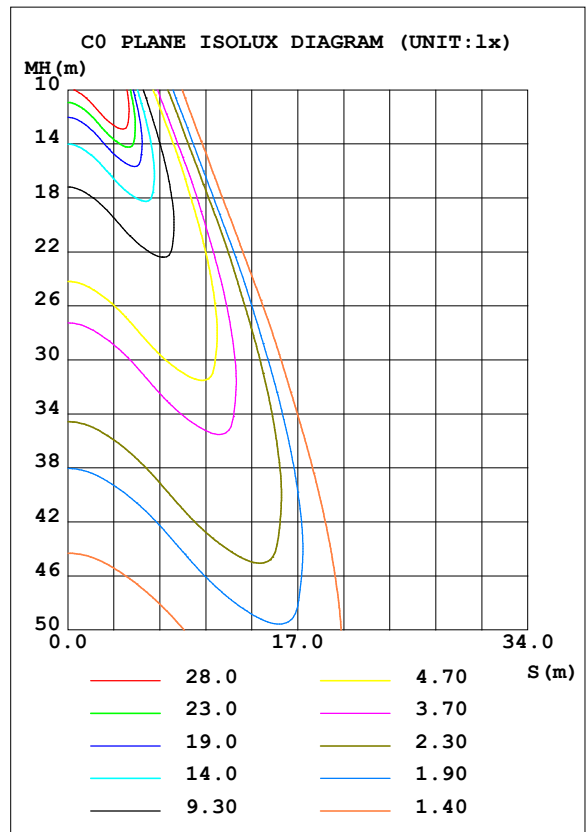
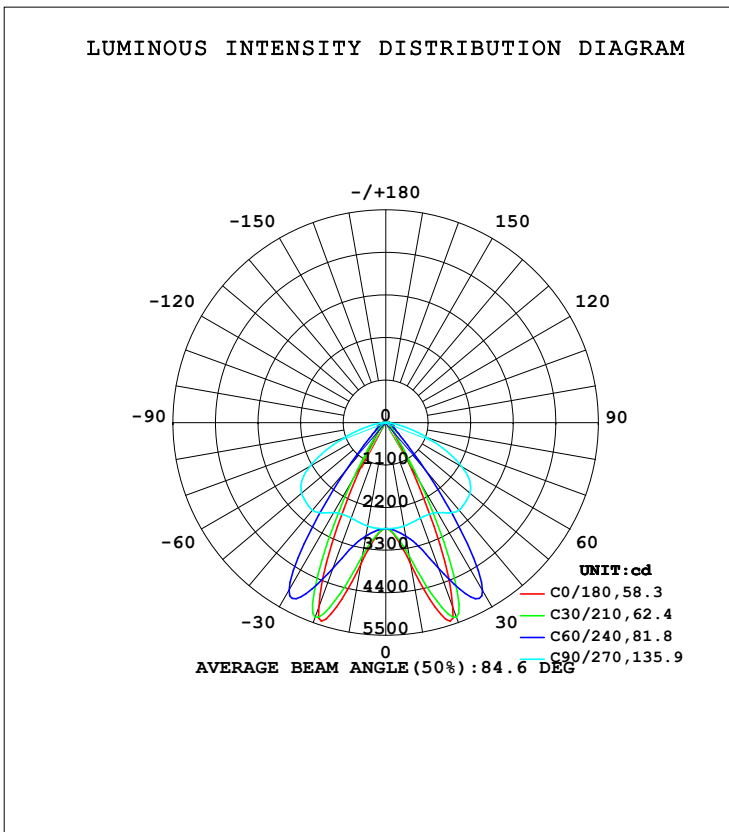


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.66 lm/W			
MODEL		I <sub>max</sub> (cd)	5396	S/MH (C0/180)	0.83
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.64
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	6442.3	η UP, DN (C0-180)	1.4, 48.6
NOMINAL FLUX (lm)	6442.26	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.4, 48.6
LAMPS INSIDE	1	η up (%)	2.8	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	230	η down (%)	97.2	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3701	3219	2716	3219	3701	3219	2716	3219	0- 10	284.4	284.4	4.42,4.42
20	5076	4978	2629	4978	5076	4978	2629	4978	10- 20	1119	1403	21.8,21.8
30	1150	3174	2686	3174	1150	3174	2686	3174	20- 30	1720	3123	48.5,48.5
40	318.9	583.0	2956	583.0	318.9	583.0	2956	583.0	30- 40	1269	4393	68.2,68.2
50	180.3	259.0	2844	259.0	180.3	259.0	2844	259.0	40- 50	822.3	5215	80.9,80.9
60	123.8	150.9	2269	150.9	123.8	150.9	2269	150.9	50- 60	488.3	5703	88.5,88.5
70	193.0	112.4	1140	112.4	193.0	112.4	1140	112.4	60- 70	313.7	6017	93.4,93.4
80	95.41	66.60	307.2	66.60	95.41	66.60	307.2	66.60	70- 80	177.1	6194	96.1,96.1
90	75.23	39.08	2.018	39.08	75.23	39.08	2.018	39.08	80- 90	69.67	6264	97.2,97.2
100	68.20	38.00	3.721	38.00	68.20	38.00	3.721	38.00	90-100	41.22	6305	97.9,97.9
110	54.55	31.41	6.263	31.41	54.55	31.41	6.263	31.41	100-110	36.83	6342	98.4,98.4
120	41.04	23.23	9.586	23.23	41.04	23.23	9.586	23.23	110-120	26.72	6368	98.9,98.9
130	32.99	21.84	12.84	21.84	32.99	21.84	12.84	21.84	120-130	20.69	6389	99.2,99.2
140	31.28	22.72	16.25	22.72	31.28	22.72	16.25	22.72	130-140	17.38	6407	99.4,99.4
150	30.73	24.23	20.06	24.23	30.73	24.23	20.06	24.23	140-150	14.64	6421	99.7,99.7
160	31.00	24.64	24.27	24.64	31.00	24.64	24.27	24.64	150-160	11.28	6432	99.8,99.8
170	28.79	25.25	27.02	25.25	28.79	25.25	27.02	25.25	160-170	7.217	6440	100,100
180	29.99	26.91	28.51	26.91	29.99	26.91	28.51	26.91	170-180	2.575	6442	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4854.9 lm

%lum = 75.4%

%lamp = 75.4%

Conical surface Flux(120deg): 5703.3 lm

%lum = 88.5%

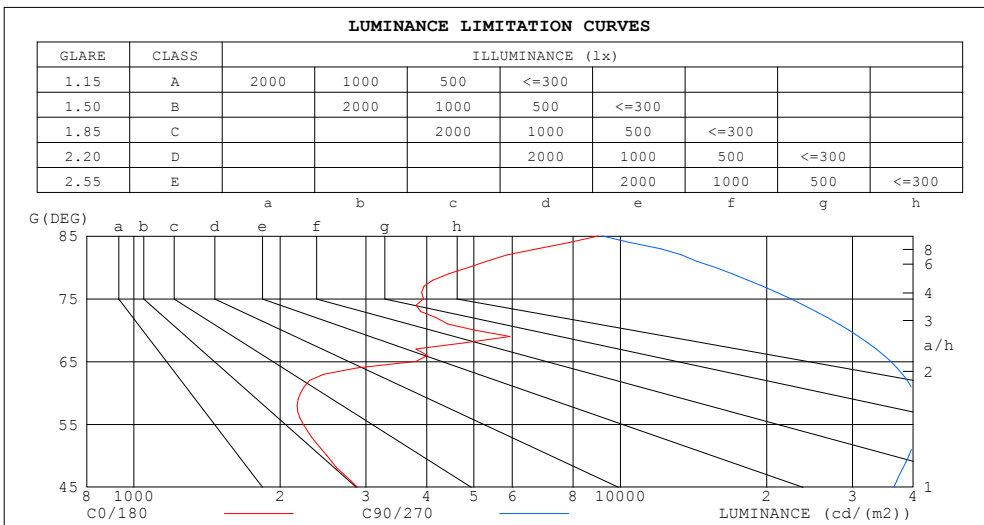
%lamp = 88.5%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



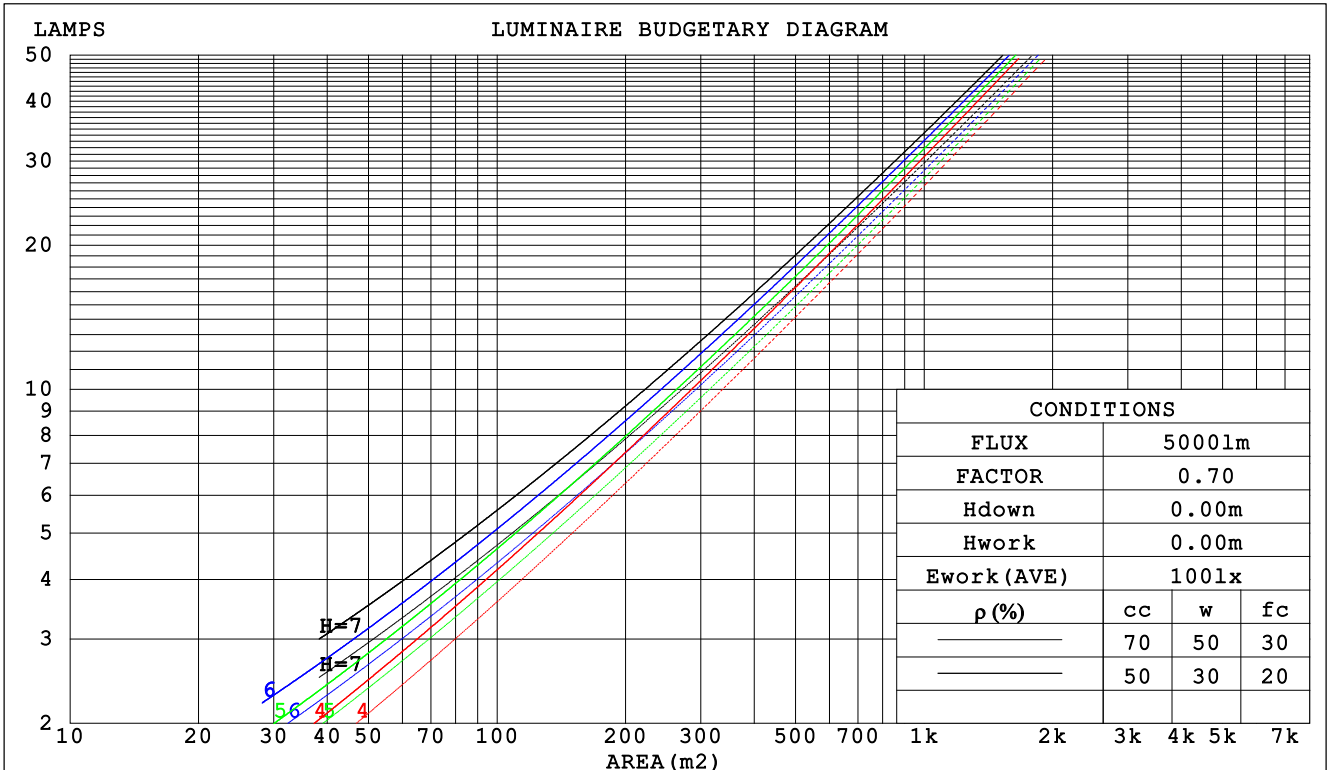
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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															
	Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.07	1.03	1.00	1.04	1.01	.99	.90	.97	.95	.95	.93	.92	.91	.90	.88	.86
2.0	.96	.91	.87	.94	.89	.85	.91	.86	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.87	.81	.76	.86	.80	.75	.83	.77	.73	.80	.75	.72	.77	.73	.70	.68
4.0	.80	.73	.67	.78	.72	.66	.76	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.73	.65	.60	.72	.65	.60	.69	.63	.59	.67	.62	.58	.65	.61	.57	.55
6.0	.67	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.61	.56	.52	.50
7.0	.62	.54	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.56	.51	.48	.46
8.0	.57	.50	.45	.57	.50	.45	.55	.49	.44	.54	.48	.44	.52	.47	.44	.42
9.0	.53	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.49	.44	.40	.39
10.0	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.46	.41	.37	.36



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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	.241	.137	.043	.233	.133	.042	.219	.126	.040	.205	.119	.038	.193	.112	.036	
2.0	.228	.125	.038	.221	.122	.038	.209	.116	.036	.197	.111	.035	.186	.105	.033	
3.0	.214	.114	.034	.208	.112	.034	.197	.107	.032	.187	.102	.031	.178	.098	.030	
4.0	.201	.104	.031	.196	.102	.030	.186	.099	.029	.177	.095	.029	.168	.091	.028	
5.0	.189	.096	.028	.184	.094	.028	.175	.091	.027	.167	.088	.026	.160	.085	.026	
6.0	.177	.089	.025	.173	.088	.025	.166	.085	.025	.158	.082	.024	.152	.080	.024	
7.0	.167	.083	.023	.164	.082	.023	.157	.079	.023	.150	.077	.022	.144	.075	.022	
8.0	.158	.077	.022	.155	.076	.022	.149	.074	.021	.143	.072	.021	.137	.071	.021	
9.0	.150	.073	.020	.147	.072	.020	.141	.070	.020	.136	.068	.020	.131	.067	.019	
10.0	.143	.068	.019	.140	.068	.019	.135	.066	.019	.130	.064	.018	.125	.063	.018	

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	.212	.212	.212	.181	.181	.181	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.197	.178	.161	.168	.153	.139	.115	.105	.096	.066	.061	.056	.021	.020	.018	
2.0	.185	.154	.127	.159	.132	.110	.109	.092	.077	.063	.053	.045	.020	.017	.015	
3.0	.175	.135	.104	.150	.117	.090	.103	.081	.063	.060	.047	.037	.019	.015	.012	
4.0	.167	.122	.087	.143	.105	.076	.098	.073	.053	.057	.043	.032	.018	.014	.010	
5.0	.159	.111	.075	.136	.096	.065	.094	.067	.046	.054	.039	.027	.018	.013	.009	
6.0	.152	.102	.066	.130	.088	.058	.090	.062	.041	.052	.036	.024	.017	.012	.008	
7.0	.145	.095	.059	.125	.082	.052	.086	.058	.037	.050	.034	.022	.016	.011	.007	
8.0	.140	.089	.054	.120	.077	.047	.083	.054	.033	.048	.032	.020	.016	.010	.007	
9.0	.134	.084	.050	.116	.073	.044	.080	.051	.031	.047	.030	.018	.015	.010	.006	
10.0	.129	.080	.047	.111	.069	.041	.077	.049	.029	.045	.029	.017	.015	.009	.006	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm										
NAME: TR01-40W-60°					TYPE:TR01-40W-60°			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:			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	3.8	5.0	4.1	5.2	5.5	17.6	18.8	17.9	19.0	19.2
3H	7.3	8.4	7.6	8.6	8.9	18.9	20.0	19.2	20.2	20.5
4H	8.1	9.2	8.5	9.5	9.8	19.3	20.4	19.7	20.7	21.0
6H	9.0	10.0	9.4	10.3	10.6	19.6	20.6	20.0	20.9	21.2
8H	9.6	10.5	10.0	10.8	11.2	19.7	20.7	20.1	21.0	21.3
12H	10.4	11.3	10.8	11.6	12.0	19.7	20.6	20.1	21.0	21.3
4H 2H	4.7	5.7	5.0	6.0	6.3	17.3	18.3	17.6	18.6	18.9
3H	8.2	9.1	8.6	9.4	9.8	18.6	19.5	19.0	19.8	20.2
4H	9.2	10.0	9.6	10.3	10.7	19.1	19.9	19.5	20.3	20.7
6H	10.2	10.9	10.6	11.3	11.7	19.4	20.2	19.9	20.6	21.0
8H	10.9	11.6	11.3	12.0	12.4	19.6	20.2	20.0	20.6	21.1
12H	11.8	12.4	12.3	12.9	13.3	19.6	20.2	20.1	20.6	21.1
8H 4H	9.5	10.1	9.9	10.5	11.0	19.0	19.6	19.4	20.1	20.5
6H	10.7	11.3	11.2	11.7	12.2	19.3	19.9	19.8	20.3	20.8
8H	11.6	12.1	12.1	12.5	13.0	19.5	20.0	20.0	20.4	20.9
12H	12.8	13.2	13.3	13.7	14.2	19.5	19.9	20.0	20.4	21.0
12H 4H	9.5	10.1	10.0	10.5	11.0	18.9	19.5	19.4	20.0	20.4
6H	10.8	11.3	11.3	11.7	12.3	19.3	19.8	19.8	20.3	20.8
8H	11.7	12.2	12.2	12.6	13.2	19.4	19.8	19.9	20.3	20.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 1.5 / - 2.3				
1.5H	+ 0.9 / - 0.6					+ 2.7 / - 4.7				
2.0H	+ 0.2 / - 0.2					+ 4.1 / - 6.0				

CIE Pub.117, 6442 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.5)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

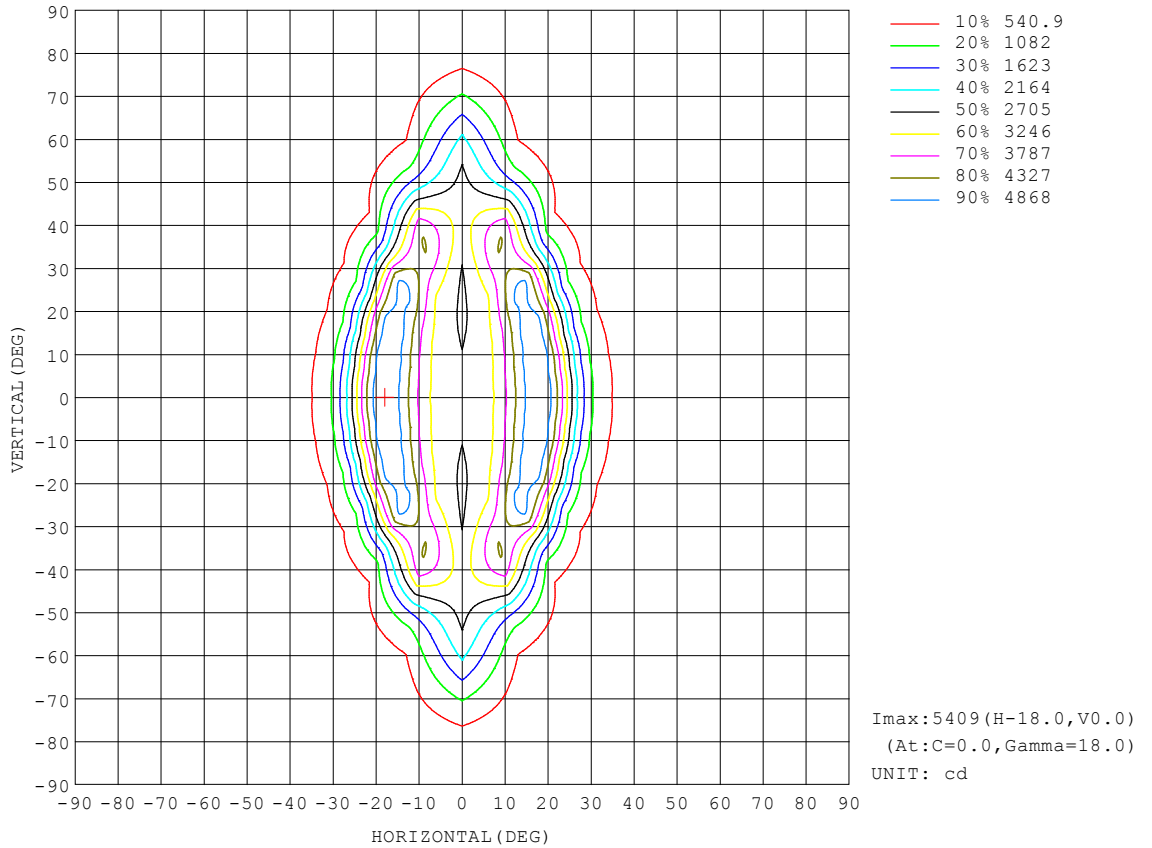
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	57	71	63	57	70	62	57	52
0.80	81	72	66	80	71	66	78	71	66	60
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	85	80	91	84	79	89	83	78	72
1.50	97	89	84	95	88	84	92	87	82	76
2.00	101	95	90	100	94	89	96	91	88	81
2.50	104	98	94	102	97	93	98	94	91	83
3.00	106	101	97	104	100	96	100	97	93	85
4.00	109	105	102	107	103	100	103	100	97	88
5.00	111	108	105	109	105	103	104	101	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



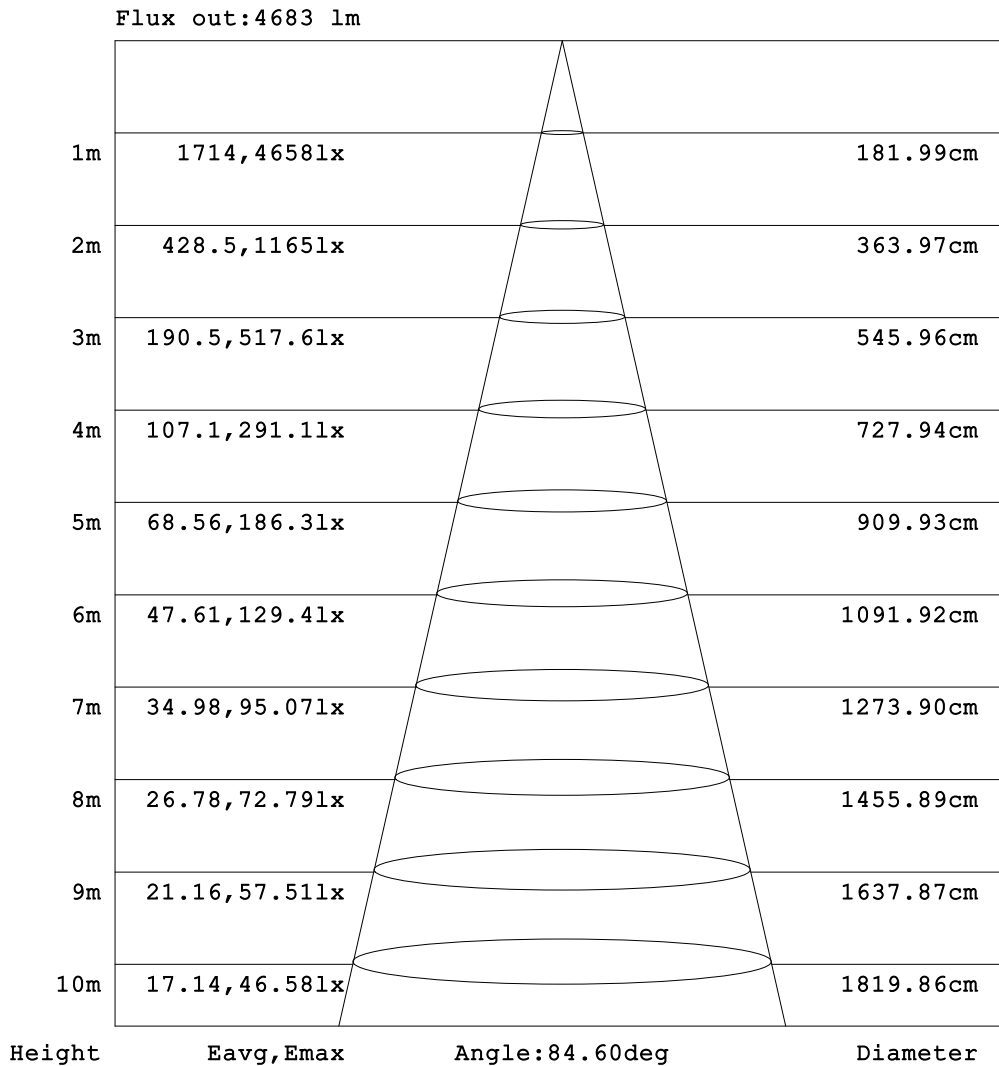
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



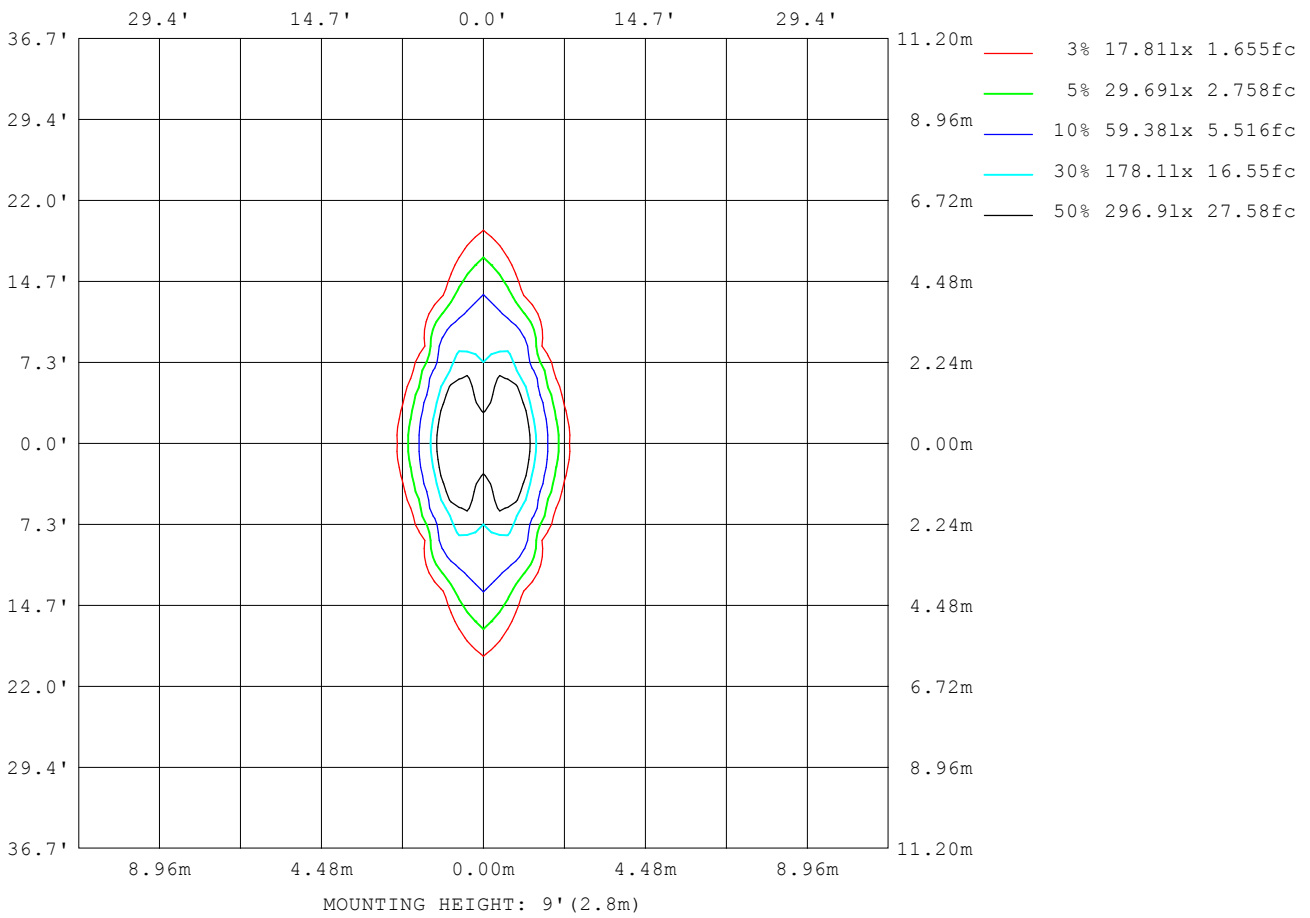
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

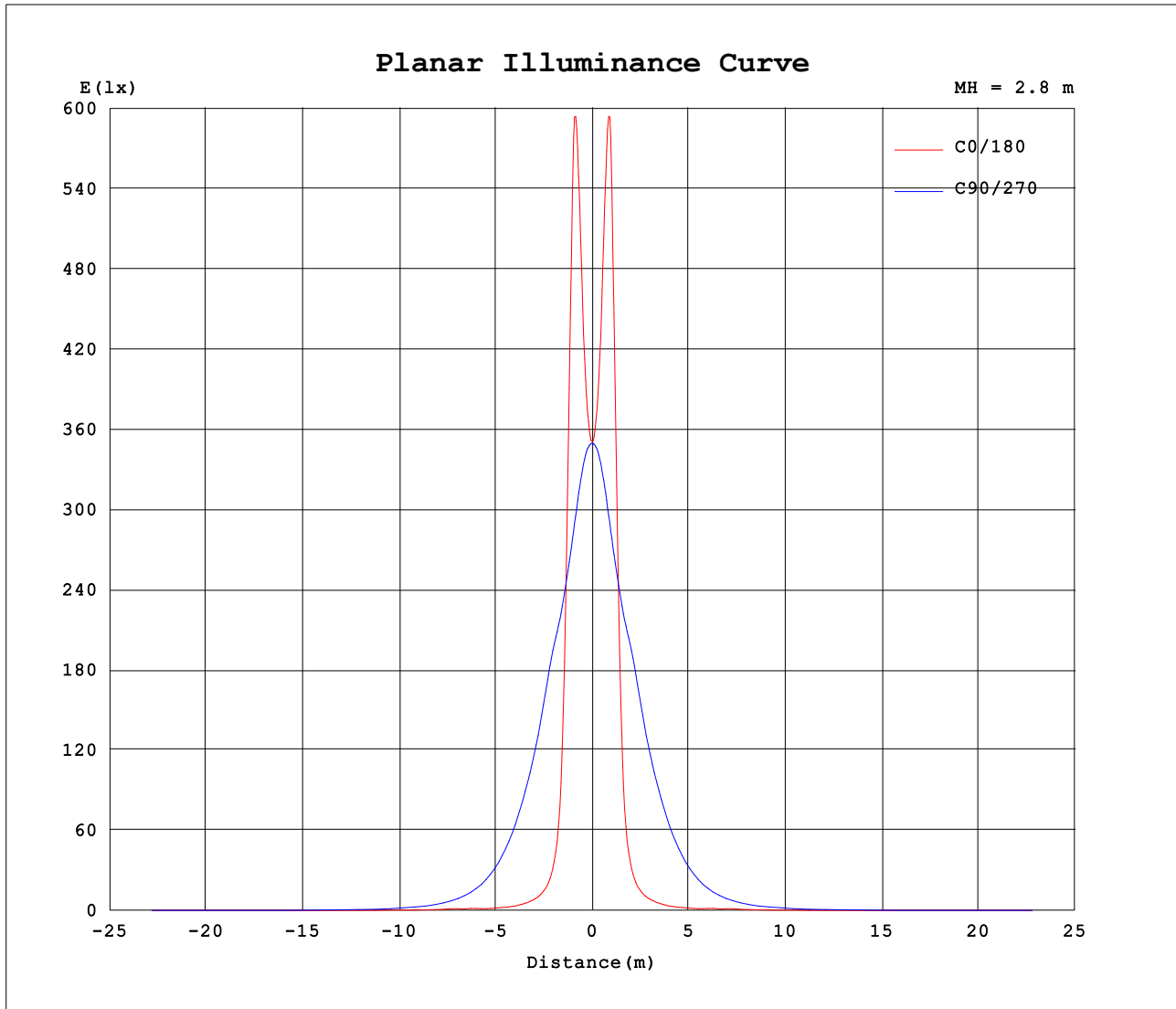
AvgL	cd/m2
L_0~180 (65) av	3788
L_0~180 (75) av	3931
L_0~180 (85) av	8994
L_90~270 (65) av	36011
L_90~270 (75) av	22421
L_90~270 (85) av	9197
L_45 (65) av	2444
L_45 (75) av	3865
L_45 (85) av	5096

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 30 October 2017

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742
5	2965	2965	2933	2862	2805	2757	2740	2757	2805	2862	2933	2965	2965	2965	2933	2862	2805	2757	2740
10	3701	3666	3497	3219	2978	2785	2716	2785	2978	3219	3497	3666	3701	3666	3497	3219	2978	2785	2716
15	4933	4870	4583	3982	3315	2841	2670	2841	3315	3982	4583	4870	4933	4870	4583	3982	3315	2841	2670
20	5076	5143	5356	4978	4012	2975	2629	2975	4012	4978	5356	5143	5076	5143	5356	4978	4012	2975	2629
25	2959	3143	3906	5075	4874	3308	2623	3308	4874	5075	3906	3143	2959	3143	3906	5075	4874	3308	2623
30	1150	1258	1726	3174	5009	3892	2686	3892	5009	3174	1726	1258	1150	1258	1726	3174	5009	3892	2686
35	530	566	698	1308	3374	4360	2848	4360	3374	1308	698	566	530	566	698	1308	3374	4360	2848
40	319	338	390	583	1592	4219	2956	4219	1592	583	390	338	319	338	390	583	1592	4219	2956
45	230	240	270	356	702	3202	2914	3202	702	356	270	240	230	240	270	356	702	3202	2914
50	180	187	205	259	413	1905	2844	1905	413	259	205	187	180	187	205	259	413	1905	2844
55	144	149	160	199	291	1010	2656	1010	291	199	160	149	144	149	160	199	291	1010	2656
60	124	122	125	151	226	572	2269	572	226	151	125	122	124	122	125	151	226	572	2269
65	181	164	116	117	176	368	1717	368	176	117	116	164	181	164	116	117	176	368	1717
70	193	222	146	112	126	260	1140	260	126	112	146	222	193	222	146	112	126	260	1140
75	115	111	100	113	91.1	180	655	180	91.1	113	100	111	115	111	100	113	91.1	180	655
80	95.4	89.9	78.0	66.6	63.5	102	307	102	63.5	66.6	78.0	89.9	95.4	89.9	78.0	66.6	63.5	102	307
85	88.4	85.1	68.3	50.1	36.4	38.5	90.4	38.5	36.4	50.1	68.3	85.1	88.4	85.1	68.3	50.1	36.4	38.5	90.4
90	75.2	70.9	60.0	39.1	21.3	8.85	2.02	8.85	21.3	39.1	60.0	70.9	75.2	70.9	60.0	39.1	21.3	8.85	2.02
95	70.1	67.0	54.5	38.2	20.1	8.37	2.76	8.37	20.1	38.2	54.5	67.0	70.1	67.0	54.5	38.2	20.1	8.37	2.76
100	68.2	65.1	55.1	38.0	21.2	9.38	3.72	9.38	21.2	38.0	55.1	65.1	68.2	65.1	55.1	38.0	21.2	9.38	3.72
105	62.0	59.0	50.6	36.0	21.2	10.2	4.90	10.2	21.2	36.0	50.6	59.0	62.0	59.0	50.6	36.0	21.2	10.2	4.90
110	54.5	50.7	42.0	31.4	19.1	10.6	6.26	10.6	19.1	31.4	42.0	50.7	54.5	50.7	42.0	31.4	19.1	10.6	6.26
115	46.4	42.2	35.0	27.2	16.7	11.1	7.83	11.1	16.7	27.2	35.0	42.2	46.4	42.2	35.0	27.2	16.7	11.1	7.83
120	41.0	36.8	31.1	23.2	16.5	12.3	9.59	12.3	16.5	23.2	31.1	36.8	41.0	36.8	31.1	23.2	16.5	12.3	9.59
125	36.9	32.7	28.0	21.8	17.1	13.8	11.4	13.8	17.1	21.8	28.0	32.7	36.9	32.7	28.0	21.8	17.1	13.8	11.4
130	33.0	29.8	26.0	21.8	18.2	15.4	12.8	15.4	18.2	21.8	26.0	29.8	33.0	29.8	26.0	21.8	18.2	15.4	12.8
135	31.7	28.8	25.0	22.1	19.4	15.7	14.4	15.7	19.4	22.1	25.0	28.8	31.7	28.8	25.0	22.1	19.4	15.7	14.4
140	31.3	28.3	24.8	22.7	20.7	17.1	16.3	17.1	20.7	22.7	24.8	28.3	31.3	28.3	24.8	22.7	20.7	17.1	16.3
145	30.7	27.2	24.9	23.5	21.3	18.5	18.2	18.5	21.3	23.5	24.9	27.2	30.7	27.2	24.9	23.5	21.3	18.5	18.2
150	30.7	26.1	25.5	24.2	21.7	19.8	20.1	19.8	21.7	24.2	25.5	26.1	30.7	26.1	25.5	24.2	21.7	19.8	20.1
155	31.0	25.7	25.9	24.5	22.4	21.4	22.2	21.4	22.4	24.5	25.9	25.7	31.0	25.7	25.9	24.5	22.4	21.4	22.2
160	31.0	25.6	25.9	24.6	23.3	23.2	24.3	23.2	23.3	24.6	25.9	25.6	31.0	25.6	25.9	24.6	23.3	23.2	24.3
165	29.0	25.3	26.1	25.1	24.0	24.8	25.9	24.8	24.0	25.1	26.1	25.3	29.0	25.3	26.1	25.1	24.0	24.8	25.9
170	28.8	26.4	26.4	25.3	24.9	26.3	27.0	26.3	24.9	25.3	26.4	26.4	28.8	26.4	26.4	25.3	24.9	26.3	27.0
175	29.2	27.7	27.2	26.0	26.4	28.1	28.1	28.1	26.4	26.0	27.2	27.7	29.2	27.7	27.2	26.0	26.4	28.1	28.1
180	30.0	29.0	27.9	26.9	28.0	29.0	28.5	29.0	28.0	26.9	27.9	29.0	30.0	29.0	27.9	26.9	28.0	29.0	28.5

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.1870A P:41.39W PF:0.9607 Freq:49.99Hz Lamp Flux:6442.26x1 lm		
NAME: TR01-40W-60°	TYPE:TR01-40W-60°	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2742	2742	2742	2742	2742														
5	2757	2805	2862	2933	2965														
10	2785	2978	3219	3497	3666														
15	2841	3315	3982	4583	4870														
20	2975	4012	4978	5356	5143														
25	3308	4874	5075	3906	3143														
30	3892	5009	3174	1726	1258														
35	4360	3374	1308	698	566														
40	4219	1592	583	390	338														
45	3202	702	356	270	240														
50	1905	413	259	205	187														
55	1010	291	199	160	149														
60	572	226	151	125	122														
65	368	176	117	116	164														
70	260	126	112	146	222														
75	180	91.1	113	100	111														
80	102	63.5	66.6	78.0	89.9														
85	38.5	36.4	50.1	68.3	85.1														
90	8.85	21.3	39.1	60.0	70.9														
95	8.37	20.1	38.2	54.5	67.0														
100	9.38	21.2	38.0	55.1	65.1														
105	10.2	21.2	36.0	50.6	59.0														
110	10.6	19.1	31.4	42.0	50.7														
115	11.1	16.7	27.2	35.0	42.2														
120	12.3	16.5	23.2	31.1	36.8														
125	13.8	17.1	21.8	28.0	32.7														
130	15.4	18.2	21.8	26.0	29.8														
135	15.7	19.4	22.1	25.0	28.8														
140	17.1	20.7	22.7	24.8	28.3														
145	18.5	21.3	23.5	24.9	27.2														
150	19.8	21.7	24.2	25.5	26.1														
155	21.4	22.4	24.5	25.9	25.7														
160	23.2	23.3	24.6	25.9	25.6														
165	24.8	24.0	25.1	26.1	25.3														
170	26.3	24.9	25.3	26.4	26.4														
175	28.1	26.4	26.0	27.2	27.7														
180	29.0	28.0	26.9	27.9	29.0														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

**Photometric Data Table [cd]**

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742
3.0	2821	2825	2814	2787	2765	2747	2742	2747	2765	2787
6.0	3060	3058	3011	2914	2830	2761	2739	2761	2830	2914
9.0	3491	3469	3342	3126	2935	2780	2723	2780	2935	3126
12.0	4198	4147	3895	3458	3083	2802	2698	2802	3083	3458
15.0	4933	4870	4583	3982	3315	2841	2670	2841	3315	3982
18.0	5396	5368	5186	4590	3688	2905	2642	2905	3688	4590
21.0	4751	4815	5273	5143	4185	3021	2625	3021	4185	5143
24.0	3447	3624	4345	5264	4714	3219	2621	3219	4714	5264
27.0	2062	2240	2965	4435	5109	3522	2638	3522	5109	4435
30.0	1150	1258	1726	3174	5009	3892	2686	3892	5009	3174
33.0	688.0	745.5	971.7	1915	4164	4219	2777	4219	4164	1915
36.0	466.5	502.2	603.7	1083	2965	4393	2881	4393	2965	1083
39.0	346.7	371.8	428.2	661.0	1869	4314	2947	4314	1869	661.0
42.0	275.7	290.4	331.2	463.3	1115	3910	2947	3910	1115	463.3
45.0	229.6	239.7	270.3	356.3	702.4	3202	2914	3202	702.4	356.3
48.0	197.2	204.4	226.7	290.8	495.7	2393	2877	2393	495.7	290.8
51.0	172.3	178.9	195.2	245.1	381.7	1684	2819	1684	381.7	245.1
54.0	150.4	156.1	168.5	209.2	309.1	1149	2707	1149	309.1	209.2
57.0	133.1	136.1	144.3	178.5	260.8	790.9	2528	790.9	260.8	178.5
60.0	123.8	121.6	125.0	150.9	226.4	571.9	2269	571.9	226.4	150.9
63.0	125.5	120.9	114.0	128.1	196.0	438.8	1949	438.8	196.0	128.1
66.0	183.8	185.1	124.6	112.4	165.5	341.9	1598	341.9	165.5	112.4
69.0	239.2	201.8	139.6	109.0	134.7	277.5	1250	277.5	134.7	109.0
72.0	145.3	144.7	170.6	125.0	109.7	227.0	930.6	227.0	109.7	125.0
75.0	114.8	110.7	100.4	112.8	91.06	180.0	654.6	180.0	91.06	112.8
78.0	96.34	93.14	84.67	75.20	74.95	131.3	429.5	131.3	74.95	75.20
81.0	93.45	89.35	76.01	62.77	57.23	88.02	253.3	88.02	57.23	62.77
84.0	92.69	85.36	70.20	53.33	40.97	50.63	123.2	50.63	40.97	53.33
87.0	80.46	78.53	64.32	44.29	28.84	20.97	38.43	20.97	28.84	44.29
90.0	75.23	70.88	59.99	39.08	21.29	8.854	2.018	8.854	21.29	39.08
93.0	71.71	67.35	54.85	37.71	20.11	8.183	2.425	8.183	20.11	37.71
96.0	70.59	67.23	54.72	38.35	20.29	8.504	2.931	8.504	20.29	38.35
99.0	68.76	65.88	55.37	38.08	20.98	9.127	3.526	9.127	20.98	38.08
102.0	65.96	63.18	53.94	37.51	21.57	9.867	4.180	9.867	21.57	37.51
105.0	61.98	59.01	50.60	36.03	21.17	10.23	4.898	10.23	21.17	36.03
108.0	57.72	54.15	45.59	33.37	20.00	10.42	5.697	10.42	20.00	33.37
111.0	52.85	49.03	40.34	30.45	18.63	10.65	6.551	10.65	18.63	30.45
114.0	47.71	43.75	36.06	27.96	17.00	10.95	7.502	10.95	17.00	27.96
117.0	43.69	39.42	33.11	25.66	16.37	11.58	8.513	11.58	16.37	25.66
120.0	41.04	36.77	31.09	23.23	16.45	12.31	9.586	12.31	16.45	23.23
123.0	38.68	34.58	29.07	22.01	16.76	13.12	10.68	13.12	16.76	22.01
126.0	35.83	31.86	27.61	21.69	17.24	14.17	11.69	14.17	17.24	21.69
129.0	33.54	30.20	26.47	21.76	17.91	15.27	12.57	15.27	17.91	21.76
132.0	32.25	29.32	25.48	21.94	18.64	15.16	13.41	15.16	18.64	21.94
135.0	31.68	28.85	25.00	22.12	19.41	15.65	14.39	15.65	19.41	22.12
138.0	31.37	28.53	24.86	22.47	20.20	16.50	15.48	16.50	20.20	22.47
141.0	31.23	28.01	24.75	22.85	20.88	17.38	16.63	17.38	20.88	22.85
144.0	30.86	27.22	24.84	23.36	21.25	18.21	17.78	18.21	21.25	23.36
147.0	30.63	27.06	25.14	23.85	21.41	18.98	18.87	18.98	21.41	23.85
150.0	30.73	26.14	25.46	24.23	21.65	19.77	20.06	19.77	21.65	24.23
153.0	30.98	25.77	25.72	24.47	22.04	20.72	21.34	20.72	22.04	24.47
156.0	31.04	25.73	25.98	24.48	22.55	21.74	22.63	21.74	22.55	24.48
159.0	31.15	25.74	25.91	24.57	23.11	22.80	23.87	22.80	23.11	24.57
162.0	30.11	25.32	25.89	24.84	23.62	23.86	25.00	23.86	23.62	24.84
165.0	29.05	25.30	26.06	25.06	24.05	24.82	25.89	24.82	24.05	25.06
168.0	28.77	25.92	26.36	25.14	24.52	25.73	26.62	25.73	24.52	25.14
171.0	28.91	26.73	26.60	25.42	25.12	26.67	27.27	26.67	25.12	25.42
174.0	29.18	27.51	27.10	25.86	26.09	27.82	27.95	27.82	26.09	25.86
177.0	29.55	28.21	27.47	26.33	27.00	28.47	28.24	28.47	27.00	26.33
180.0	29.99	28.99	27.93	26.91	27.97	28.99	28.51	28.99	27.97	26.91
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2742	2742	2742	2742	2742	2742	2742	2742	2742	2742
3.0	2814	2825	2821	2825	2814	2787	2765	2747	2742	2747
6.0	3011	3058	3060	3058	3011	2914	2830	2761	2739	2761
9.0	3342	3469	3491	3469	3342	3126	2935	2780	2723	2780
12.0	3895	4147	4198	4147	3895	3458	3083	2802	2698	2802
15.0	4583	4870	4933	4870	4583	3982	3315	2841	2670	2841
18.0	5186	5368	5396	5368	5186	4590	3688	2905	2642	2905
21.0	5273	4815	4751	4815	5273	5143	4185	3021	2625	3021
24.0	4345	3624	3447	3624	4345	5264	4714	3219	2621	3219
27.0	2965	2240	2062	2240	2965	4435	5109	3522	2638	3522
30.0	1726	1258	1150	1258	1726	3174	5009	3892	2686	3892

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

**Photometric Data Table [cd]**

33.0	971.7	745.5	688.0	745.5	971.7	1915	4164	4219	2777	4219
36.0	603.7	502.2	466.5	502.2	603.7	1083	2965	4393	2881	4393
39.0	428.2	371.8	346.7	371.8	428.2	661.0	1869	4314	2947	4314
42.0	331.2	290.4	275.7	290.4	331.2	463.3	1115	3910	2947	3910
45.0	270.3	239.7	229.6	239.7	270.3	356.3	702.4	3202	2914	3202
48.0	226.7	204.4	197.2	204.4	226.7	290.8	495.7	2393	2877	2393
51.0	195.2	178.9	172.3	178.9	195.2	245.1	381.7	1684	2819	1684
54.0	168.5	156.1	150.4	156.1	168.5	209.2	309.1	1149	2707	1149
57.0	144.3	136.1	133.1	136.1	144.3	178.5	260.8	790.9	2528	790.9
60.0	125.0	121.6	123.8	121.6	125.0	150.9	226.4	571.9	2269	571.9
63.0	114.0	120.9	125.5	120.9	114.0	128.1	196.0	438.8	1949	438.8
66.0	124.6	185.1	183.8	185.1	124.6	112.4	165.5	341.9	1598	341.9
69.0	139.6	201.8	239.2	201.8	139.6	109.0	134.7	277.5	1250	277.5
72.0	170.6	144.7	145.3	144.7	170.6	125.0	109.7	227.0	930.6	227.0
75.0	100.4	110.7	114.8	110.7	100.4	112.8	91.06	180.0	654.6	180.0
78.0	84.67	93.14	96.34	93.14	84.67	75.20	74.95	131.3	429.5	131.3
81.0	76.01	89.35	93.45	89.35	76.01	62.77	57.23	88.02	253.3	88.02
84.0	70.20	85.36	92.69	85.36	70.20	53.33	40.97	50.63	123.2	50.63
87.0	64.32	78.53	80.46	78.53	64.32	44.29	28.84	20.97	38.43	20.97
90.0	59.99	70.88	75.23	70.88	59.99	39.08	21.29	8.854	2.018	8.854
93.0	54.85	67.35	71.71	67.35	54.85	37.71	20.11	8.183	2.425	8.183
96.0	54.72	67.23	70.59	67.23	54.72	38.35	20.29	8.504	2.931	8.504
99.0	55.37	65.88	68.76	65.88	55.37	38.08	20.98	9.127	3.526	9.127
102.0	53.94	63.18	65.96	63.18	53.94	37.51	21.57	9.867	4.180	9.867
105.0	50.60	59.01	61.98	59.01	50.60	36.03	21.17	10.23	4.898	10.23
108.0	45.59	54.15	57.72	54.15	45.59	33.37	20.00	10.42	5.697	10.42
111.0	40.34	49.03	52.85	49.03	40.34	30.45	18.63	10.65	6.551	10.65
114.0	36.06	43.75	47.71	43.75	36.06	27.96	17.00	10.95	7.502	10.95
117.0	33.11	39.42	43.69	39.42	33.11	25.66	16.37	11.58	8.513	11.58
120.0	31.09	36.77	41.04	36.77	31.09	23.23	16.45	12.31	9.586	12.31
123.0	29.07	34.58	38.68	34.58	29.07	22.01	16.76	13.12	10.68	13.12
126.0	27.61	31.86	35.83	31.86	27.61	21.69	17.24	14.17	11.69	14.17
129.0	26.47	30.20	33.54	30.20	26.47	21.76	17.91	15.27	12.57	15.27
132.0	25.48	29.32	32.25	29.32	25.48	21.94	18.64	15.16	13.41	15.16
135.0	25.00	28.85	31.68	28.85	25.00	22.12	19.41	15.65	14.39	15.65
138.0	24.86	28.53	31.37	28.53	24.86	22.47	20.20	16.50	15.48	16.50
141.0	24.75	28.01	31.23	28.01	24.75	22.85	20.88	17.38	16.63	17.38
144.0	24.84	27.22	30.86	27.22	24.84	23.36	21.25	18.21	17.78	18.21
147.0	25.14	27.06	30.63	27.06	25.14	23.85	21.41	18.98	18.87	18.98
150.0	25.46	26.14	30.73	26.14	25.46	24.23	21.65	19.77	20.06	19.77
153.0	25.72	25.77	30.98	25.77	25.72	24.47	22.04	20.72	21.34	20.72
156.0	25.98	25.73	31.04	25.73	25.98	24.48	22.55	21.74	22.63	21.74
159.0	25.91	25.74	31.15	25.74	25.91	24.57	23.11	22.80	23.87	22.80
162.0	25.89	25.32	30.11	25.32	25.89	24.84	23.62	23.86	25.00	23.86
165.0	26.06	25.30	29.05	25.30	26.06	25.06	24.05	24.82	25.89	24.82
168.0	26.36	25.92	28.77	25.92	26.36	25.14	24.52	25.73	26.62	25.73
171.0	26.60	26.73	28.91	26.73	26.60	25.42	25.12	26.67	27.27	26.67
174.0	27.10	27.51	29.18	27.51	27.10	25.86	26.09	27.82	27.95	27.82
177.0	27.47	28.21	29.55	28.21	27.47	26.33	27.00	28.47	28.24	28.47
180.0	27.93	28.99	29.99	28.99	27.93	26.91	27.97	28.99	28.51	28.99
G/C	300.0	315.0	330.0	345.0						
0.0	2742	2742	2742	2742						
3.0	2765	2787	2814	2825						
6.0	2830	2914	3011	3058						
9.0	2935	3126	3342	3469						
12.0	3083	3458	3895	4147						
15.0	3315	3982	4583	4870						
18.0	3688	4590	5186	5368						
21.0	4185	5143	5273	4815						
24.0	4714	5264	4345	3624						
27.0	5109	4435	2965	2240						
30.0	5009	3174	1726	1258						
33.0	4164	1915	971.7	745.5						
36.0	2965	1083	603.7	502.2						
39.0	1869	661.0	428.2	371.8						
42.0	1115	463.3	331.2	290.4						
45.0	702.4	356.3	270.3	239.7						
48.0	495.7	290.8	226.7	204.4						
51.0	381.7	245.1	195.2	178.9						
54.0	309.1	209.2	168.5	156.1						
57.0	260.8	178.5	144.3	136.1						
60.0	226.4	150.9	125.0	121.6						
63.0	196.0	128.1	114.0	120.9						
66.0	165.5	112.4	124.6	185.1						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:



**Photometric Data Table [cd]**

69.0	134.7	109.0	139.6	201.8
72.0	109.7	125.0	170.6	144.7
75.0	91.06	112.8	100.4	110.7
78.0	74.95	75.20	84.67	93.14
81.0	57.23	62.77	76.01	89.35
84.0	40.97	53.33	70.20	85.36
87.0	28.84	44.29	64.32	78.53
90.0	21.29	39.08	59.99	70.88
93.0	20.11	37.71	54.85	67.35
96.0	20.29	38.35	54.72	67.23
99.0	20.98	38.08	55.37	65.88
102.0	21.57	37.51	53.94	63.18
105.0	21.17	36.03	50.60	59.01
108.0	20.00	33.37	45.59	54.15
111.0	18.63	30.45	40.34	49.03
114.0	17.00	27.96	36.06	43.75
117.0	16.37	25.66	33.11	39.42
120.0	16.45	23.23	31.09	36.77
123.0	16.76	22.01	29.07	34.58
126.0	17.24	21.69	27.61	31.86
129.0	17.91	21.76	26.47	30.20
132.0	18.64	21.94	25.48	29.32
135.0	19.41	22.12	25.00	28.85
138.0	20.20	22.47	24.86	28.53
141.0	20.88	22.85	24.75	28.01
144.0	21.25	23.36	24.84	27.22
147.0	21.41	23.85	25.14	27.06
150.0	21.65	24.23	25.46	26.14
153.0	22.04	24.47	25.72	25.77
156.0	22.55	24.48	25.98	25.73
159.0	23.11	24.57	25.91	25.74
162.0	23.62	24.84	25.89	25.32
165.0	24.05	25.06	26.06	25.30
168.0	24.52	25.14	26.36	25.92
171.0	25.12	25.42	26.60	26.73
174.0	26.09	25.86	27.10	27.51
177.0	27.00	26.33	27.47	28.21
180.0	27.97	26.91	27.93	28.99

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 October 2017

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks: