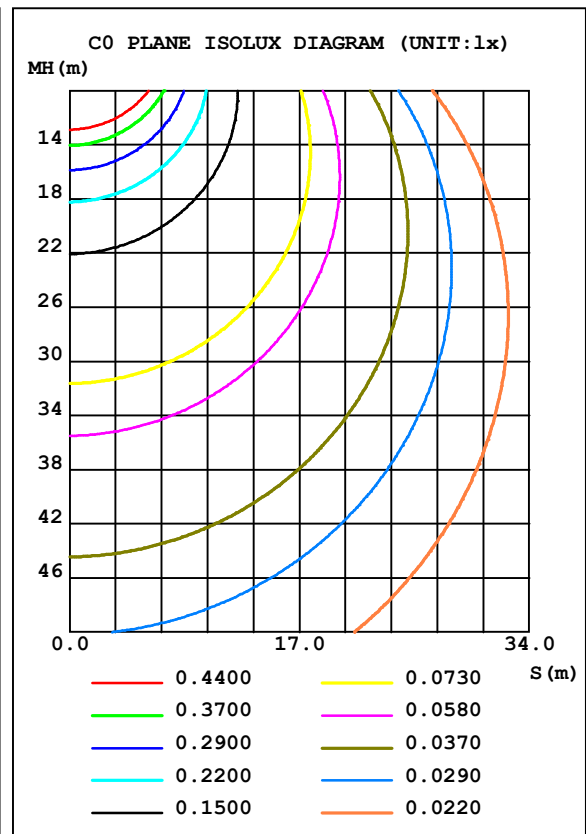
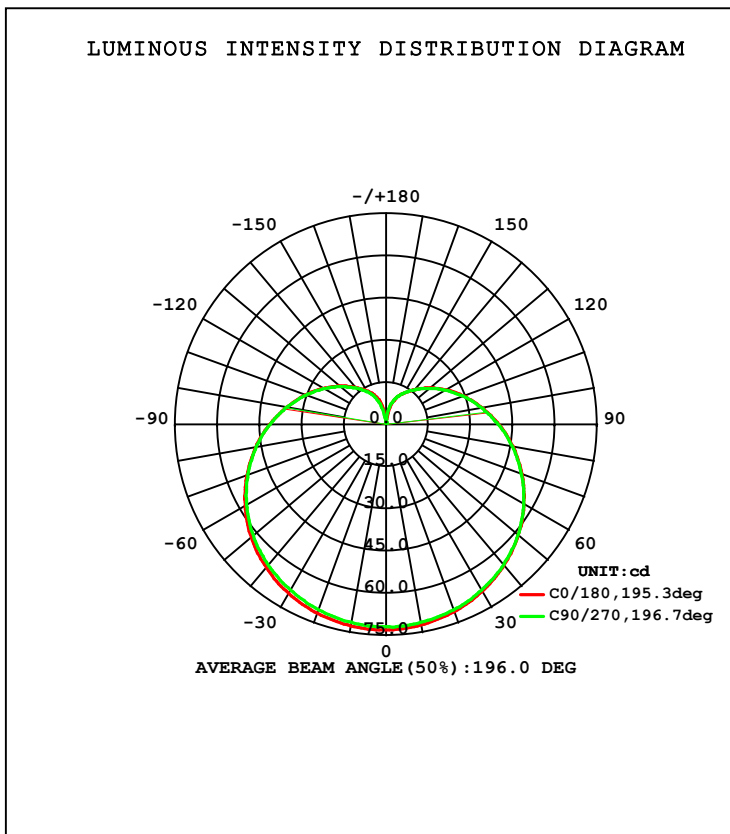


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.59 lm/W			
MODEL	A60	I <sub>max</sub> (cd)	73.14	S/MH (C0/180)	1.41
NOMINAL POWER (W)	6	LOR (%)	107.7	S/MH (C90/270)	1.42
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	511.39	η UP, DN (C0-180)	16.1, 37.3
NOMINAL FLUX (lm)	474.929	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	16.5, 37.7
LAMPS INSIDE	1	η up (%)	32.6	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	230.1	η down (%)	75.0	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	72.40	71.95	71.54	71.11	72.73	72.12	71.51	70.82	0- 10	6.875	6.875	1.34,1.45
20	70.87	70.60	70.23	69.86	71.49	70.93	70.22	69.33	10- 20	20.16	27.03	5.29,5.69
30	68.54	68.46	68.01	67.71	69.41	68.96	68.07	67.03	20- 30	32.10	59.13	11.6,12.5
40	65.37	65.50	65.12	64.75	66.44	66.19	65.29	64.07	30- 40	41.97	101.1	19.8,21.3
50	61.39	61.64	61.26	60.91	62.59	62.54	61.70	60.20	40- 50	49.14	150.2	29.4,31.6
60	56.63	56.91	56.57	56.26	57.92	58.19	57.31	55.63	50- 60	53.14	203.4	39.8,42.8
70	51.37	51.56	51.24	51.02	52.65	52.92	52.30	50.55	60- 70	53.92	257.3	50.3,54.2
80	45.80	45.90	45.60	45.49	47.06	47.49	46.88	45.20	70- 80	51.77	309.1	60.4,65.1
90	40.19	40.25	39.97	39.96	41.39	41.85	41.32	39.75	80- 90	47.32	356.4	69.7,75
100	34.74	34.74	34.49	34.59	35.89	36.32	35.83	34.40	90-100	41.29	397.7	77.8,83.7
110	29.55	29.51	29.36	29.48	30.67	30.98	30.55	29.31	100-110	34.40	432.1	84.5,91
120	24.68	24.65	24.46	24.74	25.78	25.98	25.55	24.53	110-120	27.29	459.4	89.8,96.7
130	20.25	20.22	20.14	20.40	21.30	21.40	20.98	20.14	120-130	20.49	479.9	93.8,101
140	16.31	16.31	16.27	16.57	17.29	17.29	16.95	16.22	130-140	14.43	494.3	96.7,104
150	12.90	12.96	12.99	13.23	13.85	13.73	13.39	12.84	140-150	9.404	503.7	98.5,106
160	9.539	9.690	9.859	10.18	10.55	10.14	9.426	8.732	150-160	5.409	509.1	99.6,107
170	4.047	4.091	4.852	5.500	5.440	3.358	1.870	1.836	160-170	2.127	511.2	100,108
180	0.6185	0.6033	0.6134	0.6084	0.6236	0.6134	0.5881	0.6033	170-180	0.1688	511.4	100,108
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

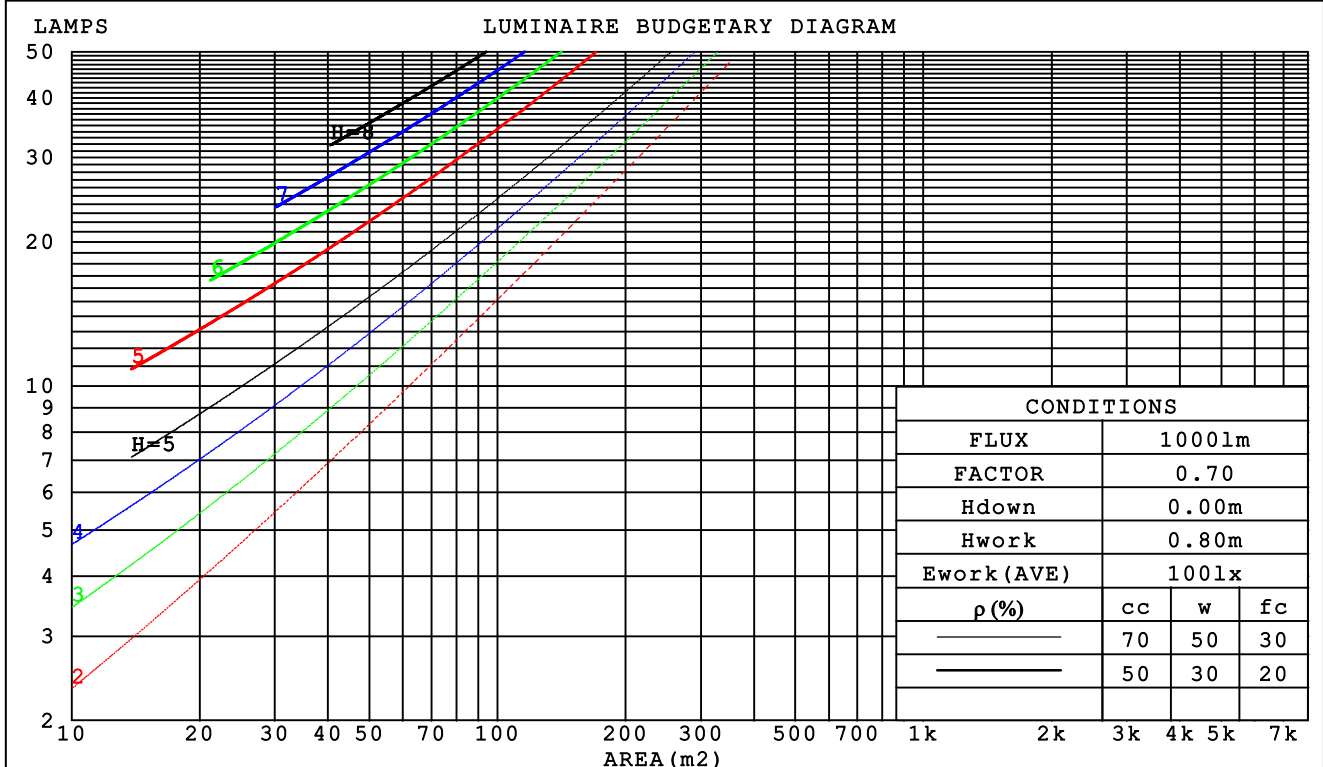
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2013-03-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION 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						Coefficients of Utilization(CU)									
0.0	1.20	1.20	1.20	1.14	1.14	1.14	1.02	1.02	1.02	.90	.90	.90	.80	.80	.80	.75
1.0	.98	.92	.87	.93	.87	.82	.82	.78	.74	.72	.69	.66	.63	.60	.58	.53
2.0	.83	.75	.67	.78	.71	.64	.69	.63	.57	.61	.56	.51	.53	.49	.45	.41
3.0	.72	.62	.54	.68	.59	.51	.60	.52	.46	.52	.46	.41	.45	.41	.37	.33
4.0	.63	.52	.45	.59	.50	.42	.52	.44	.38	.46	.39	.34	.40	.35	.30	.27
5.0	.55	.45	.37	.52	.43	.36	.46	.38	.32	.41	.34	.29	.35	.30	.26	.23
6.0	.49	.39	.32	.47	.37	.31	.41	.34	.28	.36	.30	.25	.32	.26	.22	.19
7.0	.44	.35	.28	.42	.33	.27	.37	.30	.24	.33	.27	.22	.29	.24	.19	.17
8.0	.40	.31	.24	.38	.29	.23	.34	.27	.21	.30	.24	.19	.26	.21	.17	.15
9.0	.37	.28	.22	.35	.26	.21	.31	.24	.19	.28	.21	.17	.24	.19	.15	.13
10.0	.34	.25	.19	.32	.24	.18	.29	.22	.17	.26	.20	.15	.23	.17	.14	.12



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

WEC AND CCEC

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0														
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients (WEC)														
0.0																														
1.0	.441	.251	.079	.423	.242	.077	.390	.224	.071	.360	.207	.067	.331	.192	.062															
2.0	.373	.204	.063	.357	.196	.061	.326	.182	.056	.299	.167	.052	.273	.154	.049															
3.0	.327	.174	.052	.312	.167	.050	.285	.154	.047	.259	.142	.044	.236	.130	.040															
4.0	.292	.152	.045	.279	.146	.043	.253	.134	.040	.230	.124	.037	.208	.113	.034															
5.0	.264	.134	.039	.252	.129	.038	.229	.119	.035	.207	.109	.033	.187	.100	.030															
6.0	.241	.121	.035	.230	.116	.033	.209	.107	.031	.189	.098	.029	.170	.090	.027															
7.0	.221	.109	.031	.211	.105	.030	.192	.097	.028	.174	.089	.026	.156	.081	.024															
8.0	.205	.100	.028	.195	.096	.027	.177	.089	.025	.161	.081	.023	.145	.074	.022															
9.0	.190	.092	.026	.182	.089	.025	.165	.082	.023	.149	.075	.021	.135	.068	.020															
10.0	.178	.085	.024	.170	.082	.023	.154	.076	.021	.140	.069	.020	.126	.063	.018															

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0														
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Ceiling Cavity Exitance Coefficients (CCEC)														
0.0	.454	.454	.454	.388	.388	.388	.265	.265	.265	.152	.152	.152	.049	.049	.049															
1.0	.452	.418	.387	.387	.359	.333	.265	.247	.230	.152	.143	.134	.049	.046	.043															
2.0	.446	.394	.351	.382	.339	.303	.262	.235	.212	.151	.137	.124	.048	.044	.040															
3.0	.438	.377	.329	.375	.325	.285	.258	.226	.200	.149	.132	.118	.048	.043	.039															
4.0	.430	.364	.314	.369	.315	.273	.253	.219	.192	.147	.128	.114	.047	.042	.037															
5.0	.421	.354	.304	.362	.306	.265	.249	.214	.187	.144	.126	.111	.047	.041	.037															
6.0	.413	.346	.297	.355	.299	.259	.245	.210	.183	.142	.123	.109	.046	.040	.036															
7.0	.406	.339	.292	.349	.294	.254	.241	.206	.180	.140	.121	.107	.045	.040	.035															
8.0	.398	.333	.288	.343	.289	.251	.237	.203	.178	.138	.120	.106	.045	.039	.035															
9.0	.392	.328	.285	.337	.285	.249	.234	.200	.176	.136	.118	.105	.044	.039	.035															
10.0	.385	.324	.282	.332	.281	.246	.231	.198	.175	.134	.117	.104	.044	.038	.035															

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

NAME: A60塑料6W		TYPE:					WEIGHT:				
DIM.:		SPEC.:					SERIAL No.:				
MFR.: MK		SUR.:					PROTECTION 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		15.3	16.6	16.0	17.3	18.1	15.3	16.6	16.0	17.3	18.1
	3H	18.1	19.2	18.8	20.0	20.8	18.1	19.2	18.8	19.9	20.8
	4H	19.6	20.7	20.3	21.4	22.3	19.6	20.7	20.3	21.4	22.3
	6H	21.3	22.3	22.0	23.1	24.0	21.3	22.3	22.0	23.1	24.0
	8H	22.2	23.3	23.0	24.0	24.9	22.2	23.2	23.0	24.0	24.9
	12H	23.3	24.3	24.1	25.1	26.0	23.3	24.3	24.0	25.0	25.9
	4H 2H	16.2	17.3	16.9	18.0	18.9	16.2	17.3	16.9	18.0	18.9
	3H	19.1	20.1	19.9	20.9	21.8	19.1	20.1	19.9	20.9	21.8
	4H	20.8	21.7	21.6	22.5	23.4	20.8	21.7	21.6	22.5	23.4
	6H	22.7	23.5	23.5	24.3	25.2	22.7	23.5	23.4	24.3	25.2
	8H	23.7	24.5	24.5	25.3	26.3	23.7	24.4	24.5	25.3	26.2
	12H	24.9	25.6	25.7	26.4	27.4	24.9	25.6	25.7	26.4	27.4
	8H 4H	21.4	22.2	22.2	23.0	24.0	21.4	22.2	22.2	23.0	24.0
	6H	23.6	24.2	24.4	25.1	26.1	23.6	24.2	24.4	25.0	26.1
	8H	24.8	25.4	25.7	26.2	27.3	24.8	25.4	25.6	26.2	27.3
	12H	26.2	26.7	27.1	27.6	28.7	26.2	26.7	27.1	27.6	28.6
	12H 4H	21.6	22.3	22.4	23.1	24.1	21.6	22.3	22.4	23.1	24.1
	6H	23.9	24.4	24.7	25.3	26.3	23.9	24.4	24.7	25.3	26.3
	8H	25.2	25.7	26.1	26.6	27.6	25.2	25.7	26.1	26.6	27.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 474.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.6)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:

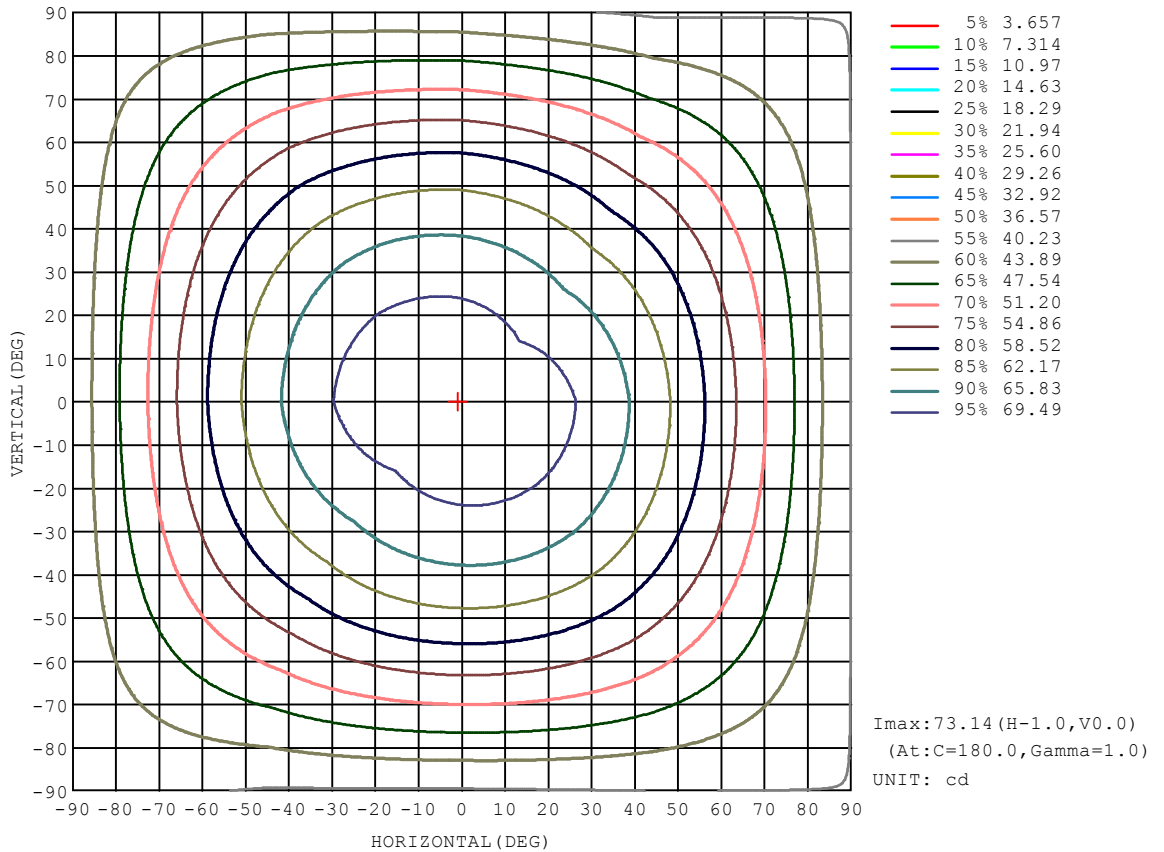
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	24	44	31	24	41	30	23	15
0.80	55	40	31	53	39	31	49	37	29	20
1.00	63	48	39	60	47	38	55	46	36	25
1.25	70	56	46	67	54	45	61	50	42	30
1.50	76	62	52	72	59	50	66	55	47	34
2.00	84	71	61	80	68	59	72	62	55	40
2.50	89	77	68	85	74	65	76	67	60	43
3.00	93	82	73	89	78	70	79	71	65	47
4.00	99	89	81	94	85	78	84	77	71	52
5.00	102	94	87	97	89	83	86	81	75	55
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:

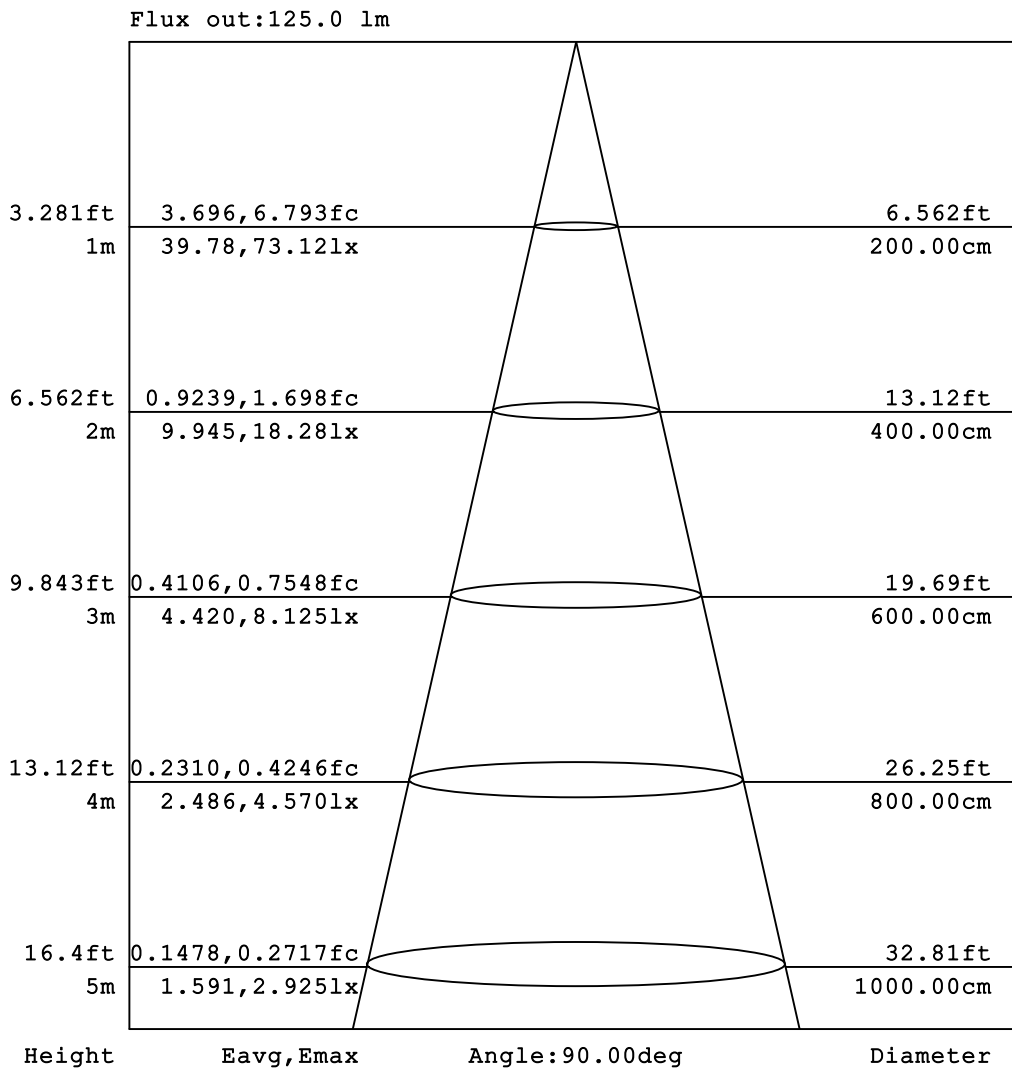


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

AAI Figure

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:



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

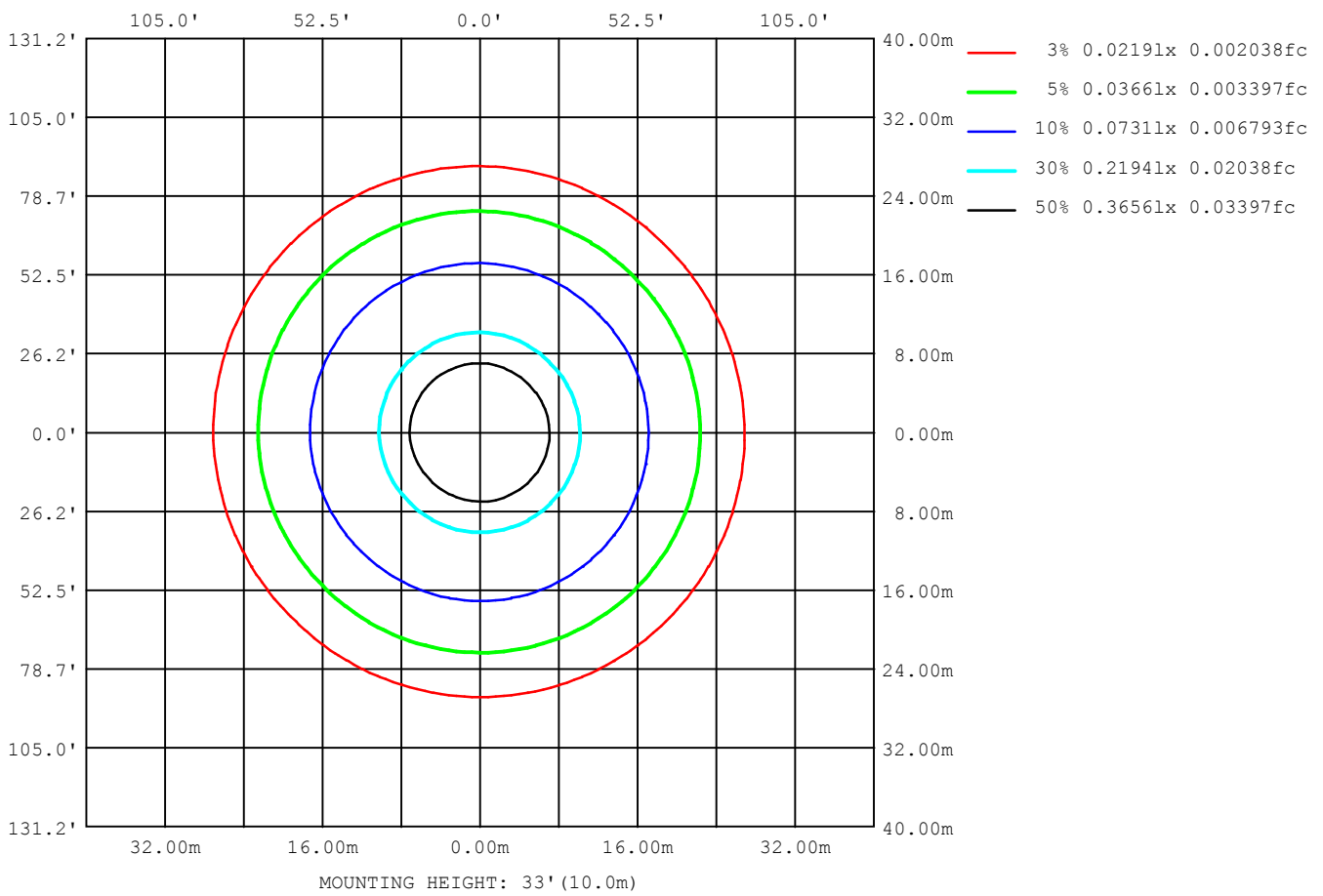
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

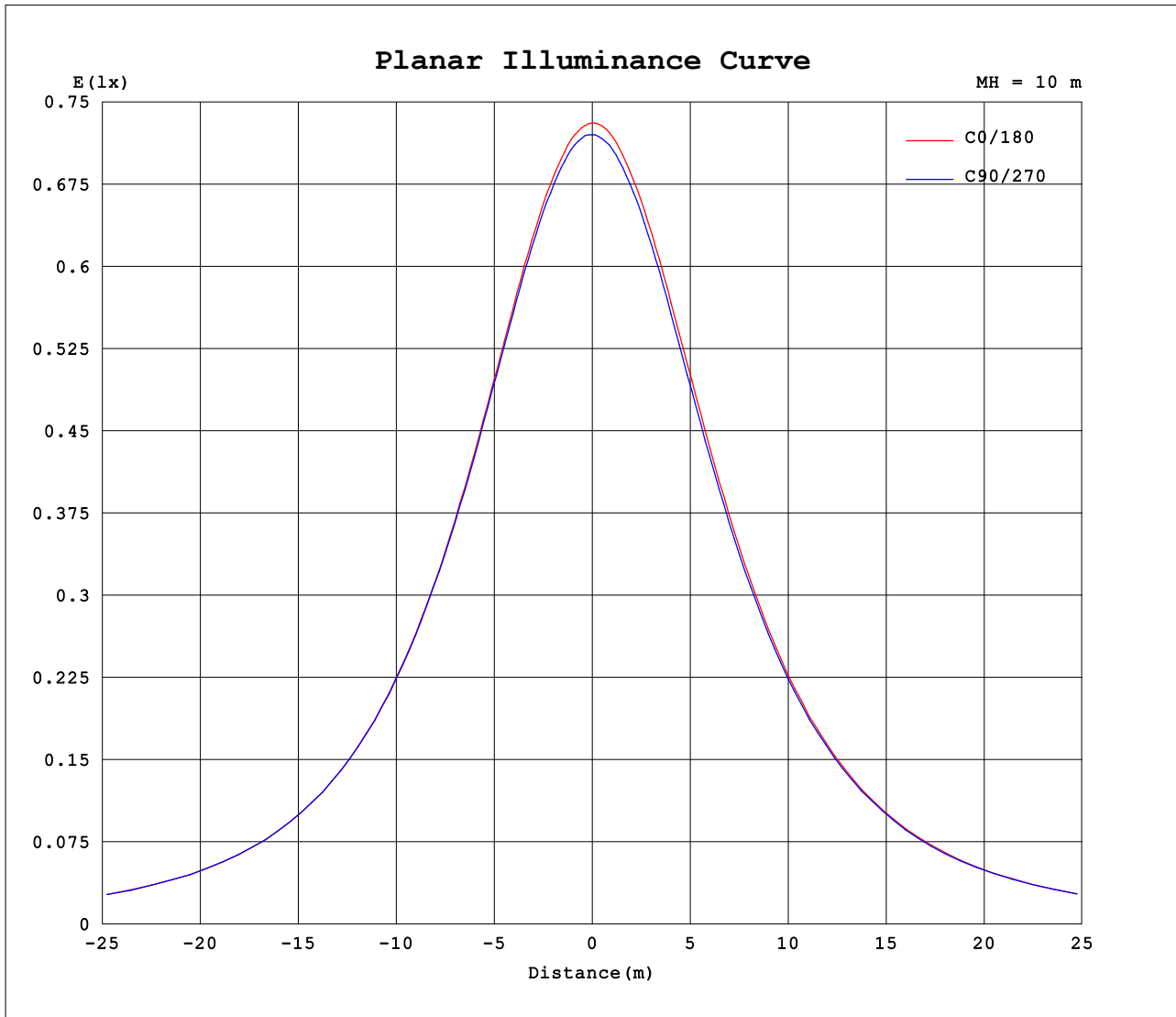
NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2013-03-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 8.920m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: A60塑料6W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MK	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	45	90	135	180	225	270	315										
0	73.1	72.5	72.0	71.5	73.1	72.5	72.0	71.5										
5	72.9	72.3	71.9	71.5	73.1	72.4	71.9	71.3										
10	72.4	71.9	71.5	71.1	72.7	72.1	71.5	70.8										
15	71.7	71.4	71.0	70.6	72.2	71.6	71.0	70.2										
20	70.9	70.6	70.2	69.9	71.5	70.9	70.2	69.3										
25	69.8	69.6	69.3	68.9	70.6	70.0	69.2	68.3										
30	68.5	68.5	68.0	67.7	69.4	69.0	68.1	67.0										
35	67.1	67.1	66.6	66.3	68.0	67.7	66.8	65.7										
40	65.4	65.5	65.1	64.7	66.4	66.2	65.3	64.1										
45	63.5	63.7	63.3	62.9	64.6	64.5	63.6	62.2										
50	61.4	61.6	61.3	60.9	62.6	62.5	61.7	60.2										
55	59.1	59.4	59.0	58.7	60.4	60.4	59.6	58.0										
60	56.6	56.9	56.6	56.3	57.9	58.2	57.3	55.6										
65	54.0	54.3	54.0	53.7	55.3	55.6	54.9	53.1										
70	51.4	51.6	51.2	51.0	52.6	52.9	52.3	50.6										
75	48.6	48.7	48.4	48.3	49.9	50.2	49.6	47.9										
80	45.8	45.9	45.6	45.5	47.1	47.5	46.9	45.2										
85	43.0	43.1	42.8	42.7	44.2	44.7	44.1	42.5										
90	40.2	40.2	40.0	40.0	41.4	41.8	41.3	39.8										
95	37.4	37.5	37.2	37.2	38.6	39.1	38.6	37.1										
100	34.7	34.7	34.5	34.6	35.9	36.3	35.8	34.4										
105	32.1	32.1	31.9	32.0	33.2	33.6	33.2	31.8										
110	29.5	29.5	29.4	29.5	30.7	31.0	30.5	29.3										
115	27.1	27.0	26.9	27.1	28.2	28.4	28.0	26.9										
120	24.7	24.7	24.5	24.7	25.8	26.0	25.5	24.5										
125	22.4	22.4	22.3	22.5	23.5	23.7	23.2	22.3										
130	20.2	20.2	20.1	20.4	21.3	21.4	21.0	20.1										
135	18.2	18.2	18.1	18.4	19.2	19.3	18.9	18.1										
140	16.3	16.3	16.3	16.6	17.3	17.3	16.9	16.2										
145	14.5	14.5	14.6	14.8	15.5	15.5	15.1	14.5										
150	12.9	13.0	13.0	13.2	13.9	13.7	13.4	12.8										
155	11.4	11.4	11.5	11.8	12.3	12.1	11.6	10.9										
160	9.54	9.69	9.86	10.2	10.5	10.1	9.43	8.73										
165	7.33	7.54	7.80	8.20	8.39	7.41	6.23	6.13										
170	4.05	4.09	4.85	5.50	5.44	3.36	1.87	1.84										
175	0.62	0.60	0.63	0.61	0.62	0.63	0.59	0.62										
180	0.62	0.60	0.61	0.61	0.62	0.61	0.59	0.60										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2013-03-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:8.920m [K=1.0000]  
 Remarks: