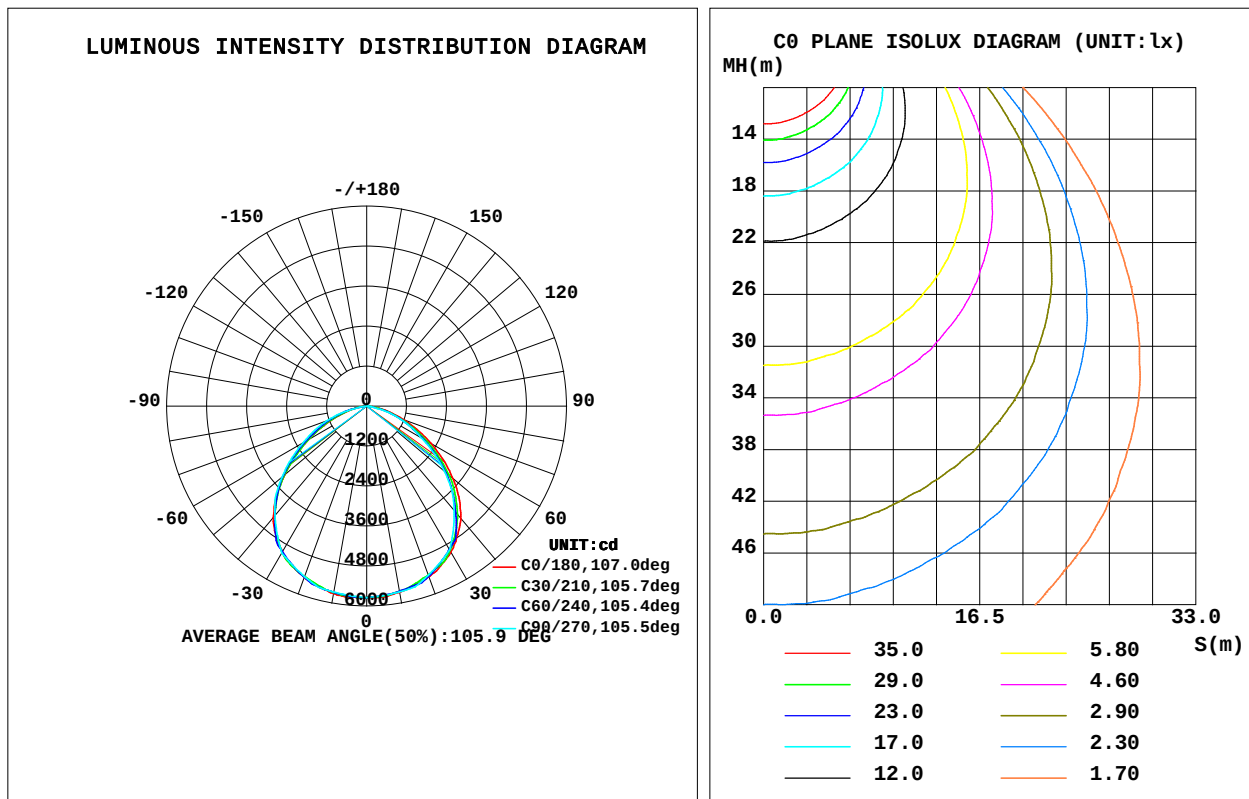


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.60 lm/W			
MODEL		I _{max} (cd)	5772	S/MH(C0/180)	1.30
NOMINAL POWER(W)	202	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	15141	η UP, DN(C0-180)	0.0, 48.9
NOMINAL FLUX(lm)	15140.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.35



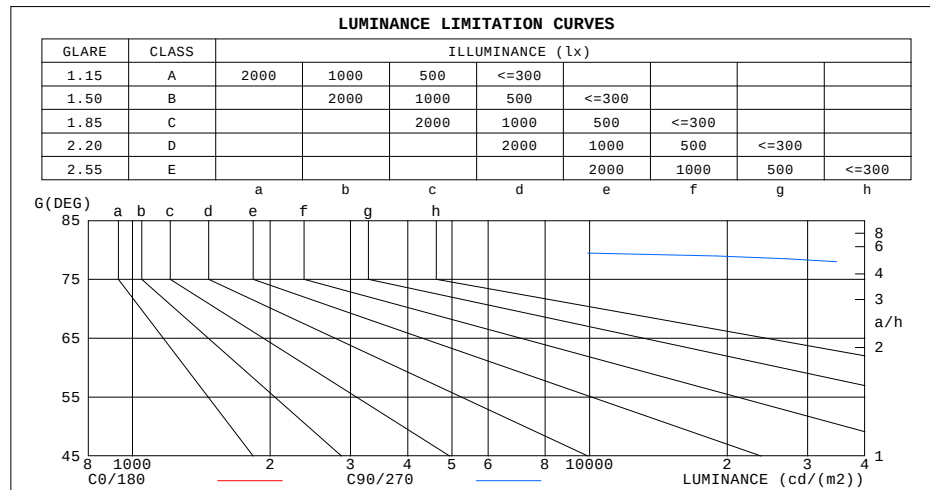
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity: 55.0%
Test Distance: 7.930m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum, lamp
5	5748	5716	5706	5710	5760	5722	5709	5730	0- 5	137.2	137.2	0.91, 0.91
10	5682	5636	5662	5671	5713	5684	5667	5655	5- 10	407.5	544.7	3.6, 3.6
15	5560	5574	5618	5574	5604	5605	5626	5576	10- 15	667.3	1212	8, 8
20	5451	5432	5407	5475	5472	5474	5448	5473	15- 20	908.9	2121	14, 14
25	5277	5216	5196	5272	5288	5282	5270	5305	20- 25	1122	3243	21.4, 21.4
30	5055	4964	4985	5011	5060	5032	5092	5067	25- 30	1303	4546	30, 30
35	4746	4642	4536	4727	4738	4734	4688	4801	30- 35	1436	5983	39.5, 39.5
40	4401	4273	4087	4345	4364	4355	4284	4497	35- 40	1503	7486	49.4, 49.4
45	3924	3696	3639	3791	3836	3801	3880	3991	40- 45	1501	8987	59.4, 59.4
50	3382	3136	3053	3210	3215	3222	3320	3481	45- 50	1428	10415	68.8, 68.8
55	2808	2577	2467	2637	2603	2660	2760	2956	50- 55	1289	11703	77.3, 77.3
60	2218	2005	1882	2047	2018	2091	2201	2376	55- 60	1103	12906	84.6, 84.6
65	1658	1468	1435	1488	1467	1540	1718	1815	60- 65	889.1	13695	90.5, 90.5
70	1156	1005	988.5	1014	979.5	1072	1236	1321	65- 70	674.0	14369	94.9, 94.9
75	734.1	628.8	541.8	640.3	582.2	685.9	753.9	889.9	70- 75	463.3	14832	98, 98
80	394.2	256.9	0	267.0	276.1	296.5	0	428.2	75- 80	245.5	15078	99.6, 99.6
85	144.8	0	0	0	40.21	0	0	0	80- 85	57.99	15136	100, 100
90	10.70	0	0	0	4.950	0	0	0	85- 90	4.747	15141	100, 100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	55361	0
80	75676	0
75	94539	69781
70	112623	96336
65	130738	113191
60	147854	125450
55	163177	143395
50	175358	158328
45	184979	171537

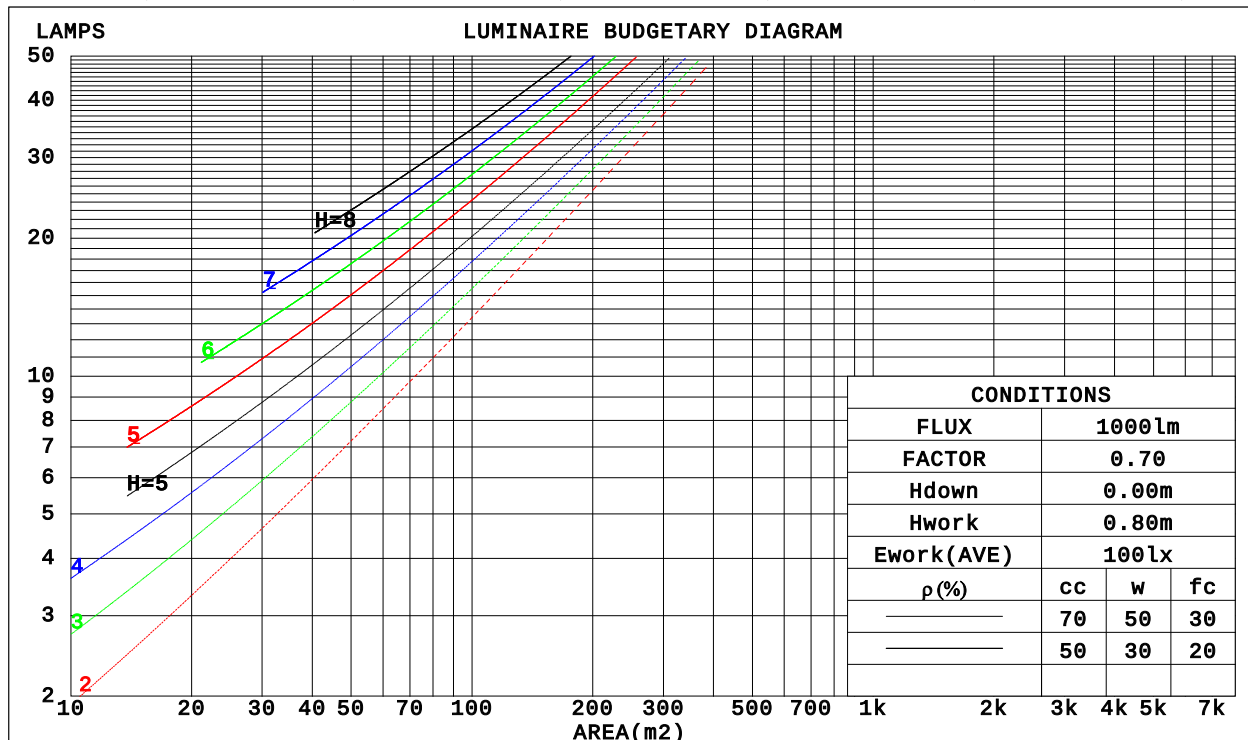
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity: 55.0%
Test Distance: 7.930m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION 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	.98	1.03	.99	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.88	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.81	.73	.68	.78	.72	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.62	.57	.67	.61	.56	.65	.60	.56	.54
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.39	.34	.32
9.0	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.5DEG
Operators:LXM
Test Date:2017-12-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:



WEC AND CCEC

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm					
NAME: 二代泛光灯 200W 6500K 黑 -1			TYPE:		WEIGHT:
DIM.:			SPEC.:		SERIAL No.:
MFR.: MEKA			SUR.:		PROTECTION 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	.277	.157	.050	.270	.154	.049	.257	.147	.047	.245	.141	.045	.234	.135	.044		
2.0	.268	.147	.045	.262	.144	.044	.251	.139	.043	.240	.135	.042	.230	.130	.041		
3.0	.252	.134	.040	.247	.132	.040	.237	.128	.039	.227	.125	.038	.219	.121	.037		
4.0	.236	.122	.036	.231	.121	.036	.222	.118	.035	.214	.115	.035	.206	.112	.034		
5.0	.220	.112	.032	.216	.111	.032	.208	.108	.032	.200	.106	.031	.193	.103	.031		
6.0	.205	.103	.029	.202	.102	.029	.194	.100	.029	.188	.098	.029	.182	.096	.028		
7.0	.192	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.171	.089	.026		
8.0	.180	.088	.025	.177	.087	.025	.171	.086	.024	.166	.084	.024	.161	.083	.024		
9.0	.169	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.152	.077	.022		
10.0	.160	.077	.021	.157	.076	.021	.153	.075	.021	.148	.074	.021	.144	.073	.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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.087	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.5DEG
Operators:LXM
Test Date:2017-12-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm											
NAME: 二代泛光灯 200W 6500K 黑 -1					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.: MEKA					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	30.3	31.7	30.6	31.9	32.1	29.8	31.2	30.0	31.4	31.6	
	3H	31.3	32.7	31.6	32.9	33.1	30.8	32.1	31.0	32.3	32.6
	4H	31.7	32.9	32.0	33.2	33.4	31.0	32.3	31.3	32.5	32.8
	6H	31.8	33.0	32.2	33.3	33.6	31.0	32.2	31.3	32.4	32.7
	8H	31.9	33.0	32.2	33.3	33.6	30.9	32.1	31.3	32.4	32.6
	12H	31.9	33.0	32.2	33.3	33.6	30.9	32.0	31.2	32.3	32.6
4H	2H	30.7	31.9	31.0	32.2	32.4	30.2	31.5	30.6	31.8	32.0
	3H	31.8	32.9	32.2	33.2	33.5	31.4	32.5	31.7	32.8	33.1
	4H	32.3	33.3	32.6	33.6	33.9	31.7	32.7	32.1	33.0	33.4
	6H	32.5	33.4	32.9	33.7	34.1	31.7	32.6	32.1	32.9	33.3
	8H	32.6	33.4	33.0	33.8	34.1	31.7	32.5	32.1	32.9	33.2
	12H	32.6	33.3	33.0	33.7	34.1	31.6	32.4	32.0	32.8	33.2
8H	4H	32.3	33.2	32.8	33.5	33.9	31.8	32.7	32.2	33.0	33.4
	6H	32.7	33.4	33.1	33.8	34.2	31.9	32.5	32.3	32.9	33.4
	8H	32.8	33.4	33.2	33.8	34.2	31.8	32.4	32.3	32.8	33.3
	12H	32.8	33.3	33.3	33.8	34.3	31.8	32.3	32.3	32.7	33.2
12H	4H	32.3	33.1	32.7	33.4	33.8	31.8	32.6	32.2	32.9	33.4
	6H	32.7	33.3	33.1	33.7	34.1	31.9	32.5	32.3	32.9	33.3
	8H	32.8	33.3	33.2	33.7	34.2	31.8	32.3	32.3	32.8	33.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.6 / - 0.6					+ 0.6 / - 0.7					

CIE Pub.117 Corrected 15141 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.4)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.5DEG
Operators:LXM
Test Date:2017-12-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

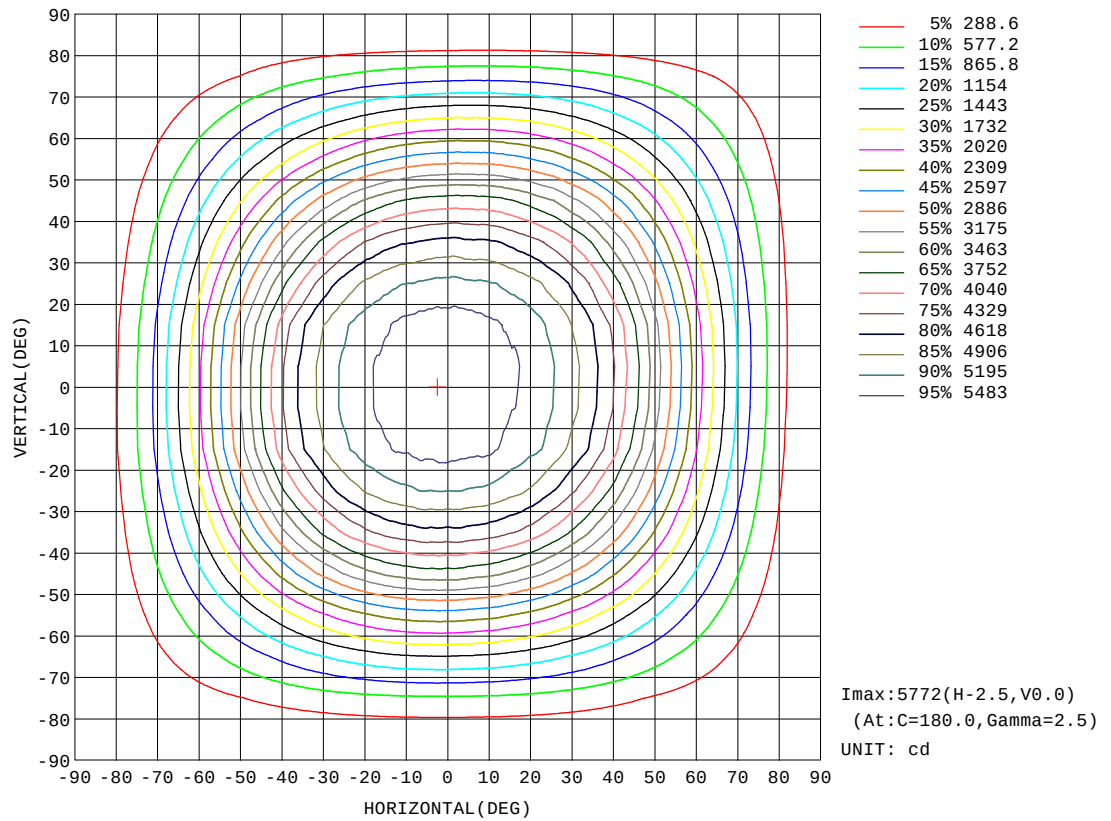
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	49	42	58	48	42	36
0.80	70	59	52	69	59	52	68	58	52	45
1.00	79	69	62	78	68	61	76	69	61	54
1.25	86	76	70	85	76	69	82	74	68	62
1.50	91	82	75	89	81	75	86	79	74	67
2.00	97	90	84	96	88	83	92	86	81	74
2.50	101	94	88	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	94	90	82
4.00	108	103	98	105	101	97	101	98	94	86
5.00	110	106	102	108	104	100	103	100	97	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.5DEG
Operators:LXM
Test Date:2017-12-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

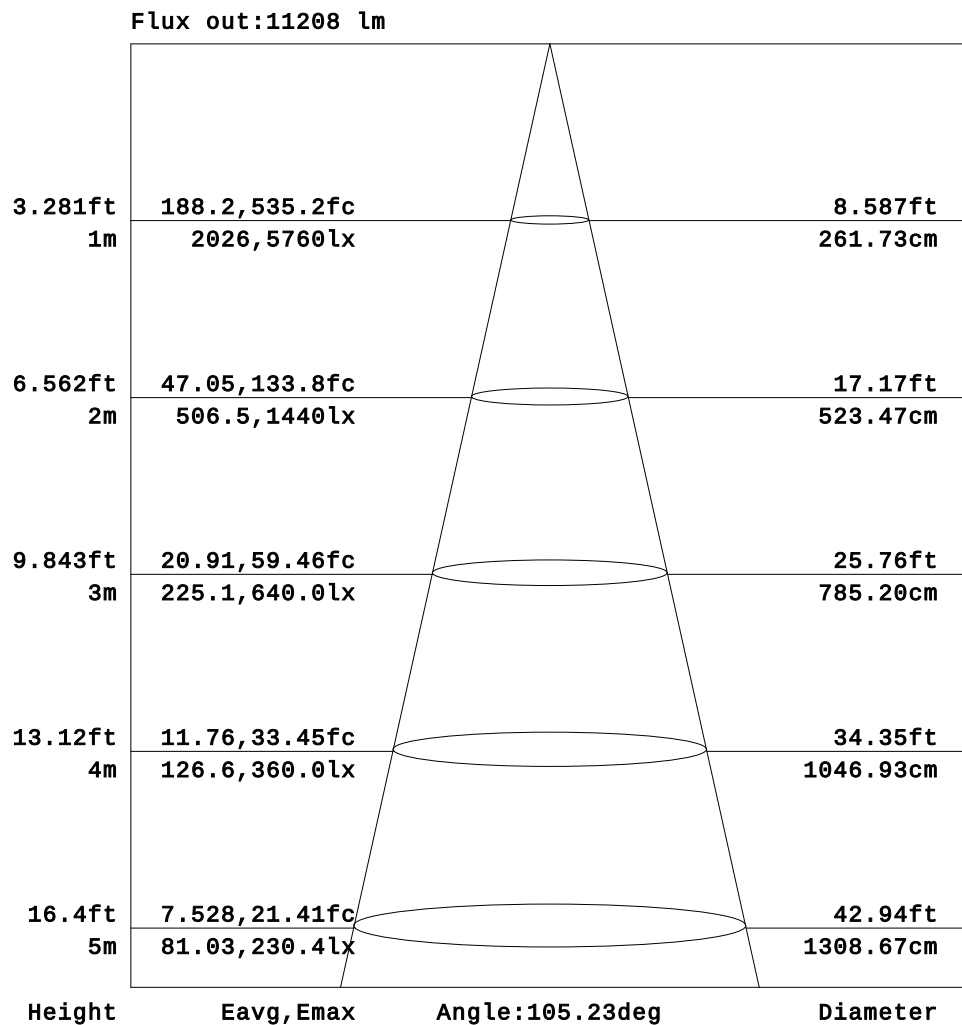


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.5DEG
Operators:LXM
Test Date:2017-12-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:



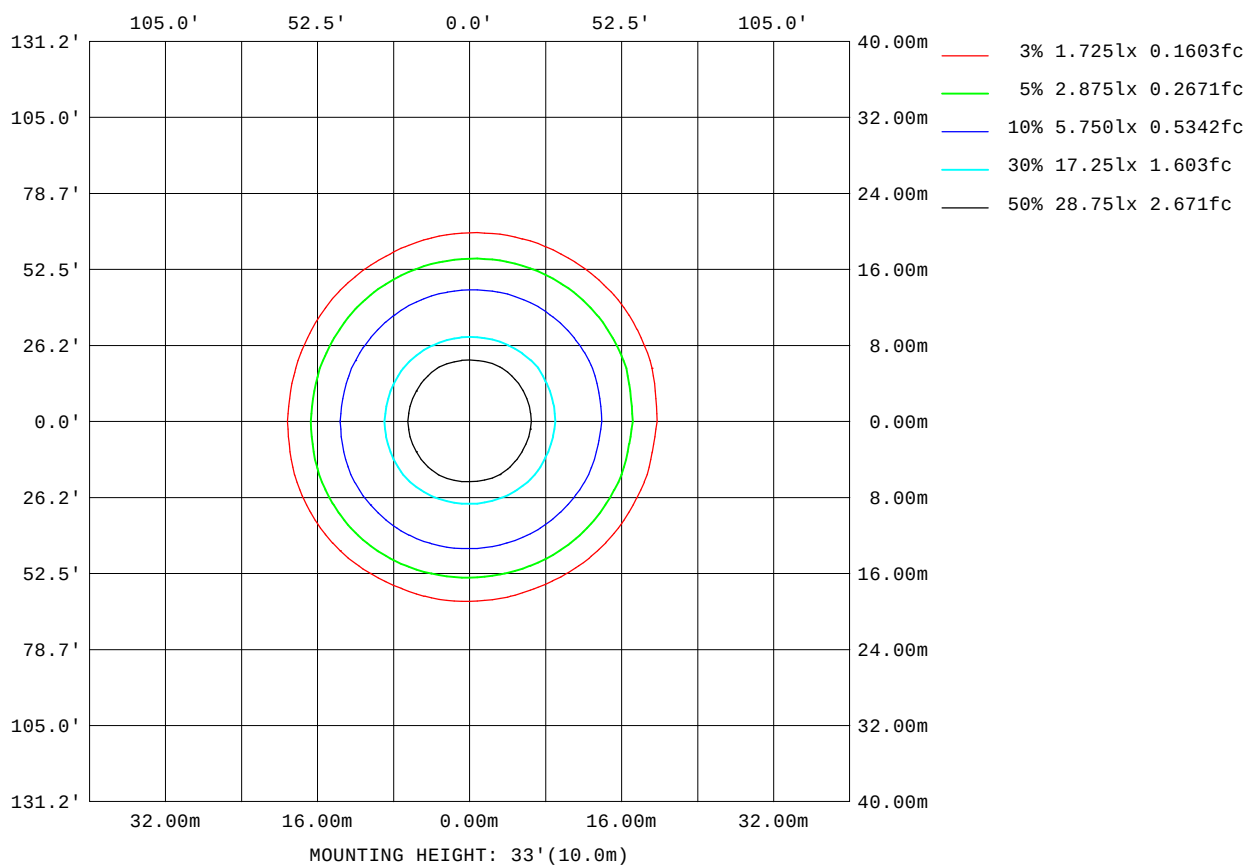
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.5DEG
Operators:LXM
Test Date:2017-12-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

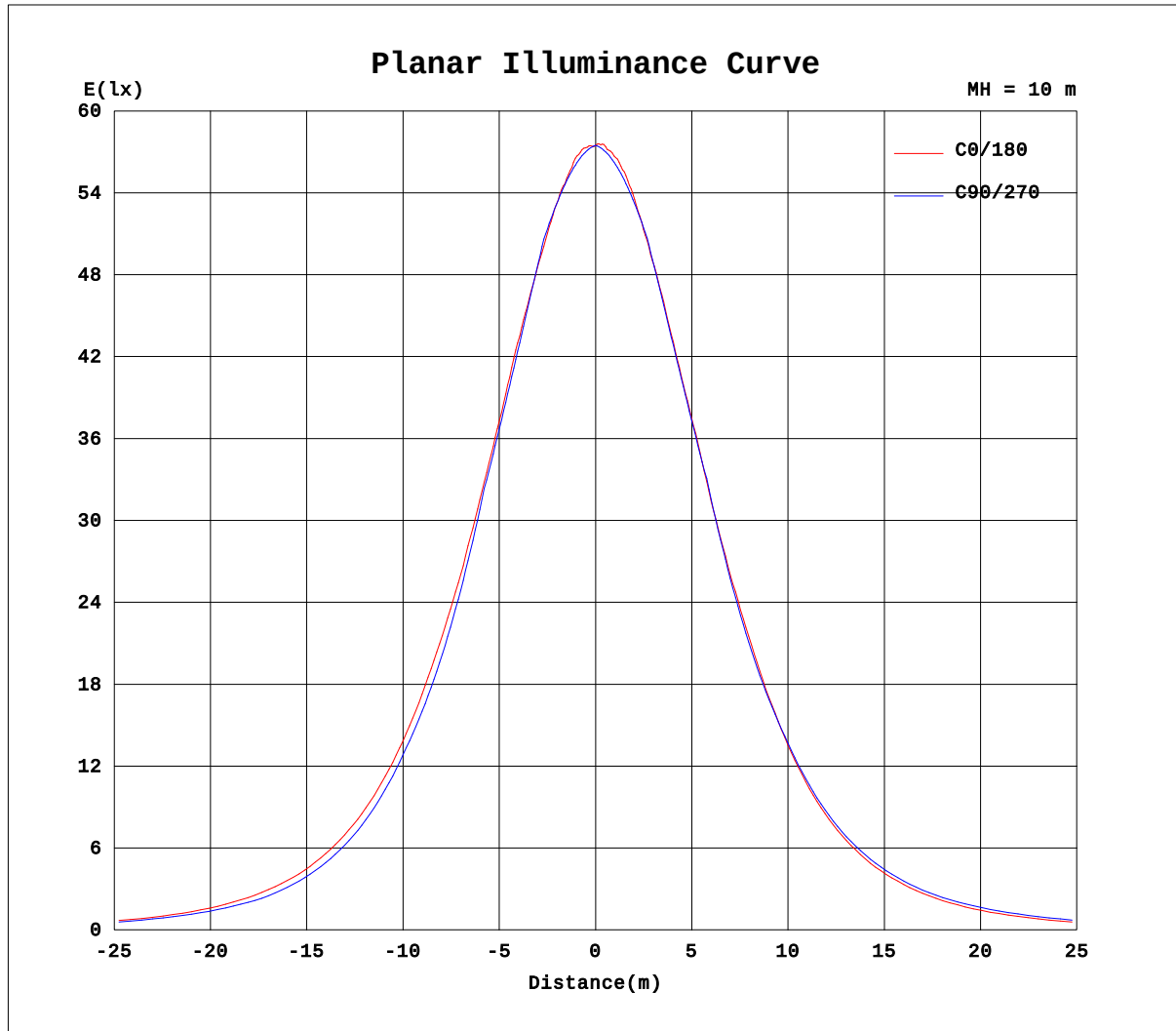
Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity: 55.0%
Test Distance: 7.930m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.5DEG
 Operators: LXM
 Test Date: 2017-12-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.276
 Humidity: 55.0%
 Test Distance: 7.930m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

Table- -1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

Table - -2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

Table- -3

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:0.8865A P:203.0W PF:0.9955 Lamp Flux:15140.7x1 lm		
NAME: 二代泛光灯 200W 6500K 黑 -1	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: MEKA	SUR.:	PROTECTION ANGLE:

Table- -4

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.5DEG
Operators: LXM
Test Date: 2017-12-22

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:55.0%
Test Distance:7.930m [K=1.0000]
Remarks:

```