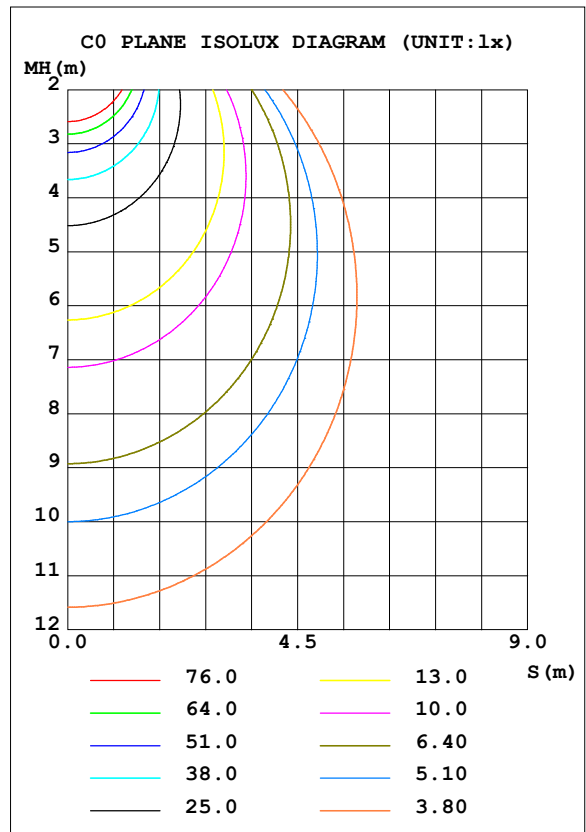
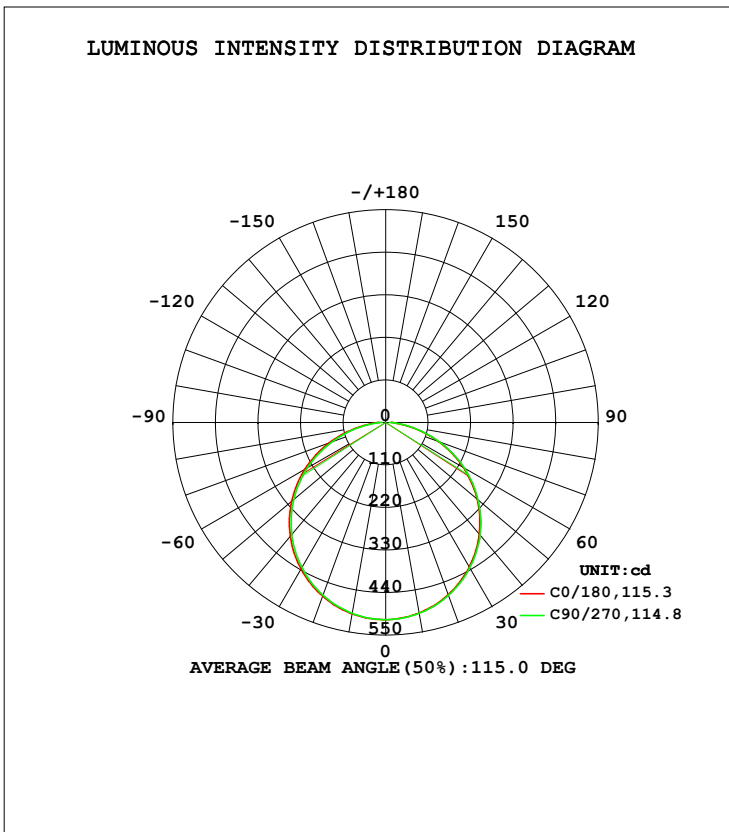


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:1633.45x1 lm		
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.53 lm/W			
MODEL	AL117-14-15W-3000K	I _{max} (cd)	510.0	S/MH (C0/180)	1.28
NOMINAL POWER (W)	15	LOR (%)	92.3	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	200-240	TOTAL FLUX (lm)	1507.5	η UP, DN (C0-180)	0.0, 45.9
NOMINAL FLUX (lm)	1633.45	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	92.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-09-10

γ Range: 0 - 90DEG
 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:

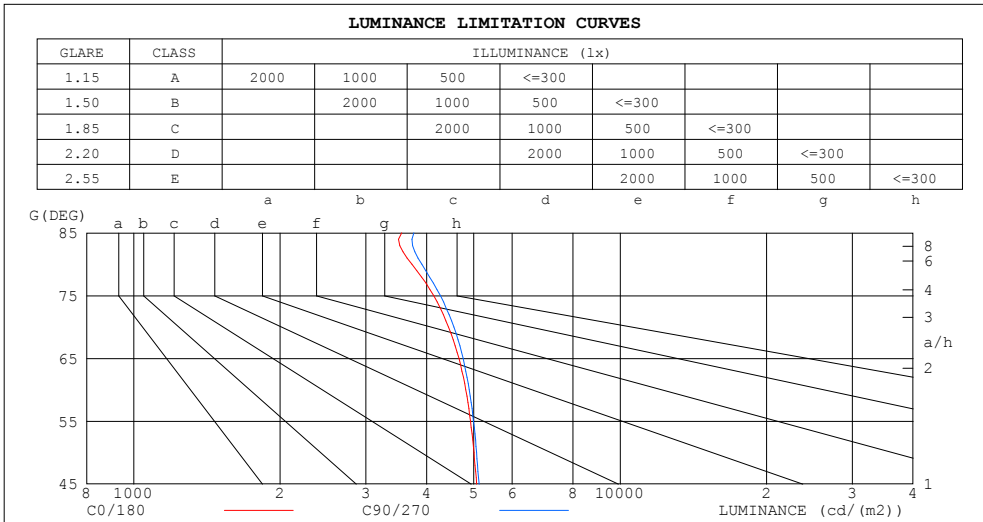
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	500.3	501.4	502.3	500.9				0- 10	48.26	48.26	3.2,2.95
20	473.8	476.0	477.9	475.0				10- 20	138.5	186.7	12.4,11.4
30	432.1	435.0	437.9	433.3				20- 30	210.7	397.4	26.4,24.3
40	376.6	380.2	384.1	378.1				30- 40	255.7	653.1	43.3,40
50	309.0	312.7	317.5	310.3				40- 50	268.0	921.1	61.1,56.4
60	231.2	234.9	240.9	232.7				50- 60	245.5	1167	77.4,71.4
70	145.7	149.5	156.5	146.9				60- 70	190.7	1357	90,83.1
80	62.26	65.20	71.48	63.06				70- 80	112.7	1470	97.5,90
90	14.20	10.37	16.07	9.900				80- 90	37.45	1507	100,92.3
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: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:1633.45x1 lm
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:	
SPEC.: 3000K	DIM.:	SERIAL No.:	
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:	



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3555	3768
80	3735	3911
75	4137	4270
70	4438	4553
65	4662	4754
60	4816	4895
55	4926	4996
50	5007	5067
45	5068	5128

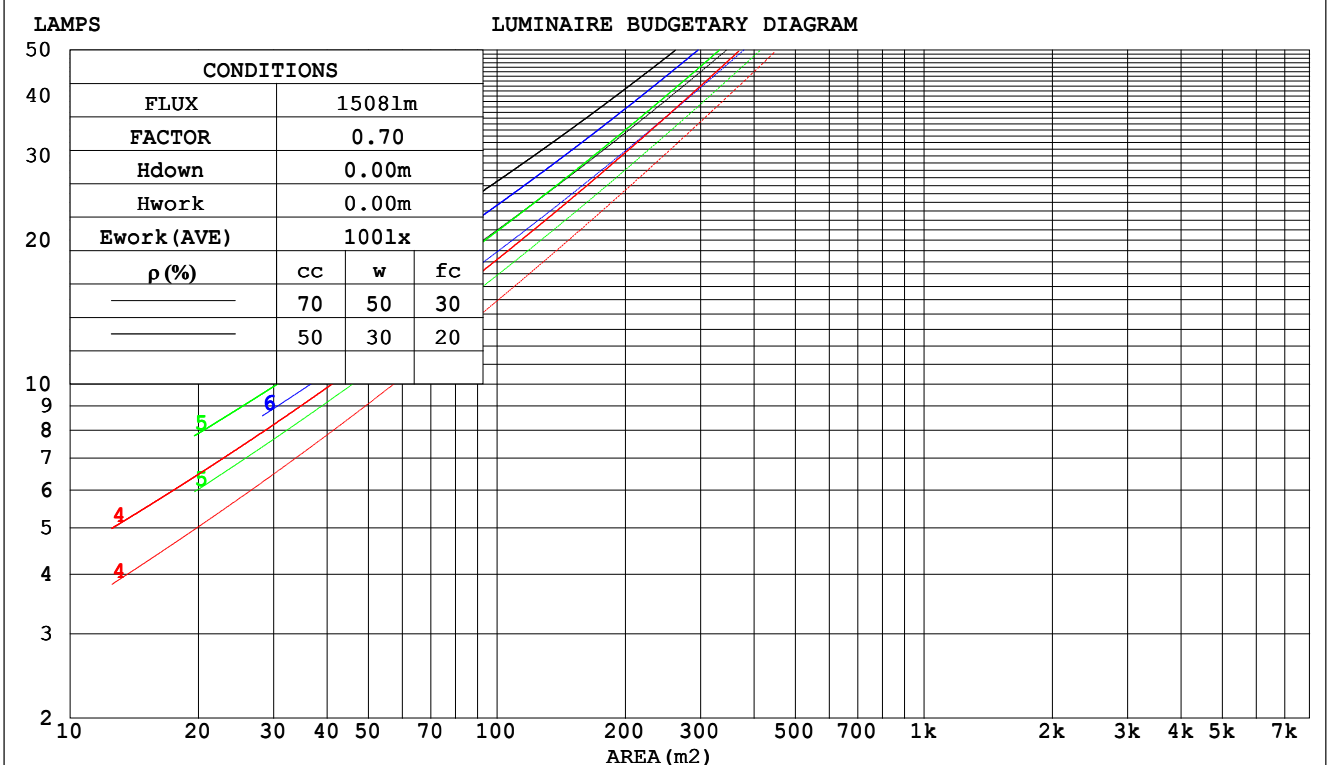
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:1633.45x1 lm		
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	pw	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	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	.98	.98	.98	.94	.94	.94	.92
1.0	.95	.91	.88	.93	.90	.86	.89	.86	.83	.86	.83	.81	.82	.80	.78	.76
2.0	.83	.76	.71	.81	.75	.70	.78	.73	.68	.75	.71	.67	.72	.68	.65	.63
3.0	.73	.65	.59	.71	.64	.58	.68	.62	.57	.66	.60	.56	.63	.59	.55	.53
4.0	.64	.56	.50	.63	.55	.49	.61	.54	.48	.58	.53	.48	.56	.51	.47	.45
5.0	.57	.49	.43	.56	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
6.0	.51	.43	.37	.51	.43	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.34
7.0	.47	.38	.33	.46	.38	.33	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
8.0	.42	.35	.29	.42	.34	.29	.41	.34	.29	.39	.33	.29	.38	.33	.28	.27
9.0	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.35	.30	.26	.24
10.0	.36	.29	.24	.35	.28	.24	.35	.28	.23	.34	.28	.23	.33	.27	.23	.22



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:1633.45x1 lm		
NAME: AL117-14-15W-3000K		TYPE: 15W		WEIGHT:	
SPEC.: 3000K		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.: D0.35		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	.295	.168	.053	.289	.165	.052	.276	.158	.051	.265	.153	.049	.255	.148	.048	
2.0	.275	.151	.046	.269	.148	.046	.259	.144	.045	.249	.139	.044	.239	.135	.043	
3.0	.254	.135	.040	.248	.133	.040	.239	.129	.039	.230	.126	.039	.222	.123	.038	
4.0	.233	.121	.036	.229	.120	.035	.220	.117	.035	.212	.114	.034	.205	.111	.034	
5.0	.215	.110	.032	.211	.108	.032	.204	.106	.031	.197	.104	.031	.190	.102	.031	
6.0	.199	.100	.029	.196	.099	.028	.189	.097	.028	.183	.095	.028	.177	.093	.028	
7.0	.185	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.165	.086	.025	
8.0	.173	.084	.024	.170	.084	.024	.165	.082	.023	.160	.081	.023	.155	.079	.023	
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.150	.075	.022	.146	.074	.021	
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.020	

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	.176	.176	.176	.150	.150	.150	.103	.103	.103	.059	.059	.059	.019	.019	.019	
1.0	.167	.144	.123	.143	.124	.106	.098	.085	.073	.056	.049	.043	.018	.016	.014	
2.0	.160	.122	.090	.137	.105	.078	.094	.072	.054	.054	.042	.032	.017	.014	.010	
3.0	.153	.106	.068	.131	.091	.059	.090	.063	.041	.052	.037	.024	.017	.012	.008	
4.0	.146	.093	.053	.125	.081	.046	.086	.056	.033	.050	.033	.019	.016	.011	.006	
5.0	.139	.084	.043	.119	.072	.038	.082	.051	.026	.048	.030	.016	.015	.010	.005	
6.0	.132	.076	.036	.113	.066	.031	.078	.046	.022	.045	.027	.013	.015	.009	.004	
7.0	.126	.070	.030	.108	.060	.026	.075	.042	.019	.043	.025	.011	.014	.008	.004	
8.0	.120	.064	.026	.103	.056	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
9.0	.114	.060	.023	.098	.052	.020	.068	.036	.014	.040	.022	.009	.013	.007	.003	
10.0	.109	.056	.021	.094	.048	.018	.065	.034	.013	.038	.020	.008	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0%		Lamp Flux:1633.45x1 lm
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	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	18.4	20.0	18.7	20.2	20.4	18.5	20.0	18.7	20.2	20.4
3H	20.0	21.4	20.3	21.6	21.9	20.1	21.5	20.4	21.7	22.0
4H	20.6	21.9	20.9	22.2	22.5	20.7	22.1	21.0	22.3	22.6
6H	21.0	22.3	21.4	22.6	22.9	21.2	22.4	21.5	22.7	23.0
8H	21.2	22.4	21.5	22.7	23.0	21.3	22.6	21.7	22.8	23.1
12H	21.3	22.5	21.6	22.8	23.1	21.4	22.6	21.8	22.9	23.2
4H 2H	19.0	20.4	19.4	20.7	20.9	19.1	20.5	19.4	20.7	21.0
3H	20.8	22.0	21.1	22.3	22.6	20.9	22.1	21.2	22.3	22.7
4H	21.5	22.6	21.9	22.9	23.3	21.6	22.7	22.0	23.0	23.4
6H	22.1	23.1	22.5	23.4	23.8	22.2	23.2	22.6	23.5	23.9
8H	22.3	23.2	22.7	23.6	24.0	22.4	23.3	22.9	23.7	24.1
12H	22.5	23.3	22.9	23.7	24.1	22.6	23.4	23.0	23.8	24.2
8H 4H	21.8	22.7	22.2	23.1	23.5	21.9	22.8	22.3	23.2	23.6
6H	22.5	23.3	23.0	23.7	24.1	22.6	23.4	23.1	23.8	24.2
8H	22.8	23.5	23.3	23.9	24.4	23.0	23.6	23.4	24.1	24.5
12H	23.1	23.7	23.6	24.1	24.6	23.2	23.8	23.7	24.2	24.7
12H 4H	21.8	22.7	22.3	23.1	23.5	21.9	22.7	22.3	23.1	23.5
6H	22.6	23.3	23.1	23.7	24.2	22.7	23.4	23.2	23.8	24.3
8H	22.9	23.5	23.4	24.0	24.5	23.1	23.6	23.5	24.1	24.6
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	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1633 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.7)
 Area: 0.096 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0%			Lamp Flux:1633.45x1 lm
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:	
SPEC.: 3000K	DIM.:	SERIAL No.:	
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:	

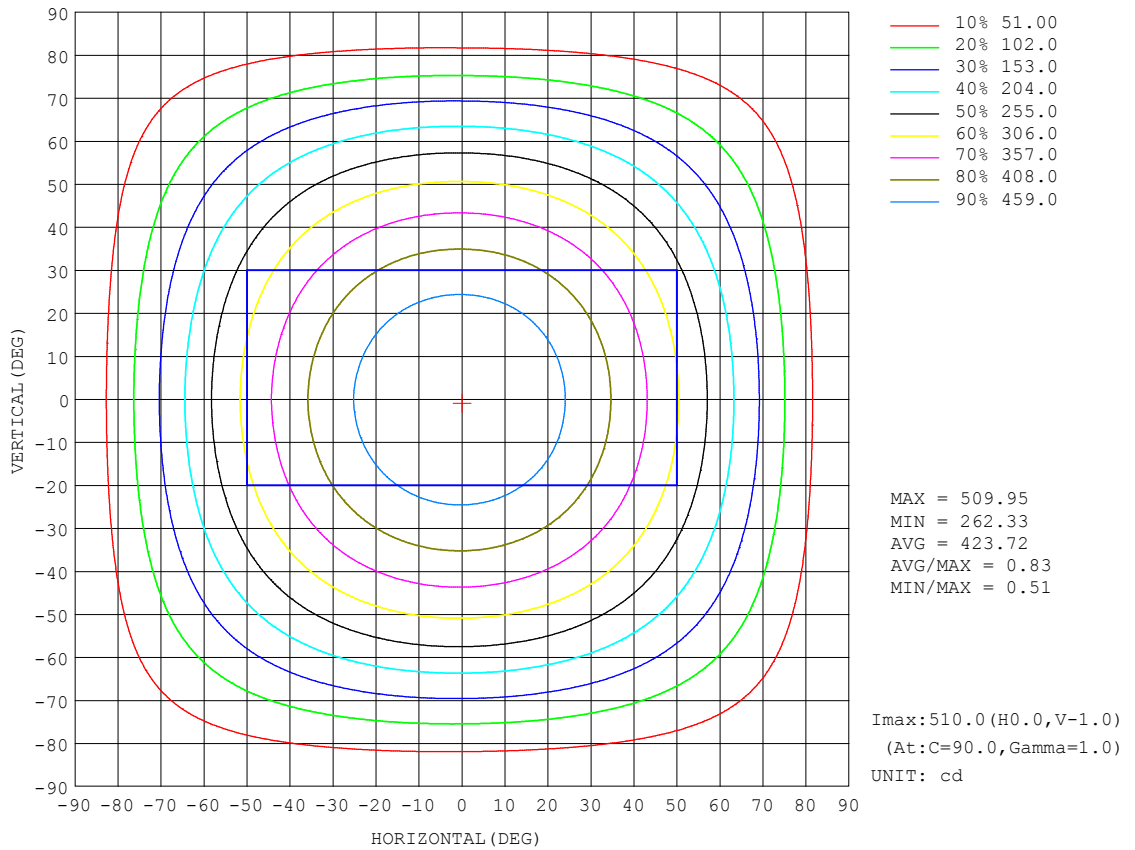
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	42	35	52	41	35	51	41	35	29
0.80	62	51	44	61	50	44	59	50	43	37
1.00	69	59	52	68	58	52	66	60	51	45
1.25	76	66	59	75	65	59	72	64	58	51
1.50	81	71	65	79	70	64	76	69	63	56
2.00	87	79	73	85	78	72	82	76	71	63
2.50	91	83	78	89	82	77	85	80	75	67
3.00	94	87	82	92	86	81	88	83	79	71
4.00	98	92	88	95	91	86	91	87	84	76
5.00	100	95	91	98	94	90	93	90	87	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:1633.45x1 lm		
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:

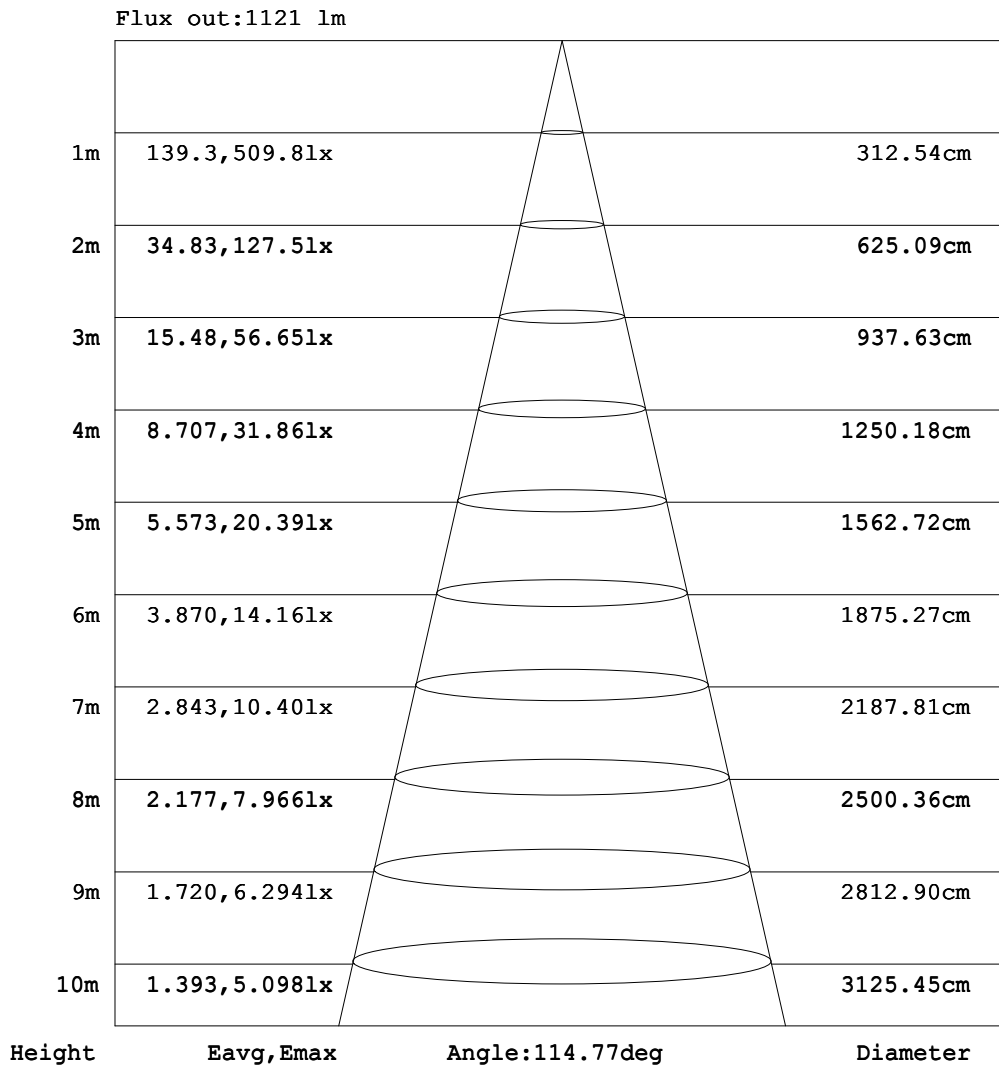


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:1633.45x1 lm		
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:



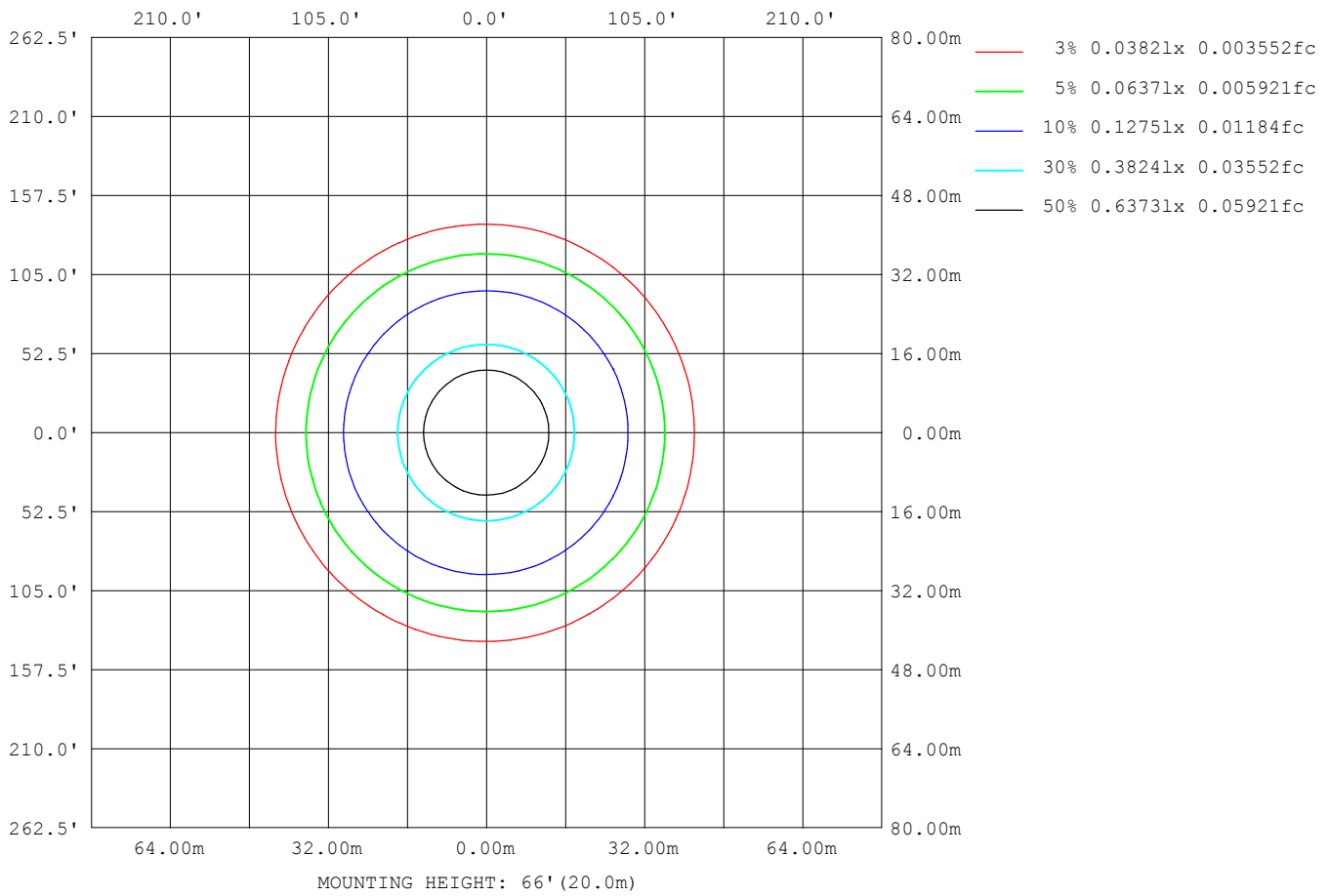
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0%		Lamp Flux:1633.45x1 lm
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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:230.15V I:0.0681A P:14.703W PF:0.9376 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:1633.45x1 lm		
NAME: AL117-14-15W-3000K	TYPE: 15W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: D0.35	Shielding Angle:

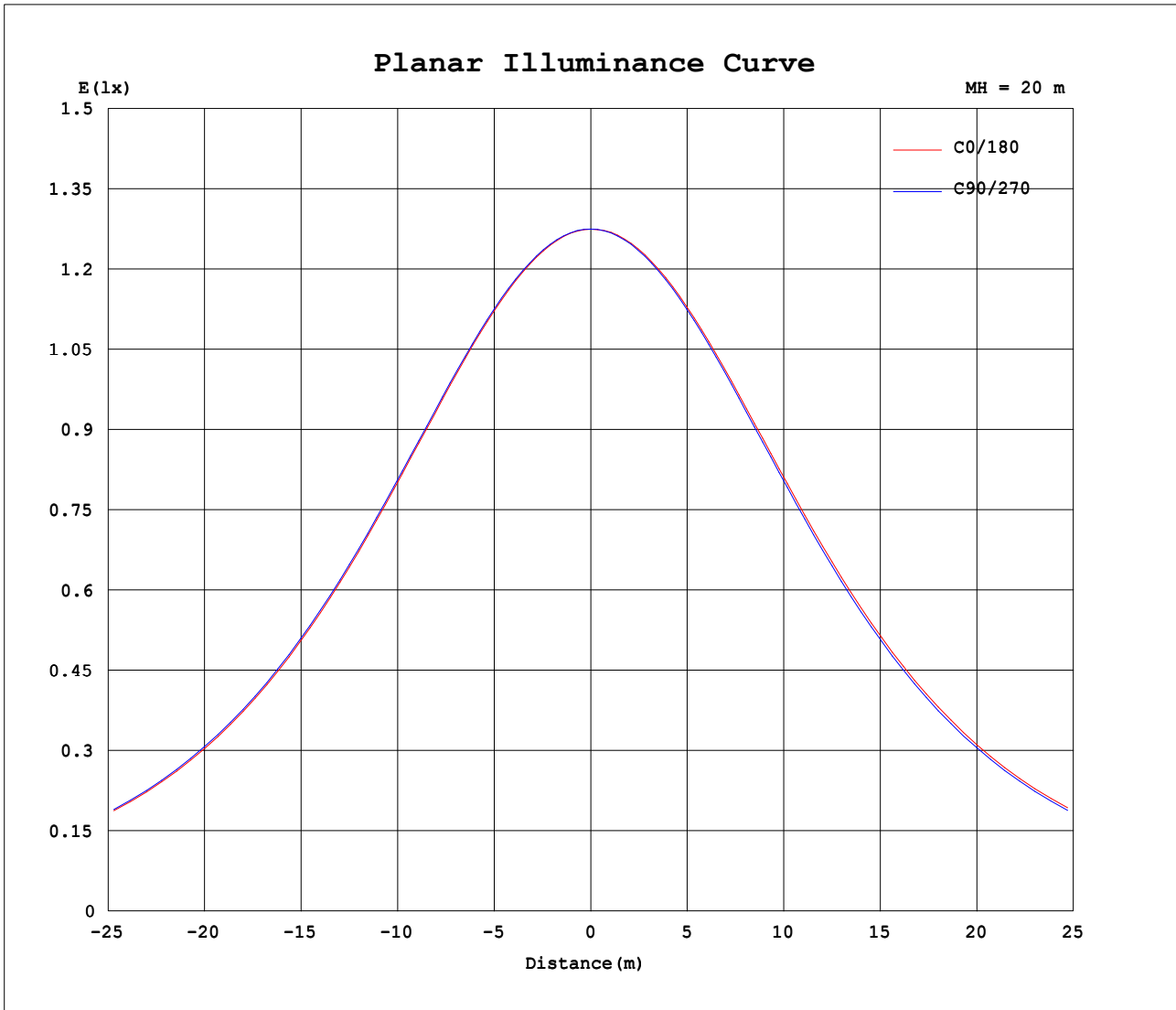
AvgL	cd/m2
L_0~180 (65) av	4789
L_0~180 (75) av	4350
L_0~180 (85) av	3932
L_90~270 (65) av	4724
L_90~270 (75) av	4223
L_90~270 (85) av	3669
L_45 (65) av	4756
L_45 (75) av	4284
L_45 (85) av	3792

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 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: 2020-09-10

γ Range: 0 - 90DEG
 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:

