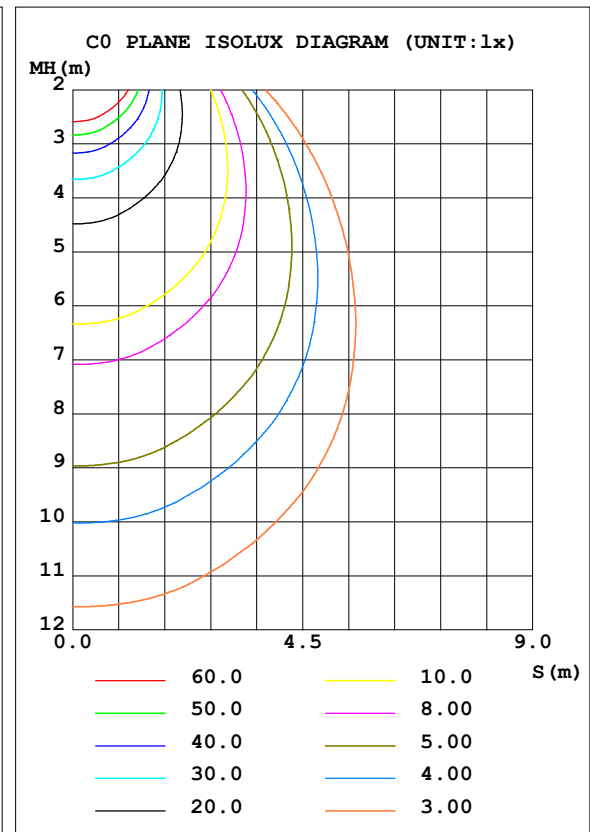
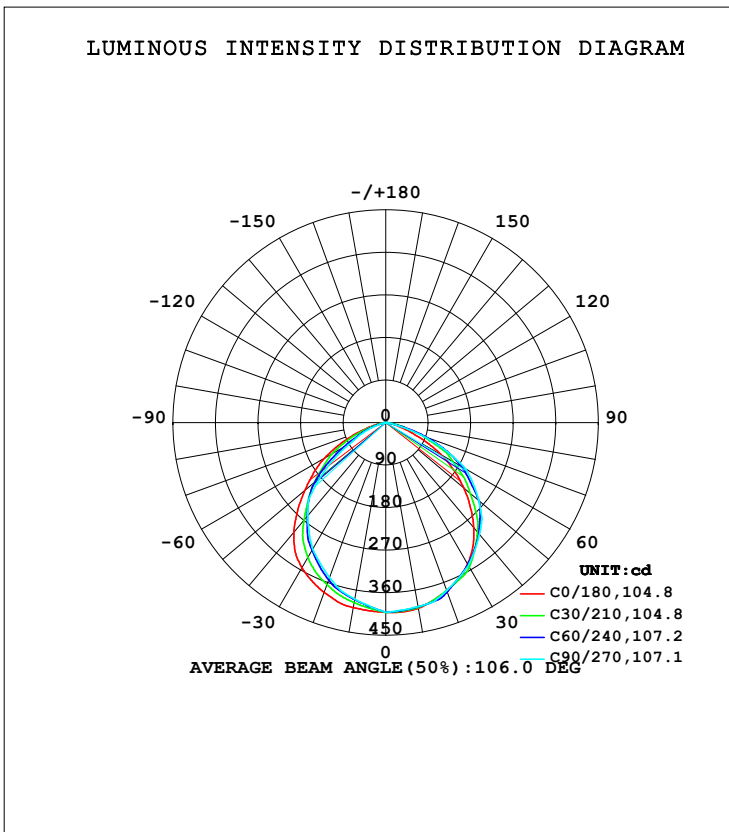


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.58 lm/W			
MODEL	S4010	I _{max} (cd)	402.1	S/MH (C0/180)	1.31
NOMINAL POWER (W)	9.7	LOR (%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	999.35	η UP, DN (C0-180)	0.0,55.0
NOMINAL FLUX (lm)	999.352	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,45.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	119.9	η down (%)	100.0	CIBSE SHR MAX	1.35



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:22.5DEG
 Operators:
 Test Date:2023-01-13

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:74.3%
 Test Distance:10.900m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

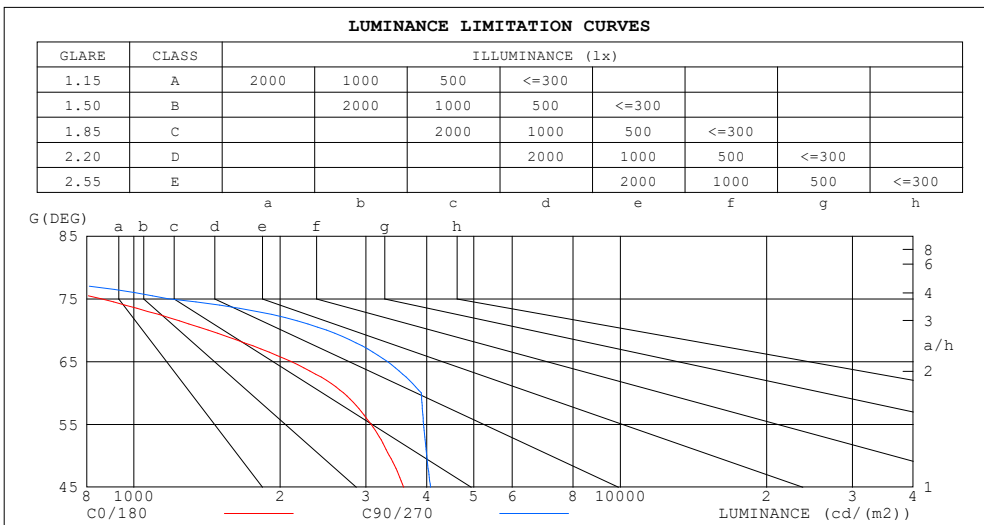
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	398.9	396.6	395.3	395.4	397.5	382.9	379.3	385.5	0- 10	37.68	37.68	3.77,3.77
20	378.3	383.7	377.9	385.0	382.3	360.1	348.6	359.8	10- 20	108.0	145.7	14.6,14.6
30	346.1	347.4	349.4	350.1	354.8	318.3	309.3	313.6	20- 30	163.2	308.9	30.9,30.9
40	289.8	306.5	308.6	307.6	302.8	265.9	256.8	258.9	30- 40	195.3	504.3	50.5,50.5
50	215.6	242.8	257.1	251.6	223.8	200.6	181.5	193.6	40- 50	196.4	700.7	70.1,70.1
60	134.9	172.4	195.0	179.9	148.2	122.4	83.40	114.8	50- 60	162.6	863.4	86.4,86.4
70	48.64	93.61	85.21	99.51	63.27	44.90	29.84	39.93	60- 70	101.3	964.6	96.5,96.5
80	6.518	17.04	0	19.11	11.94	3.246	0	2.381	70- 80	33.05	997.7	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	1.665	999.4	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		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



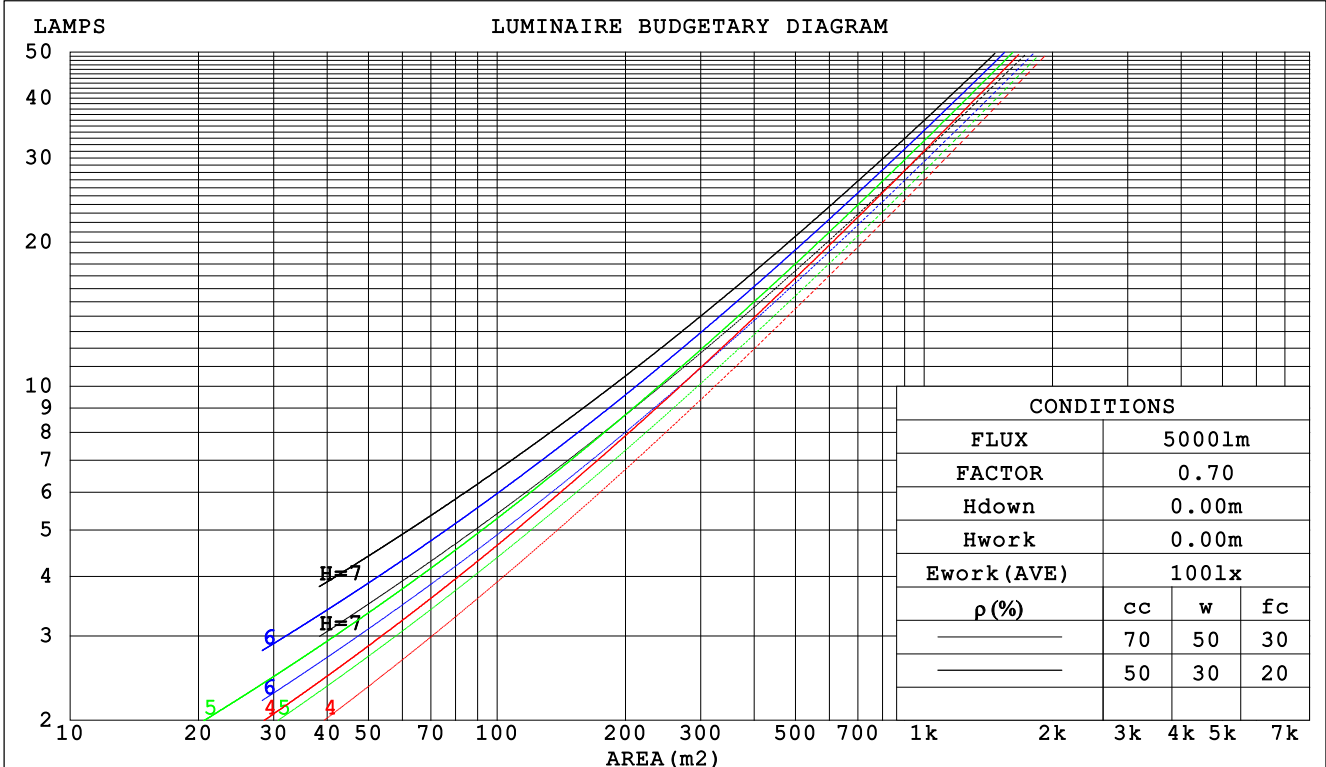
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.00
1.0	1.06	1.02	.99	1.04	1.01	.97	.90	.97	.94	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.82	.92	.86	.81	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.78	.73	.68	.76	.71	.66	.73	.69	.65	.63
4.0	.74	.66	.59	.73	.65	.59	.70	.63	.58	.68	.62	.57	.66	.61	.57	.55
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.45	.55	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm														
NAME: DETA					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.:					Shielding Angle:				

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.267	.152	.048	.260	.148	.047	.247	.142	.045	.235	.135	.043	.224	.130	.042	
2.0	.261	.143	.044	.255	.140	.043	.243	.135	.042	.233	.131	.041	.223	.126	.040	
3.0	.247	.131	.039	.242	.129	.039	.232	.125	.038	.222	.122	.037	.214	.118	.037	
4.0	.232	.120	.035	.227	.119	.035	.218	.116	.035	.210	.113	.034	.202	.110	.033	
5.0	.217	.110	.032	.213	.109	.032	.205	.107	.031	.197	.104	.031	.190	.102	.031	
6.0	.203	.102	.029	.199	.101	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028	
7.0	.190	.094	.027	.187	.093	.027	.181	.091	.026	.175	.090	.026	.169	.088	.026	
8.0	.179	.087	.025	.176	.086	.024	.170	.085	.024	.165	.083	.024	.160	.082	.024	
9.0	.168	.081	.023	.165	.081	.023	.160	.079	.022	.156	.078	.022	.151	.077	.022	
10.0	.159	.076	.021	.156	.075	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.104	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm										
NAME: DETA					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			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	17.2	18.6	17.5	18.8	19.0	18.2	19.7	18.5	19.9	20.1
3H	17.9	19.2	18.2	19.4	19.7	19.3	20.6	19.6	20.8	21.1
4H	18.0	19.2	18.3	19.5	19.7	19.4	20.6	19.7	20.9	21.1
6H	17.9	19.1	18.2	19.4	19.6	19.3	20.5	19.6	20.8	21.0
8H	17.9	19.0	18.2	19.3	19.6	19.3	20.4	19.6	20.7	21.0
12H	17.8	18.9	18.2	19.2	19.5	19.2	20.3	19.6	20.6	20.9
4H 2H	17.9	19.1	18.2	19.4	19.6	18.7	20.0	19.0	20.2	20.5
3H	18.8	19.9	19.1	20.2	20.5	19.9	21.0	20.3	21.3	21.6
4H	18.9	19.9	19.3	20.2	20.6	20.1	21.1	20.4	21.4	21.7
6H	18.9	19.8	19.3	20.2	20.5	20.0	20.9	20.4	21.2	21.6
8H	18.9	19.7	19.3	20.1	20.5	20.0	20.8	20.4	21.1	21.5
12H	18.9	19.6	19.3	20.0	20.4	19.9	20.7	20.4	21.0	21.5
8H 4H	19.1	19.9	19.5	20.3	20.7	20.1	20.9	20.6	21.3	21.7
6H	19.2	19.9	19.6	20.3	20.7	20.1	20.8	20.6	21.2	21.6
8H	19.2	19.8	19.6	20.2	20.6	20.1	20.7	20.5	21.1	21.5
12H	19.2	19.7	19.6	20.1	20.6	20.0	20.5	20.5	21.0	21.5
12H 4H	19.1	19.8	19.5	20.2	20.6	20.1	20.8	20.5	21.2	21.6
6H	19.2	19.7	19.6	20.2	20.6	20.1	20.7	20.5	21.1	21.5
8H	19.2	19.7	19.6	20.1	20.6	20.1	20.5	20.5	21.0	21.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.3				
1.5H	+ 0.4 / - 0.6					+ 0.2 / - 0.5				
2.0H	+ 0.3 / - 0.9					+ 0.3 / - 0.7				

CIE Pub.117, 999.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.0)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

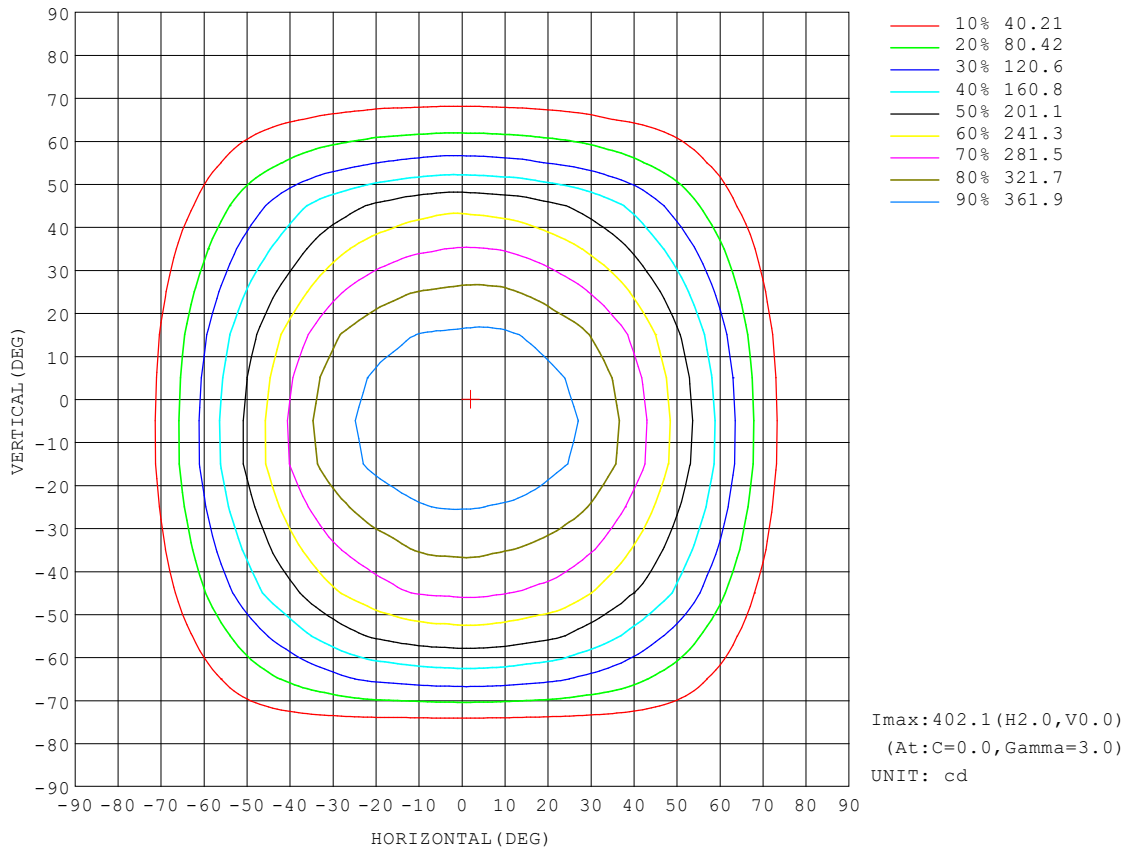
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	43	60	49	43	59	49	42	36
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	69	63	78	69	62	76	70	62	55
1.25	87	77	71	85	76	70	83	75	69	63
1.50	92	83	76	90	82	76	87	80	75	68
2.00	98	91	85	96	89	84	93	87	83	75
2.50	102	95	89	100	93	88	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

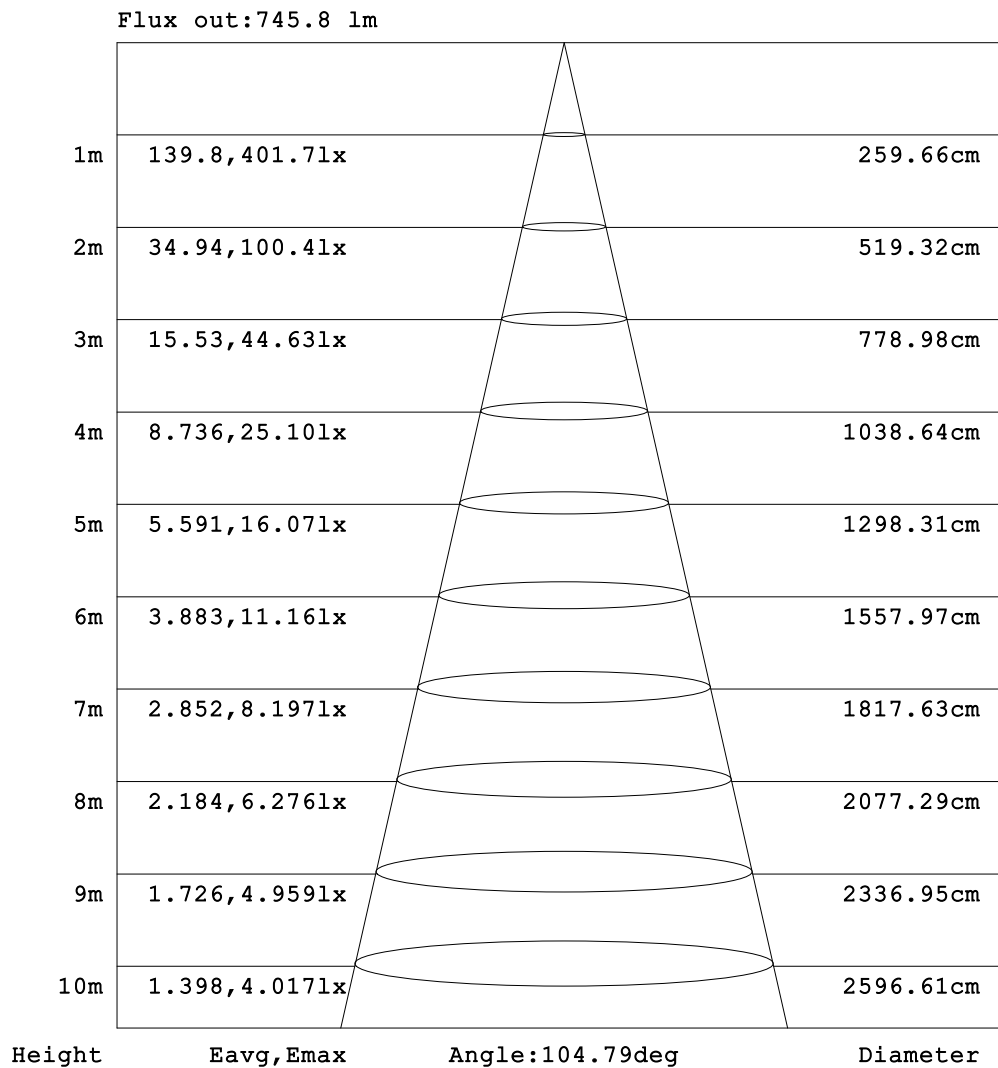


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



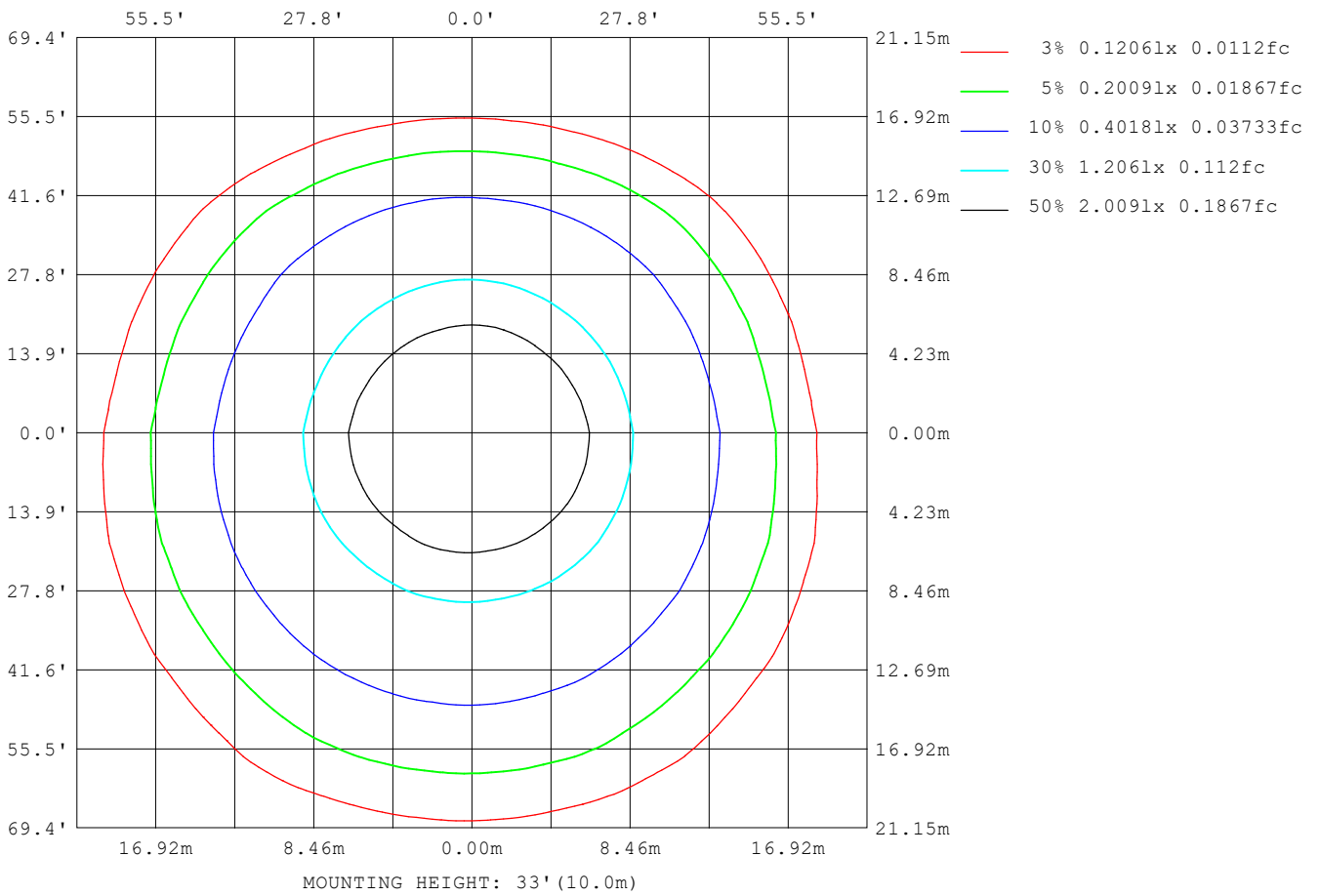
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.91V I:0.0873A P:10.347W PF:0.9884 Freq:59.98Hz Lamp Flux:999.352x1 lm		
NAME: DETA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

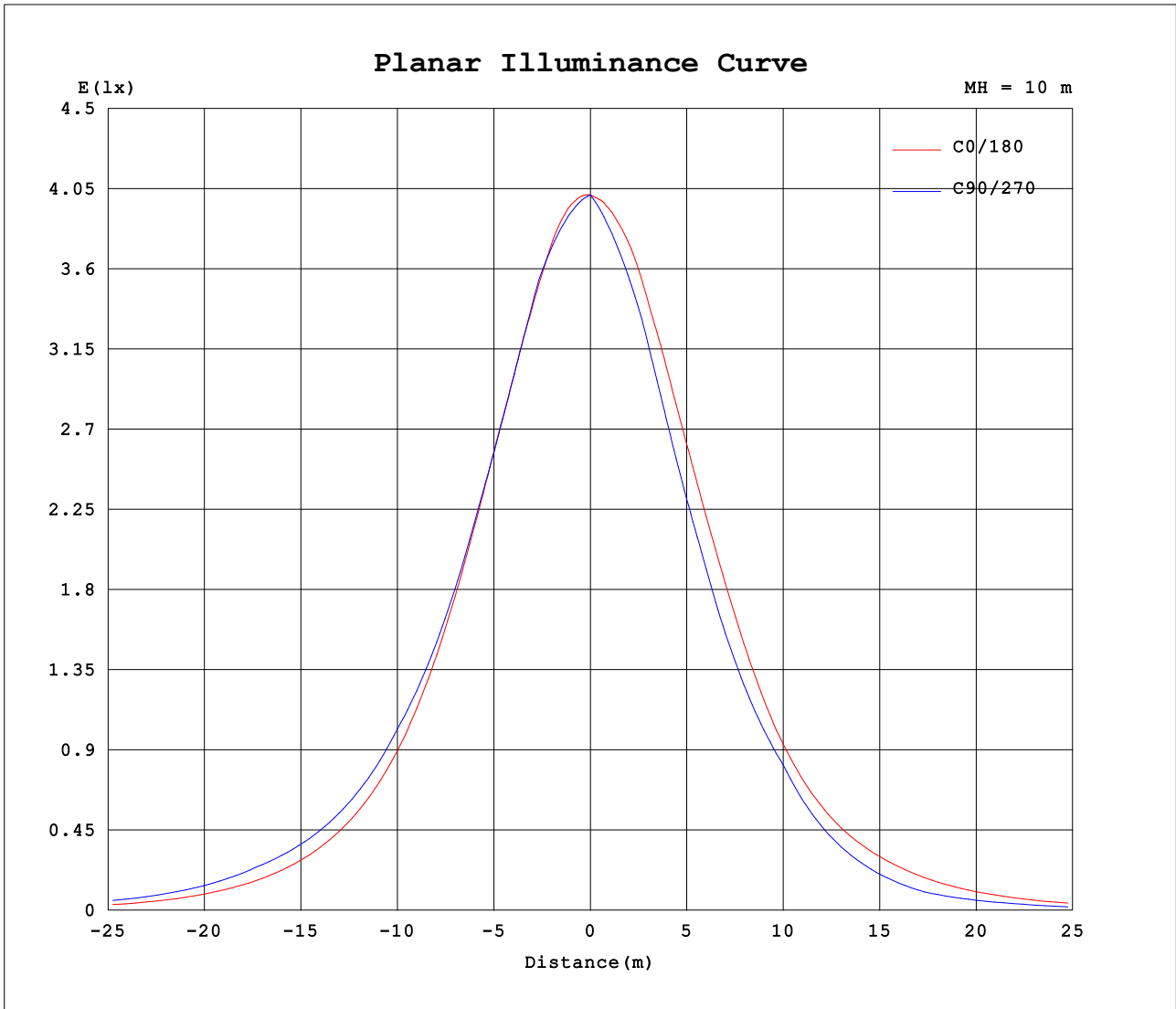
AvgL	cd/m2
L_0~180 (65) av	2293
L_0~180 (75) av	1037
L_0~180 (85) av	112
L_90~270 (65) av	2329
L_90~270 (75) av	647
L_90~270 (85) av	0
L_45 (65) av	2519
L_45 (75) av	1477
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:22.5DEG
Operators:
Test Date:2023-01-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:74.3%
Test Distance:10.900m [K=1.0000]
Remarks:

