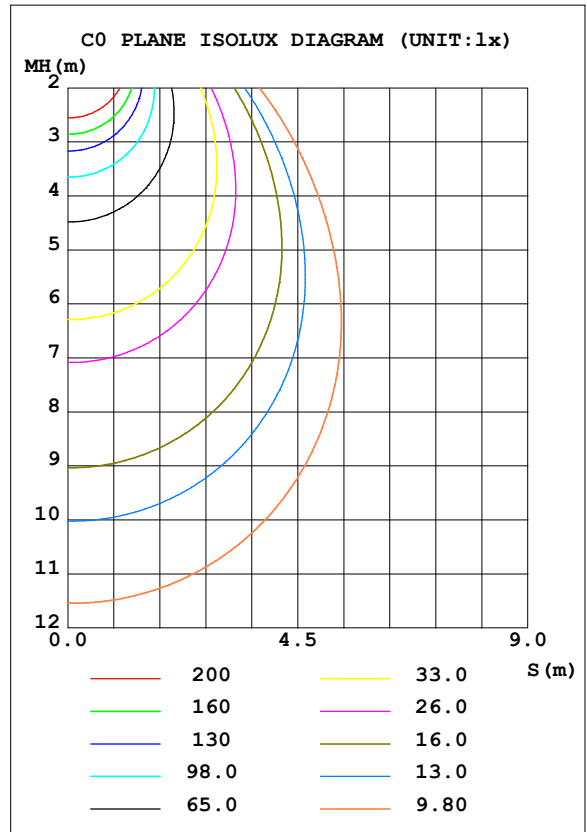
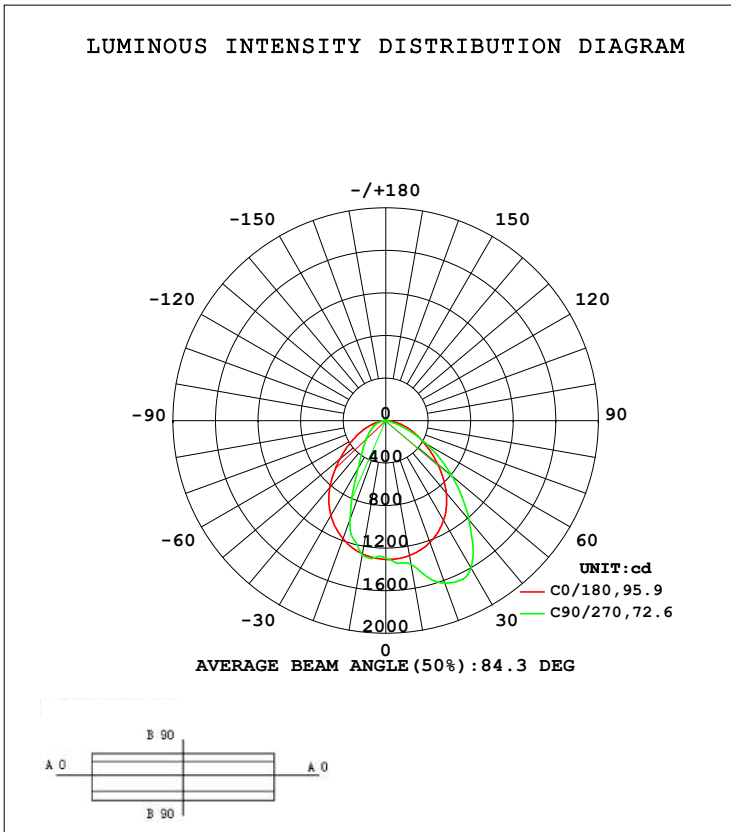


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.70 lm/W			
MODEL	TS-WPD0204-15W/20W/25W-H-TCP 3000K	Imax (cd)	1658	S/MH (C0/180)	1.18
NOMINAL POWER (W)	25	LOR (%)	100.0	S/MH (C90/270)	0.84
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3151.0	η UP, DN (C0-180)	0.4, 64.3
NOMINAL FLUX (lm)	3150.98	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 34.6
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	98.9	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

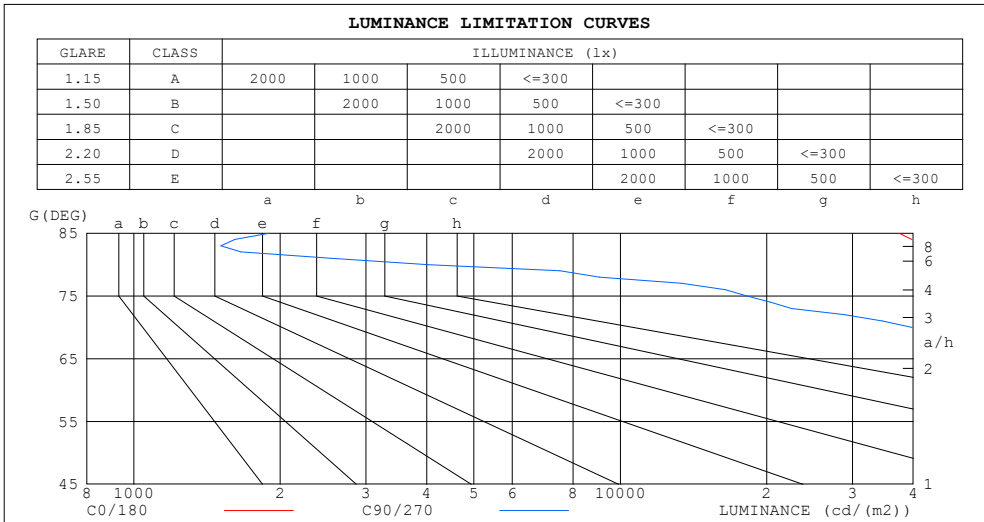
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1288	1347	1372	1324	1272	1279	1280	1289	0- 10	124.6	124.6	3.95,3.95
20	1218	1461	1624	1391	1181	1089	985.6	1116	10- 20	364.9	489.5	15.5,15.5
30	1086	1507	1601	1425	1032	760.9	524.0	783.9	20- 30	543.2	1033	32.8,32.8
40	886.8	1372	1218	1278	818.9	451.5	328.8	467.4	30- 40	606.2	1639	52,52
50	639.0	1074	814.2	997.8	568.7	302.0	223.8	314.5	40- 50	565.5	2204	70,70
60	413.3	721.2	444.5	654.2	355.7	207.8	153.0	218.9	50- 60	451.8	2656	84.3,84.3
70	235.0	390.0	159.1	334.0	191.5	129.5	97.72	141.8	60- 70	297.3	2954	93.7,93.7
80	94.96	96.51	8.185	55.62	64.76	58.30	45.98	70.01	70- 80	137.0	3091	98.1,98.1
90	3.134	2.174	1.752	2.179	2.790	5.317	8.255	10.96	80- 90	26.68	3117	98.9,98.9
100	2.751	2.085	1.622	2.206	3.367	4.337	3.957	4.037	90-100	3.295	3121	99,99
110	3.506	2.331	1.891	2.613	4.182	5.470	5.484	5.234	100-110	3.633	3124	99.2,99.2
120	4.488	3.077	2.653	3.573	5.184	6.476	6.864	6.402	110-120	4.305	3129	99.3,99.3
130	5.626	4.243	3.982	4.854	6.286	7.254	7.728	7.320	120-130	4.829	3133	99.4,99.4
140	6.774	5.659	5.598	6.235	7.129	8.201	8.473	8.242	130-140	5.016	3138	99.6,99.6
150	7.891	6.955	6.811	7.450	8.255	9.288	9.200	9.257	140-150	4.780	3143	99.8,99.8
160	8.818	8.124	7.983	8.684	9.158	10.39	10.86	10.59	150-160	4.045	3147	99.9,99.9
170	9.588	9.197	9.405	10.05	9.714	10.50	11.06	11.07	160-170	2.768	3150	100,100
180	10.01	10.15	10.71	10.91	10.03	10.15	10.73	10.93	170-180	0.9831	3151	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-06-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.200m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	37447	1896
80	46739	4029
75	53179	18238
70	58738	39767
65	64331	58108
60	70643	75986
55	77537	93271
50	84970	108261
45	92409	122703

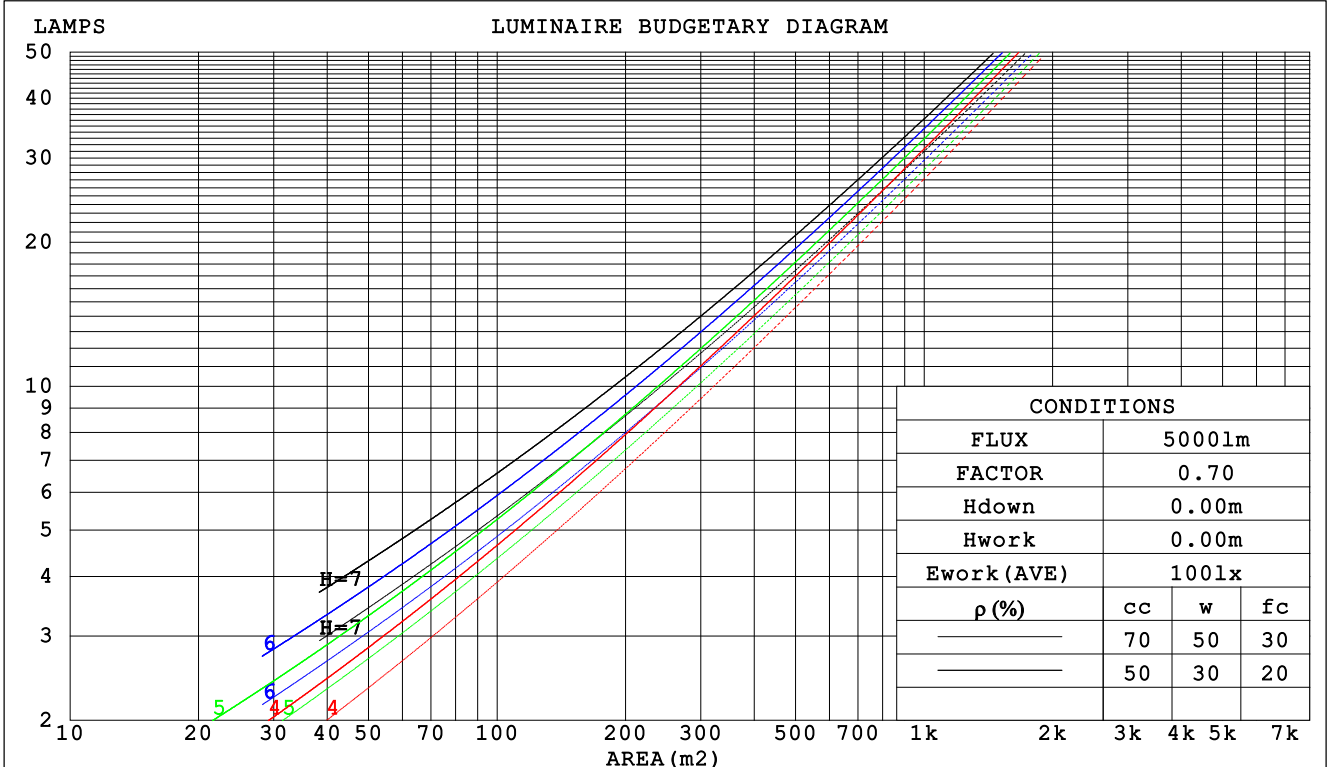
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	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	1.19	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	1.05	1.02	.98	1.03	.90	.97	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.67	.75	.70	.66	.73	.68	.65	.63
4.0	.74	.66	.59	.73	.65	.59	.70	.63	.58	.68	.62	.57	.65	.60	.56	.54
5.0	.67	.58	.52	.65	.57	.52	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.45	.57	.50	.45	.56	.49	.45	.54	.48	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.52	.45	.40	.51	.45	.40	.50	.44	.39	.38
8.0	.50	.42	.37	.50	.42	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.32	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	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	.274	.156	.049	.267	.152	.048	.253	.145	.046	.240	.139	.045	.229	.133	.043	
2.0	.263	.144	.044	.257	.141	.044	.245	.136	.042	.234	.131	.041	.223	.126	.040	
3.0	.247	.131	.039	.241	.129	.039	.231	.125	.038	.221	.121	.037	.212	.117	.036	
4.0	.230	.120	.035	.225	.118	.035	.216	.115	.034	.207	.111	.034	.199	.108	.033	
5.0	.215	.109	.032	.210	.108	.031	.202	.105	.031	.194	.103	.030	.187	.100	.030	
6.0	.201	.101	.029	.197	.099	.029	.189	.097	.028	.182	.095	.028	.176	.093	.027	
7.0	.188	.093	.026	.184	.092	.026	.178	.090	.026	.171	.088	.026	.166	.086	.025	
8.0	.176	.086	.024	.173	.085	.024	.167	.084	.024	.162	.082	.024	.156	.080	.023	
9.0	.166	.080	.022	.163	.080	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022	
10.0	.157	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.140	.071	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.186	.165	.145	.159	.141	.125	.109	.097	.087	.063	.056	.050	.020	.018	.016	
2.0	.177	.140	.110	.151	.121	.095	.104	.084	.066	.060	.049	.039	.019	.016	.013	
3.0	.168	.122	.086	.144	.106	.074	.099	.073	.052	.057	.043	.031	.018	.014	.010	
4.0	.161	.109	.069	.138	.094	.060	.095	.066	.042	.055	.038	.025	.018	.013	.008	
5.0	.153	.098	.058	.132	.085	.050	.091	.059	.036	.053	.035	.021	.017	.011	.007	
6.0	.146	.090	.049	.126	.078	.043	.087	.054	.030	.050	.032	.018	.016	.010	.006	
7.0	.140	.083	.043	.120	.072	.038	.083	.050	.027	.048	.030	.016	.016	.010	.005	
8.0	.134	.077	.038	.115	.067	.033	.080	.047	.024	.046	.028	.014	.015	.009	.005	
9.0	.128	.072	.035	.110	.063	.030	.076	.044	.021	.044	.026	.013	.014	.009	.004	
10.0	.122	.068	.032	.106	.059	.028	.073	.041	.020	.043	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm										
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.: 0.157*0.072			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	29.8	31.3	30.2	31.7	32.0	28.4	29.9	28.8	30.2	30.6
3H	31.1	32.5	31.5	32.8	33.2	29.0	30.4	29.4	30.7	31.1
4H	31.5	32.8	32.0	33.2	33.6	29.0	30.3	29.4	30.7	31.1
6H	31.8	33.0	32.2	33.4	33.8	29.0	30.1	29.4	30.5	31.0
8H	31.9	33.0	32.3	33.4	33.8	28.9	30.1	29.4	30.5	30.9
12H	31.9	33.0	32.3	33.4	33.8	28.9	30.0	29.4	30.4	30.8
4H 2H	30.5	31.8	30.9	32.1	32.5	29.2	30.5	29.6	30.8	31.3
3H	32.1	33.2	32.6	33.6	34.0	30.1	31.1	30.5	31.5	32.0
4H	32.7	33.7	33.2	34.1	34.6	30.1	31.0	30.5	31.5	31.9
6H	33.1	33.9	33.6	34.4	34.9	30.0	30.9	30.5	31.3	31.8
8H	33.2	34.0	33.7	34.4	34.9	30.0	30.8	30.5	31.2	31.7
12H	33.2	33.9	33.7	34.4	34.9	30.0	30.6	30.5	31.1	31.6
8H 4H	32.9	33.7	33.4	34.1	34.6	30.3	31.1	30.8	31.6	32.1
6H	33.4	34.0	33.9	34.5	35.0	30.3	30.9	30.8	31.4	31.9
8H	33.5	34.1	34.1	34.6	35.1	30.2	30.8	30.8	31.3	31.9
12H	33.6	34.1	34.1	34.6	35.2	30.2	30.7	30.7	31.2	31.8
12H 4H	32.9	33.5	33.4	34.0	34.5	30.3	31.0	30.8	31.5	32.0
6H	33.3	33.9	33.9	34.4	35.0	30.3	30.9	30.8	31.3	31.9
8H	33.5	34.0	34.0	34.5	35.1	30.3	30.8	30.8	31.3	31.9
CIE190: 2010										

CIE190: 2010  
Area: 0.0117 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Temperature:25.3DEG	Humidity:65.0%
Operators:DAMIN	Test Distance:7.200m [K=1.0000]
Test Date:2023-06-23	Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:

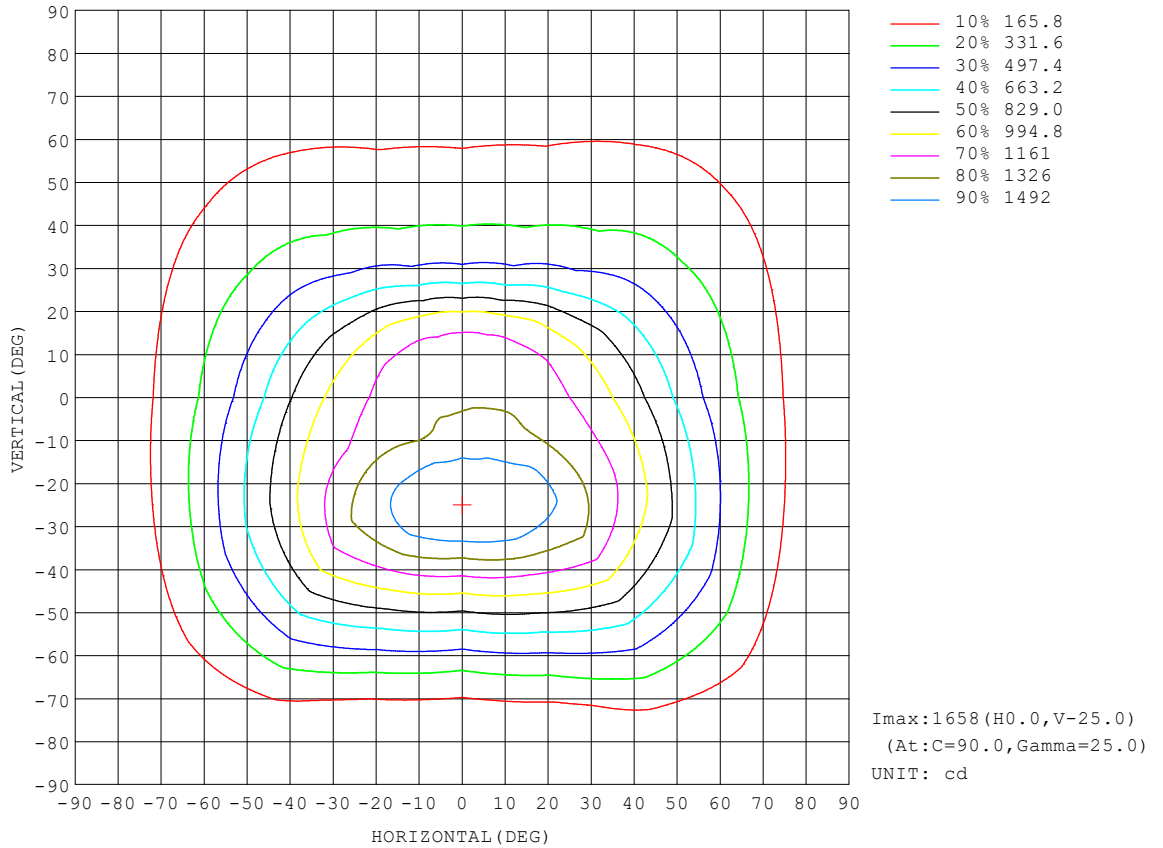
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	62	51	44	61	51	44	60	50	44	38
0.80	72	61	54	71	61	54	69	60	54	47
1.00	80	70	63	79	69	63	77	70	62	56
1.25	87	77	71	85	77	70	83	75	69	63
1.50	91	83	76	90	82	76	87	80	75	68
2.00	98	90	84	96	89	83	92	87	82	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	99	105	101	97	101	97	94	85
5.00	110	106	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:



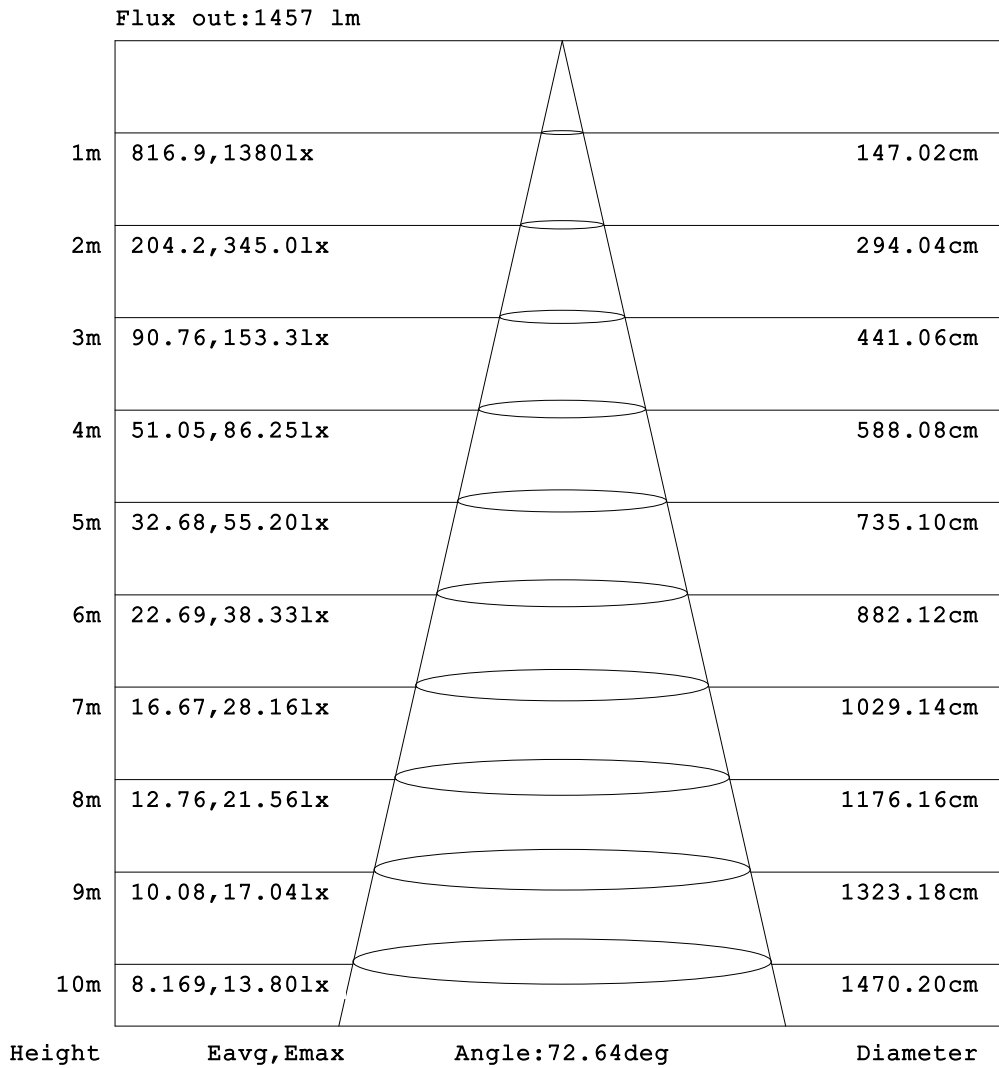
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:



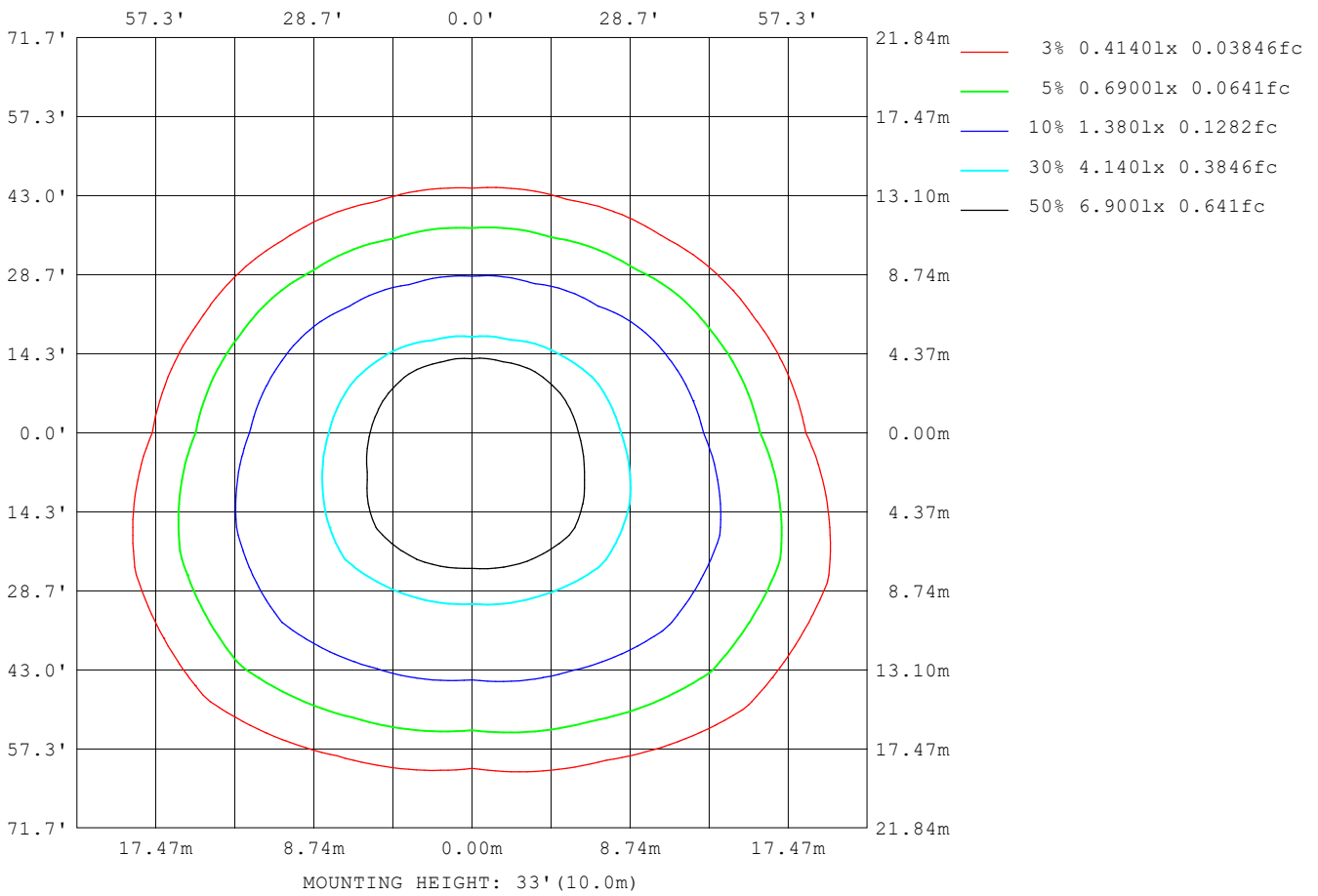
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-06-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.200m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:

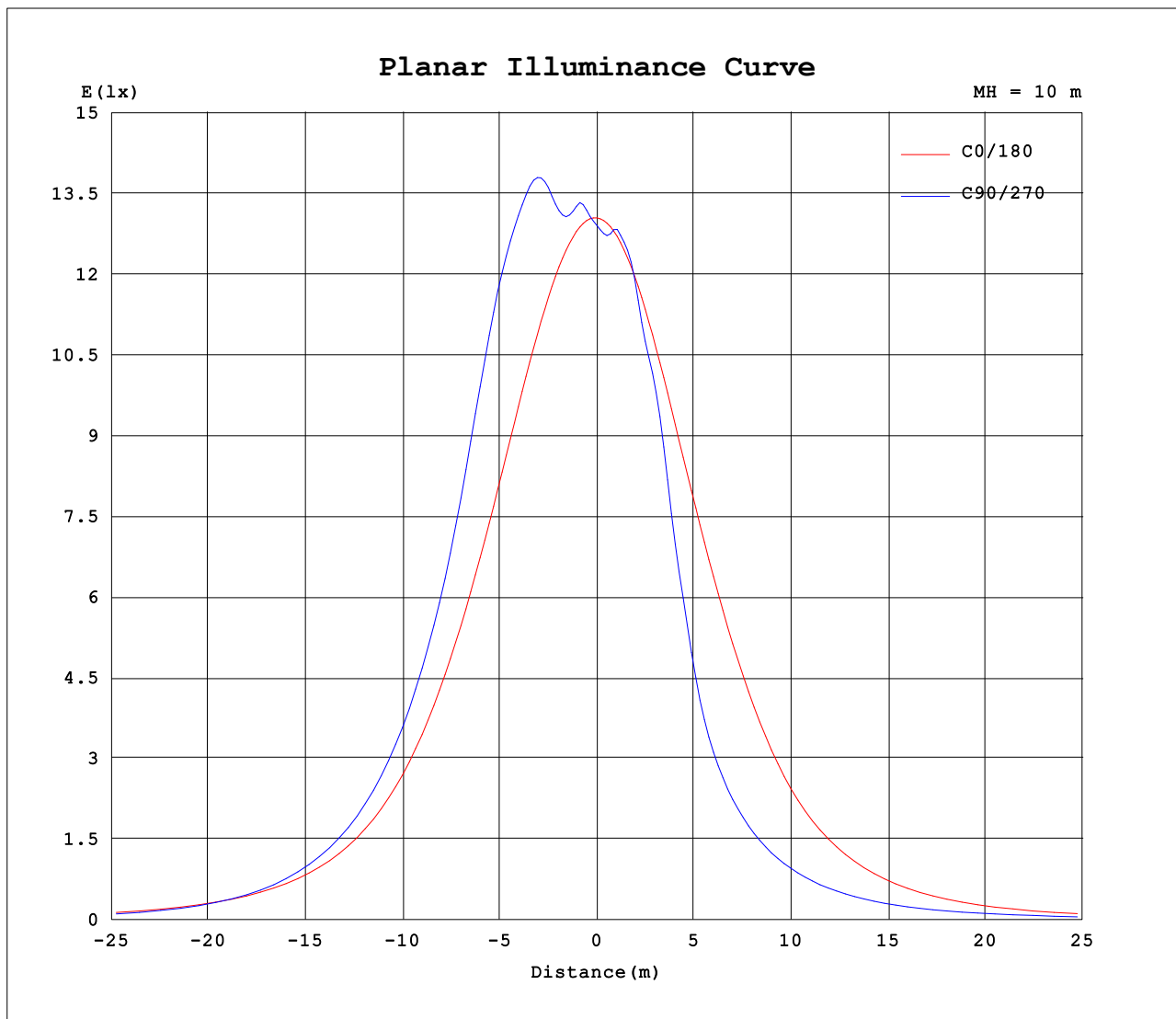
AvgL	cd/m2
L_0~180 (65) av	59296
L_0~180 (75) av	46995
L_0~180 (85) av	27229
L_90~270 (65) av	41914
L_90~270 (75) av	20777
L_90~270 (85) av	13482
L_45 (65) av	69904
L_45 (75) av	51755
L_45 (85) av	17503

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-06-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.200m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-06-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.200m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.47V I:0.2125A P:24.869W PF:0.9713 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3150.98x1 lm		
NAME: TS-WPD0204-15W/20W/25W-H-TCP 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.157*0.072	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1305	1301	1299	1294	1291	1286	1283	1280	1305	1301	1299	1294	1291	1286	1283	1280			
5	1303	1320	1342	1351	1349	1339	1316	1288	1295	1278	1277	1292	1298	1295	1279	1269			
10	1288	1336	1347	1363	1372	1347	1324	1292	1272	1258	1279	1279	1280	1284	1289	1267			
15	1260	1323	1376	1485	1523	1454	1333	1279	1234	1226	1213	1162	1161	1171	1224	1246			
20	1218	1292	1461	1601	1624	1565	1391	1239	1181	1151	1089	1029	986	1036	1116	1186			
25	1160	1263	1515	1634	1658	1598	1435	1195	1113	1041	944	792	735	793	973	1086			
30	1086	1234	1507	1614	1601	1575	1425	1150	1032	916	761	572	524	577	784	972			
35	995	1198	1461	1493	1426	1460	1372	1095	935	789	584	436	408	441	599	844			
40	887	1140	1372	1302	1218	1273	1278	1024	819	652	452	351	329	355	467	707			
45	765	1054	1238	1107	1015	1076	1150	930	690	532	366	288	271	293	377	582			
50	639	944	1074	919	814	884	998	820	569	423	302	239	224	244	314	469			
55	520	818	897	727	626	696	826	697	458	337	251	198	185	203	263	375			
60	413	680	721	543	445	520	654	565	356	267	208	163	153	168	219	300			
65	318	536	550	371	287	351	486	432	268	207	168	132	127	137	179	235			
70	235	394	390	226	159	209	334	304	192	153	129	103	97.7	108	142	180			
75	161	259	240	82.8	55.2	72.6	189	186	124	104	92.8	74.9	70.6	80.3	105	128			
80	95.0	139	96.5	19.7	8.19	14.9	55.6	85.6	64.8	60.0	58.3	46.9	46.0	51.6	70.0	81.1			
85	38.2	35.6	4.14	2.10	1.93	2.09	2.35	7.48	17.3	22.9	27.6	24.8	25.6	28.5	37.3	39.5			
90	3.13	2.26	2.17	1.91	1.75	1.90	2.18	2.35	2.79	3.43	5.32	6.84	8.25	9.33	11.0	8.14			
95	2.49	2.28	2.09	1.79	1.64	1.81	2.15	2.47	3.03	3.56	3.79	3.62	3.47	3.48	3.52	3.33			
100	2.75	2.37	2.09	1.76	1.62	1.79	2.21	2.68	3.37	4.01	4.34	4.23	3.96	3.96	4.04	3.76			
105	3.10	2.56	2.16	1.79	1.68	1.88	2.35	2.97	3.75	4.50	4.91	4.93	4.70	4.68	4.63	4.24			
110	3.51	2.82	2.33	1.97	1.89	2.11	2.61	3.34	4.18	5.00	5.47	5.60	5.48	5.42	5.23	4.74			
115	3.96	3.19	2.63	2.27	2.21	2.48	3.03	3.82	4.66	5.50	6.02	6.23	6.24	6.14	5.82	5.24			
120	4.49	3.65	3.08	2.71	2.65	2.97	3.57	4.37	5.18	6.01	6.48	6.77	6.86	6.78	6.40	5.76			
125	5.03	4.19	3.62	3.26	3.23	3.60	4.18	4.95	5.73	6.50	6.87	7.20	7.35	7.32	6.93	6.27			
130	5.63	4.78	4.24	3.94	3.98	4.31	4.85	5.58	6.29	7.00	7.25	7.51	7.73	7.78	7.32	6.79			
135	6.19	5.41	4.94	4.70	4.79	5.06	5.54	6.19	6.75	7.36	7.75	7.87	8.02	8.10	7.77	7.37			
140	6.77	6.08	5.66	5.49	5.60	5.82	6.24	6.85	7.13	7.94	8.20	8.33	8.47	8.40	8.24	7.89			
145	7.38	6.67	6.34	6.22	6.27	6.44	6.87	7.46	7.80	8.39	8.76	8.93	8.71	8.82	8.73	8.44			
150	7.89	7.28	6.95	6.85	6.81	7.01	7.45	8.03	8.26	8.88	9.29	9.43	9.20	9.18	9.26	8.98			
155	8.36	7.80	7.55	7.40	7.36	7.56	8.02	8.57	8.60	9.32	9.89	10.1	9.85	9.90	9.96	9.62			
160	8.82	8.33	8.12	7.99	7.98	8.23	8.68	9.19	9.16	9.88	10.4	10.7	10.9	10.6	10.6	10.4			
165	9.25	8.87	8.69	8.62	8.70	9.03	9.40	9.91	9.53	10.1	10.5	10.9	11.1	11.0	10.9	10.8			
170	9.59	9.29	9.20	9.20	9.41	9.76	10.0	10.4	9.71	10.1	10.5	10.8	11.1	11.1	11.1	11.0			
175	9.79	9.69	9.68	9.81	10.1	10.4	10.5	10.7	9.86	10.1	10.4	10.6	11.0	11.1	11.1	11.0			
180	10.0	10.1	10.1	10.4	10.7	11.0	10.9	11.0	10.0	10.1	10.2	10.3	10.7	11.0	10.9	11.0			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Photometric Data Table [cd]

G/C	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1305	1301	1299	1294	1291	1286	1283	1280	1305	1301
3.0	1305	1313	1322	1325	1325	1314	1300	1285	1301	1288
6.0	1301	1324	1351	1352	1348	1343	1324	1289	1291	1273
9.0	1292	1334	1349	1354	1357	1341	1326	1292	1277	1261
12.0	1278	1337	1349	1399	1422	1376	1320	1290	1259	1251
15.0	1260	1323	1376	1485	1523	1454	1333	1279	1234	1226
18.0	1237	1304	1424	1568	1598	1532	1364	1256	1204	1185
21.0	1208	1286	1478	1610	1634	1575	1403	1230	1168	1132
24.0	1173	1269	1510	1630	1655	1593	1431	1204	1128	1066
27.0	1133	1252	1516	1635	1653	1599	1437	1177	1083	990.6
30.0	1086	1234	1507	1614	1601	1575	1425	1150	1032	916.1
33.0	1034	1214	1485	1553	1508	1517	1398	1119	975.5	841.0
36.0	974.9	1189	1447	1458	1383	1426	1358	1082	913.2	761.2
39.0	909.9	1154	1394	1343	1256	1314	1302	1040	842.7	678.5
42.0	839.1	1109	1323	1222	1139	1193	1230	988.8	768.5	600.5
45.0	764.5	1054	1238	1107	1015	1076	1150	929.6	690.1	531.7
48.0	689.6	990.1	1143	993.4	894.1	960.0	1062	864.7	614.5	464.5
51.0	614.8	919.2	1039	879.9	775.0	845.2	964.8	796.2	545.6	403.5
54.0	542.8	843.7	932.4	766.3	661.6	733.0	861.5	722.4	478.9	352.8
57.0	476.1	764.1	826.7	651.0	553.5	622.6	756.9	644.9	415.3	307.5
60.0	413.3	680.3	721.2	543.3	444.5	519.7	654.2	565.2	355.7	266.5
63.0	354.6	594.1	617.2	437.2	345.1	415.9	551.5	485.3	301.6	229.3
66.0	300.3	507.1	516.5	340.3	260.5	320.9	454.4	405.5	251.7	195.9
69.0	250.8	421.3	420.4	254.1	186.4	234.4	363.2	328.7	205.9	163.4
72.0	204.4	338.8	329.6	171.6	104.4	148.9	276.2	253.9	163.5	132.8
75.0	161.0	259.4	240.0	82.76	55.23	72.57	189.0	185.7	123.6	103.7
78.0	120.8	184.7	148.2	46.35	22.06	33.03	105.0	123.5	87.41	76.80
81.0	82.87	117.5	70.77	12.54	4.656	5.903	32.04	67.19	54.05	51.98
84.0	48.59	55.98	11.54	2.261	1.975	2.164	3.011	18.00	25.14	29.62
87.0	19.76	8.989	2.266	2.006	1.850	2.010	2.243	2.345	5.816	11.55
90.0	3.134	2.257	2.174	1.908	1.752	1.904	2.179	2.345	2.790	3.432
93.0	2.405	2.262	2.114	1.831	1.673	1.849	2.155	2.415	2.920	3.396
96.0	2.530	2.285	2.086	1.775	1.636	1.807	2.159	2.508	3.096	3.645
99.0	2.691	2.346	2.081	1.752	1.627	1.798	2.192	2.623	3.296	3.919
102.0	2.882	2.438	2.108	1.761	1.627	1.812	2.247	2.782	3.522	4.205
105.0	3.099	2.559	2.160	1.794	1.682	1.877	2.349	2.968	3.755	4.503
108.0	3.336	2.703	2.247	1.877	1.788	1.990	2.492	3.190	4.006	4.801
111.0	3.596	2.889	2.376	2.017	1.945	2.165	2.690	3.431	4.271	5.096
114.0	3.874	3.105	2.556	2.193	2.138	2.383	2.936	3.718	4.561	5.403
117.0	4.161	3.356	2.794	2.426	2.371	2.658	3.242	4.033	4.862	5.699
120.0	4.488	3.653	3.077	2.707	2.653	2.972	3.573	4.370	5.184	6.014
123.0	4.806	3.970	3.394	3.030	2.975	3.337	3.929	4.716	5.511	6.305
126.0	5.147	4.306	3.746	3.388	3.362	3.732	4.314	5.079	5.851	6.606
129.0	5.509	4.658	4.115	3.795	3.822	4.155	4.719	5.456	6.175	6.900
132.0	5.834	5.013	4.515	4.228	4.297	4.605	5.131	5.818	6.498	7.155
135.0	6.193	5.410	4.940	4.700	4.792	5.060	5.542	6.189	6.745	7.358
138.0	6.531	5.791	5.360	5.177	5.278	5.508	5.949	6.555	6.981	7.687
141.0	6.894	6.207	5.799	5.655	5.751	5.963	6.365	6.986	7.231	8.037
144.0	7.259	6.568	6.208	6.092	6.163	6.340	6.741	7.360	7.677	8.294
147.0	7.603	6.919	6.590	6.473	6.482	6.669	7.104	7.689	8.004	8.567
150.0	7.891	7.277	6.955	6.847	6.811	7.008	7.450	8.034	8.255	8.878
153.0	8.179	7.602	7.316	7.195	7.139	7.343	7.785	8.365	8.468	9.183
156.0	8.460	7.907	7.669	7.513	7.496	7.699	8.151	8.690	8.727	9.465
159.0	8.715	8.218	8.003	7.852	7.845	8.076	8.521	9.050	9.079	9.829
162.0	9.000	8.561	8.365	8.268	8.284	8.576	9.000	9.524	9.334	9.972
165.0	9.255	8.866	8.688	8.625	8.701	9.029	9.402	9.909	9.528	10.08
168.0	9.454	9.131	8.990	8.978	9.120	9.475	9.787	10.24	9.635	10.12
171.0	9.634	9.371	9.300	9.315	9.546	9.891	10.16	10.49	9.746	10.13
174.0	9.769	9.602	9.597	9.682	9.972	10.29	10.46	10.70	9.825	10.12
177.0	10.01	9.936	9.898	10.08	10.43	10.74	10.70	10.91	9.978	10.08
180.0	10.01	10.11	10.15	10.37	10.71	10.99	10.91	11.04	10.03	10.09
G/C	225.0	247.5	270.0	292.5	315.0	337.5				
0.0	1299	1294	1291	1286	1283	1280				
3.0	1281	1278	1278	1277	1273	1273				
6.0	1281	1301	1305	1303	1287	1268				
9.0	1286	1288	1292	1294	1293	1267				
12.0	1261	1243	1231	1246	1274	1264				
15.0	1213	1162	1161	1171	1224	1246				
18.0	1137	1100	1087	1113	1156	1214				
21.0	1065	980.7	928.7	987.9	1094	1169				
24.0	979.2	835.3	784.6	839.6	1008	1108				
27.0	871.2	701.4	636.4	701.0	899.5	1040				
30.0	760.9	572.1	524.0	577.4	783.9	971.6				

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-06-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.0000]  
 Remarks:

## Photometric Data Table [cd]

33.0	652.6	481.3	448.5	486.4	667.4	897.1
36.0	552.7	416.8	390.3	421.5	568.8	816.8
39.0	473.5	365.7	342.4	370.5	489.6	733.4
42.0	413.4	323.0	304.0	327.6	427.3	655.7
45.0	366.5	287.5	271.4	292.6	377.3	582.1
48.0	325.9	257.4	241.5	262.5	336.9	512.6
51.0	290.9	230.7	215.7	235.2	303.6	448.6
54.0	260.1	206.1	192.3	210.9	272.8	392.8
57.0	233.1	183.4	171.4	188.5	244.2	343.1
60.0	207.8	162.7	153.0	168.0	218.9	299.7
63.0	183.3	143.9	137.2	148.9	195.0	259.7
66.0	159.8	126.2	123.3	131.1	171.7	223.1
69.0	136.9	109.1	104.2	114.1	149.1	190.2
72.0	114.7	92.85	86.72	97.98	127.2	158.6
75.0	92.80	74.89	70.60	80.26	105.1	128.4
78.0	71.89	57.32	55.34	62.30	83.84	99.40
81.0	51.67	42.04	41.54	46.59	63.21	72.35
84.0	33.12	28.79	29.24	32.70	43.34	47.36
87.0	17.48	16.97	18.08	20.43	25.97	24.81
90.0	5.317	6.841	8.255	9.335	10.96	8.145
93.0	3.670	3.841	3.714	3.750	3.739	3.291
96.0	3.895	3.726	3.426	3.443	3.590	3.404
99.0	4.219	4.097	3.824	3.825	3.918	3.670
102.0	4.572	4.508	4.242	4.244	4.271	3.946
105.0	4.910	4.931	4.701	4.682	4.627	4.240
108.0	5.242	5.342	5.167	5.128	4.987	4.529
111.0	5.583	5.734	5.636	5.572	5.359	4.837
114.0	5.915	6.112	6.095	6.009	5.716	5.141
117.0	6.210	6.439	6.480	6.388	6.050	5.426
120.0	6.476	6.768	6.864	6.777	6.402	5.764
123.0	6.730	7.026	7.166	7.118	6.725	6.069
126.0	6.939	7.292	7.435	7.430	7.000	6.379
129.0	7.175	7.479	7.661	7.688	7.232	6.676
132.0	7.457	7.688	7.893	7.929	7.513	7.023
135.0	7.755	7.872	8.018	8.104	7.769	7.367
138.0	7.978	8.123	8.205	8.258	8.034	7.674
141.0	8.292	8.446	8.522	8.471	8.326	7.986
144.0	8.673	8.830	8.617	8.734	8.632	8.336
147.0	8.959	9.129	8.909	8.976	8.931	8.665
150.0	9.288	9.426	9.200	9.184	9.257	8.976
153.0	9.732	9.949	9.718	9.676	9.752	9.381
156.0	10.00	10.26	9.985	10.01	10.10	9.783
159.0	10.36	10.69	10.78	10.50	10.52	10.31
162.0	10.44	10.81	11.00	10.79	10.71	10.59
165.0	10.51	10.91	11.14	10.96	10.89	10.77
168.0	10.52	10.86	11.09	11.10	11.02	10.92
171.0	10.47	10.77	11.04	11.11	11.09	11.01
174.0	10.39	10.65	10.98	11.10	11.09	11.05
177.0	10.33	10.50	10.92	11.04	11.08	11.05
180.0	10.15	10.35	10.73	10.96	10.93	11.05

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-06-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.0000]  
 Remarks: