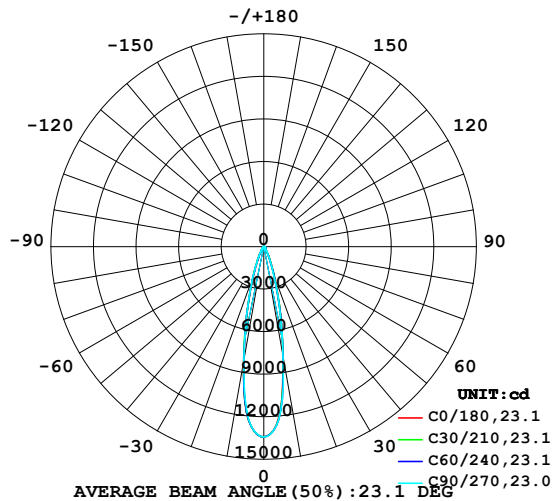


LUMINAIRE PHOTOMETRIC TEST REPORT

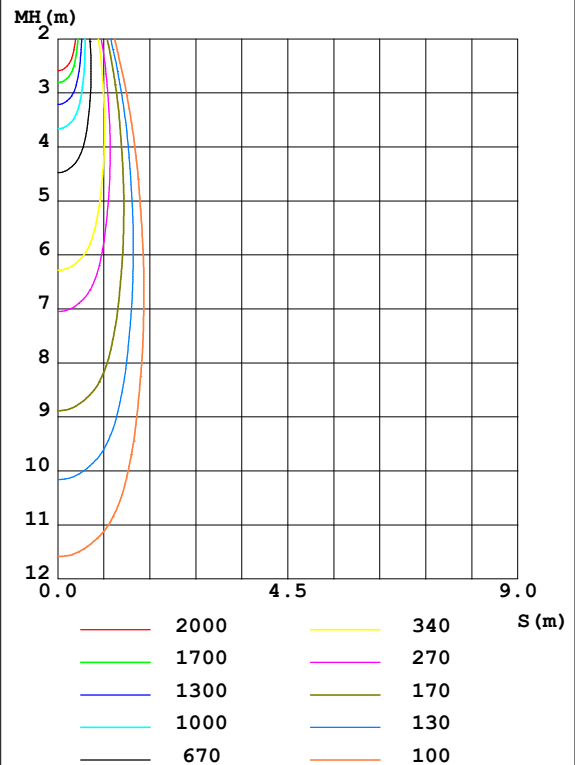
Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.92 lm/W
MODEL	ALT85-37G30-24	I _{max} (cd)	13420	S/MH(C0/180)	0.39	
NOMINAL POWER(W)	37	LOR(%)	100.0	S/MH(C90/270)	0.39	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	3051.3	□ UP,DN(C0-180)	0.0,51.0	
NOMINAL FLUX(lm)	3051.34	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.0	
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	225	□ down(%)	100.0	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: AE
 Test Date: 2020-03-06

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.240m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

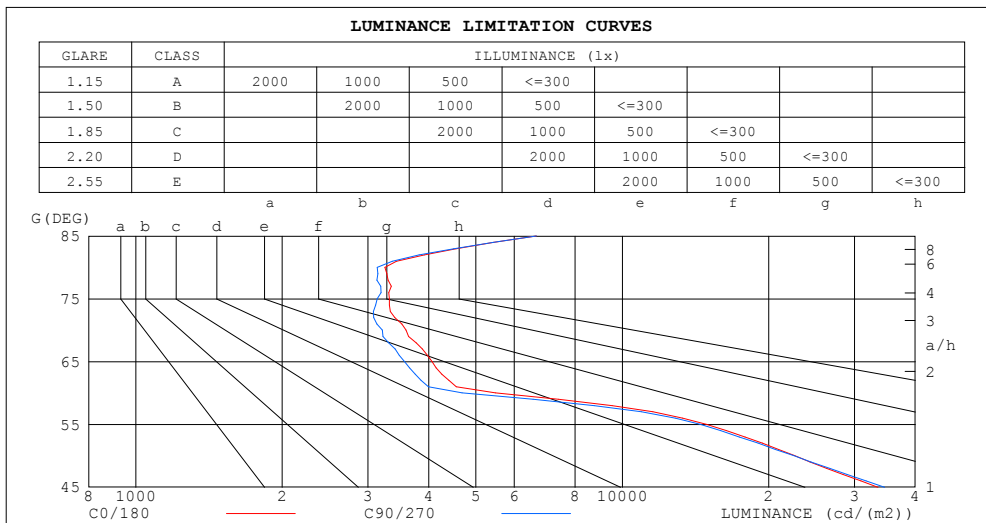
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	821.8	834.5	807.6	799.1	783.6	770.5	791.4	792.5	0- 10	1027	1027	33.7,33.7
20	215.0	225.2	218.1	219.1	215.1	202.7	203.8	202.5	10- 20	1205	2232	73.2,73.2
30	52.96	55.31	54.17	54.72	53.64	50.51	50.21	50.11	20- 30	500.0	2732	89.5,89.5
40	17.28	17.68	17.58	17.85	17.41	16.50	16.06	16.26	30- 40	190.7	2923	95.8,95.8
50	6.419	6.505	6.391	6.581	6.335	5.948	5.935	6.087	40- 50	82.86	3006	98.5,98.5
60	1.211	1.205	1.034	1.135	1.135	1.004	1.061	1.151	50- 60	32.11	3038	99.6,99.6
70	0.5430	0.5067	0.4854	0.5224	0.5277	0.4919	0.5137	0.5516	60- 70	7.274	3045	99.8,99.8
80	0.2497	0.2457	0.2405	0.2367	0.2172	0.2171	0.2194	0.2256	70- 80	3.878	3049	99.9,99.9
90	0.2929	0.2897	0.2872	0.2907	0.1813	0.1812	0.1808	0.1823	80- 90	2.474	3051	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:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6656	6656
80	3254	3136
75	3323	3138
70	3592	3214
65	4065	3568
60	5482	4684
55	14868	14429
50	22596	22513
45	33531	34588

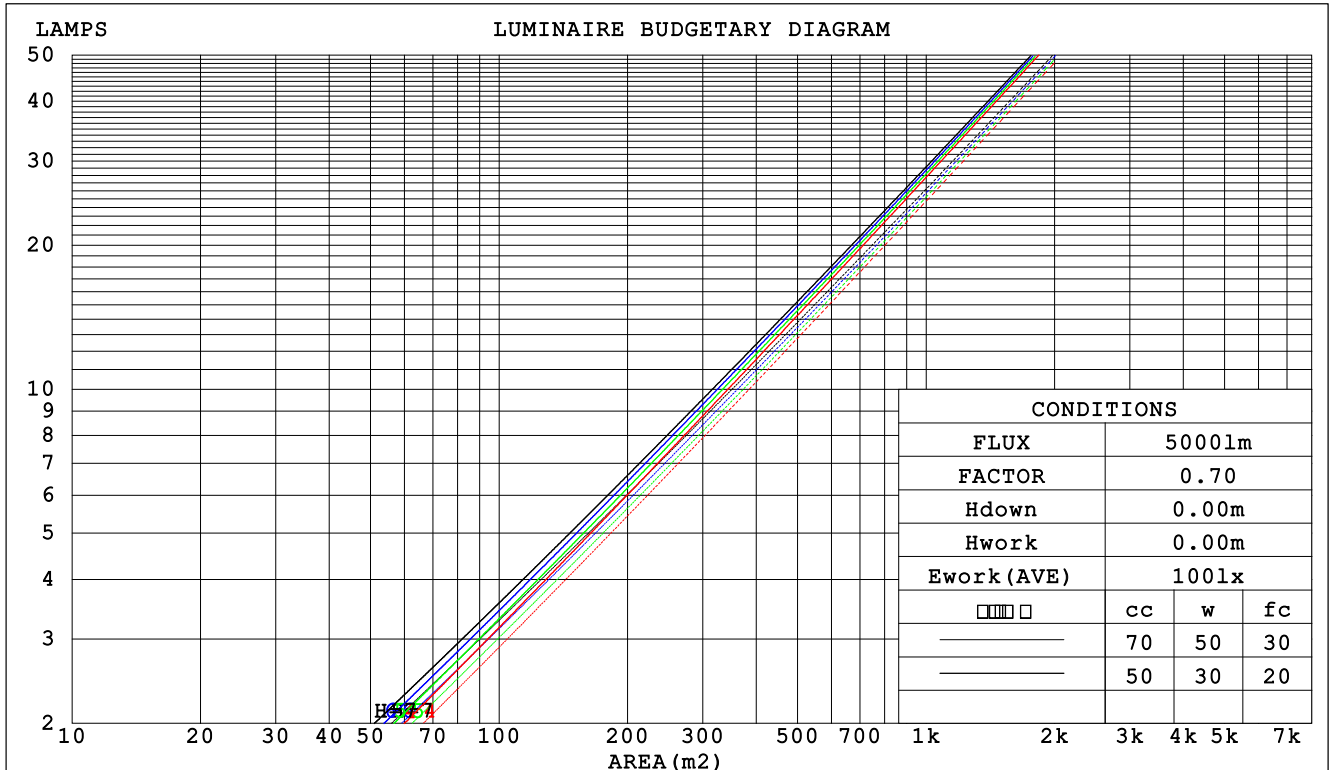
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0														
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
□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	1.12	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96														
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92														
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.96	.93	.91	.93	.92	.90	.88														
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.90	.87	.91	.88	.86	.85														
5.0	.93	.89	.86	.93	.88	.85	.91	.87	.85	.89	.86	.84	.88	.85	.83	.82														
6.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.87	.83	.81	.85	.83	.80	.79														
7.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.78	.77														
8.0	.84	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.75	.74														
9.0	.81	.77	.74	.81	.76	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.72														
10.0	.79	.74	.71	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.71	.70														



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0	
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.145	.082	.026	.138	.079	.025	.126	.072	.023	.115	.066	.021	.104	.060	.019		
2.0	.135	.074	.023	.130	.072	.022	.120	.066	.021	.110	.062	.019	.101	.057	.018		
3.0	.127	.067	.020	.122	.065	.020	.113	.061	.019	.105	.058	.018	.098	.054	.017		
4.0	.119	.062	.018	.115	.060	.018	.108	.057	.017	.101	.054	.016	.095	.051	.016		
5.0	.112	.057	.017	.109	.056	.016	.103	.053	.016	.097	.051	.015	.091	.049	.015		
6.0	.106	.053	.015	.103	.052	.015	.098	.050	.015	.093	.048	.014	.088	.046	.014		
7.0	.101	.050	.014	.098	.049	.014	.094	.047	.014	.089	.046	.013	.085	.044	.013		
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.086	.043	.013	.082	.042	.012		
9.0	.092	.044	.012	.090	.044	.012	.086	.043	.012	.083	.041	.012	.079	.040	.012		
10.0	.088	.042	.012	.086	.042	.012	.083	.041	.011	.080	.040	.011	.077	.039	.011		

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	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	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.078	.107	.085	.068	.074	.059	.048	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.055	.091	.066	.048	.063	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.085	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.049	.031	.019	.028	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			SUR.:75			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	12.7	13.4	12.9	13.5	13.7	12.7	13.4	12.9	13.5	13.7
3H	12.6	13.2	12.8	13.4	13.6	12.6	13.2	12.8	13.4	13.6
4H	12.5	13.1	12.8	13.4	13.6	12.5	13.1	12.8	13.3	13.6
6H	12.5	13.1	12.8	13.3	13.5	12.5	13.1	12.7	13.3	13.5
8H	12.4	13.0	12.7	13.3	13.5	12.4	13.0	12.7	13.3	13.5
12H	12.4	13.0	12.7	13.2	13.5	12.4	13.0	12.7	13.2	13.5
4H 2H	12.5	13.1	12.8	13.3	13.5	12.5	13.1	12.8	13.3	13.5
3H	12.4	13.0	12.7	13.2	13.5	12.4	13.0	12.7	13.2	13.5
4H	12.4	12.9	12.7	13.2	13.5	12.4	12.9	12.7	13.2	13.5
6H	12.3	12.8	12.7	13.1	13.4	12.3	12.8	12.7	13.1	13.4
8H	12.3	12.7	12.7	13.1	13.4	12.3	12.7	12.7	13.1	13.4
12H	12.3	12.7	12.7	13.1	13.5	12.3	12.7	12.7	13.1	13.5
8H 4H	12.2	12.7	12.6	13.0	13.4	12.2	12.7	12.6	13.0	13.4
6H	12.2	12.6	12.6	13.0	13.4	12.2	12.5	12.6	12.9	13.4
8H	12.2	12.5	12.7	12.9	13.4	12.2	12.5	12.7	12.9	13.4
12H	12.3	12.6	12.8	13.0	13.5	12.3	12.5	12.7	13.0	13.4
12H 4H	12.2	12.6	12.6	12.9	13.3	12.2	12.6	12.6	12.9	13.3
6H	12.2	12.5	12.6	12.9	13.3	12.2	12.5	12.6	12.9	13.3
8H	12.2	12.5	12.7	12.9	13.4	12.2	12.4	12.6	12.9	13.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 4.4					+ 2.2 / - 4.7				
1.5H	+ 3.0 / - 2.9					+ 3.1 / - 3.0				
2.0H	+ 4.0 / - 5.4					+ 4.1 / - 5.6				

CIE Pub.117, 3051 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

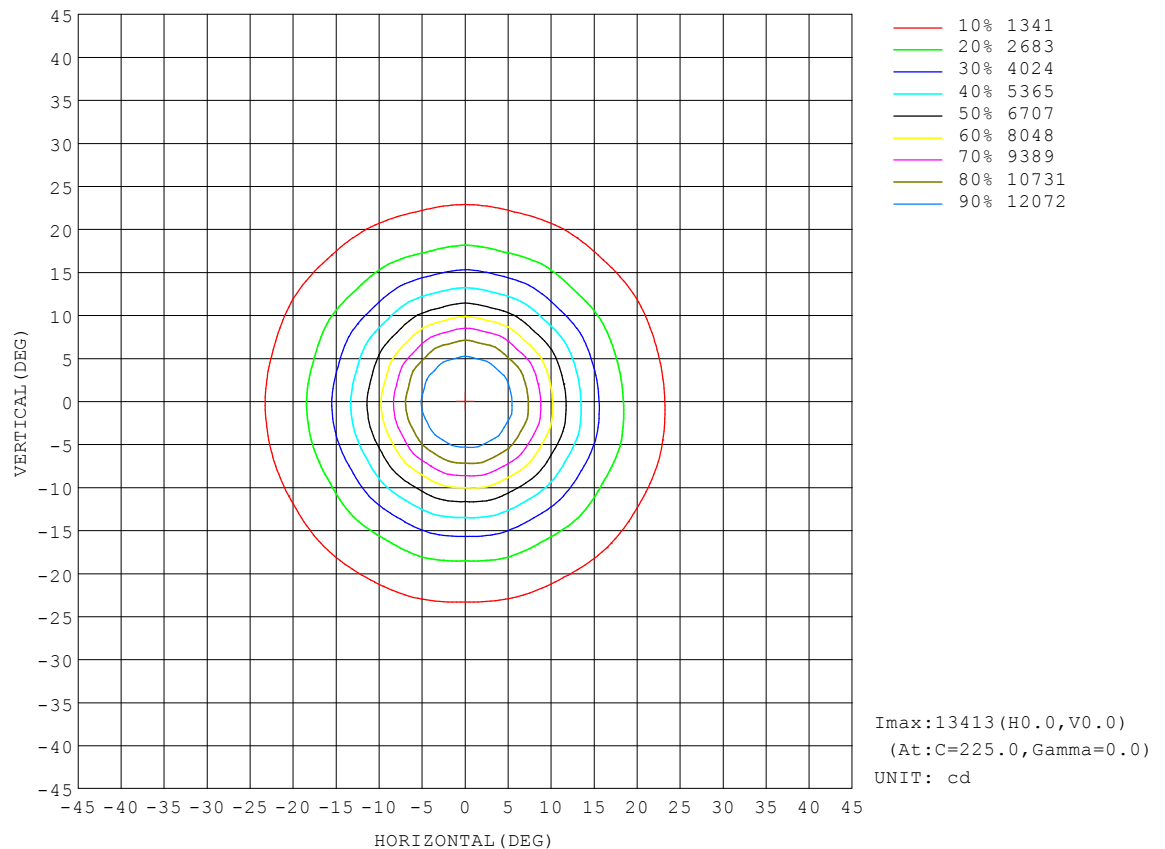
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	95	90	87	94	90	87	83
1.00	100	95	92	99	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	91
1.50	107	102	99	105	101	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

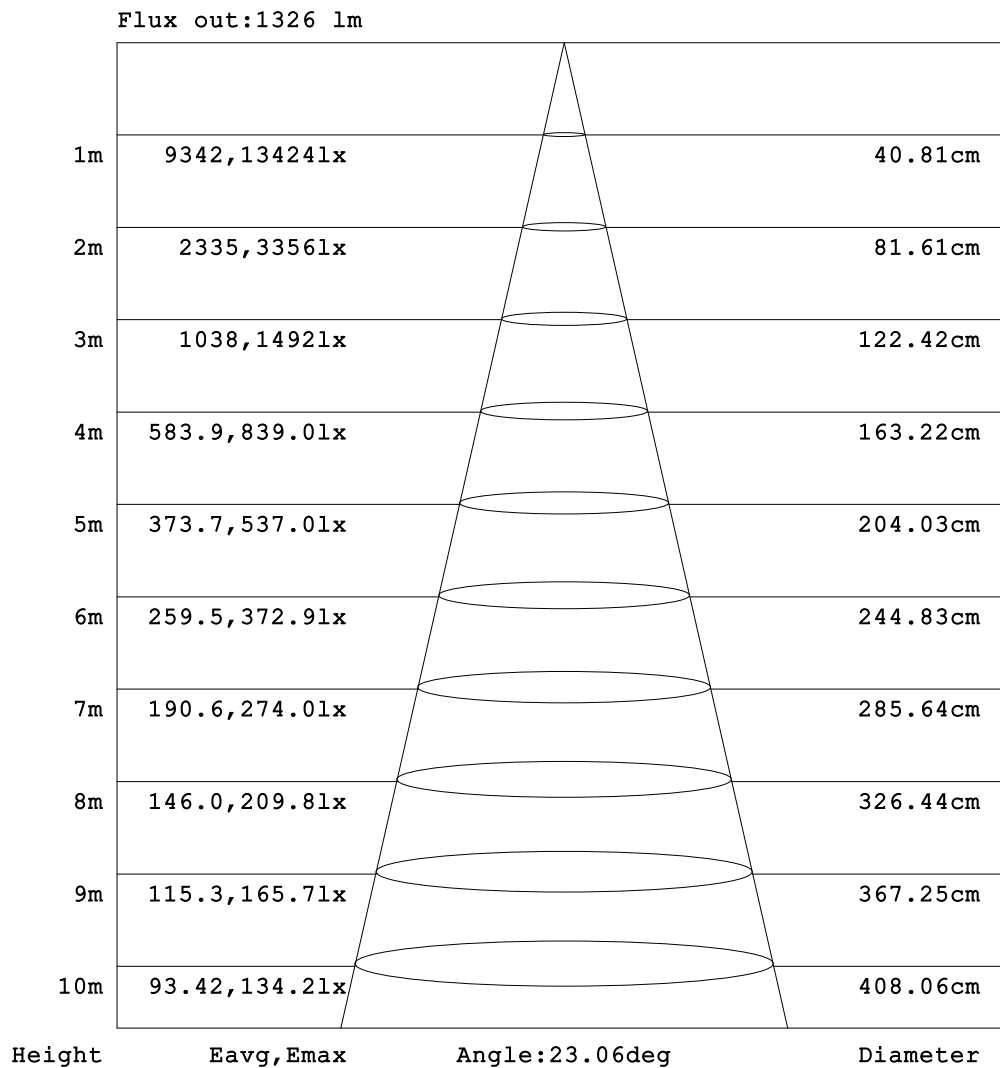


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

AAI Figure

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



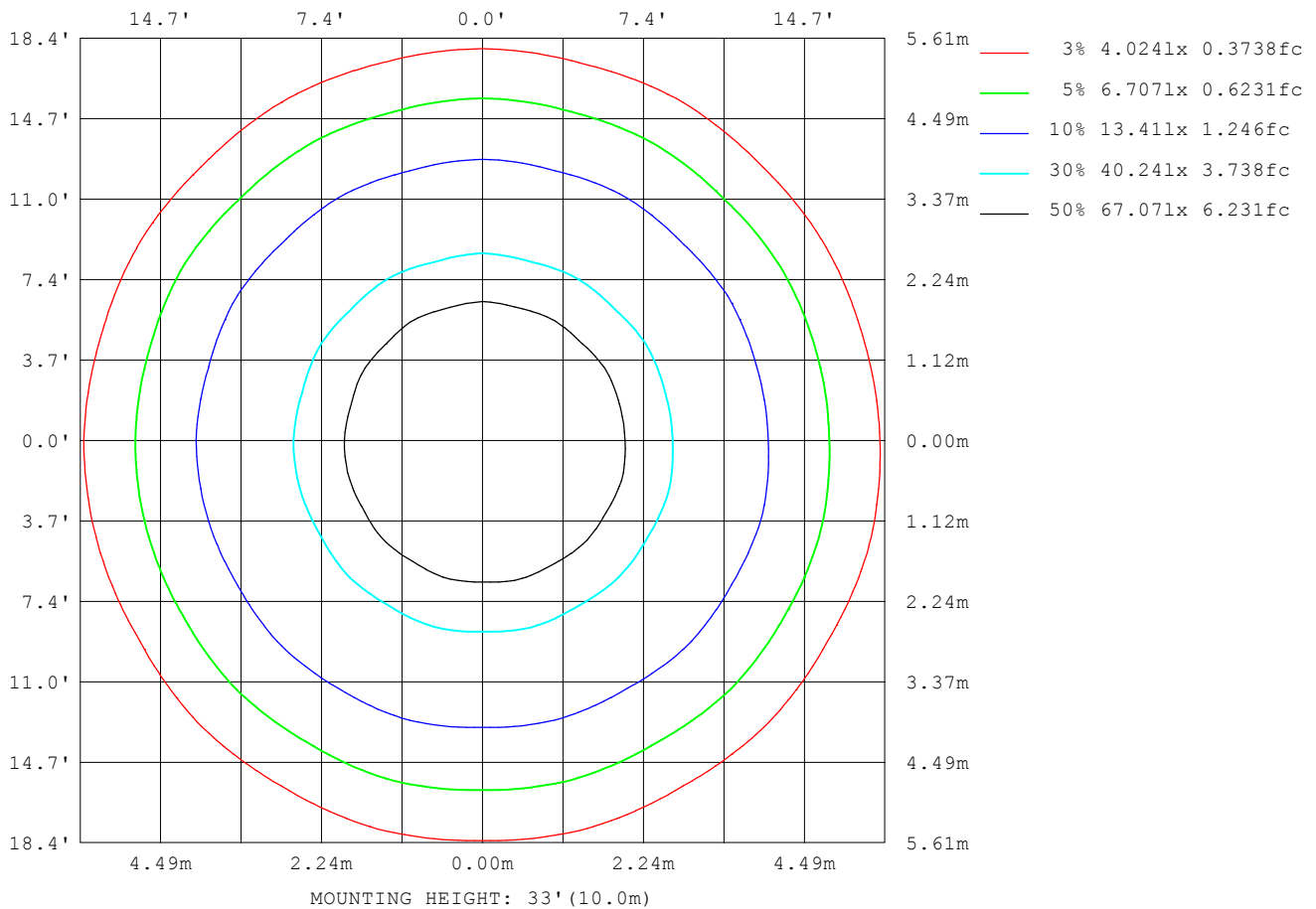
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:224.9V I:0.1700A P:36.80W PF:0.9590 Freq:50.00Hz Lamp Flux:3051.34x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

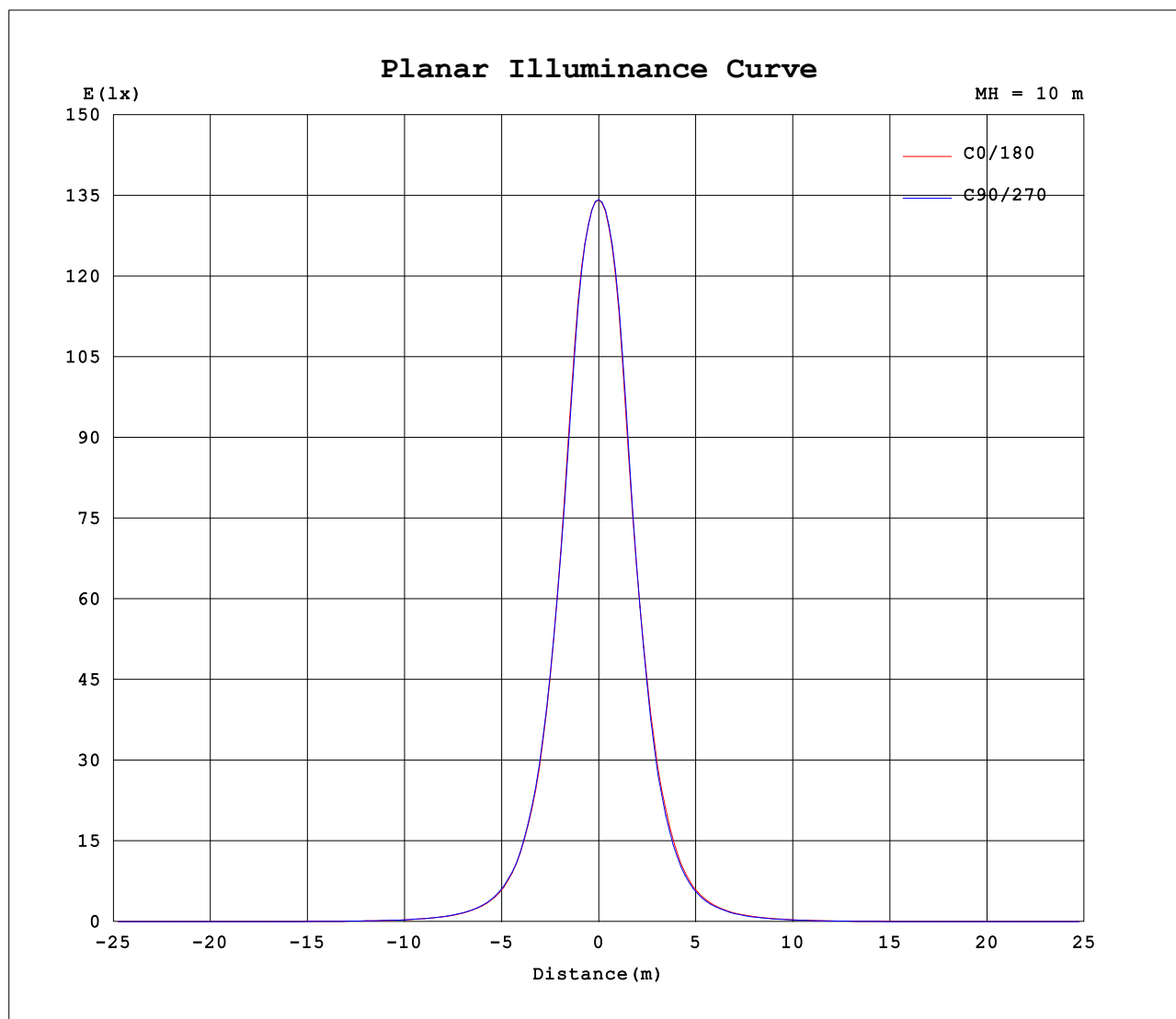
AvgL	cd/m2
L_0~180 (65) av	4041
L_0~180 (75) av	3278
L_0~180 (85) av	5816
L_90~270 (65) av	3687
L_90~270 (75) av	3115
L_90~270 (85) av	5827
L_45 (65) av	3858
L_45 (75) av	3201
L_45 (85) av	5887

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-03-06

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

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