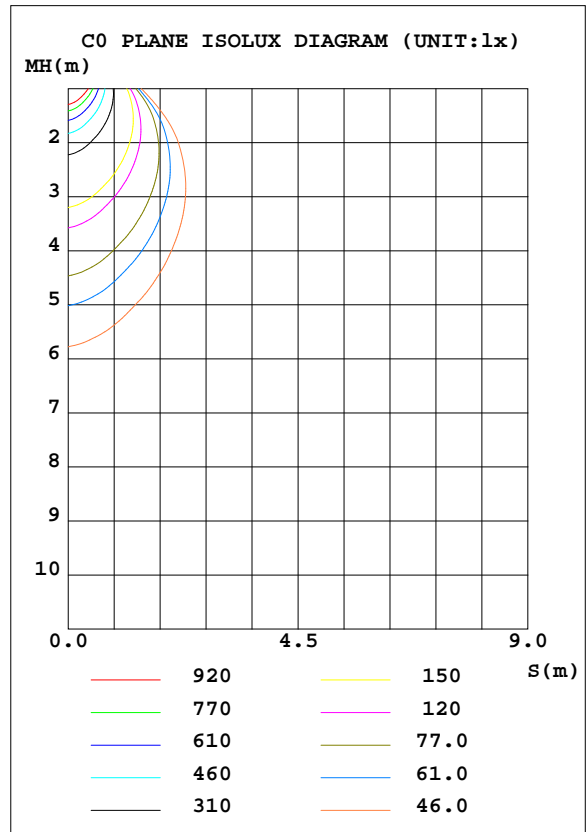
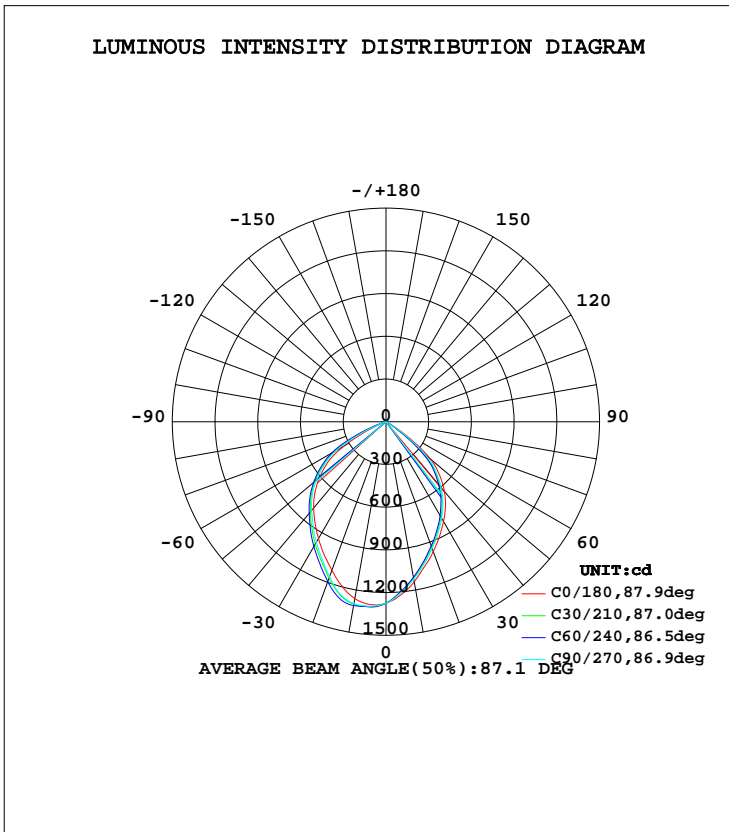


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71x1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.43 lm/W
MODEL	TS-26W	I <sub>max</sub> (cd)	1310	S/MH(C0/180)	0.97	
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	0.95	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2360.7	η UP, DN(C0-180)	0.0, 38.3	
NOMINAL FLUX(lm)	2360.71	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 61.7	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.1	η down(%)	100.0	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	1141	1113	1124	1152	1261	1306	1296	1257	0- 10	118.2	118.2	5.01,5.01
20	970.8	933.8	947.9	985.2	1111	1183	1159	1083	10- 20	318.8	437.0	18.5,18.5
30	808.7	766.7	783.2	823.4	948.2	1003	976.8	917.0	20- 30	443.4	880.4	37.3,37.3
40	638.3	585.1	602.8	653.8	790.5	833.1	812.8	1473	30- 40	507.6	1388	58.8,58.8
50	407.2	322.0	362.8	447.1	608.9	658.0	637.7	1081	40- 50	518.9	1907	80.8,80.8
60	49.11	22.40	33.01	64.41	337.6	428.3	401.9	430.6	50- 60	340.4	2247	95.2,95.2
70	5.362	2.271	2.868	6.907	27.79	64.91	45.81	26.69	60- 70	104.1	2351	99.6,99.6
80	0	0	0	0	2.957	6.278	4.627	1.776	70- 80	8.786	2360	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.5739	2361	100,100
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		

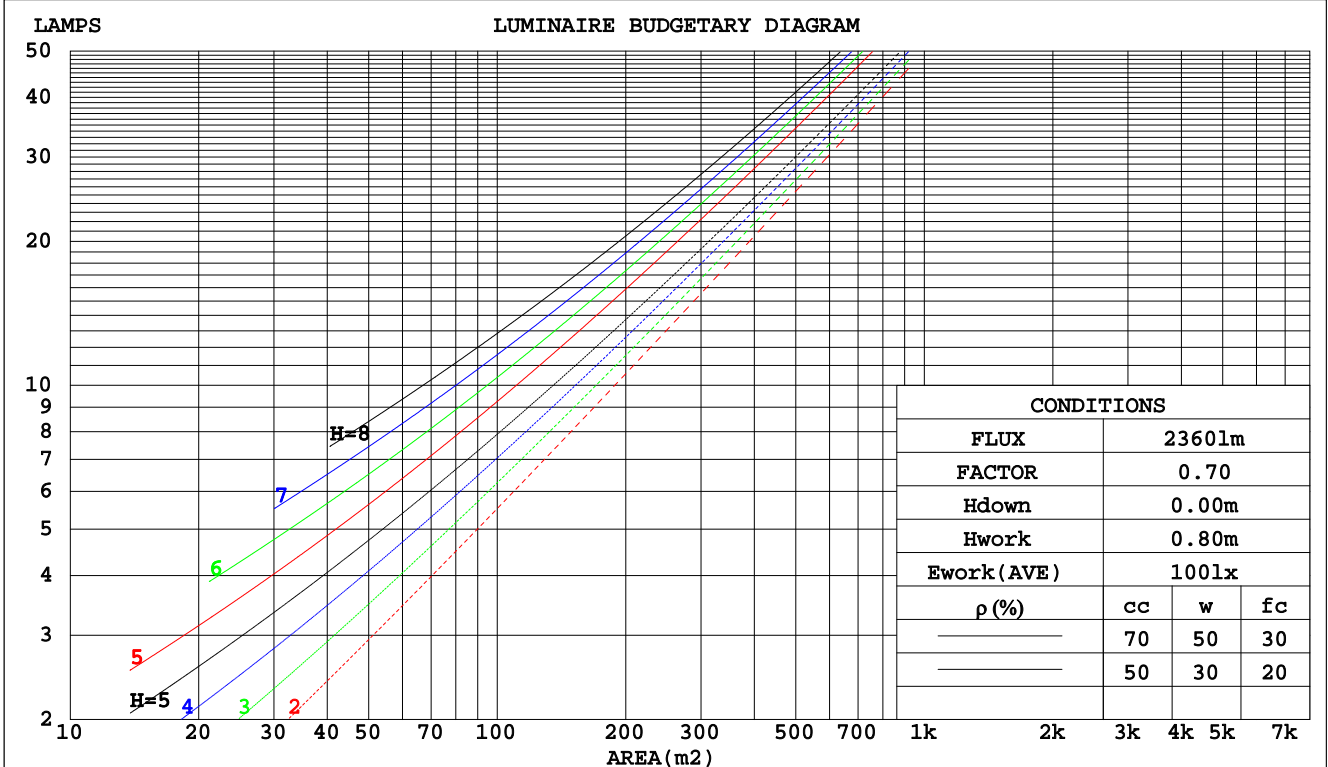
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71x1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION 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																0
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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79
3.0	.87	.80	.75	.86	.79	.74	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.71	.65	.77	.70	.65	.75	.69	.64	.73	.68	.63	.71	.66	.63	.61
5.0	.71	.63	.58	.70	.63	.57	.68	.62	.57	.66	.61	.56	.64	.60	.56	.54
6.0	.65	.57	.51	.64	.56	.51	.62	.55	.50	.60	.55	.50	.59	.54	.50	.48
7.0	.59	.51	.46	.58	.51	.46	.57	.50	.45	.55	.49	.45	.54	.49	.45	.43
8.0	.54	.46	.41	.54	.46	.41	.52	.46	.41	.51	.45	.41	.50	.44	.40	.39
9.0	.50	.42	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71x1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION 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	.232	.132	.042	.225	.128	.041	.212	.122	.039	.200	.116	.037	.189	.110	.035	
2.0	.229	.125	.038	.223	.123	.038	.212	.118	.037	.202	.113	.035	.192	.109	.034	
3.0	.220	.117	.035	.215	.115	.035	.205	.111	.034	.196	.107	.033	.188	.104	.032	
4.0	.209	.109	.032	.205	.107	.032	.196	.104	.031	.188	.101	.030	.181	.098	.030	
5.0	.198	.101	.029	.194	.100	.029	.187	.097	.029	.179	.095	.028	.173	.092	.028	
6.0	.187	.094	.027	.184	.093	.027	.177	.091	.026	.171	.089	.026	.165	.087	.026	
7.0	.177	.088	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	.157	.081	.024	
8.0	.168	.082	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023	.149	.077	.022	
9.0	.159	.077	.021	.156	.076	.021	.151	.075	.021	.147	.073	.021	.142	.072	.021	
10.0	.150	.072	.020	.148	.072	.020	.144	.070	.020	.140	.069	.020	.136	.068	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.141	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.071	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.105	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.7lx1 lm										
NAME: TS-26W					TYPE:26W			WEIGHT:		
DIM.:					SPEC.:5000K			SERIAL No.:1		
MFR.:					SUR.:0.006			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	26.5	27.8	26.7	28.0	28.1	25.9	27.3	26.2	27.4	27.6
3H	26.3	27.5	26.5	27.7	27.9	25.7	26.9	26.0	27.2	27.4
4H	26.2	27.3	26.5	27.5	27.8	25.6	26.8	25.9	27.0	27.3
6H	26.1	27.1	26.4	27.4	27.6	25.5	26.6	25.9	26.9	27.1
8H	26.0	27.0	26.3	27.3	27.6	25.5	26.5	25.8	26.8	27.1
12H	26.0	26.9	26.3	27.2	27.5	25.4	26.4	25.8	26.7	27.0
4H 2H	26.2	27.3	26.5	27.6	27.8	25.7	26.8	26.0	27.1	27.3
3H	26.0	27.0	26.3	27.3	27.5	25.5	26.5	25.8	26.8	27.0
4H	25.9	26.8	26.3	27.1	27.4	25.4	26.3	25.8	26.6	26.9
6H	25.8	26.6	26.2	26.9	27.3	25.3	26.1	25.7	26.4	26.8
8H	25.8	26.5	26.2	26.8	27.2	25.3	26.0	25.7	26.3	26.7
12H	25.7	26.4	26.1	26.7	27.1	25.2	25.9	25.6	26.2	26.6
8H 4H	25.8	26.5	26.2	26.8	27.2	25.3	26.0	25.7	26.3	26.7
6H	25.7	26.3	26.1	26.7	27.1	25.2	25.8	25.6	26.2	26.6
8H	25.6	26.1	26.1	26.6	27.0	25.1	25.6	25.6	26.1	26.5
12H	25.6	26.0	26.1	26.5	26.9	25.1	25.5	25.6	26.0	26.4
12H 4H	25.7	26.4	26.1	26.7	27.1	25.2	25.9	25.6	26.2	26.6
6H	25.6	26.1	26.1	26.6	27.0	25.1	25.6	25.6	26.1	26.5
8H	25.6	26.0	26.1	26.5	26.9	25.1	25.5	25.6	26.0	26.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 6.4					+ 2.3 / - 8.3				
1.5H	+ 1.4 / - 5.5					+ 1.4 / - 6.1				
2.0H	+ 4.6 / -16.9					+ 4.9 / -16.3				

CIE Pub.117 Corrected 2361 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.0)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71x1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION ANGLE:

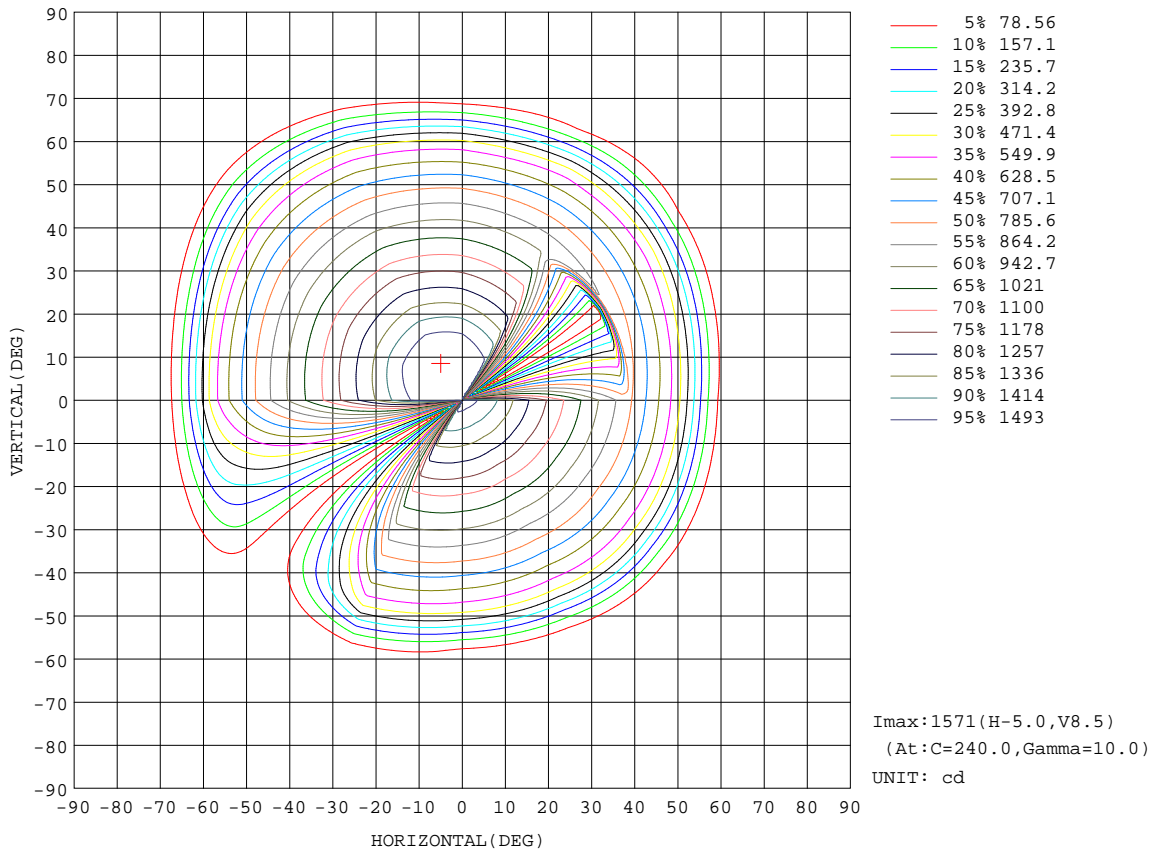
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	54	48	64	54	48	63	54	48	42
0.80	76	66	59	75	65	59	73	65	59	53
1.00	84	75	69	83	75	69	81	76	69	63
1.25	91	83	77	90	82	77	88	81	76	70
1.50	96	88	83	94	87	82	92	86	81	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	111	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71x1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION ANGLE:

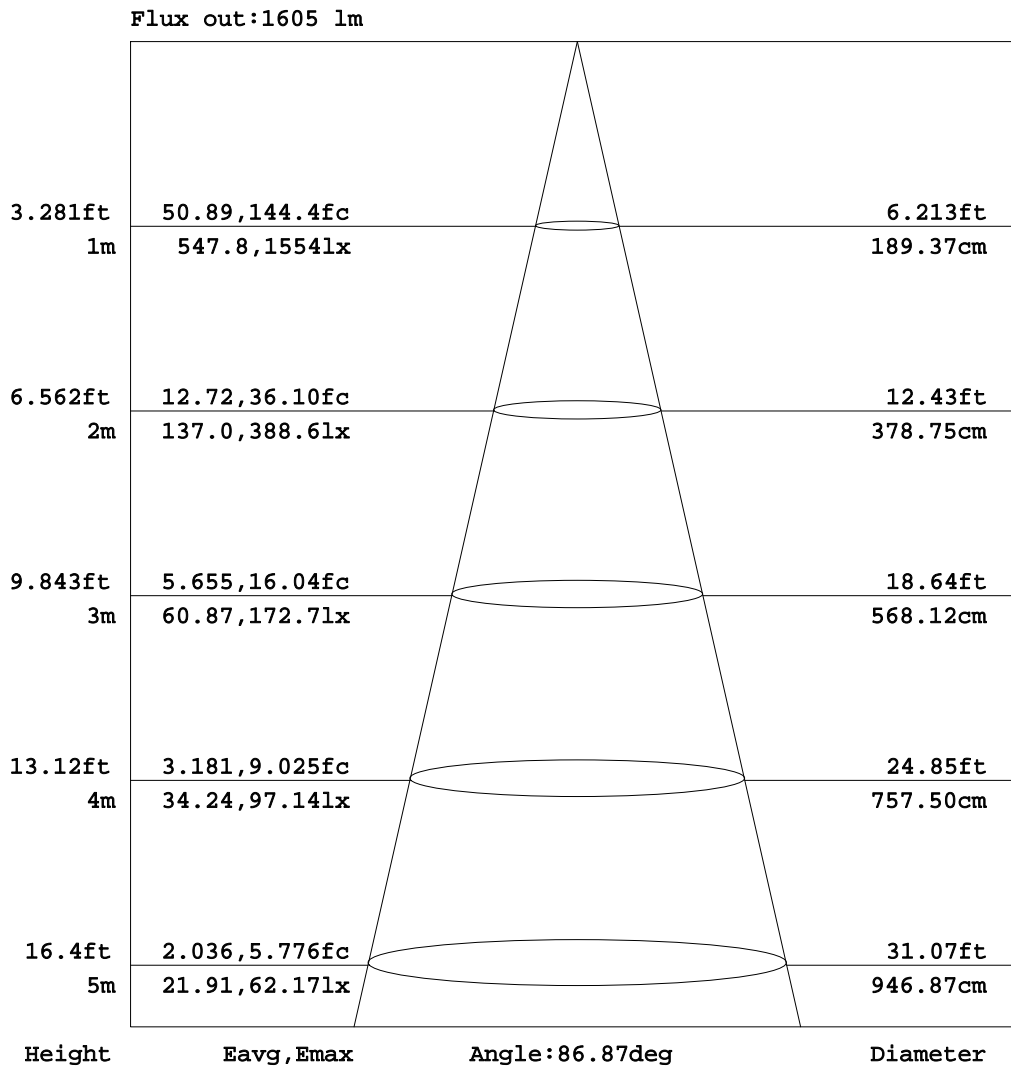


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.7lx1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION ANGLE:



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

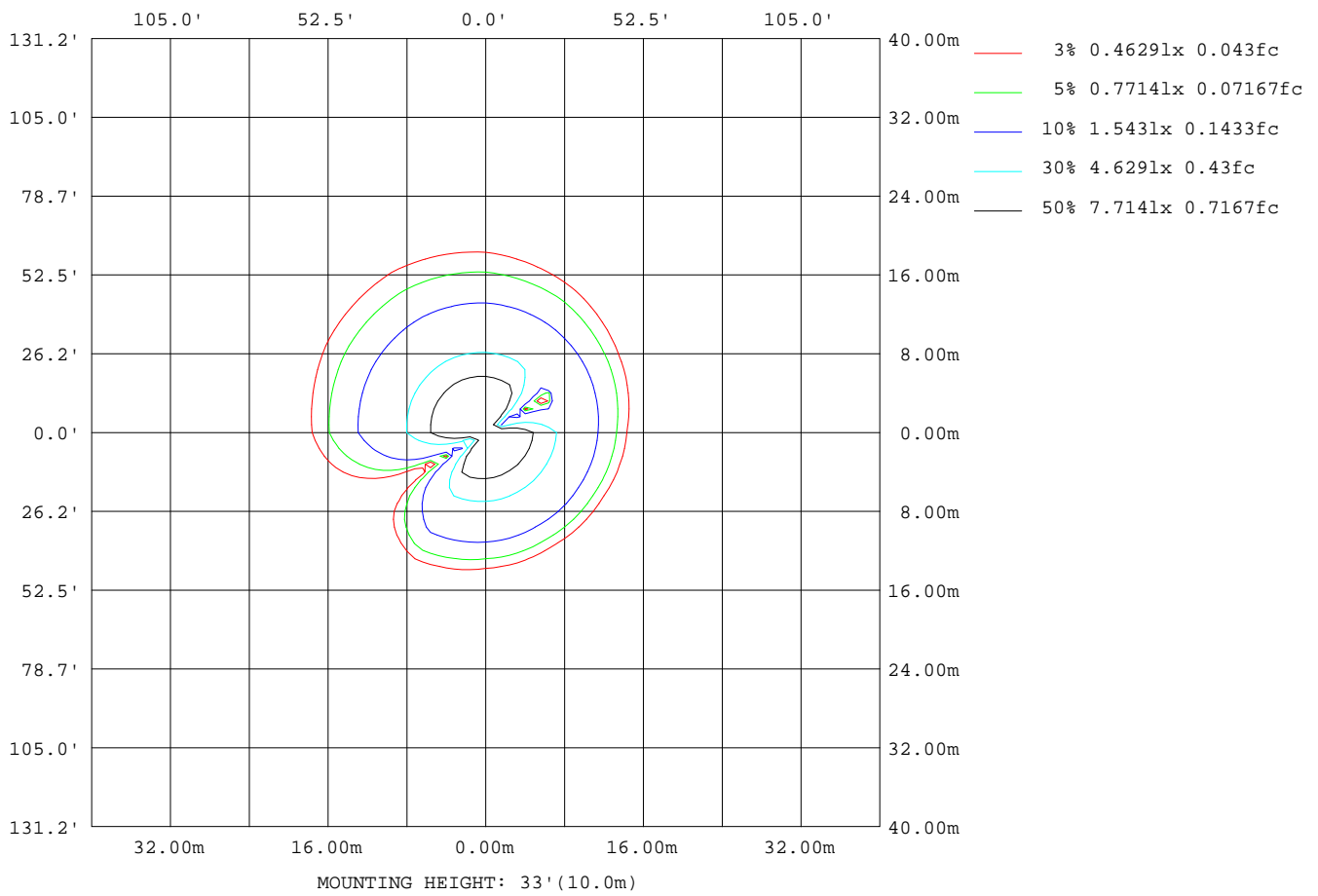
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

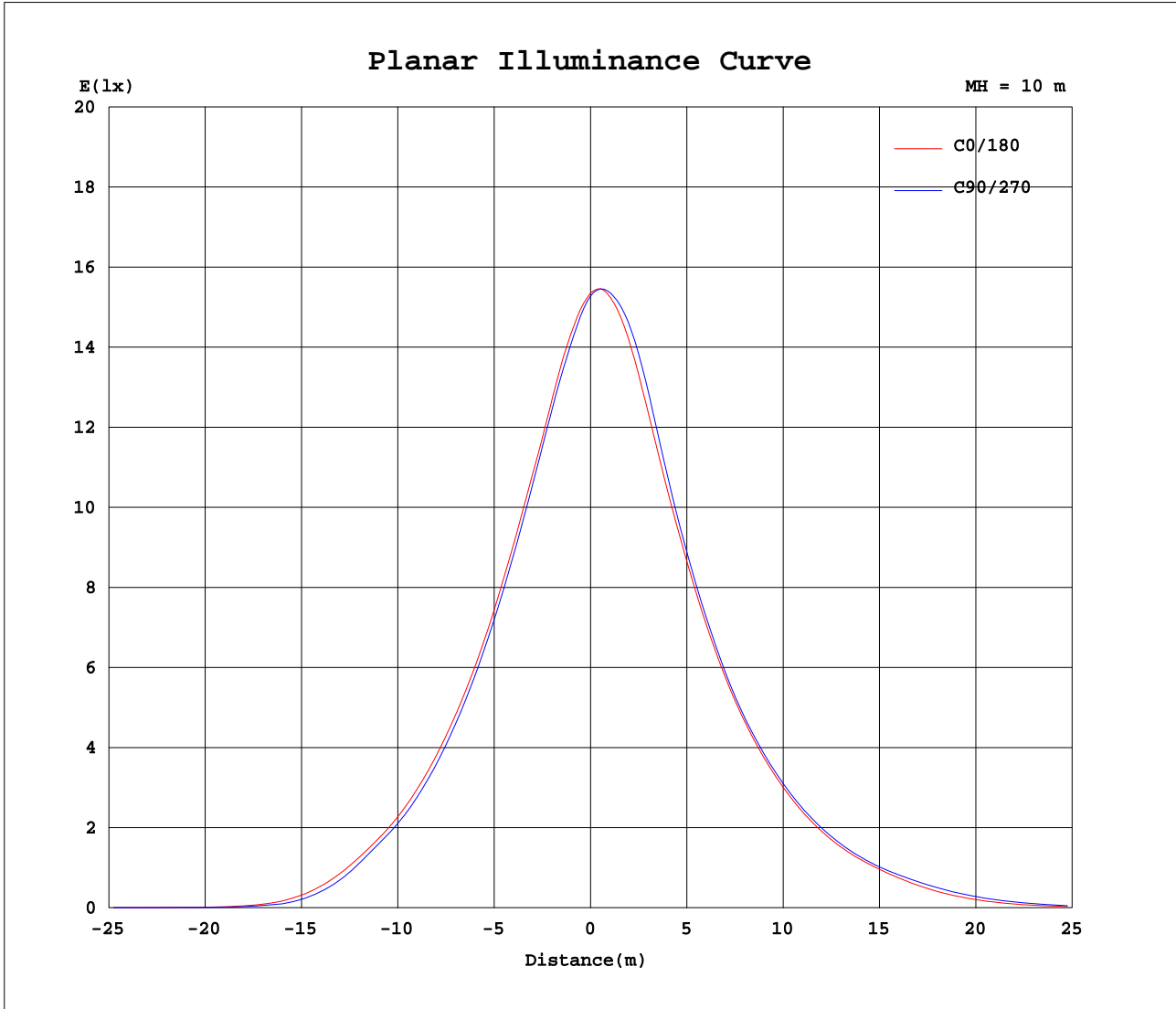
Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71lx1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2018-10-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 9.600m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.1V I:0.1320A P:25.00W PF:0.7840 Lamp Flux:2360.71x1 lm		
NAME: TS-26W	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.006	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1275	1275	1275	1275	1275	0.00	1275	1275	1275	1275	1275	0.00						
5	1219	1203	1197	1206	1226	0.00	1288	1303	1305	1301	1286	0.00						
10	1141	1116	1110	1124	1152	0.00	1261	1301	1310	1296	1257	0.00						
15	1051	1026	1018	1035	1067	0.00	1195	1257	1280	1251	1180	0.00						
20	971	939	928	948	985	0.00	1111	1170	1195	1159	1083	0.00						
25	890	856	844	865	902	0.00	1029	1076	1100	1063	999	0.00						
30	809	773	760	783	823	0.00	948	994	1012	977	917	0.00						
35	728	688	674	698	741	0.00	869	909	925	892	839	0.00						
40	638	595	576	603	654	0.00	791	826	840	813	767	844						
45	534	484	469	497	555	0.00	707	744	756	732	681	728						
50	407	333	311	363	447	0.00	609	652	664	638	581	598						
55	206	130	110	150	252	0.00	501	544	561	529	470	419						
60	49.1	25.2	19.6	33.0	64.4	0.00	338	415	442	402	291	167						
65	11.2	9.19	8.74	9.84	12.7	0.00	131	220	253	196	90.5	34.1						
70	5.36	2.66	1.88	2.87	6.91	0.00	27.8	58.1	71.8	45.8	17.1	11.5						
75	0.78	0.07	0.00	0.24	1.12	0.00	9.36	12.3	13.0	10.9	8.41	3.79						
80	0.00	0.00	0.00	0.00	0.00	0.00	2.96	5.71	6.85	4.63	1.59	0.22						
85	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.8865	1.15	0.52	0.00	0.00						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks: