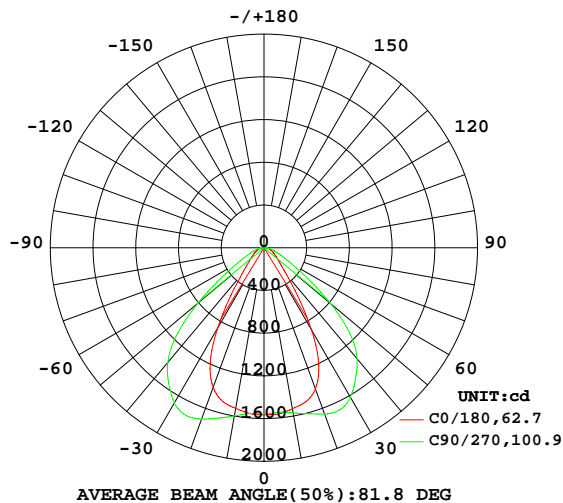


LUMINAIRE PHOTOMETRIC TEST REPORT

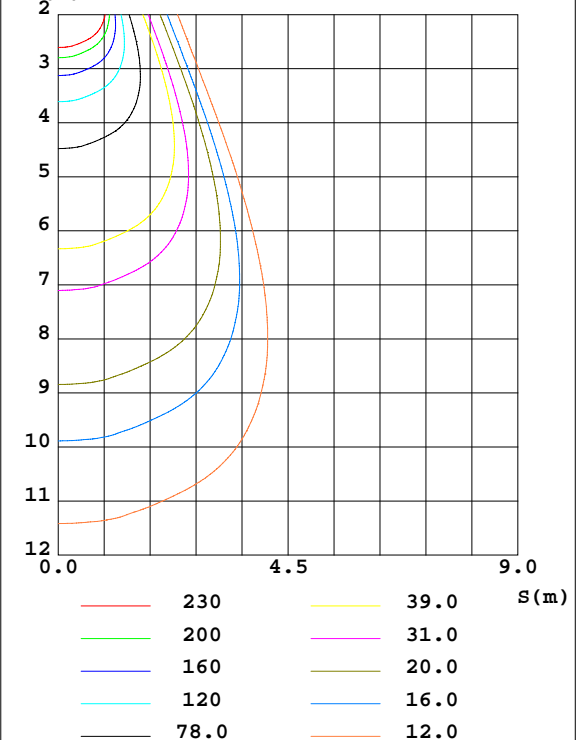
Test:U:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 15.11 lm/W			
MODEL		Imax(cd)	1733	S/MH(C0/180)	0.92
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.44
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2918.3	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	2918.27	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
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:2025-08-06

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:

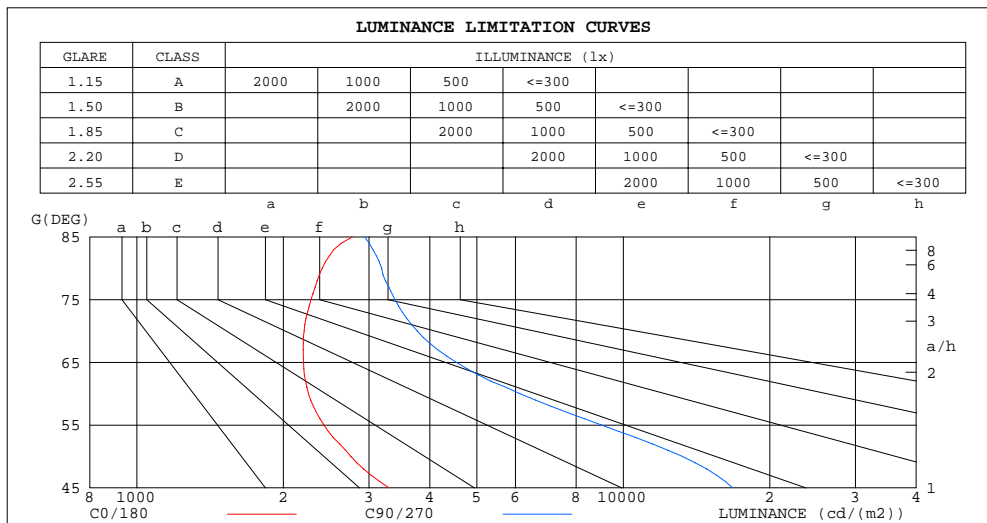
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1531	1548	1569	1539	1527	1568	1599	1563	0- 10	148.4	148.4	5.08,5.08
20	1408	1528	1657	1525	1392	1562	1707	1578	10- 20	441.0	589.3	20.2,20.2
30	894.3	1387	1618	1359	868.8	1418	1678	1433	20- 30	675.5	1265	43.3,43.3
40	331.9	840.6	1357	846.4	321.8	849.1	1402	910.6	30- 40	683.8	1949	66.8,66.8
50	170.0	318.9	816.0	328.7	168.0	313.3	806.8	342.7	40- 50	494.6	2443	83.7,83.7
60	108.1	141.3	294.3	145.0	107.2	138.7	280.6	147.4	50- 60	252.8	2696	92.4,92.4
70	72.46	83.49	123.8	84.14	70.74	81.90	119.8	84.66	60- 70	125.7	2822	96.7,96.7
80	40.07	42.63	53.09	42.40	38.02	41.86	52.79	43.24	70- 80	70.65	2892	99.1,99.1
90	6.194	4.485	4.381	4.089	2.887	4.304	4.682	5.644	80- 90	25.88	2918	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:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 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	2775	2939
80	2404	3185
75	2281	3392
70	2207	3769
65	2201	4537
60	2253	6131
55	2424	9025
50	2754	13223
45	3300	16795

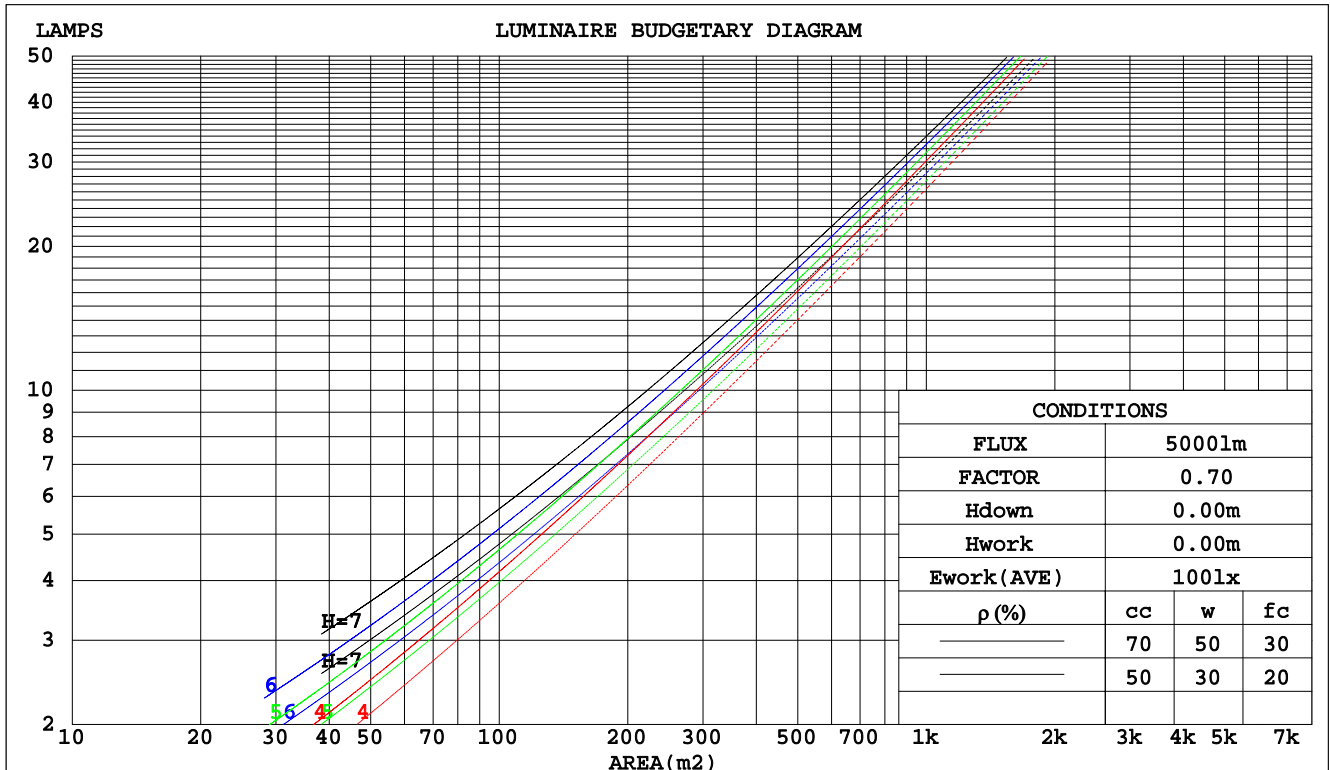
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 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	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.72	.70
4.0	.80	.72	.67	.78	.72	.66	.76	.70	.66	.74	.69	.65	.72	.68	.64	.62
5.0	.73	.65	.59	.72	.64	.59	.70	.63	.59	.68	.62	.58	.66	.61	.57	.56
6.0	.67	.59	.53	.66	.58	.53	.64	.58	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.61	.54	.48	.60	.53	.48	.59	.53	.48	.58	.52	.47	.56	.51	.47	.45
8.0	.56	.49	.44	.56	.49	.44	.55	.48	.44	.53	.48	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.40	.38
10.0	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.37	.46	.40	.36	.35



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 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	.229	.126	.039	.224	.123	.038	.212	.118	.037	.202	.113	.035	.193	.109	.034		
3.0	.217	.115	.035	.212	.113	.034	.202	.109	.033	.193	.106	.032	.185	.102	.032		
4.0	.204	.106	.031	.200	.104	.031	.191	.101	.030	.183	.098	.030	.176	.096	.029		
5.0	.192	.098	.028	.188	.097	.028	.181	.094	.028	.174	.092	.027	.167	.089	.027		
6.0	.181	.091	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	.159	.084	.025		
7.0	.171	.085	.024	.168	.084	.024	.162	.082	.024	.157	.080	.023	.151	.079	.023		
8.0	.162	.079	.022	.159	.078	.022	.154	.077	.022	.149	.075	.022	.144	.074	.022		
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.020	.142	.071	.020	.137	.070	.020		
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.135	.067	.019	.131	.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	.063	.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:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 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	14.2	15.5	14.5	15.7	15.8	20.3	21.5	20.5	21.7	21.9
3H	14.9	16.0	15.2	16.3	16.5	20.5	21.7	20.8	21.9	22.1
4H	15.3	16.4	15.6	16.6	16.9	20.7	21.8	21.0	22.0	22.2
6H	15.7	16.7	16.0	17.0	17.3	20.8	21.8	21.1	22.0	22.3
8H	15.9	16.9	16.2	17.1	17.4	20.8	21.8	21.1	22.1	22.3
12H	16.0	17.0	16.4	17.3	17.6	20.8	21.8	21.2	22.0	22.3
4H 2H	14.7	15.8	15.0	16.1	16.3	20.1	21.2	20.4	21.4	21.7
3H	15.6	16.6	15.9	16.8	17.1	20.5	21.4	20.8	21.7	22.0
4H	16.1	17.0	16.5	17.3	17.6	20.7	21.6	21.1	21.9	22.2
6H	16.7	17.4	17.1	17.8	18.1	20.9	21.7	21.3	22.0	22.4
8H	16.9	17.6	17.3	18.0	18.4	21.0	21.7	21.4	22.1	22.5
12H	17.2	17.8	17.6	18.2	18.6	21.1	21.7	21.5	22.1	22.5
8H 4H	16.4	17.1	16.8	17.5	17.9	20.7	21.4	21.1	21.8	22.1
6H	17.1	17.7	17.6	18.1	18.5	21.0	21.6	21.4	22.0	22.4
8H	17.5	18.0	17.9	18.4	18.9	21.2	21.7	21.6	22.1	22.5
12H	17.8	18.3	18.3	18.7	19.2	21.3	21.7	21.8	22.2	22.6
12H 4H	16.5	17.1	16.9	17.5	17.9	20.7	21.3	21.1	21.7	22.1
6H	17.2	17.7	17.7	18.2	18.6	21.0	21.5	21.5	21.9	22.4
8H	17.6	18.1	18.1	18.5	19.0	21.2	21.6	21.7	22.1	22.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.8					+ 0.8 / - 1.0				
1.5H	+ 0.9 / - 0.7					+ 1.3 / - 2.3				
2.0H	+ 0.5 / - 0.5					+ 3.1 / - 3.0				

CIE Pub.117, 2918 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.7$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

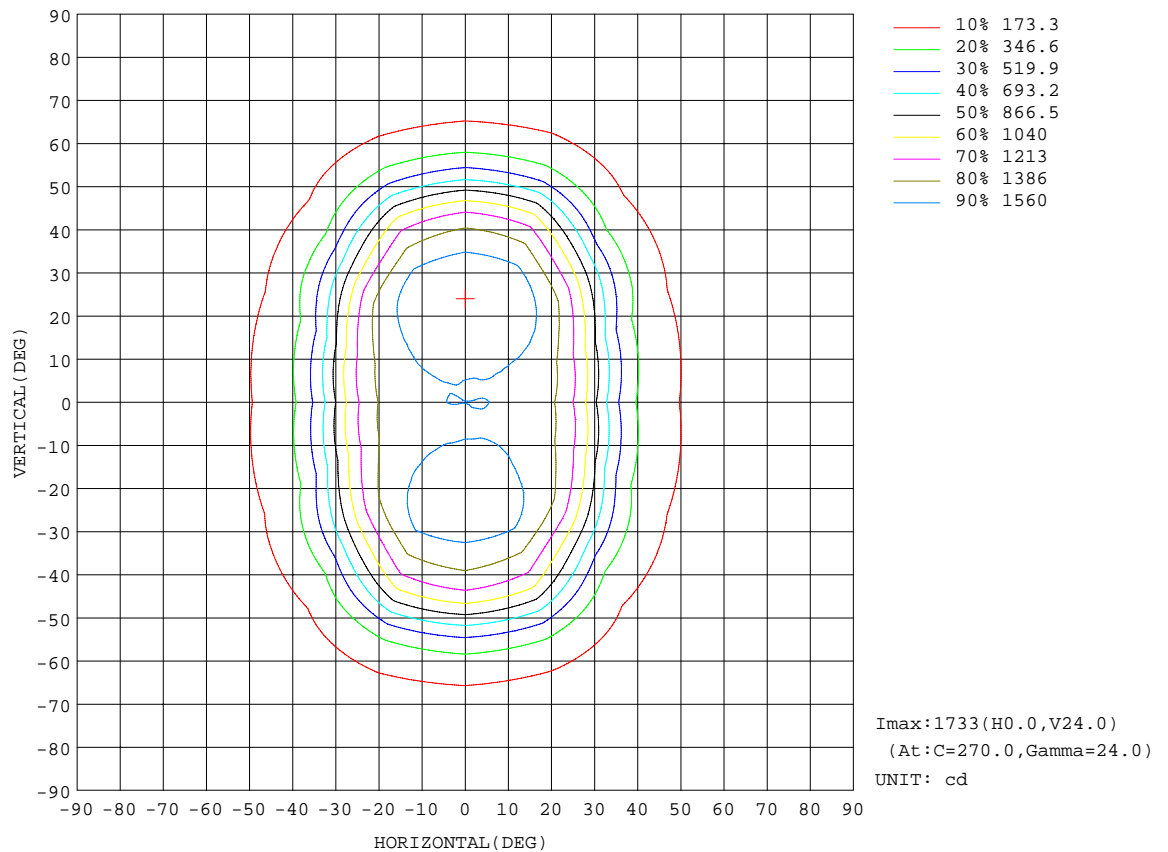
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	61	56	70	61	56	69	61	56	50
0.80	80	71	65	79	71	65	78	70	65	60
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	85	80	92	85	80	90	84	79	73
1.50	97	90	85	96	89	84	93	88	83	77
2.00	102	96	91	101	95	90	97	93	89	83
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
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:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

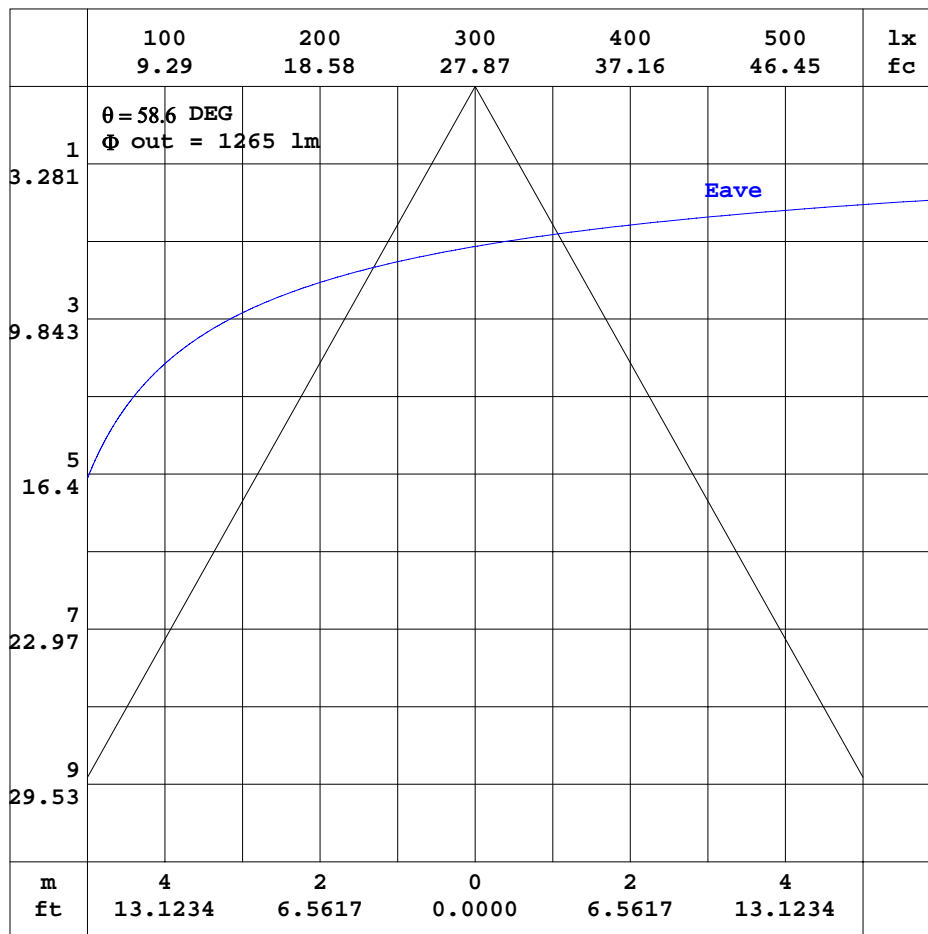


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



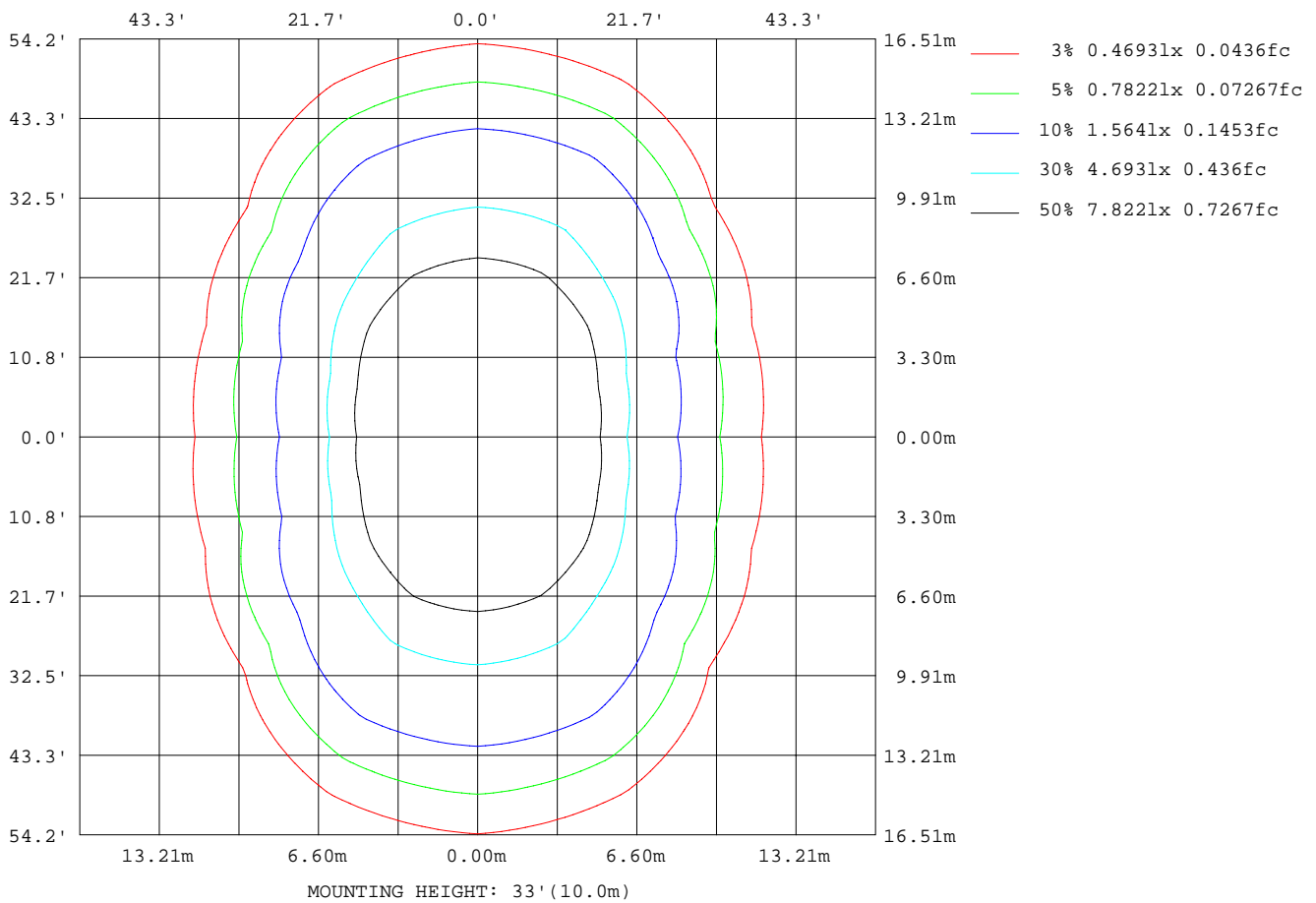
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 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: 2025-08-06

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:229.52V I:0.8523A P:193.09W PF:0.9870 Freq:49.99Hz Lamp Flux:2918.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

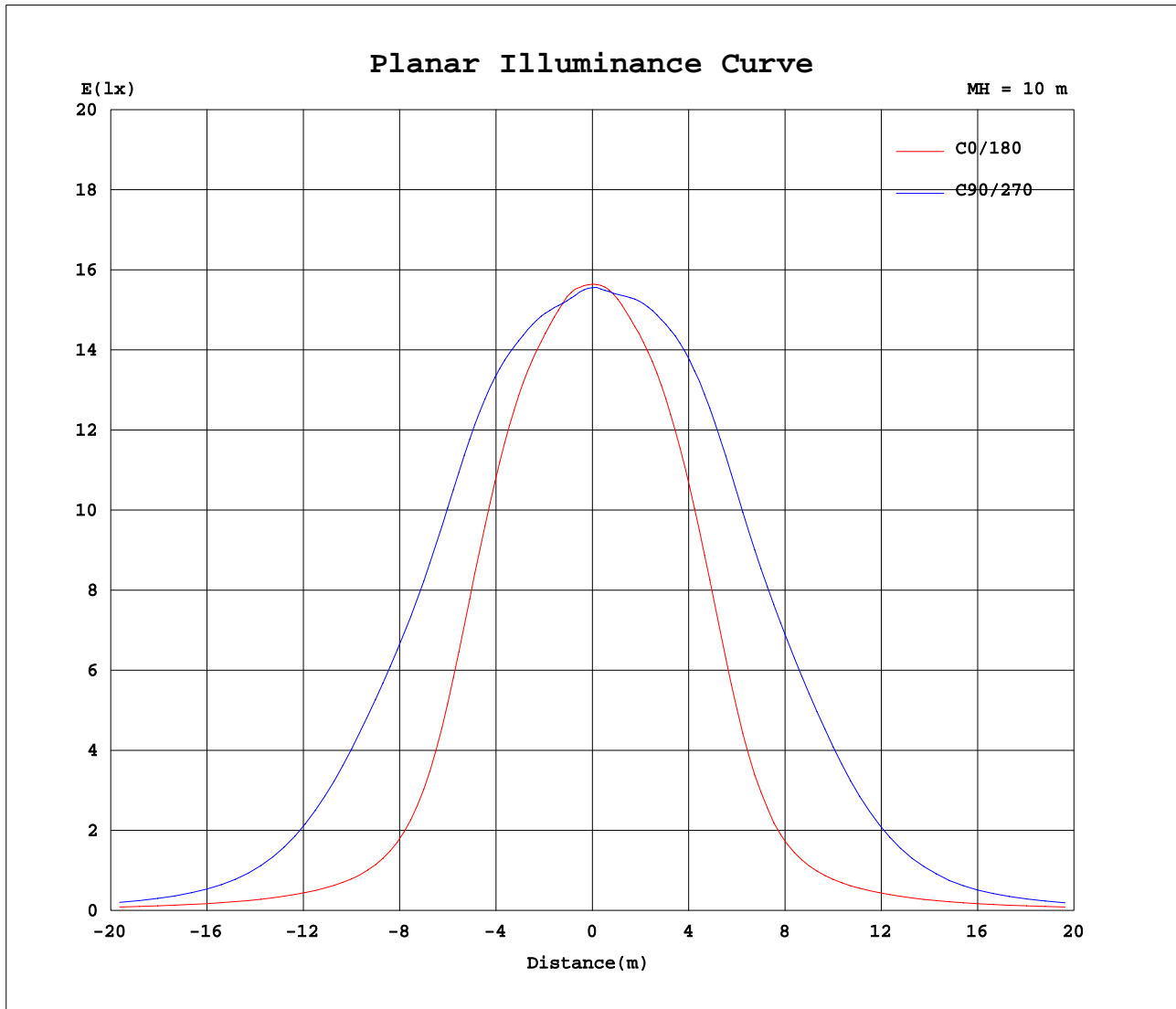
AvgL	cd/m2
L_0~180(65)av	2184
L_0~180(75)av	2245
L_0~180(85)av	2612
L_90~270(65)av	4442
L_90~270(75)av	3368
L_90~270(85)av	2974
L_45(65)av	2666
L_45(75)av	2515
L_45(85)av	2708

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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: 2025-08-06

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:

```