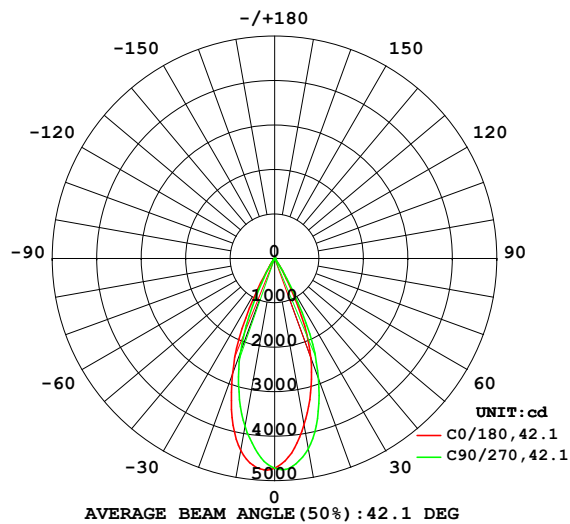


LUMINAIRE PHOTOMETRIC TEST REPORT

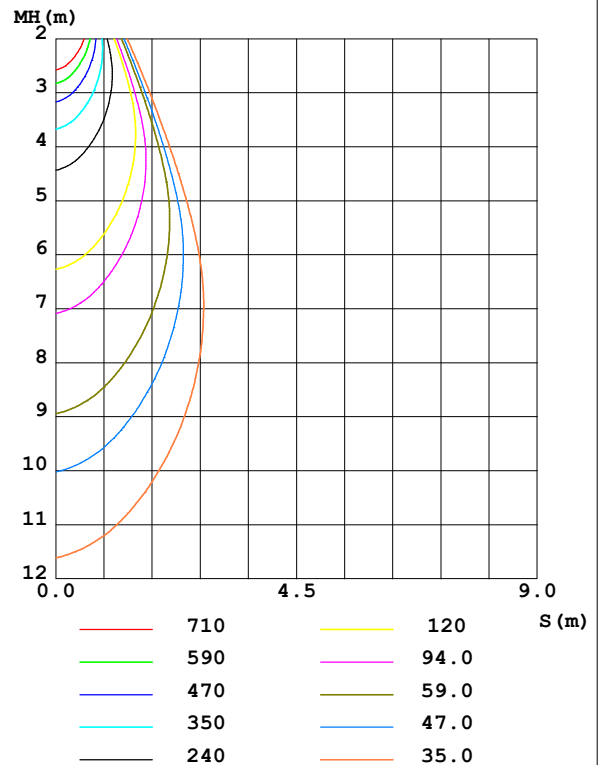
NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 65.74 lm/W
MODEL	3000K CRI90	I _{max} (cd)	4796	S/MH (C0/180)	0.68	
NOMINAL POWER(W)	36	LOR (%)	100.0	S/MH (C90/270)	0.62	
RATED VOLTAGE(V)	226	TOTAL FLUX(lm)	2303.5	η UP,DN (C0-180)	0.0,52.6	
NOMINAL FLUX(lm)	2303.53	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,47.4	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	225.1	η down (%)	100.0	CIBSE SHR MAX	0.70	

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: ZR
 Test Date: 2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity: 65.0%
 Test Distance: 8.402m [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	3812	4035	4353	4434	4391	4030	3842	3712	0- 10	418.9	418.9	18.2, 18.2
20	2384	2626	2887	2890	2787	2441	2270	2262	10- 20	931.3	1350	58.6, 58.6
30	529.0	880.6	706.7	1007	634.4	777.7	404.3	686.8	20- 30	727.3	2078	90.2, 90.2
40	49.14	92.61	48.13	91.81	63.72	91.84	57.52	96.69	30- 40	168.3	2246	97.5, 97.5
50	7.273	11.31	7.325	10.58	26.46	29.08	24.72	29.51	40- 50	26.49	2272	98.6, 98.6
60	2.263	2.978	2.301	2.798	15.75	15.98	14.61	15.71	50- 60	11.20	2283	99.1, 99.1
70	2.773	2.674	2.833	2.667	11.42	11.14	10.86	10.89	60- 70	7.642	2291	99.5, 99.5
80	3.252	3.185	3.349	3.211	8.440	8.210	8.023	8.059	70- 80	6.622	2298	99.7, 99.7
90	3.863	3.743	3.865	3.765	6.411	6.238	6.119	6.143	80- 90	5.793	2304	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		

Conical surface Flux(90deg): 2262.8 lm

%lum = 98.2%

%lamp = 98.2%

Conical surface Flux(120deg): 2283.5 lm

%lum = 99.1%

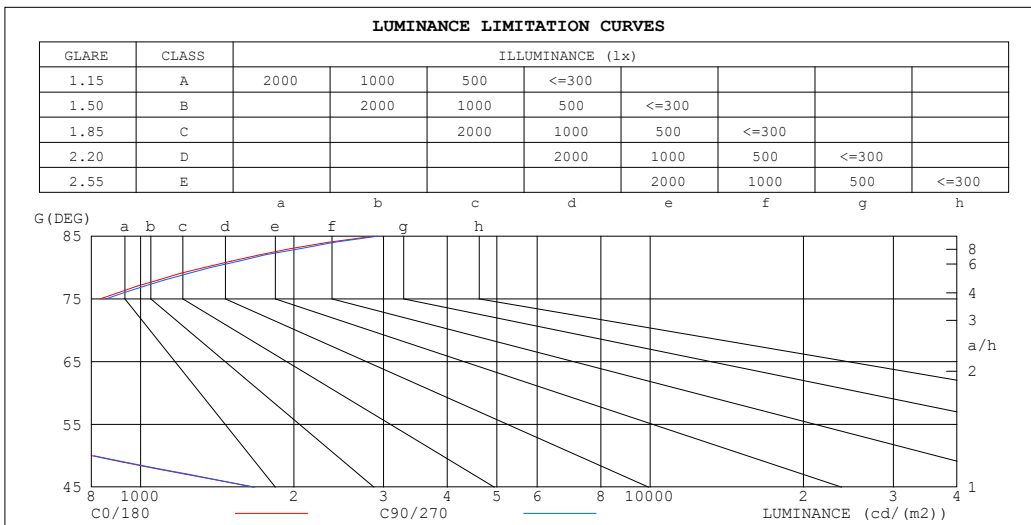
%lamp = 99.1%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:8.402m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:



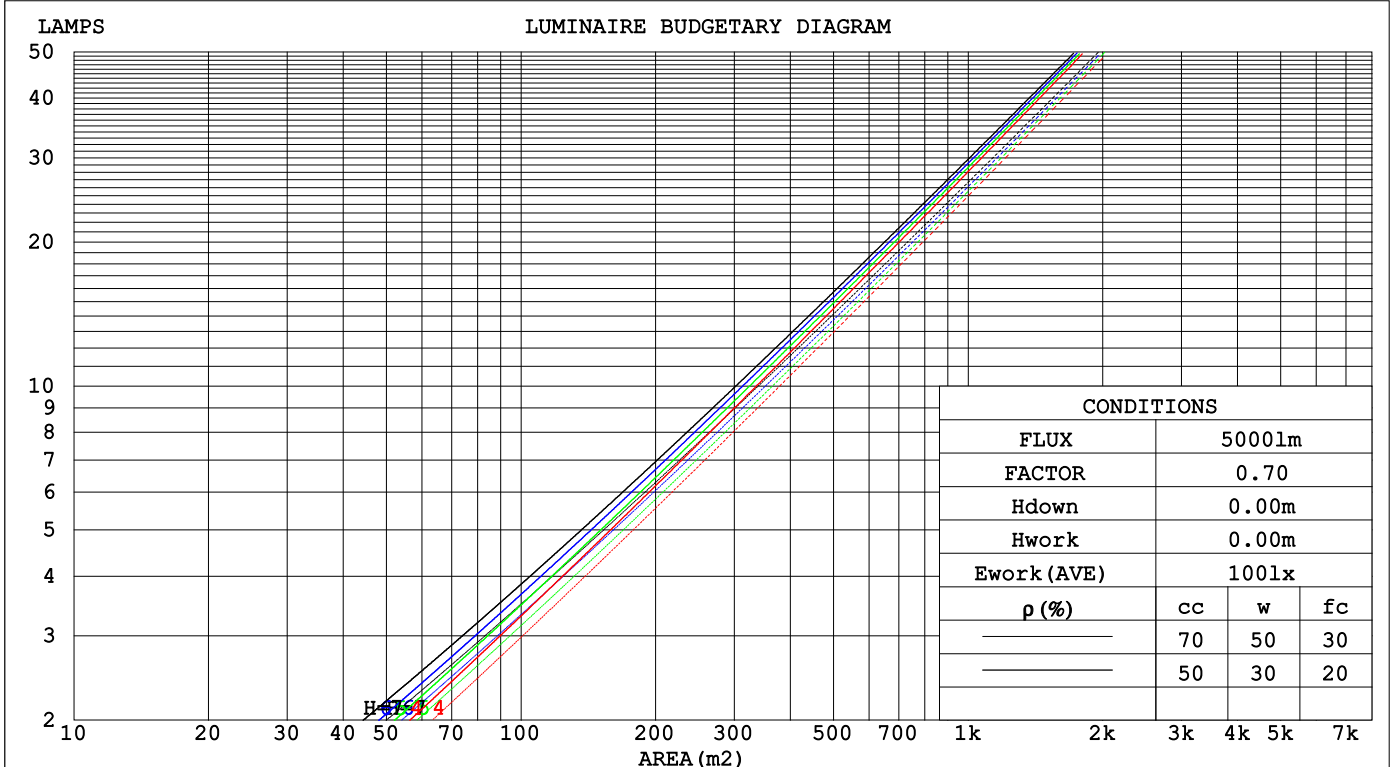
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZR
 Test Date: 2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity: 65.0%
 Test Distance: 8.402m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	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	.160	.091	.029	.153	.087	.028	.141	.081	.026	.129	.075	.024	.119	.069	.022		
2.0	.150	.082	.025	.144	.079	.024	.134	.074	.023	.124	.070	.022	.115	.065	.021		
3.0	.141	.075	.022	.136	.073	.022	.127	.069	.021	.119	.065	.020	.111	.062	.019		
4.0	.133	.069	.020	.129	.067	.020	.121	.064	.019	.114	.061	.019	.108	.059	.018		
5.0	.126	.064	.019	.122	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017		
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016		
7.0	.114	.057	.016	.112	.056	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015		
8.0	.109	.053	.015	.107	.053	.015	.103	.051	.015	.099	.050	.014	.095	.049	.014		
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.095	.048	.014	.092	.047	.013		
10.0	.101	.048	.013	.099	.048	.013	.095	.047	.013	.092	.046	.013	.089	.045	.013		

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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013		
3.0	.140	.113	.093	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011		
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.119	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008		
6.0	.110	.077	.053	.095	.067	.046	.065	.047	.032	.038	.027	.019	.012	.009	.006		
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005		
8.0	.097	.062	.038	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005		
9.0	.092	.057	.033	.079	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004		
10.0	.088	.053	.029	.076	.046	.026	.052	.032	.018	.031	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: M20-T41006A-36G30-36					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.: 652*21.6					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					7.0	7.8	7.2	7.9	8.1	7.7	8.5	7.9	8.6	8.8
3H					6.9	7.6	7.1	7.8	8.0	7.5	8.3	7.8	8.5	8.7
4H					6.8	7.5	7.1	7.7	8.0	7.5	8.2	7.8	8.4	8.6
6H					6.9	7.5	7.1	7.8	8.0	7.5	8.2	7.8	8.4	8.7
8H					6.9	7.6	7.2	7.8	8.1	7.6	8.2	7.9	8.5	8.7
12H					7.1	7.7	7.4	7.9	8.2	7.7	8.3	8.0	8.6	8.8
4H 2H					6.7	7.4	7.0	7.7	7.9	7.4	8.1	7.7	8.4	8.6
3H					6.6	7.2	6.9	7.5	7.8	7.3	7.9	7.6	8.2	8.5
4H					6.6	7.2	7.0	7.5	7.8	7.3	7.8	7.6	8.1	8.4
6H					6.7	7.2	7.1	7.6	7.9	7.4	7.9	7.7	8.2	8.5
8H					6.9	7.3	7.3	7.7	8.1	7.5	8.0	7.9	8.3	8.7
12H					7.2	7.6	7.6	8.0	8.4	7.7	8.2	8.2	8.5	8.9
8H 4H					6.5	7.0	6.9	7.3	7.7	7.2	7.6	7.6	8.0	8.4
6H					6.8	7.1	7.2	7.5	7.9	7.4	7.7	7.8	8.1	8.5
8H					7.0	7.4	7.5	7.8	8.2	7.6	7.9	8.0	8.3	8.8
12H					7.5	7.8	8.0	8.2	8.7	8.0	8.3	8.5	8.7	9.2
12H 4H					6.5	6.9	6.9	7.3	7.7	7.2	7.6	7.6	7.9	8.3
6H					6.8	7.1	7.2	7.5	8.0	7.4	7.7	7.8	8.1	8.5
8H					7.1	7.4	7.6	7.8	8.3	7.6	7.9	8.1	8.4	8.8
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 1.9 / - 2.5					+ 2.2 / - 2.4				
1.5H					+ 4.0 / - 2.4					+ 4.2 / - 2.2				
2.0H					+ 1.0 / - 0.3					+ 0.9 / - 0.3				

CIE Pub.117, 2304 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.9)
Area: 0.014083 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:

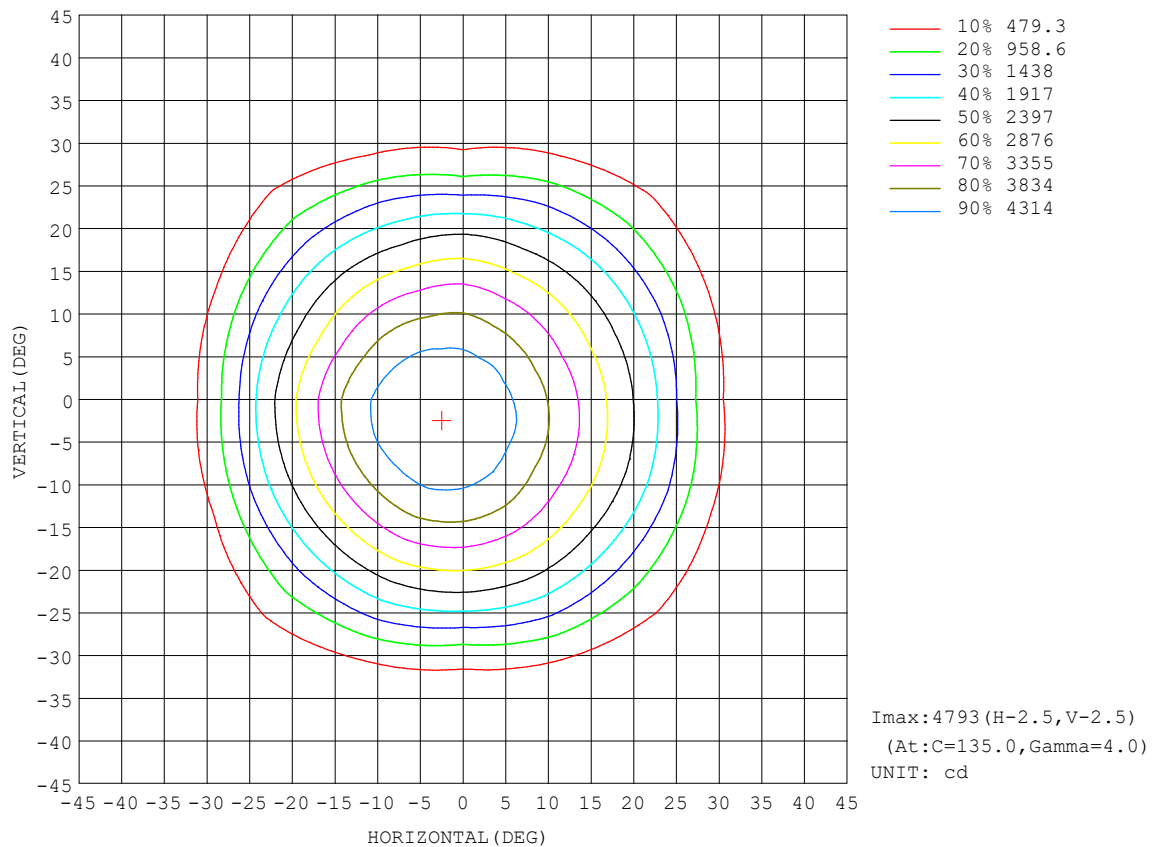
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	106	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	112	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: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZR
Test Date: 2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity: 65.0%
Test Distance: 8.402m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:

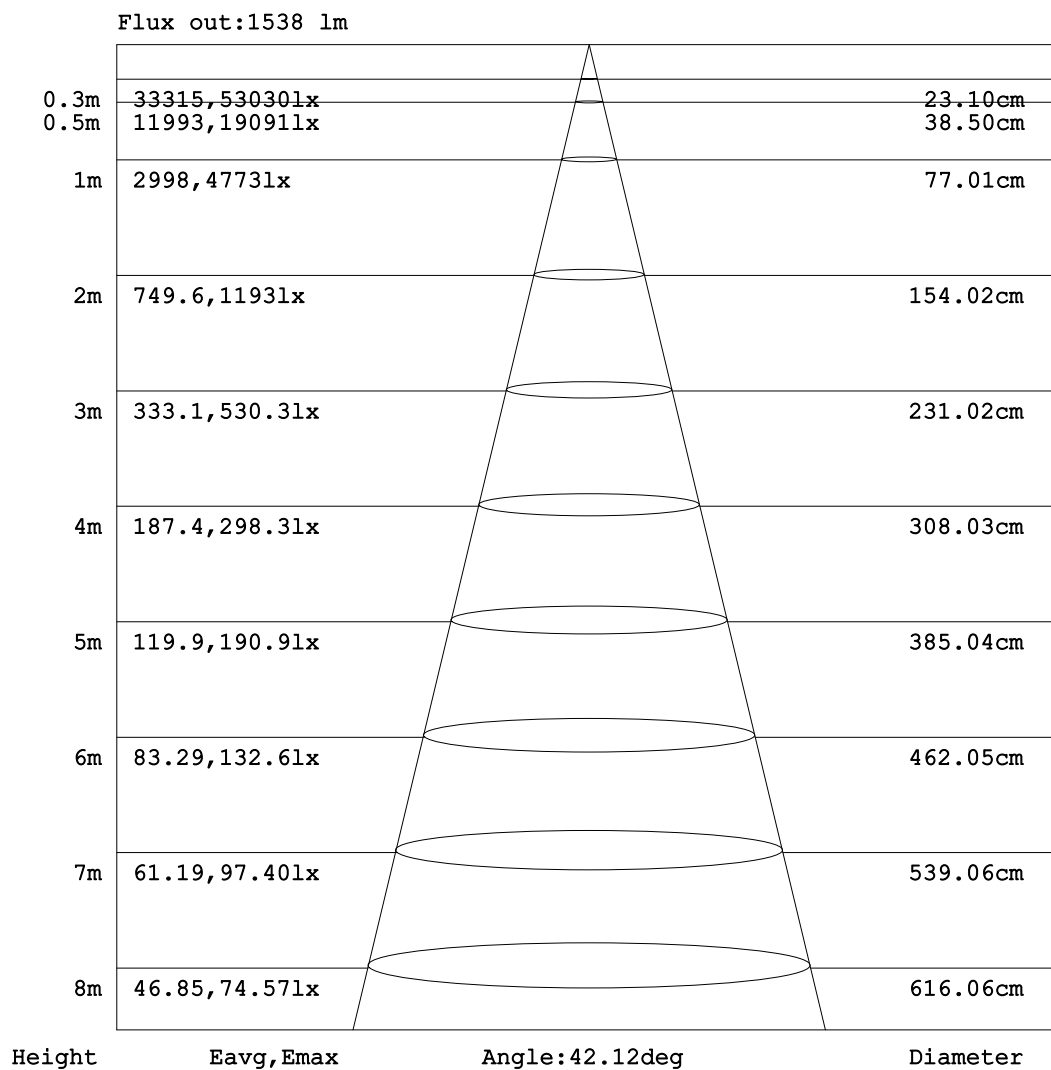


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZR
 Test Date: 2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity: 65.0%
 Test Distance: 8.402m [K=1.0000]
 Remarks:

AAI Figure

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:



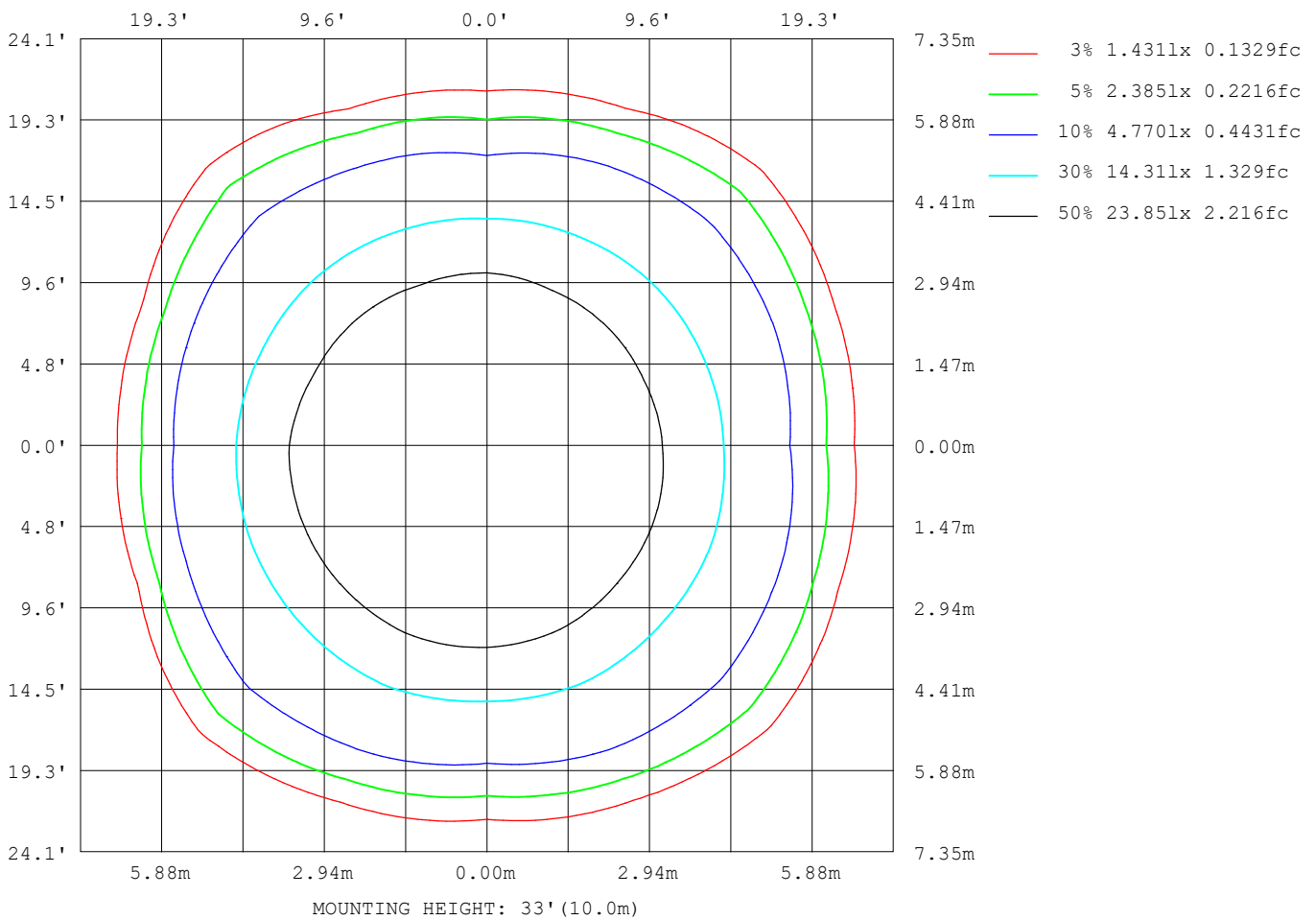
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZR
 Test Date: 2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity: 65.0%
 Test Distance: 8.402m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZR
Test Date: 2021-08-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity: 65.0%
Test Distance: 8.402m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: M20-T41006A-36G30-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 652*21.6	Shielding Angle:

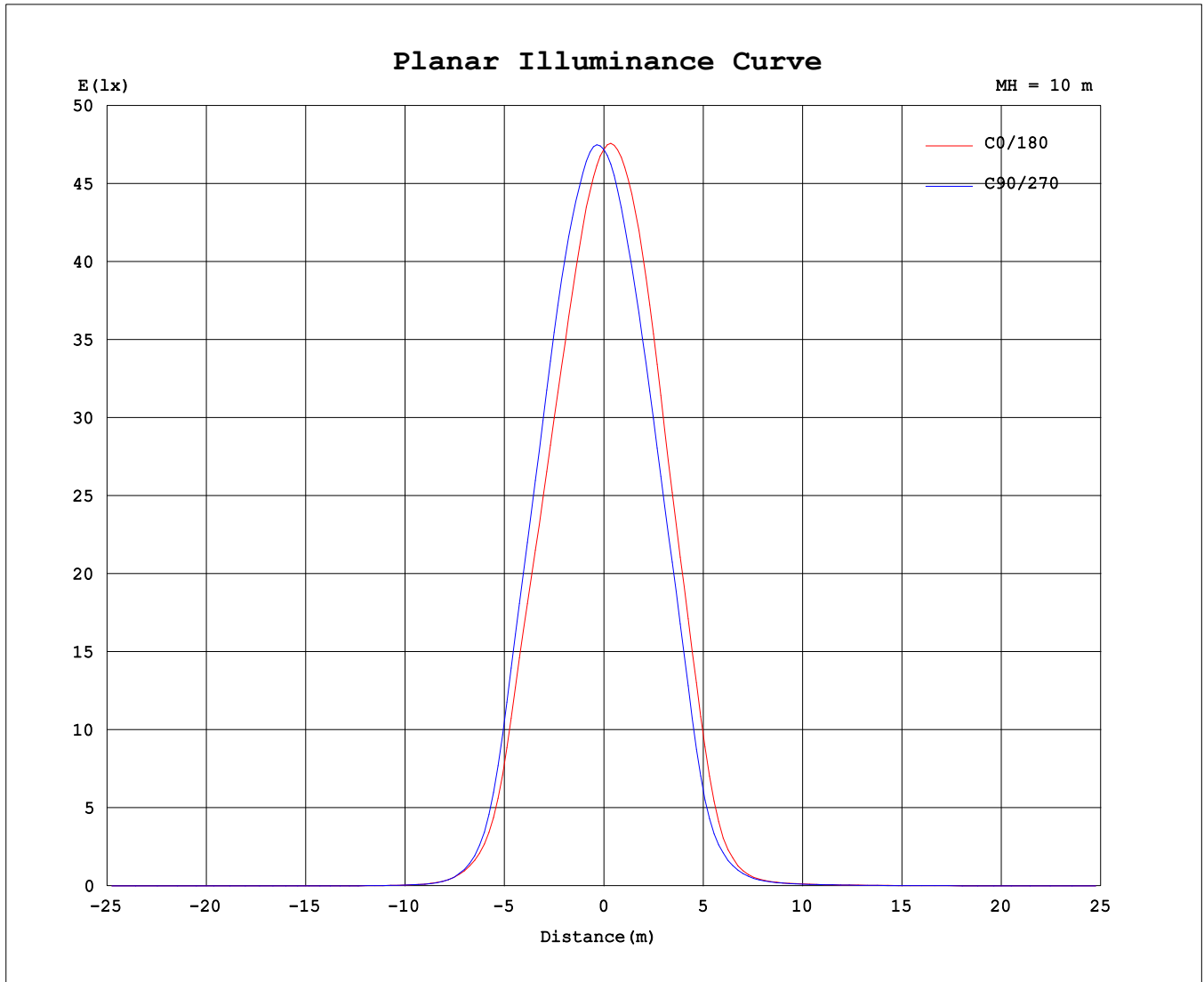
AvgL	cd/m2
L_0~180 (65) av	1331
L_0~180 (75) av	1764
L_0~180 (85) av	4405
L_90~270 (65) av	1271
L_90~270 (75) av	1704
L_90~270 (85) av	4291
L_45 (65) av	1282
L_45 (75) av	1701
L_45 (85) av	4272

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZR
 Test Date: 2021-08-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity: 65.0%
 Test Distance: 8.402m [K=1.0000]
 Remarks:

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

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