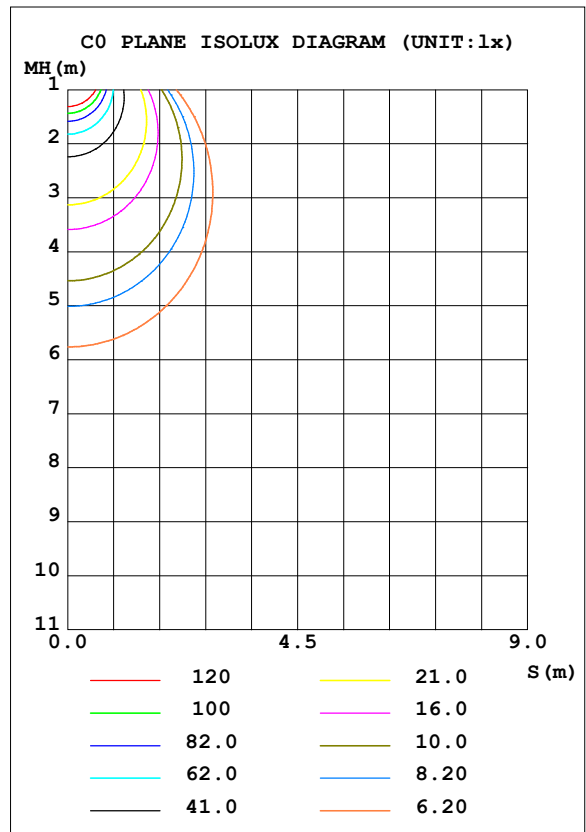
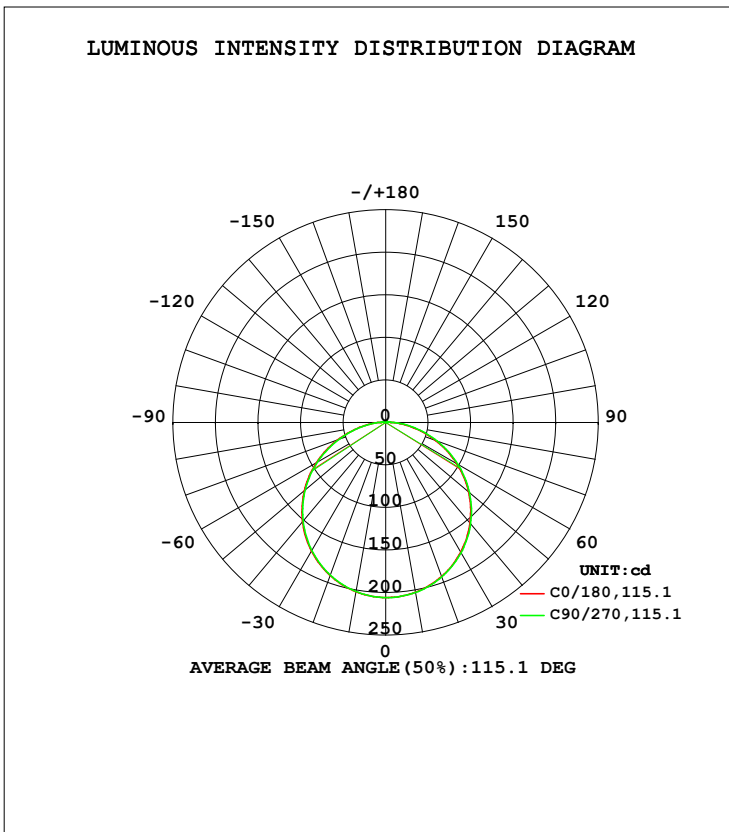


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.15 lm/W			
MODEL	AL117-11-6W-3000K	I _{max} (cd)	205.9	S/MH (C0/180)	1.26
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	629.05	η UP, DN (C0-180)	1.2, 49.7
NOMINAL FLUX (lm)	629.046	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.0, 48.1
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	97.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.692m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

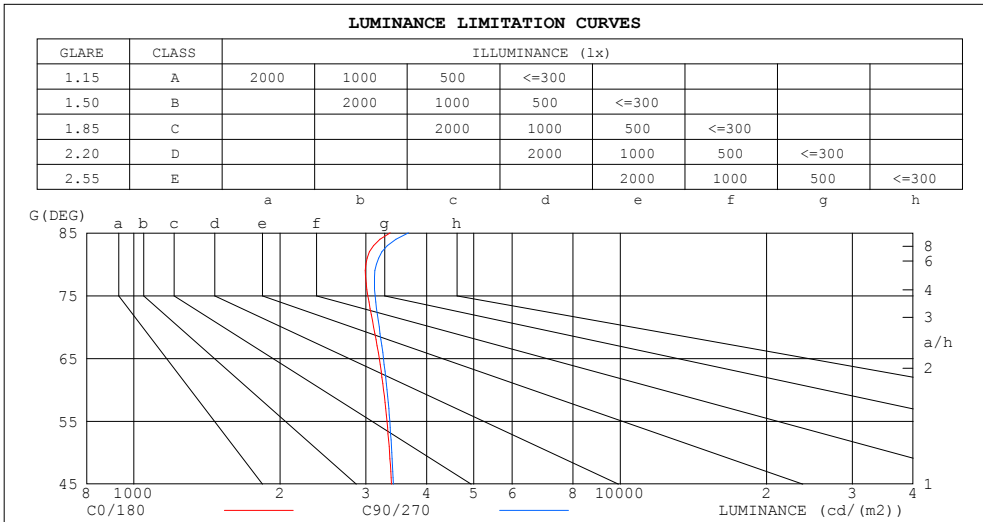
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	202.7	202.9	202.1	201.7				0- 10	19.48	19.48	3.1,3.1
20	192.6	193.2	191.5	190.9				10- 20	55.89	75.37	12,12
30	176.3	177.1	174.7	173.7				20- 30	85.04	160.4	25.5,25.5
40	154.2	155.4	152.2	151.1				30- 40	103.2	263.6	41.9,41.9
50	127.3	128.6	124.9	123.6				40- 50	108.1	371.8	59.1,59.1
60	96.26	97.87	93.69	92.34				50- 60	99.17	471.0	74.9,74.9
70	62.80	64.51	60.23	58.80				60- 70	77.59	548.6	87.2,87.2
80	30.74	32.30	28.52	27.38				70- 80	47.77	596.3	94.8,94.8
90	7.920	9.512	7.091	7.496				80- 90	19.00	615.3	97.8,97.8
100	3.302	2.865	2.784	3.407				90-100	5.604	620.9	98.7,98.7
110	2.381	1.375	0.7466	1.067				100-110	2.169	623.1	99.1,99.1
120	1.488	1.166	1.438	1.315				110-120	1.424	624.5	99.3,99.3
130	1.185	1.476	1.167	1.268				120-130	1.063	625.6	99.5,99.5
140	1.646	1.741	1.560	1.671				130-140	1.147	626.7	99.6,99.6
150	1.629	1.594	1.570	1.434				140-150	1.018	627.8	99.8,99.8
160	1.463	1.558	1.493	1.493				150-160	0.7017	628.5	99.9,99.9
170	1.570	1.594	1.570	1.564				160-170	0.4368	628.9	100,100
180	1.629	1.612	1.623	1.600				170-180	0.1515	629.0	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:629.046x1 lm
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:	
SPEC.: 3000K	DIM.:	SERIAL No.: 1	
MFR.:	SUR.: 0.059	Shielding Angle:	



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3366	3673
80	3001	3152
75	3026	3136
70	3113	3197
65	3196	3261
60	3264	3317
55	3316	3361
50	3357	3391
45	3389	3417

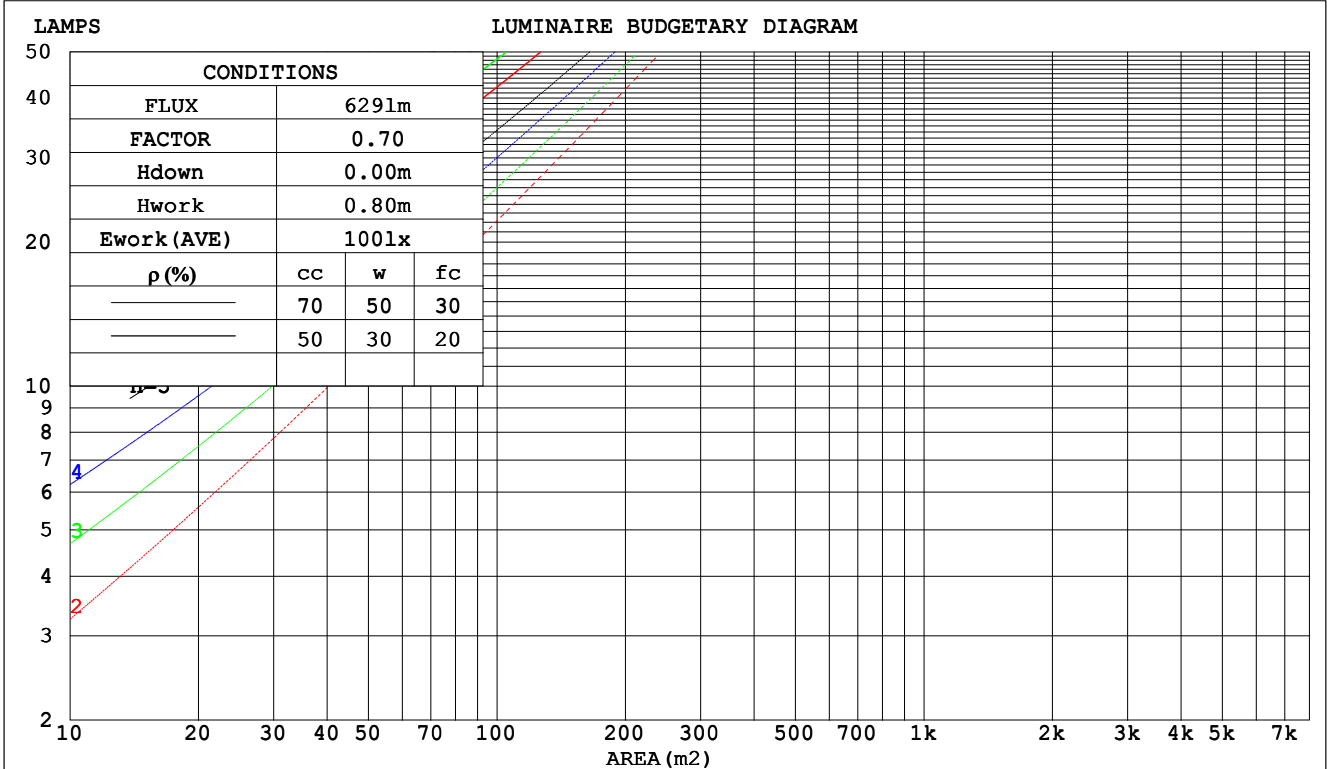
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.98	.94	1.00	.96	.92	.95	.92	.89	.91	.88	.86	.87	.85	.83	.80
2.0	.89	.82	.76	.87	.80	.75	.83	.77	.73	.79	.75	.71	.76	.72	.69	.66
3.0	.78	.69	.63	.76	.68	.62	.73	.66	.61	.70	.64	.59	.67	.62	.58	.56
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.51	.62	.56	.51	.59	.54	.50	.47
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.55	.49	.44	.53	.48	.43	.41
6.0	.55	.46	.40	.54	.46	.39	.52	.44	.39	.50	.43	.38	.48	.42	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.33	.27	.39	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K		TYPE: 6W		WEIGHT:	
SPEC.: 3000K		DIM.:		SERIAL No.: 1	
MFR.:		SUR.: 0.059		Shielding Angle:	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.326	.185	.059	.318	.181	.058	.303	.174	.056	.290	.167	.054	.278	.161	.052	
2.0	.301	.165	.051	.294	.162	.050	.281	.156	.049	.269	.151	.047	.258	.146	.046	
3.0	.276	.147	.044	.270	.145	.044	.259	.140	.043	.248	.136	.042	.238	.132	.041	
4.0	.254	.132	.039	.248	.130	.038	.238	.126	.038	.228	.123	.037	.220	.119	.036	
5.0	.234	.119	.034	.229	.117	.034	.220	.114	.034	.211	.111	.033	.203	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.201	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.176	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.177	.088	.025	.171	.087	.025	.165	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.080	.023	.155	.079	.023	
10.0	.165	.079	.022	.162	.078	.022	.156	.077	.022	.151	.075	.021	.146	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.207	.207	.207	.177	.177	.177	.121	.121	.121	.069	.069	.069	.022	.022	.022	
1.0	.198	.173	.150	.170	.148	.129	.116	.102	.089	.067	.059	.052	.021	.019	.017	
2.0	.190	.149	.114	.163	.128	.098	.112	.089	.069	.064	.052	.040	.021	.017	.013	
3.0	.183	.131	.090	.157	.113	.078	.107	.079	.055	.062	.046	.032	.020	.015	.011	
4.0	.175	.118	.075	.150	.102	.065	.103	.071	.046	.060	.042	.027	.019	.014	.009	
5.0	.167	.108	.064	.144	.093	.055	.099	.065	.039	.057	.038	.023	.018	.012	.008	
6.0	.160	.099	.056	.138	.086	.049	.095	.060	.034	.055	.035	.020	.018	.012	.007	
7.0	.153	.093	.050	.132	.080	.044	.091	.056	.031	.053	.033	.018	.017	.011	.006	
8.0	.147	.087	.046	.126	.075	.040	.087	.053	.028	.051	.031	.017	.016	.010	.006	
9.0	.141	.082	.042	.121	.071	.037	.084	.050	.026	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.040	.116	.067	.035	.081	.047	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K		TYPE: 6W		WEIGHT:	
SPEC.: 3000K		DIM.:		SERIAL No.: 1	
MFR.:		SUR.: 0.059		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	17.0	18.5	17.3	18.7	19.0	17.0	18.5	17.3	18.8	19.0
3H	18.6	20.0	18.9	20.3	20.6	18.7	20.1	19.0	20.4	20.7
4H	19.3	20.6	19.7	20.9	21.2	19.4	20.8	19.8	21.0	21.4
6H	19.9	21.1	20.3	21.5	21.8	20.0	21.3	20.4	21.6	21.9
8H	20.1	21.3	20.5	21.7	22.0	20.3	21.5	20.6	21.8	22.1
12H	20.3	21.5	20.7	21.8	22.2	20.5	21.7	20.9	22.0	22.3
4H 2H	17.6	19.0	18.0	19.3	19.6	17.7	19.0	18.0	19.3	19.6
3H	19.5	20.6	19.8	21.0	21.3	19.5	20.7	19.9	21.0	21.4
4H	20.3	21.4	20.7	21.7	22.1	20.4	21.5	20.8	21.8	22.2
6H	21.0	22.0	21.4	22.4	22.8	21.1	22.1	21.6	22.5	22.9
8H	21.3	22.2	21.8	22.6	23.0	21.5	22.3	21.9	22.7	23.2
12H	21.6	22.4	22.0	22.8	23.3	21.7	22.6	22.2	23.0	23.4
8H 4H	20.6	21.5	21.1	21.9	22.3	20.7	21.6	21.1	22.0	22.4
6H	21.5	22.3	22.0	22.7	23.2	21.6	22.4	22.1	22.8	23.3
8H	21.9	22.6	22.4	23.1	23.6	22.1	22.7	22.6	23.2	23.7
12H	22.3	22.9	22.8	23.4	23.9	22.5	23.1	23.0	23.6	24.1
12H 4H	20.6	21.5	21.1	21.9	22.3	20.7	21.5	21.2	22.0	22.4
6H	21.6	22.3	22.1	22.7	23.2	21.7	22.4	22.2	22.8	23.3
8H	22.1	22.7	22.6	23.2	23.7	22.2	22.8	22.7	23.3	23.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 629.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.6)
 Area: 0.059 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:629.046x1 lm
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:	
SPEC.: 3000K	DIM.:	SERIAL No.: 1	
MFR.:	SUR.: 0.059	Shielding Angle:	

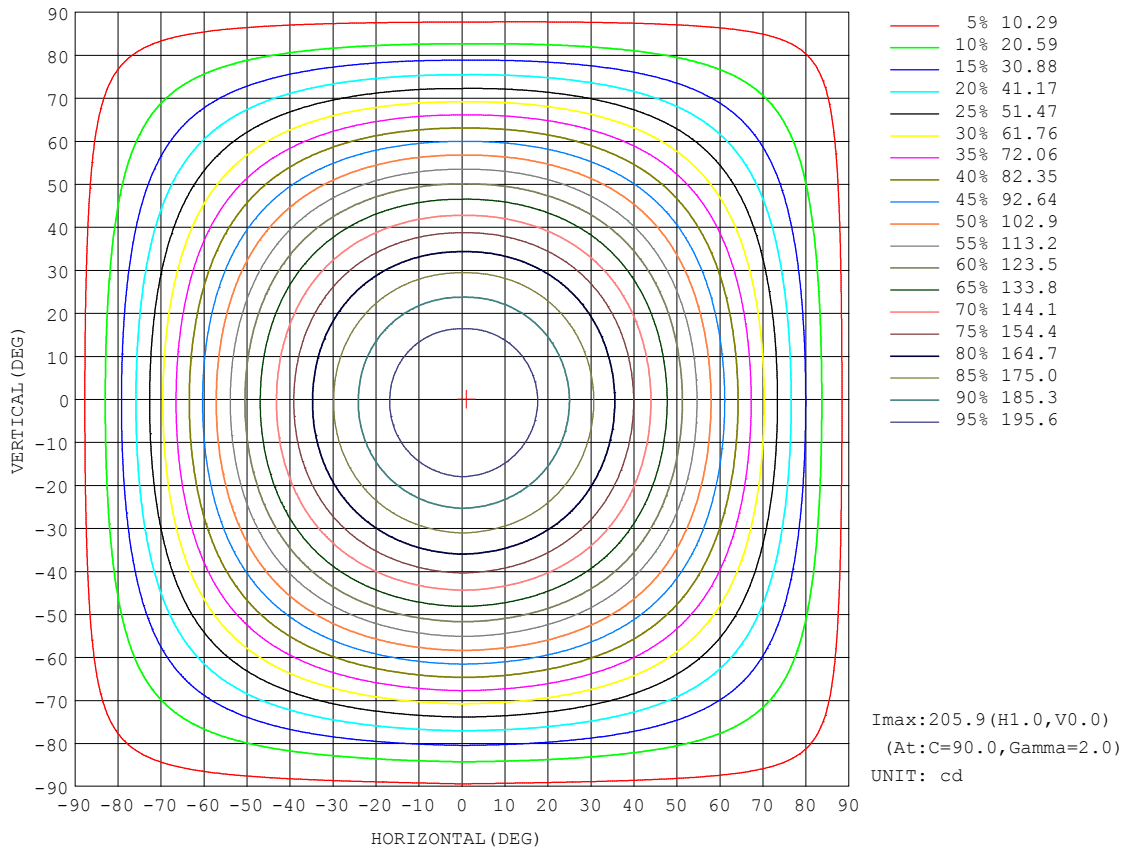
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	53	46	39
1.00	74	63	55	73	62	55	70	63	54	47
1.25	81	70	63	80	70	62	77	68	62	54
1.50	86	76	69	84	75	68	81	73	67	59
2.00	93	84	77	91	83	77	87	80	75	67
2.50	97	89	83	95	87	82	91	85	80	71
3.00	101	93	87	98	92	86	94	88	84	75
4.00	105	99	94	102	97	92	98	93	89	80
5.00	107	102	98	105	100	96	100	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:

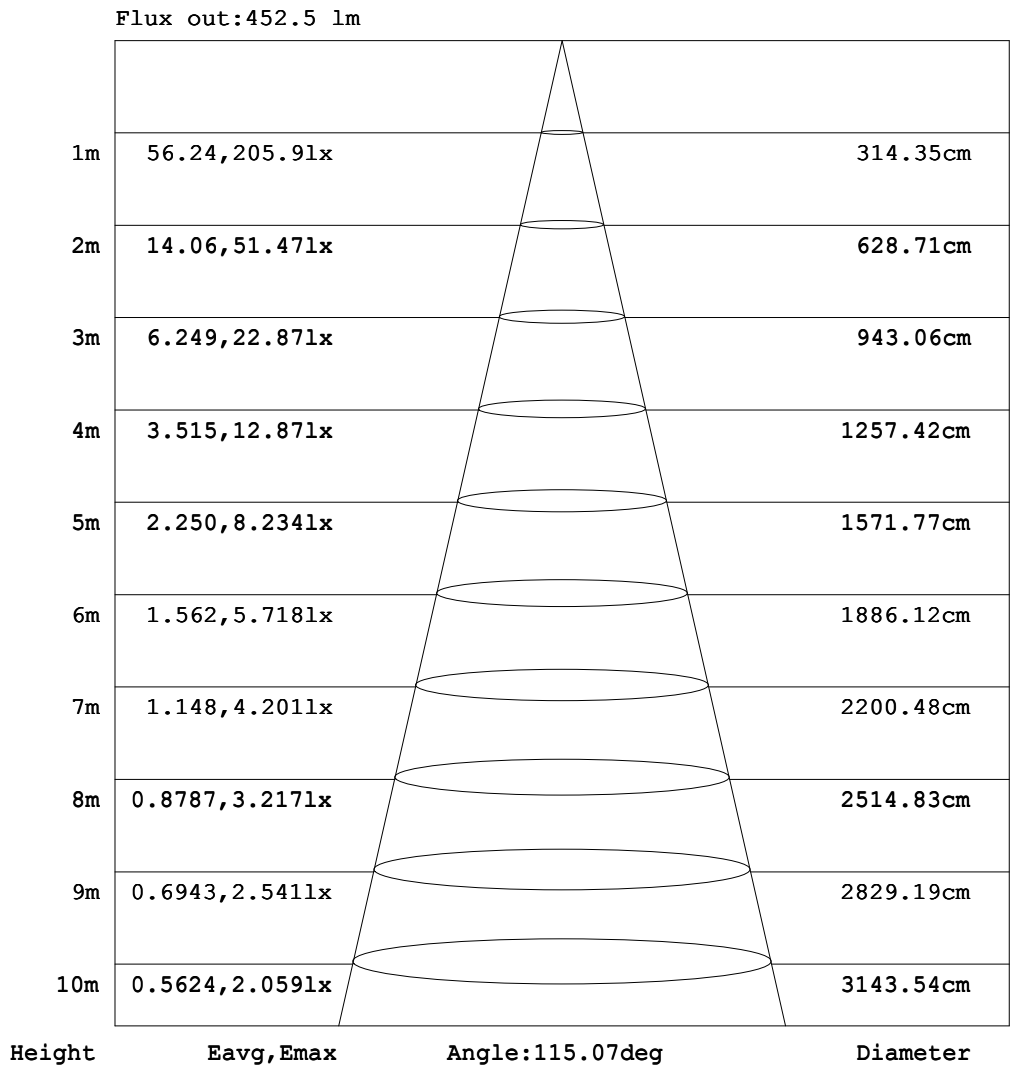


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:



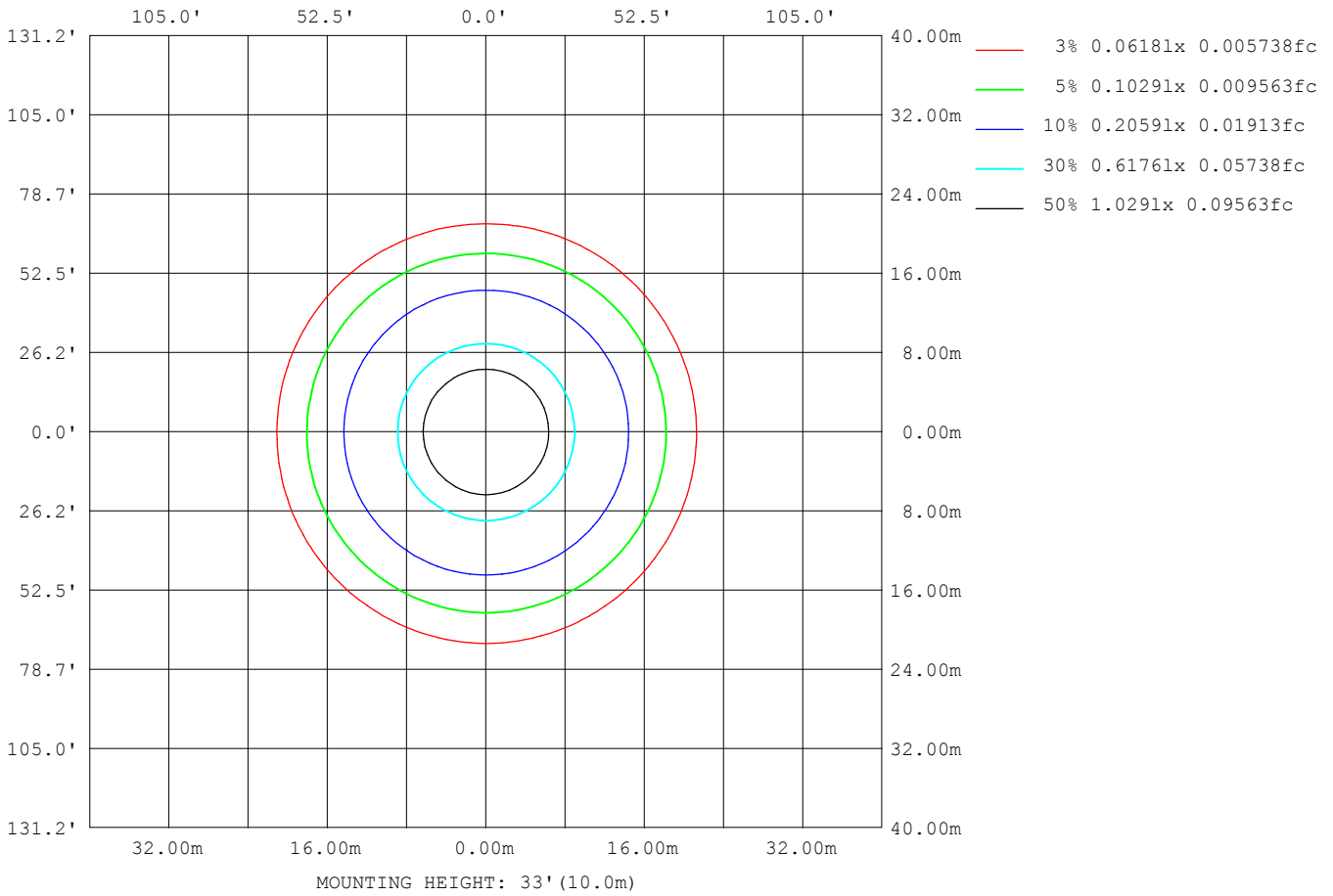
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.692m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0%		Lamp Flux:629.046x1 lm
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:

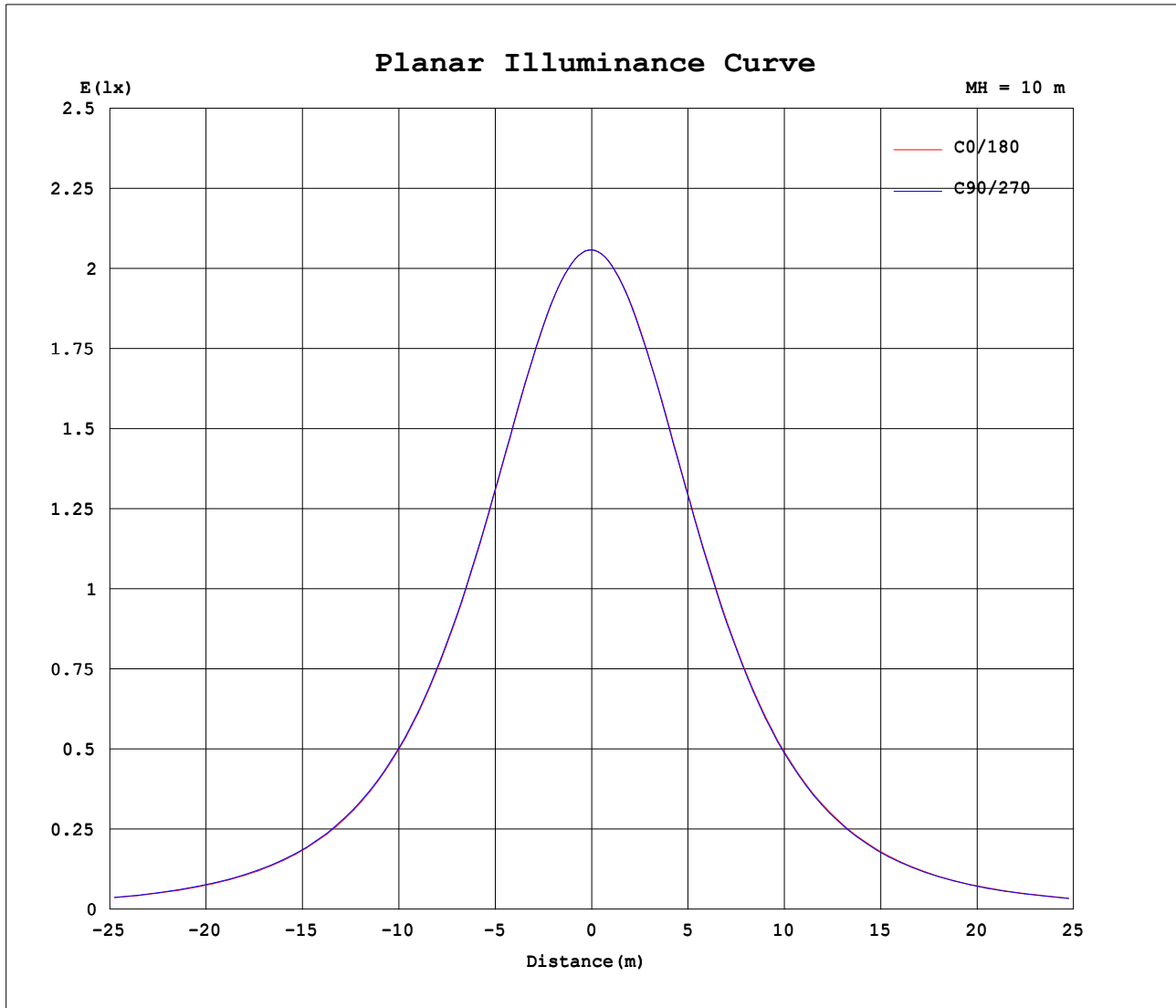
AvgL	cd/m2
L_0~180 (65) av	3143
L_0~180 (75) av	2947
L_0~180 (85) av	3207
L_90~270 (65) av	3148
L_90~270 (75) av	2958
L_90~270 (85) av	3300
L_45 (65) av	3142
L_45 (75) av	2949
L_45 (85) av	3255

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.22V I:0.0322A P:5.7631W PF:0.7773 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:629.046x1 lm		
NAME: AL117-11-6W-3000K	TYPE: 6W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.059	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	206	206	206	206															
5	205	205	205	205															
10	203	203	202	202															
15	198	199	198	197															
20	193	193	191	191															
25	185	186	184	183															
30	176	177	175	174															
35	166	167	164	163															
40	154	155	152	151															
45	141	143	139	138															
50	127	129	125	124															
55	112	114	110	108															
60	96.3	97.9	93.7	92.3															
65	79.7	81.3	77.1	75.6															
70	62.8	64.5	60.2	58.8															
75	46.2	47.9	43.8	42.4															
80	30.7	32.3	28.5	27.4															
85	17.3	18.9	15.7	15.1															
90	7.92	9.51	7.09	7.50															
95	4.99	5.69	4.49	4.97															
100	3.30	2.87	2.78	3.41															
105	2.59	1.24	1.98	2.01															
110	2.38	1.37	0.75	1.07															
115	2.00	1.56	1.12	1.17															
120	1.49	1.17	1.44	1.32															
125	1.05	1.22	1.01	1.12															
130	1.18	1.48	1.17	1.27															
135	1.39	1.81	1.36	1.46															
140	1.65	1.74	1.56	1.67															
145	1.65	1.66	1.57	1.62															
150	1.63	1.59	1.57	1.43															
155	1.56	1.57	1.49	1.42															
160	1.46	1.56	1.49	1.49															
165	1.56	1.56	1.52	1.53															
170	1.57	1.59	1.57	1.56															
175	1.59	1.61	1.61	1.57															
180	1.63	1.61	1.62	1.60															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks: