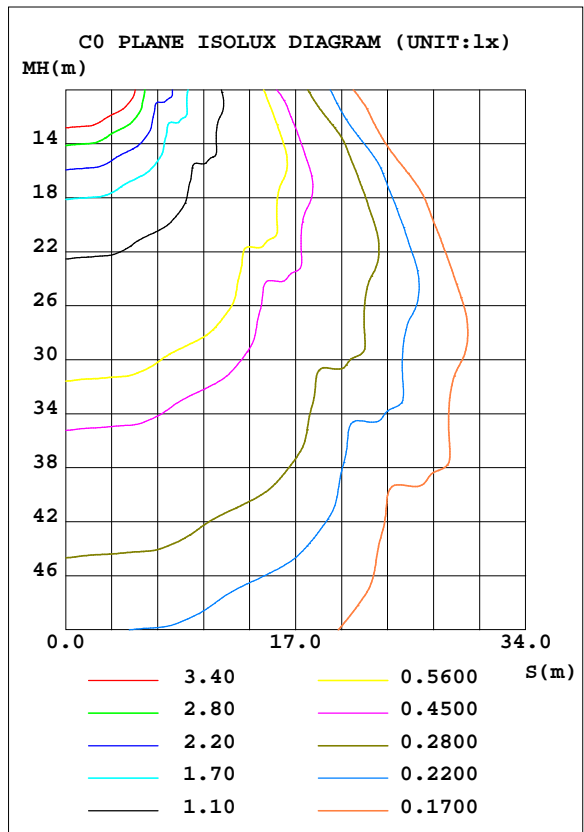
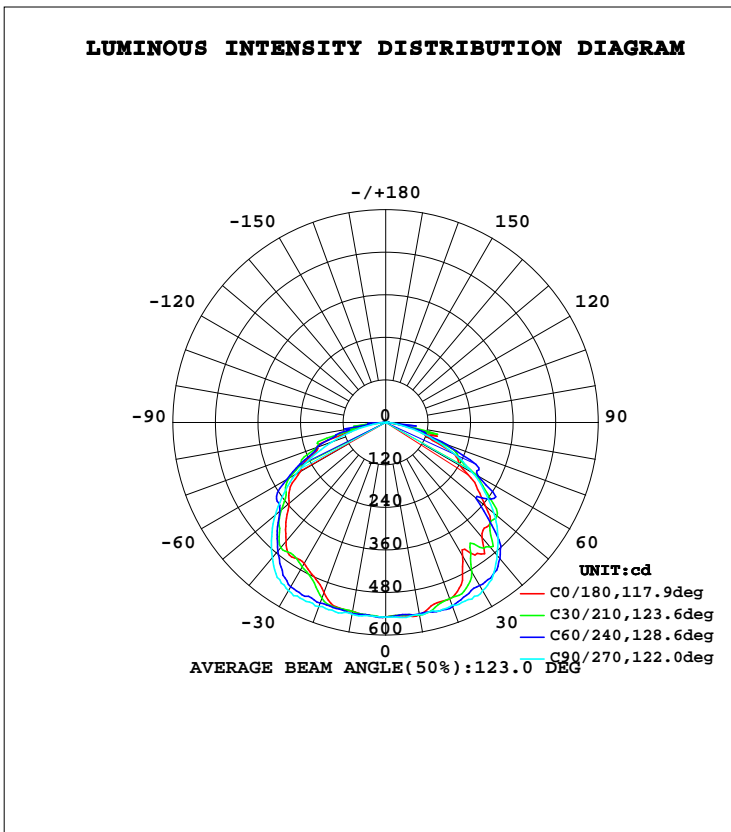


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 97.53 lm/W
MODEL	NT812018W	I <sub>max</sub> (cd)	557.8	S/MH(C0/180)	1.17	
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.46	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1806.7	η UP, DN(C0-180)	0.3, 49.3	
NOMINAL FLUX(lm)	1806.72	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3, 50.1	
LAMPS INSIDE	1	η up(%)	0.6	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	220.8	η down(%)	99.4	CIBSE SHR MAX	1.55	



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [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	551.0	552.1	550.2	546.1	540.9	544.0	549.0	549.9	0- 10	52.24	52.24	2.89,2.89
20	529.3	533.1	548.6	540.8	510.0	535.9	552.3	531.5	10- 20	153.7	206.0	11.4,11.4
30	433.2	523.1	547.2	493.5	459.8	491.4	548.5	522.5	20- 30	241.4	447.4	24.8,24.8
40	423.5	435.9	489.4	456.9	437.3	454.3	497.8	431.7	30- 40	304.4	751.8	41.6,41.6
50	368.0	417.1	399.2	422.2	356.0	424.7	407.2	413.6	40- 50	333.9	1086	60.1,60.1
60	242.7	326.2	281.9	314.9	279.1	320.9	293.7	333.3	50- 60	310.9	1397	77.3,77.3
70	134.9	178.8	151.6	208.5	205.7	215.6	162.0	181.4	60- 70	237.1	1634	90.4,90.4
80	50.20	87.72	38.91	76.39	75.61	80.35	43.33	95.65	70- 80	132.4	1766	97.8,97.8
90	6.571	8.027	0.0725	6.120	3.539	5.658	0.2961	8.559	80- 90	29.91	1796	99.4,99.4
100	1.829	3.011	0.1968	3.482	2.243	3.372	0.0621	2.703	90-100	3.808	1800	99.6,99.6
110	1.432	2.047	0.4350	2.162	1.553	2.289	0.2898	1.875	100-110	1.996	1802	99.7,99.7
120	1.280	1.309	0.6732	1.549	1.289	1.644	0.5071	1.301	110-120	1.352	1803	99.8,99.8
130	1.218	1.167	0.8390	1.191	1.198	1.206	0.6936	1.145	120-130	1.038	1804	99.9,99.9
140	1.208	1.102	0.9633	1.147	1.132	1.135	0.8285	1.074	130-140	0.8431	1805	99.9,99.9
150	1.199	1.086	1.067	1.171	1.158	1.174	0.9630	1.070	140-150	0.6833	1806	99.9,99.9
160	1.183	1.140	1.170	1.192	1.269	1.185	1.087	1.102	150-160	0.5208	1806	100,100
170	1.198	1.206	1.262	1.224	1.297	1.210	1.170	1.204	160-170	0.3359	1807	100,100
180	1.300	1.299	1.315	1.310	1.310	1.299	1.315	1.304	170-180	0.1190	1807	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

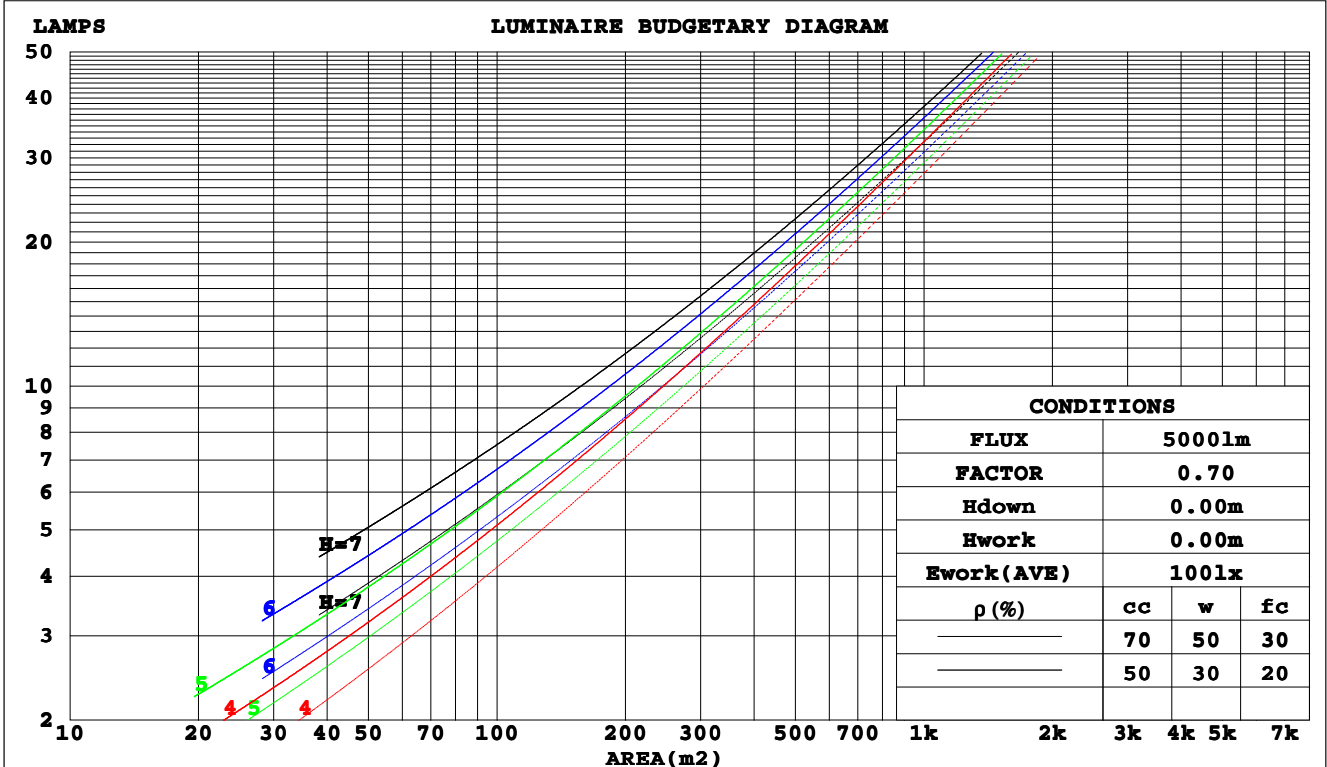
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Coefficients of Utilization(CU)</b>									
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	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.61	.52	.45	.60	.52	.45	.58	.50	.45	.56	.49	.44	.54	.48	.44	.41
6.0	.55	.46	.39	.54	.46	.39	.52	.45	.39	.50	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.34	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.25	.36	.29	.24	.35	.29	.24	.22



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2013-07-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 12.580m [K=1.0000]  
 Remarks:

WEC AND CCEC

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.314	.179	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.269	.156	.050	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.267	.150	.047	.257	.145	.046	
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.254	.132	.039	.249	.130	.038	.239	.127	.038	.231	.124	.037	.222	.121	.037	
5.0	.235	.120	.035	.230	.118	.034	.222	.115	.034	.214	.113	.034	.206	.110	.033	
6.0	.217	.109	.031	.213	.108	.031	.206	.106	.031	.199	.103	.030	.192	.101	.030	
7.0	.202	.100	.028	.199	.099	.028	.192	.097	.028	.185	.095	.028	.180	.093	.027	
8.0	.189	.092	.026	.185	.091	.026	.179	.090	.026	.174	.088	.025	.168	.086	.025	
9.0	.177	.085	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.166	.080	.022	.163	.079	.022	.158	.078	.022	.154	.076	.022	.149	.075	.022	

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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.185	.161	.139	.158	.138	.119	.108	.095	.082	.062	.055	.048	.020	.018	.016	
2.0	.178	.136	.102	.152	.117	.088	.104	.081	.061	.060	.047	.036	.019	.015	.012	
3.0	.170	.119	.078	.146	.103	.068	.100	.071	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.062	.140	.091	.054	.096	.064	.038	.056	.037	.023	.018	.012	.007	
5.0	.155	.095	.051	.133	.083	.045	.092	.058	.031	.053	.034	.019	.017	.011	.006	
6.0	.148	.087	.043	.127	.075	.038	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.080	.037	.122	.070	.033	.084	.049	.023	.049	.029	.014	.016	.009	.005	
8.0	.135	.074	.033	.116	.065	.029	.080	.045	.020	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.060	.026	.077	.042	.018	.045	.025	.011	.014	.008	.004	
10.0	.123	.065	.027	.106	.057	.023	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

NAME: indoor		TYPE:T8					WEIGHT:				
SPEC.:18W		DIM.:					SERIAL No.:20130705005				
MFR.: Nicholed		SUR.:					PROTECTION ANGLE:				
<b>ceiling/cavity</b>		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
<b>walls</b>		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
<b>working plane</b>		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Room dimensions</b>		<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>		16.6	18.2	16.9	18.4	18.6	17.0	18.6	17.3	18.8	19.0
	3H	17.9	19.3	18.2	19.5	19.8	18.5	19.9	18.8	20.1	20.4
	4H	18.6	19.9	18.9	20.2	20.5	18.7	20.0	19.0	20.3	20.6
	6H	18.9	20.2	19.3	20.5	20.8	18.9	20.2	19.3	20.5	20.8
	8H	18.9	20.1	19.2	20.4	20.7	18.9	20.2	19.3	20.5	20.8
	12H	18.8	20.0	19.2	20.3	20.6	18.9	20.1	19.3	20.4	20.7
	<b>4H 2H</b>	17.4	18.7	17.7	19.0	19.3	17.8	19.1	18.1	19.4	19.7
	3H	18.8	20.0	19.1	20.3	20.6	19.3	20.5	19.7	20.8	21.1
	4H	19.7	20.8	20.1	21.1	21.4	19.8	20.8	20.1	21.2	21.5
	6H	20.1	21.1	20.5	21.4	21.8	20.1	21.1	20.5	21.4	21.8
	8H	20.1	21.0	20.5	21.3	21.7	20.1	21.0	20.6	21.4	21.8
	12H	20.0	20.9	20.5	21.2	21.7	20.1	21.0	20.6	21.4	21.8
	<b>8H 4H</b>	20.0	20.9	20.4	21.3	21.7	20.0	20.9	20.4	21.3	21.7
	6H	20.5	21.3	21.0	21.7	22.1	20.5	21.2	20.9	21.6	22.1
	8H	20.5	21.2	21.0	21.6	22.1	20.6	21.3	21.1	21.7	22.2
	12H	20.5	21.1	21.0	21.5	22.0	20.7	21.2	21.2	21.7	22.2
	<b>12H 4H</b>	20.0	20.8	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.6
	6H	20.6	21.3	21.1	21.7	22.2	20.5	21.2	21.0	21.6	22.1
	8H	20.6	21.2	21.1	21.6	22.1	20.7	21.3	21.2	21.8	22.3
<b>Variations with the observer position at spacings:</b>											
<b>s = 1.0H</b>		+ 0.1 / - 0.1					+ 0.4 / - 0.3				
1.5H		+ 0.5 / - 0.7					+ 0.6 / - 0.7				
2.0H		+ 0.7 / - 1.2					+ 0.6 / - 0.5				

CIE Pub.117 Corrected 1807 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.1)

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:

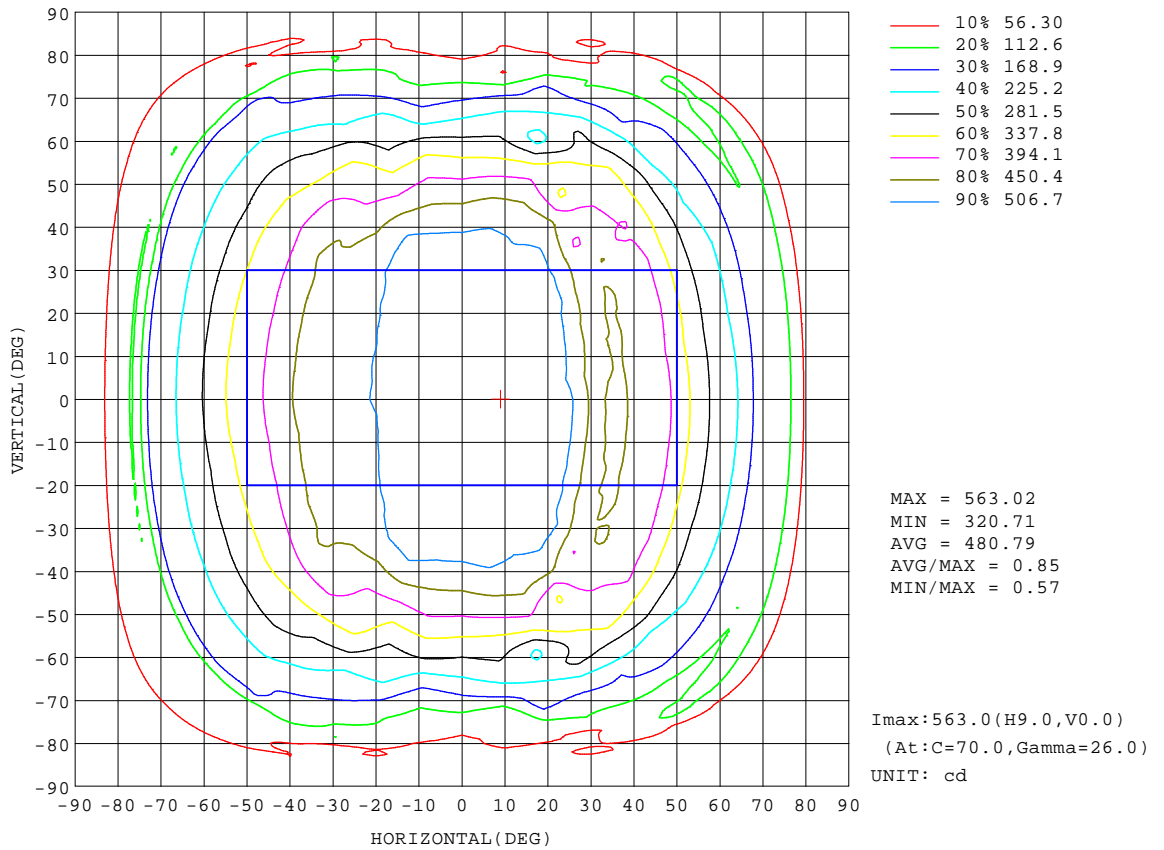
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	43	36	54	43	36	30
0.80	66	54	46	65	53	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	55	47
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:

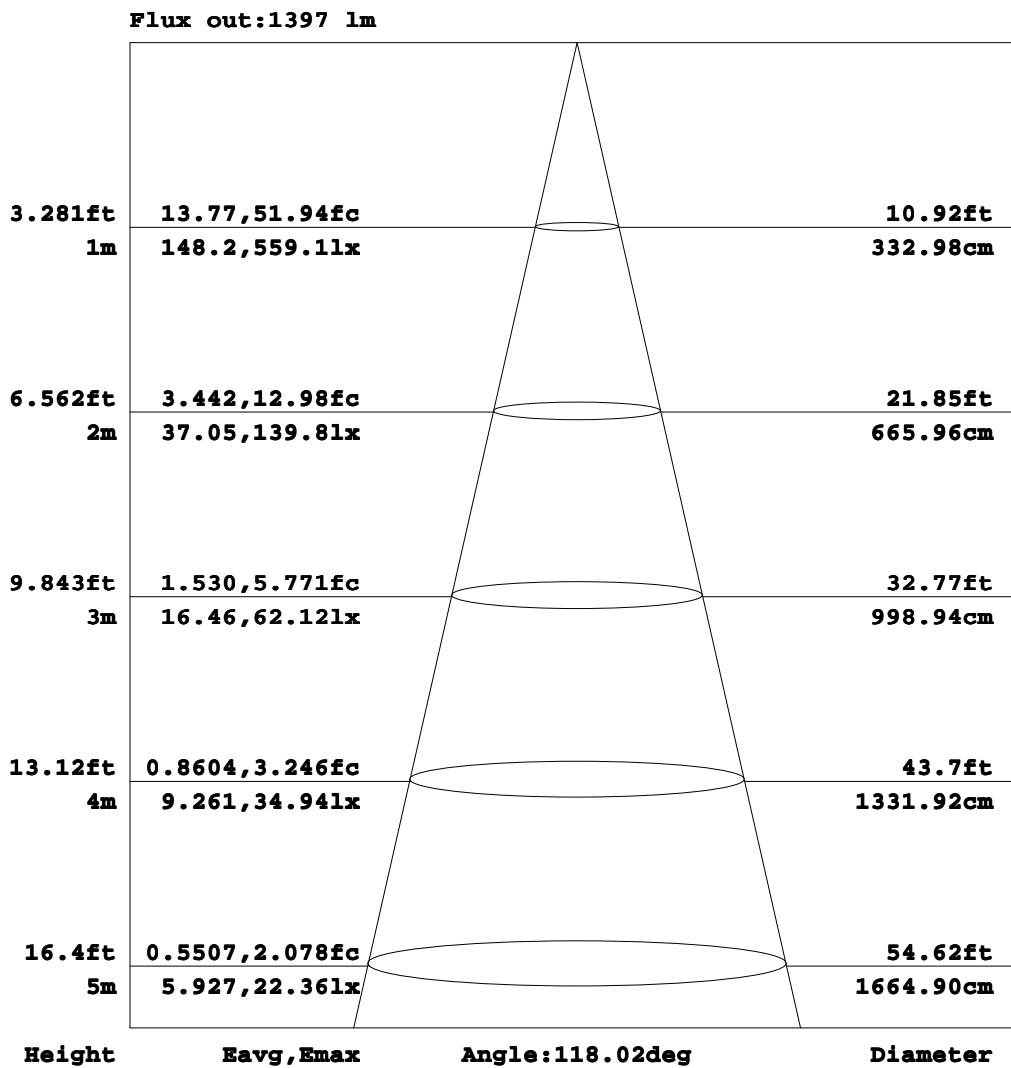


**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2013-07-05**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.281**  
**Humidity: 65.0%**  
**Test Distance: 12.580m [K=1.0000]**  
**Remarks:**

**AAI Figure**

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:



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

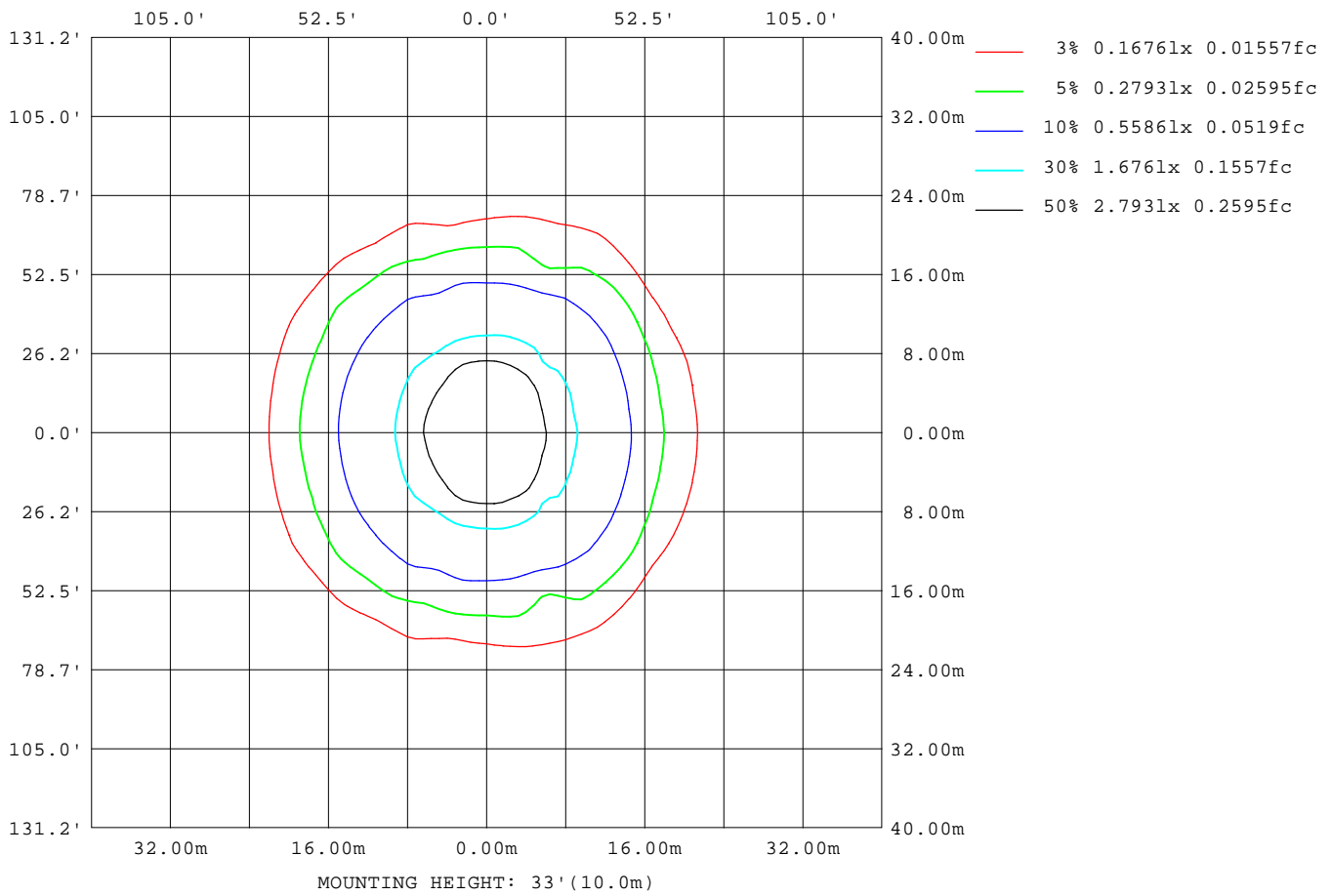
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

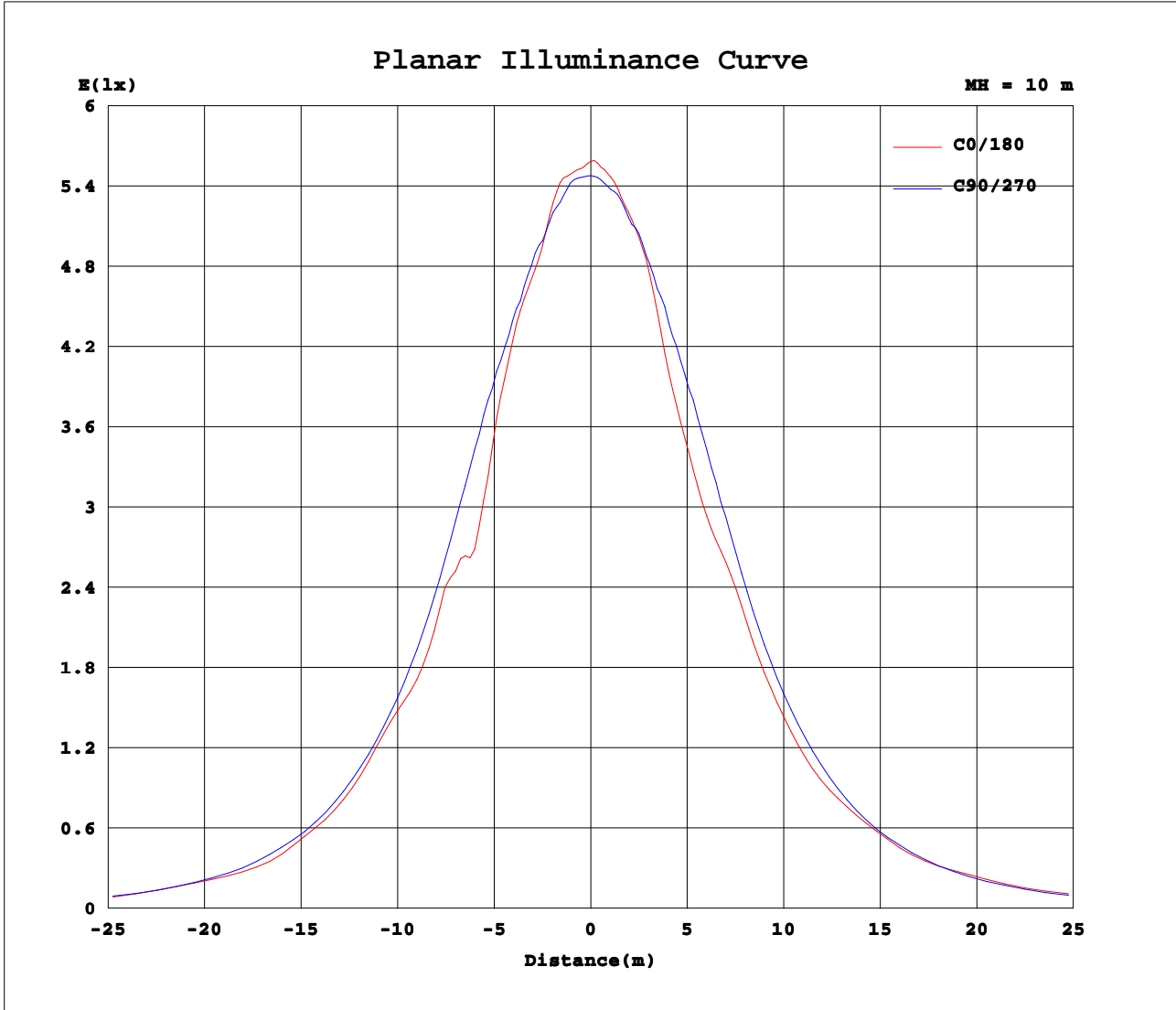
NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 12.580m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 12.580m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549
5	547	547	547	545	544	544	544	545	550	552	552	547	548	547	545	546	546	545	546
10	551	551	552	552	554	550	548	546	551	550	549	548	547	545	547	542	540	539	541
15	530	531	531	540	545	550	553	551	551	551	551	550	545	541	541	542	537	536	539
20	529	529	531	530	531	535	552	551	551	549	552	549	543	543	539	528	516	512	510
25	505	508	516	525	529	530	538	555	552	551	551	547	542	534	513	493	484	481	480
30	433	440	454	486	512	534	531	551	549	547	548	543	538	505	482	475	465	462	460
35	451	452	444	416	450	513	526	521	537	528	529	535	513	480	464	456	460	464	463
40	423	428	444	459	430	442	502	495	509	489	490	502	470	461	453	462	452	443	437
45	412	410	410	415	459	409	439	465	465	447	448	446	425	443	457	430	409	403	399
50	368	373	393	411	400	434	333	421	413	399	404	380	380	432	412	386	366	360	356
55	312	315	326	351	390	364	374	349	345	341	350	324	367	371	359	343	338	335	331
60	243	245	254	293	311	341	302	220	297	282	296	267	315	307	323	317	292	282	279
65	215	217	221	225	224	252	281	258	247	220	209	248	244	266	264	261	256	246	240
70	135	135	139	165	191	167	184	186	159	152	137	182	196	201	216	203	202	205	206
75	151	147	133	106	96.3	108	117	121	68.9	89.6	86.9	117	138	145	183	166	120	107	102
80	50.2	53.2	55.2	58.2	82.9	92.5	45.7	61.5	74.3	38.9	55.4	76.3	113	59.6	93.1	68.3	67.3	73.7	75.6
85	6.12	6.47	7.34	8.56	8.70	9.23	13.4	30.5	13.0	9.46	21.7	21.0	34.4	57.3	19.7	9.87	6.16	5.44	5.21
90	6.57	6.70	6.80	7.75	7.65	8.40	7.14	6.54	3.84	0.07	3.82	5.82	6.58	6.30	5.94	4.56	4.10	3.68	3.54
95	2.72	2.76	2.87	3.43	3.94	4.07	4.13	3.71	1.78	0.10	1.72	3.67	4.35	4.35	4.12	3.19	2.94	2.79	2.73
100	1.83	1.80	1.92	2.19	2.96	3.06	2.39	2.30	1.16	0.20	1.16	2.60	3.34	3.50	3.47	2.61	2.45	2.29	2.24
105	1.56	1.52	1.65	1.76	2.41	2.41	2.01	1.89	0.82	0.30	0.97	1.92	2.66	2.82	2.80	2.06	2.02	1.90	1.84
110	1.43	1.37	1.47	1.48	2.05	2.04	1.66	1.28	0.66	0.44	0.92	1.50	2.14	2.36	1.96	1.70	1.68	1.60	1.55
115	1.33	1.30	1.37	1.35	1.83	1.33	1.44	1.01	0.65	0.55	0.90	1.33	1.70	1.95	1.65	1.51	1.53	1.46	1.41
120	1.28	1.23	1.28	1.26	1.32	1.30	1.23	0.95	0.67	0.67	0.90	1.29	1.44	1.62	1.47	1.38	1.43	1.33	1.29
125	1.23	1.20	1.24	1.19	1.25	1.18	1.12	0.93	0.69	0.78	0.90	1.19	1.30	1.28	1.33	1.32	1.36	1.29	1.25
130	1.22	1.20	1.24	1.15	1.22	1.11	1.05	0.92	0.75	0.84	0.90	1.14	1.26	1.15	1.24	1.18	1.28	1.20	1.20
135	1.21	1.19	1.22	1.13	1.15	1.07	1.01	0.93	0.81	0.90	0.91	1.12	1.22	1.13	1.15	1.13	1.21	1.15	1.15
140	1.21	1.18	1.21	1.13	1.13	1.07	1.00	0.95	0.88	0.96	0.91	1.11	1.19	1.16	1.13	1.13	1.15	1.13	1.13
145	1.20	1.17	1.17	1.13	1.10	1.08	1.01	1.01	0.96	1.01	0.95	1.10	1.17	1.19	1.14	1.12	1.14	1.13	1.13
150	1.20	1.17	1.14	1.12	1.09	1.08	1.01	1.05	0.99	1.07	0.99	1.11	1.16	1.20	1.14	1.16	1.14	1.15	1.16
155	1.18	1.17	1.13	1.13	1.09	1.09	1.02	1.10	1.03	1.13	1.04	1.13	1.16	1.22	1.15	1.21	1.14	1.20	1.23
160	1.18	1.18	1.14	1.16	1.12	1.16	1.11	1.16	1.13	1.17	1.11	1.17	1.16	1.22	1.16	1.24	1.16	1.24	1.27
165	1.19	1.22	1.15	1.21	1.14	1.19	1.13	1.21	1.15	1.23	1.14	1.20	1.17	1.23	1.18	1.25	1.19	1.27	1.29
170	1.20	1.26	1.19	1.24	1.17	1.24	1.17	1.26	1.20	1.26	1.18	1.25	1.17	1.25	1.20	1.27	1.20	1.28	1.30
175	1.27	1.31	1.26	1.29	1.22	1.29	1.23	1.29	1.25	1.32	1.24	1.29	1.23	1.29	1.21	1.30	1.22	1.30	1.31
180	1.30	1.31	1.29	1.30	1.29	1.31	1.30	1.31	1.31	1.32	1.31	1.32	1.30	1.31	1.31	1.32	1.32	1.32	1.31

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 12.580m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: indoor	TYPE:T8	WEIGHT:
SPEC.:18W	DIM.:	SERIAL No.:20130705005
MFR.: Nicholed	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C( DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549		
5	545	546	546	546	545	546	550	552	547	551	549	544	544	545	547	547	548		
10	540	541	541	542	545	547	547	550	549	547	546	548	550	550	555	554	553		
15	537	538	540	540	538	543	545	551	553	549	547	551	555	546	541	535	532		
20	509	519	527	534	538	542	546	553	552	549	555	554	537	526	529	531	530		
25	478	487	489	511	531	541	544	550	551	550	556	541	532	531	525	515	508		
30	459	465	471	481	502	536	541	550	549	545	549	533	531	514	486	458	439		
35	462	457	456	461	476	509	534	538	534	534	525	522	509	461	417	443	452		
40	439	450	460	452	457	474	506	502	498	509	499	504	445	419	458	449	427		
45	401	410	423	455	448	433	450	461	455	472	468	460	394	455	414	409	411		
50	357	366	384	413	436	390	384	416	407	423	430	355	433	394	412	397	375		
55	333	340	343	366	376	376	332	364	351	358	364	362	369	388	353	330	317		
60	281	293	315	330	312	322	278	303	294	300	246	314	353	314	294	261	247		
65	243	259	263	272	271	254	261	213	230	250	242	288	262	233	223	225	219		
70	205	203	206	226	205	206	191	149	162	182	185	197	168	194	169	145	137		
75	105	127	173	188	150	146	126	100	101	67.5	140	112	125	104	102	126	148		
80	74.0	64.8	73.9	95.9	64.8	113	82.3	64.9	43.3	68.7	57.8	51.3	70.1	121	63.3	56.5	53.0		
85	5.49	6.50	11.2	39.7	71.0	25.8	22.7	28.8	11.8	16.2	21.7	29.5	11.8	9.45	8.53	7.93	6.49		
90	3.66	3.85	4.52	5.40	5.91	6.40	6.30	5.31	0.30	5.57	6.69	8.36	8.63	8.49	7.73	7.13	6.69		
95	2.77	2.90	3.28	4.06	4.23	4.43	3.89	2.02	0.06	1.72	3.60	4.24	3.97	3.97	3.60	2.97	2.81		
100	2.32	2.40	2.68	3.35	3.40	3.36	2.77	1.28	0.06	0.95	2.26	2.95	3.04	2.37	2.58	1.95	1.87		
105	1.90	1.93	2.10	2.75	2.73	2.63	2.07	0.98	0.14	0.63	1.89	2.02	2.34	2.28	2.06	1.62	1.60		
110	1.62	1.58	1.76	2.27	2.31	2.11	1.61	0.93	0.29	0.60	1.42	1.72	1.86	1.89	1.75	1.36	1.43		
115	1.45	1.44	1.56	1.93	1.94	1.64	1.40	0.92	0.38	0.60	1.07	1.39	1.45	1.62	1.54	1.29	1.32		
120	1.36	1.33	1.43	1.67	1.62	1.37	1.30	0.90	0.51	0.64	0.94	1.16	1.35	1.25	1.43	1.20	1.25		
125	1.32	1.27	1.34	1.45	1.41	1.21	1.24	0.89	0.63	0.71	0.88	1.04	1.28	1.15	1.21	1.17	1.21		
130	1.25	1.19	1.23	1.16	1.25	1.20	1.19	0.90	0.69	0.76	0.88	0.99	1.16	1.13	1.18	1.16	1.20		
135	1.20	1.13	1.17	1.13	1.17	1.19	1.13	0.93	0.79	0.84	0.89	0.99	1.10	1.09	1.17	1.14	1.19		
140	1.14	1.12	1.11	1.12	1.15	1.19	1.09	0.96	0.83	0.90	0.89	0.99	1.06	1.09	1.16	1.14	1.19		
145	1.12	1.12	1.10	1.13	1.15	1.18	1.08	0.99	0.89	0.97	0.89	1.00	1.05	1.08	1.13	1.14	1.18		
150	1.12	1.14	1.12	1.19	1.15	1.17	1.09	1.05	0.96	1.04	0.96	1.03	1.06	1.08	1.10	1.14	1.17		
155	1.12	1.20	1.13	1.20	1.15	1.17	1.09	1.10	1.01	1.08	1.01	1.08	1.06	1.10	1.10	1.13	1.17		
160	1.15	1.24	1.15	1.22	1.15	1.19	1.10	1.16	1.09	1.14	1.06	1.14	1.06	1.14	1.12	1.16	1.17		
165	1.19	1.25	1.18	1.23	1.16	1.20	1.13	1.21	1.14	1.20	1.13	1.18	1.14	1.18	1.15	1.19	1.17		
170	1.21	1.26	1.19	1.24	1.18	1.24	1.17	1.26	1.17	1.24	1.15	1.23	1.16	1.25	1.16	1.25	1.18		
175	1.24	1.29	1.21	1.28	1.22	1.30	1.23	1.31	1.21	1.29	1.20	1.29	1.21	1.28	1.20	1.29	1.23		
180	1.28	1.30	1.29	1.32	1.28	1.31	1.30	1.32	1.32	1.32	1.30	1.31	1.30	1.31	1.31	1.32	1.31		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2013-07-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:12.580m [K=1.0000]  
 Remarks: