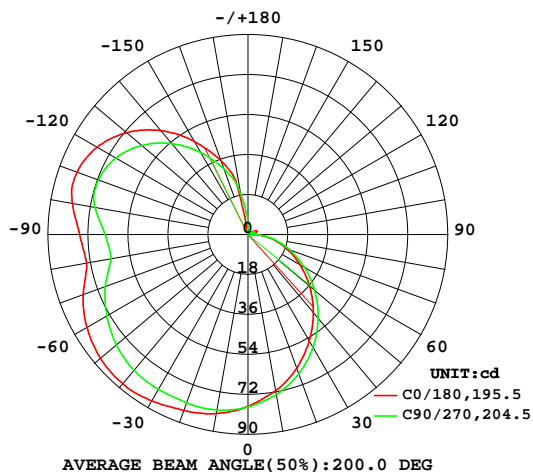


LUMINAIRE PHOTOMETRIC TEST REPORT

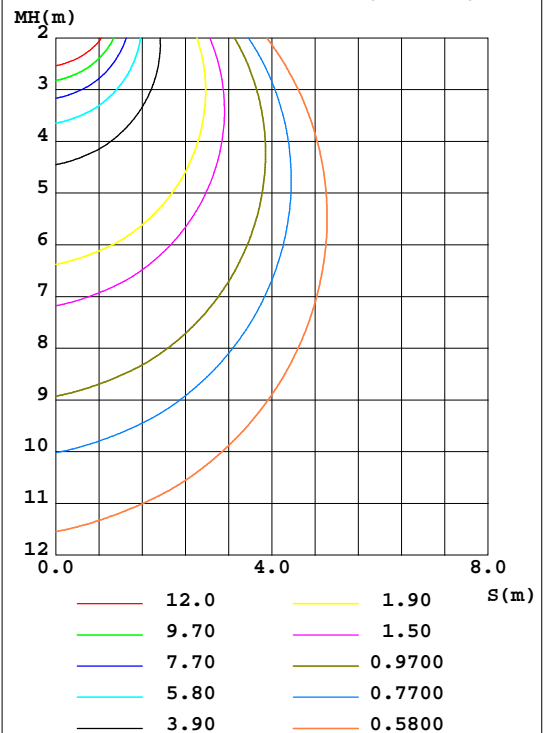
Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 52.78 lm/W			
MODEL	AS3535-05T180	I _{max} (cd)	87.77	S/MH(C0/180)	1.71
NOMINAL POWER(W)	10.2	LOR(%)	100.0	S/MH(C90/270)	1.58
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	538.36	h UP,DN(C0-180)	1.1,18.5
NOMINAL FLUX(lm)	538.359	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	36.6,43.8
LAMPS INSIDE	1	h up(%)	37.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	62.3	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-04-17

g Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

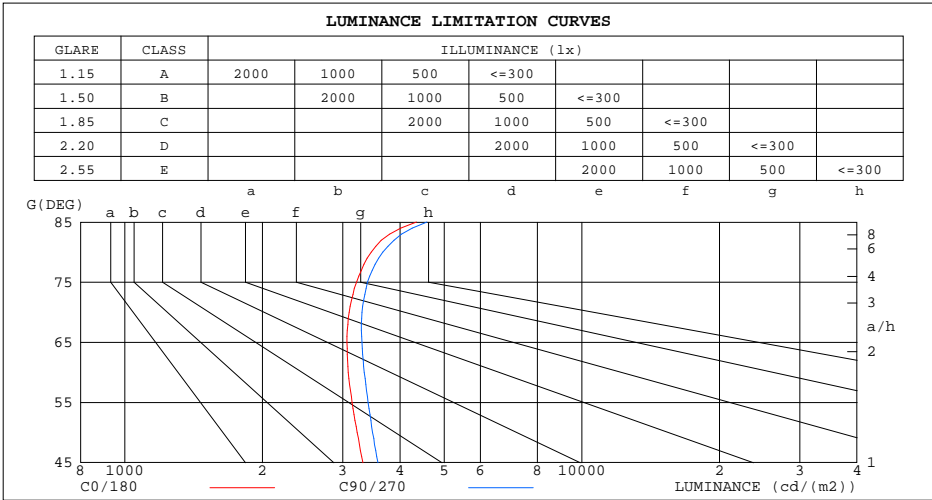
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	71.49	73.11	73.14	73.24	81.82	80.34	80.23	80.27	0- 10	7.362	7.362	1.37,1.37
20	64.10	66.66	66.83	66.86	84.29	80.97	80.69	80.84	10- 20	21.35	28.71	5.33,5.33
30	55.25	58.46	58.63	58.71	86.52	80.98	80.55	80.76	20- 30	33.25	61.97	11.5,11.5
40	45.85	49.04	49.21	49.31	87.77	80.53	79.84	80.11	30- 40	42.47	104.4	19.4,19.4
50	36.26	39.07	39.23	39.33	86.74	78.13	77.35	77.64	40- 50	48.18	152.6	28.3,28.3
60	26.99	29.16	29.25	29.37	83.70	74.16	73.34	73.57	50- 60	50.06	202.7	37.6,37.6
70	18.54	19.72	19.78	19.89	78.94	69.25	68.41	68.58	60- 70	48.53	251.2	46.7,46.7
80	10.52	11.10	11.14	11.24	73.79	63.64	62.68	63.01	70- 80	44.13	295.3	54.9,54.9
90	3.509	3.574	3.551	3.651	75.79	65.43	64.41	64.82	80- 90	40.02	335.4	62.3,62.3
100	1.502	1.431	1.388	1.416	80.24	70.94	69.92	70.33	90-100	39.31	374.7	69.6,69.6
110	4.381	3.349	3.282	3.265	81.94	72.75	71.69	71.95	100-110	40.76	415.4	77.2,77.2
120	2.817	1.881	1.840	1.828	78.59	69.76	68.83	68.85	110-120	37.85	453.3	84.2,84.2
130	1.337	1.082	1.082	1.069	71.42	63.37	62.44	62.41	120-130	31.43	484.7	90,90
140	1.102	1.142	1.069	1.142	61.08	54.12	53.42	53.21	130-140	23.86	508.6	94.5,94.5
150	1.102	1.256	1.175	1.256	48.45	43.20	42.64	42.34	140-150	16.12	524.7	97.5,97.5
160	1.149	1.349	1.289	1.363	35.15	31.71	31.28	31.03	150-160	9.214	533.9	99.2,99.2
170	1.169	1.416	1.356	1.416	4.163	17.87	17.77	17.52	160-170	3.916	537.8	99.9,99.9
180	1.282	3.213	3.280	3.220	1.282	3.186	3.346	3.199	170-180	0.5322	538.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	4343	4586
80	3460	3666
75	3213	3398
70	3098	3305
65	3062	3303
60	3085	3343
55	3145	3407
50	3223	3487
45	3318	3579

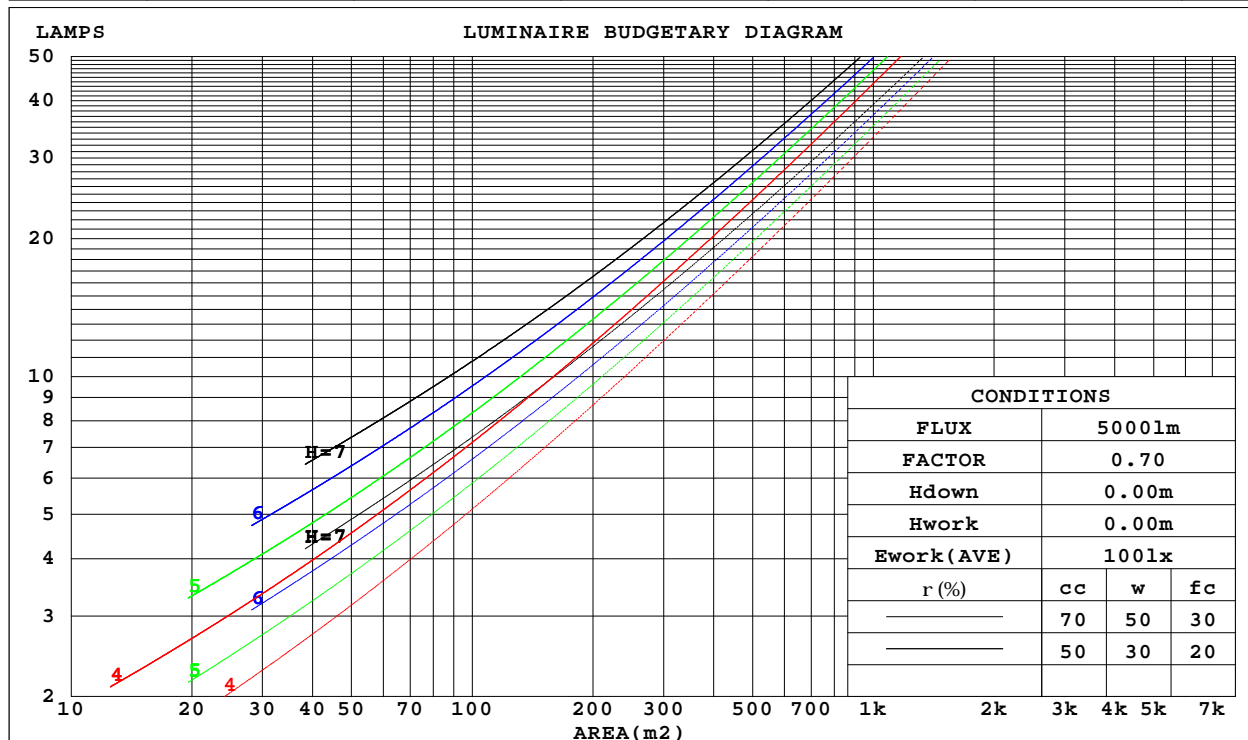
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-04-17

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0														
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
rfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.379	.216	.068	.360	.206	.065	.326	.187	.060	.293	.169	.054	.264	.153	.049															
2.0	.325	.178	.055	.308	.170	.052	.276	.154	.048	.247	.139	.043	.220	.124	.039															
3.0	.288	.153	.046	.272	.146	.044	.243	.132	.040	.216	.119	.036	.192	.106	.033															
4.0	.259	.134	.040	.245	.128	.038	.218	.116	.035	.193	.104	.031	.170	.093	.028															
5.0	.235	.120	.035	.222	.114	.033	.198	.103	.030	.175	.092	.027	.154	.082	.025															
6.0	.215	.108	.031	.203	.103	.030	.181	.093	.027	.160	.083	.024	.141	.074	.022															
7.0	.198	.098	.028	.188	.093	.027	.167	.084	.024	.148	.076	.022	.129	.067	.020															
8.0	.184	.090	.025	.174	.086	.024	.155	.077	.022	.137	.069	.020	.120	.062	.018															
9.0	.172	.083	.023	.162	.079	.022	.144	.071	.020	.128	.064	.018	.112	.057	.016															
10.0	.161	.077	.021	.152	.073	.020	.135	.066	.019	.120	.059	.017	.105	.053	.015															

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.478	.478	.478	.408	.408	.408	.279	.279	.279	.160	.160	.160	.051	.051	.051	
1.0	.475	.445	.419	.406	.382	.360	.278	.263	.249	.160	.152	.145	.051	.049	.047	
2.0	.468	.423	.386	.401	.364	.333	.275	.252	.232	.158	.147	.136	.051	.047	.044	
3.0	.461	.408	.365	.395	.352	.316	.271	.244	.222	.157	.143	.131	.050	.046	.043	
4.0	.454	.396	.351	.389	.342	.305	.268	.238	.215	.155	.140	.127	.050	.045	.042	
5.0	.446	.386	.342	.383	.334	.298	.264	.233	.210	.153	.137	.125	.049	.045	.041	
6.0	.439	.379	.335	.377	.328	.292	.260	.230	.207	.151	.135	.123	.049	.044	.041	
7.0	.432	.372	.330	.372	.323	.288	.257	.226	.204	.149	.133	.121	.048	.044	.040	
8.0	.426	.367	.327	.367	.318	.285	.254	.224	.202	.148	.132	.120	.048	.043	.040	
9.0	.420	.362	.324	.362	.315	.282	.251	.221	.200	.146	.131	.120	.047	.043	.040	
10.0	.414	.359	.321	.357	.311	.280	.248	.219	.199	.145	.130	.119	.047	.043	.039	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm											
NAME: AS3535-05T180					TYPE:			WEIGHT:			
SPEC.:AS3535-05T180					DIM.: 500*35*35			SERIAL No.:			
MFR.: COLORS					SUR.:500*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	14.7	15.9	15.5	16.6	17.5	15.0	16.2	15.8	16.9	17.9	
	3H	16.3	17.3	17.1	18.1	19.1	16.6	17.7	17.4	18.5	19.4
	4H	17.0	18.0	17.8	18.8	19.8	17.4	18.4	18.1	19.2	20.1
	6H	17.7	18.6	18.5	19.5	20.5	18.0	19.0	18.8	19.8	20.8
	8H	18.0	18.9	18.8	19.7	20.7	18.3	19.2	19.2	20.1	21.1
	12H	18.3	19.1	19.1	20.0	21.0	18.6	19.5	19.4	20.3	21.4
4H	2H	15.3	16.3	16.1	17.1	18.0	15.5	16.5	16.3	17.3	18.3
	3H	17.0	17.9	17.9	18.7	19.8	17.3	18.2	18.1	19.0	20.0
	4H	17.9	18.7	18.8	19.6	20.6	18.2	19.0	19.0	19.8	20.9
	6H	18.7	19.5	19.6	20.3	21.4	19.0	19.7	19.9	20.6	21.7
	8H	19.1	19.8	20.0	20.7	21.8	19.4	20.1	20.3	20.9	22.0
	12H	19.5	20.1	20.3	21.0	22.1	19.8	20.4	20.6	21.3	22.4
8H	4H	18.2	18.9	19.1	19.8	20.9	18.4	19.1	19.3	20.0	21.1
	6H	19.3	19.8	20.2	20.7	21.9	19.5	20.0	20.4	20.9	22.1
	8H	19.8	20.3	20.7	21.2	22.3	20.0	20.5	20.9	21.4	22.6
	12H	20.3	20.7	21.2	21.6	22.8	20.5	20.9	21.4	21.9	23.0
12H	4H	18.2	18.9	19.1	19.7	20.9	18.5	19.1	19.3	20.0	21.1
	6H	19.4	19.8	20.3	20.8	21.9	19.6	20.1	20.5	21.0	22.1
	8H	19.9	20.4	20.8	21.3	22.5	20.2	20.6	21.1	21.5	22.7
Variations with the observer position at spacings:											
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, 538.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.2)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:

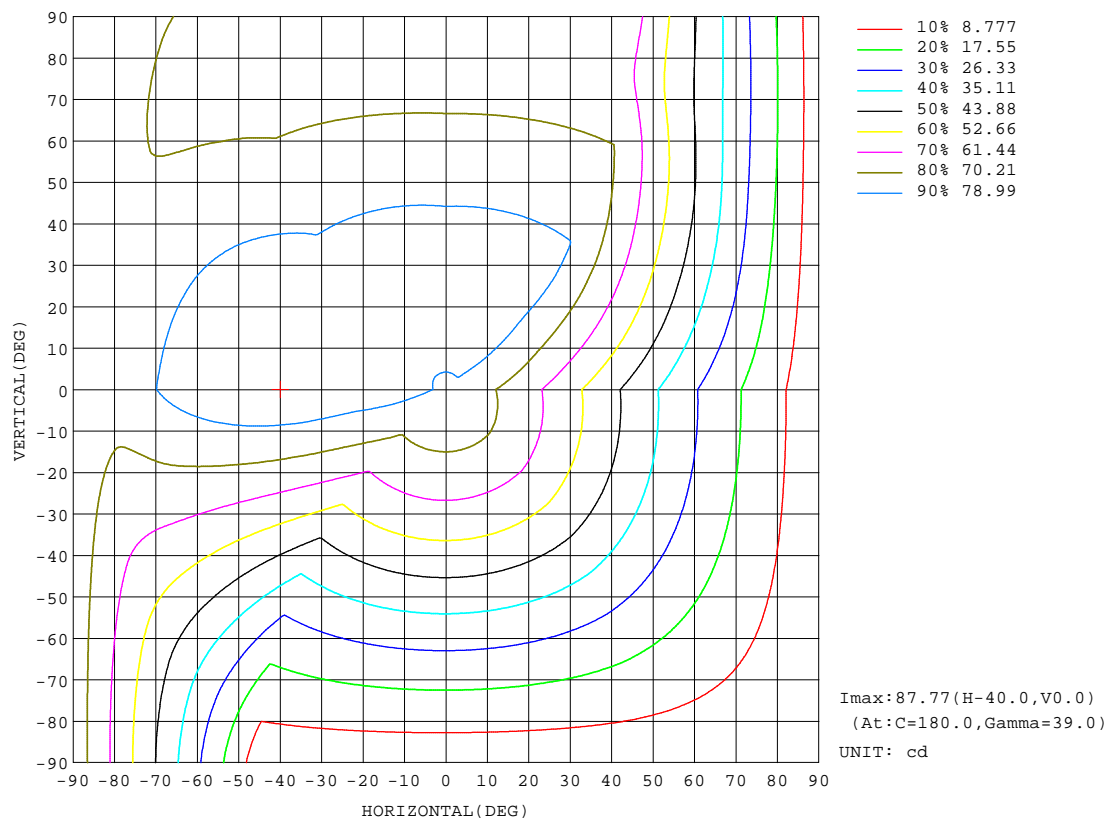
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	42	29	22	40	29	22	37	27	21	14
0.80	51	37	29	48	36	29	44	34	27	18
1.00	58	45	36	55	43	35	50	42	33	23
1.25	65	52	43	62	50	42	55	46	39	27
1.50	70	57	48	66	55	47	59	50	43	30
2.00	78	66	57	73	63	55	65	56	50	34
2.50	82	72	63	77	68	60	68	61	55	37
3.00	86	76	68	81	72	65	71	64	59	40
4.00	91	83	76	85	78	72	75	69	64	44
5.00	94	87	81	88	82	76	77	72	68	47
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:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:



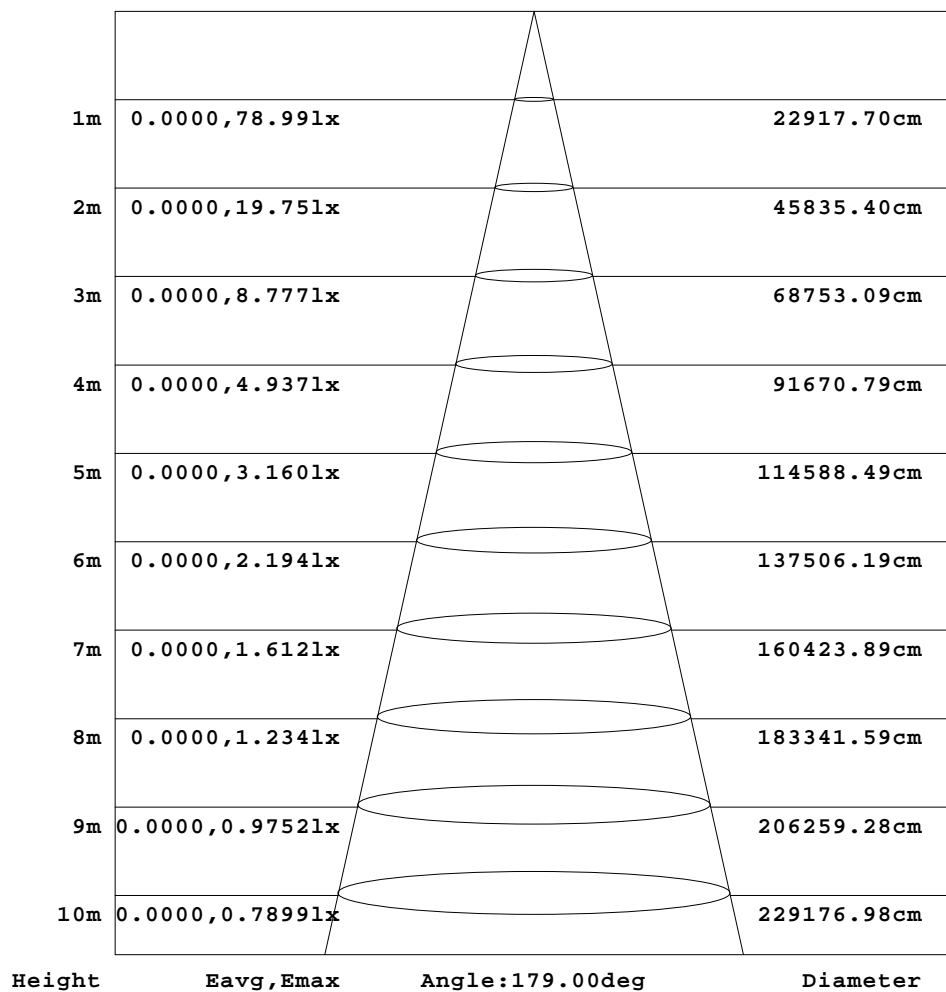
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-04-17

deg Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:

Flux out:335.4 lm



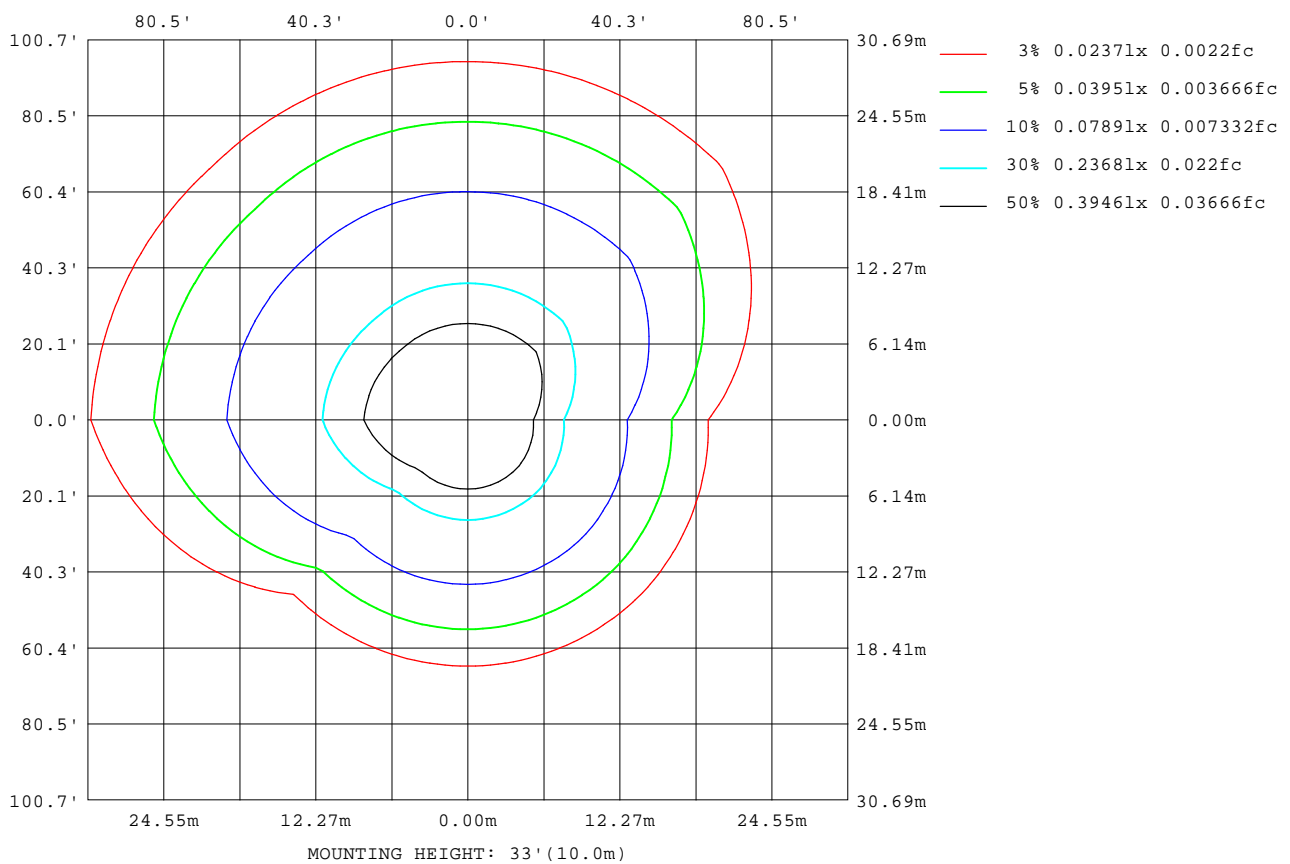
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

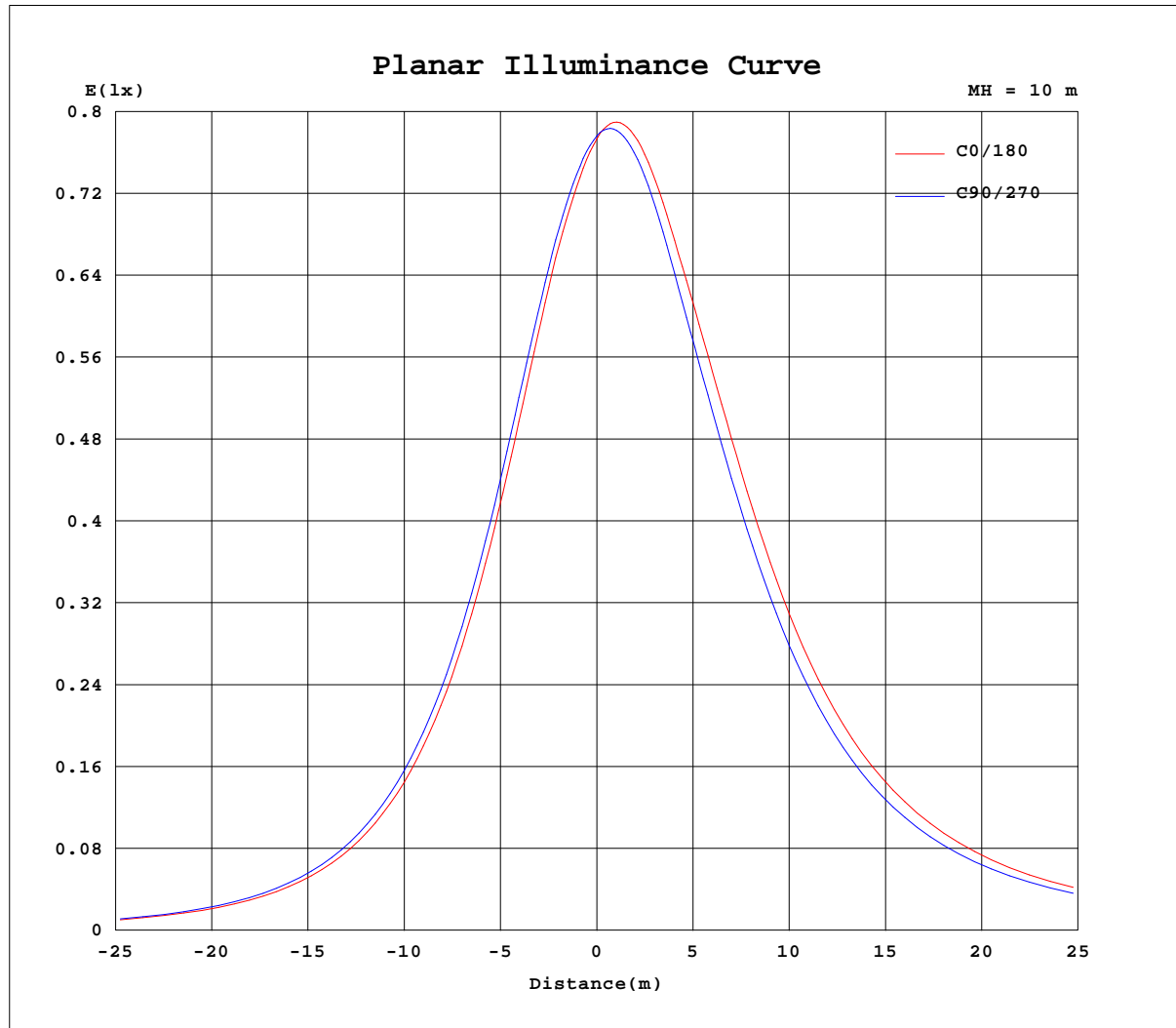
Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2020-04-17

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.950m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-04-17

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.4280A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:538.359x1 lm		
NAME: AS3535-05T180	TYPE:	WEIGHT:
SPEC.:AS3535-05T180	DIM.: 500*35*35	SERIAL No.:
MFR.: COLORS	SUR.:500*35	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	77.3	77.7	77.6	77.7	77.3	77.7	77.6	77.7										
5	74.4	75.5	75.5	75.6	79.9	79.3	79.2	79.3										
10	71.5	73.1	73.1	73.2	81.8	80.3	80.2	80.3										
15	68.0	70.1	70.2	70.3	83.3	80.9	80.7	80.8										
20	64.1	66.7	66.8	66.9	84.3	81.0	80.7	80.8										
25	59.8	62.7	62.9	63.0	85.3	80.8	80.5	80.7										
30	55.3	58.5	58.6	58.7	86.5	81.0	80.5	80.8										
35	50.6	53.8	54.0	54.1	87.5	81.0	80.4	80.7										
40	45.9	49.0	49.2	49.3	87.8	80.5	79.8	80.1										
45	41.1	44.1	44.3	44.3	87.6	79.5	78.8	79.1										
50	36.3	39.1	39.2	39.3	86.7	78.1	77.3	77.6										
55	31.6	34.1	34.2	34.3	85.4	76.3	75.5	75.7										
60	27.0	29.2	29.2	29.4	83.7	74.2	73.3	73.6										
65	22.6	24.4	24.4	24.6	81.6	71.9	71.0	71.2										
70	18.5	19.7	19.8	19.9	78.9	69.2	68.4	68.6										
75	14.6	15.3	15.4	15.5	75.9	66.1	65.2	65.4										
80	10.5	11.1	11.1	11.2	73.8	63.6	62.7	63.0										
85	6.62	6.98	6.99	7.10	74.5	63.9	62.9	63.3										
90	3.51	3.57	3.55	3.65	75.8	65.4	64.4	64.8										
95	1.84	1.65	1.68	1.71	77.8	68.0	66.9	67.4										
100	1.50	1.43	1.39	1.42	80.2	70.9	69.9	70.3										
105	3.09	2.94	2.91	2.87	82.0	72.7	71.7	71.9										
110	4.38	3.35	3.28	3.26	81.9	72.7	71.7	71.9										
115	3.78	2.65	2.59	2.60	80.7	71.7	70.7	70.9										
120	2.82	1.88	1.84	1.83	78.6	69.8	68.8	68.8										
125	1.93	1.32	1.32	1.28	75.4	67.0	66.0	66.0										
130	1.34	1.08	1.08	1.07	71.4	63.4	62.4	62.4										
135	1.10	1.10	1.06	1.11	66.6	59.0	58.2	58.1										
140	1.10	1.14	1.07	1.14	61.1	54.1	53.4	53.2										
145	1.10	1.20	1.15	1.20	55.0	48.8	48.2	47.9										
150	1.10	1.26	1.18	1.26	48.5	43.2	42.6	42.3										
155	1.10	1.30	1.28	1.31	41.8	37.4	36.9	36.7										
160	1.15	1.35	1.29	1.36	35.2	31.7	31.3	31.0										
165	1.16	1.41	1.36	1.40	28.8	26.3	26.1	25.7										
170	1.17	1.42	1.36	1.42	4.16	17.9	17.8	17.5										
175	1.18	1.42	1.36	1.42	1.20	10.1	10.1	9.90										
180	1.28	3.21	3.28	3.22	1.28	3.19	3.35	3.20										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks: