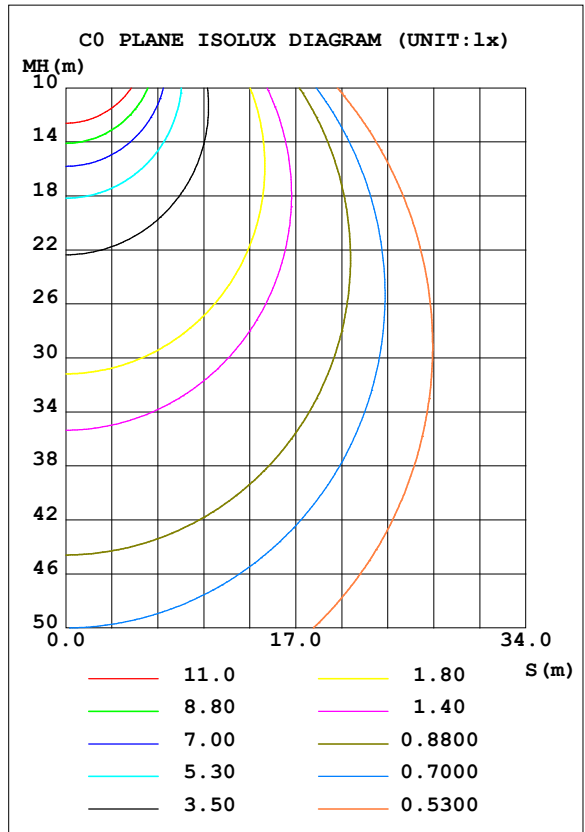
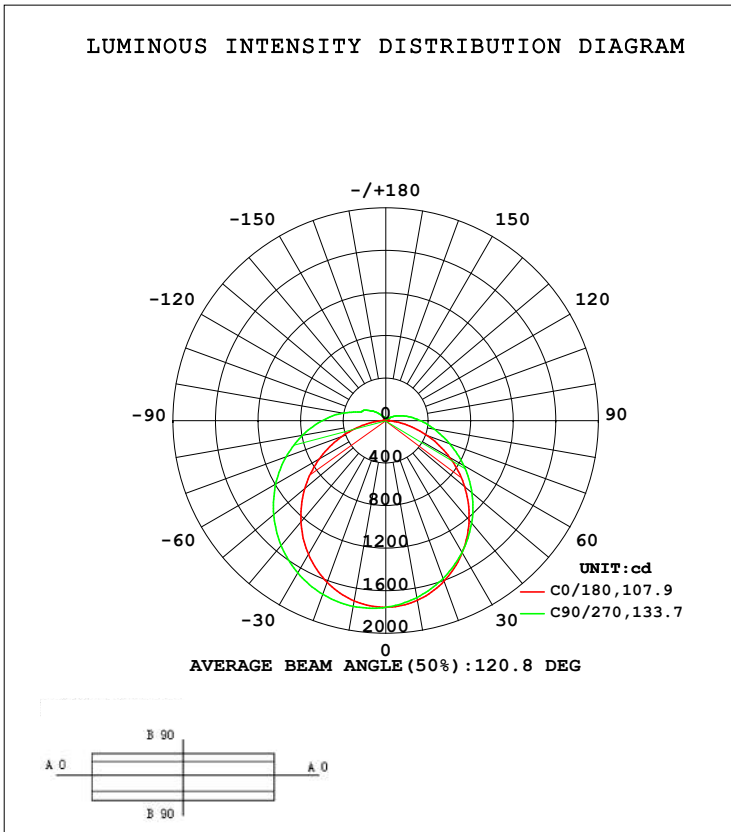


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.05 lm/W			
MODEL: TS-TPL3-4FT50W-X-277-TCP 5000K		Imax (cd)	1774	S/MH (C0/180)	1.24
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	1.41
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	6884.1	$\eta$ UP, DN (C0-180)	3.9, 38.9
NOMINAL FLUX (lm)	6884.09	CIE CLASS	SEMI-D.	$\eta$ UP, DN (C180-360)	7.5, 49.6
LAMPS INSIDE	1	$\eta$ up (%)	11.5	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	$\eta$ down (%)	88.5	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-02-25

$\nu$  Range: 0 - 180DEG  
 $\nu$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.100m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

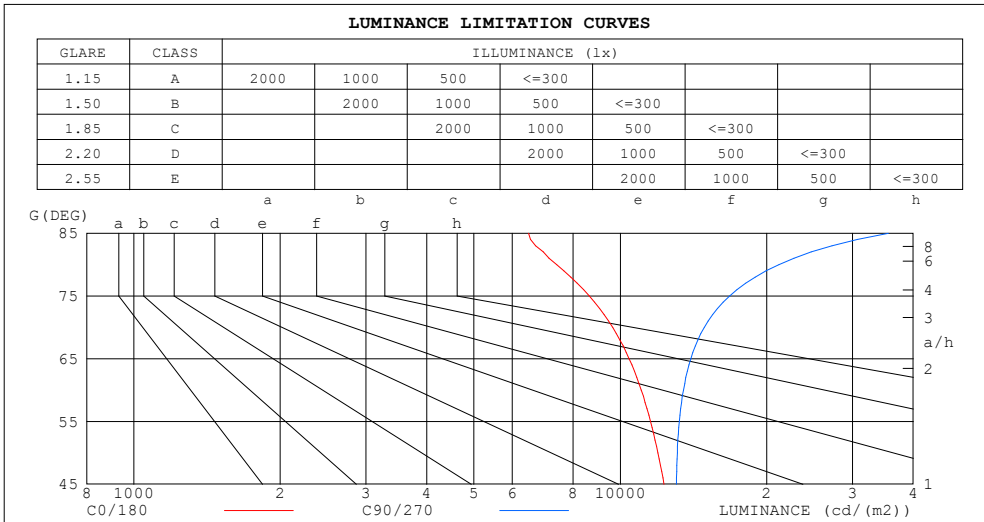
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1715	1688	1689	1688	1721	1762	1773	1771	0- 10	166.1	166.1	2.41,2.41
20	1605	1568	1579	1578	1617	1708	1737	1735	10- 20	477.6	643.8	9.35,9.35
30	1436	1403	1432	1432	1454	1598	1654	1652	20- 30	730.7	1374	20,20
40	1220	1203	1256	1258	1241	1441	1531	1530	30- 40	898.0	2272	33,33
50	969.9	983.2	1059	1060	994.6	1250	1376	1373	40- 50	965.4	3238	47,47
60	697.8	755.0	848.5	849.9	724.2	1037	1195	1193	50- 60	932.7	4171	60.6,60.6
70	416.6	537.4	640.4	641.6	442.5	818.7	998.1	995.9	60- 70	815.2	4986	72.4,72.4
80	162.3	357.0	462.9	464.0	182.3	609.6	794.3	792.1	70- 80	643.5	5629	81.8,81.8
90	27.34	228.7	327.5	328.3	26.24	426.0	597.9	595.8	80- 90	464.4	6094	88.5,88.5
100	19.60	136.9	221.1	221.8	23.83	267.1	413.2	411.3	90-100	317.6	6411	93.1,93.1
110	18.95	75.54	140.0	140.5	20.58	173.4	243.4	240.3	100-110	193.3	6604	95.9,95.9
120	17.89	38.83	80.05	80.42	21.16	116.6	196.5	196.5	110-120	122.6	6727	97.7,97.7
130	17.66	29.19	42.04	42.20	20.65	64.24	131.0	130.2	120-130	72.75	6800	98.8,98.8
140	18.25	26.95	31.48	31.49	20.20	36.41	74.26	73.88	130-140	40.31	6840	99.4,99.4
150	20.16	25.82	28.44	28.46	20.87	26.14	39.64	39.88	140-150	21.93	6862	99.7,99.7
160	22.76	25.72	25.62	25.61	23.14	25.38	28.40	28.30	150-160	12.61	6875	99.9,99.9
170	24.70	24.59	24.26	24.29	24.85	25.29	24.13	24.11	160-170	7.180	6882	100,100
180	25.58	25.05	21.72	21.80	25.58	25.03	21.74	21.76	170-180	2.278	6884	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:2023-02-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6475	35575
80	7400	21185
75	8635	16772
70	9643	14883
65	10430	13971
60	11049	13488
55	11537	13223
50	11946	13100
45	12303	13042

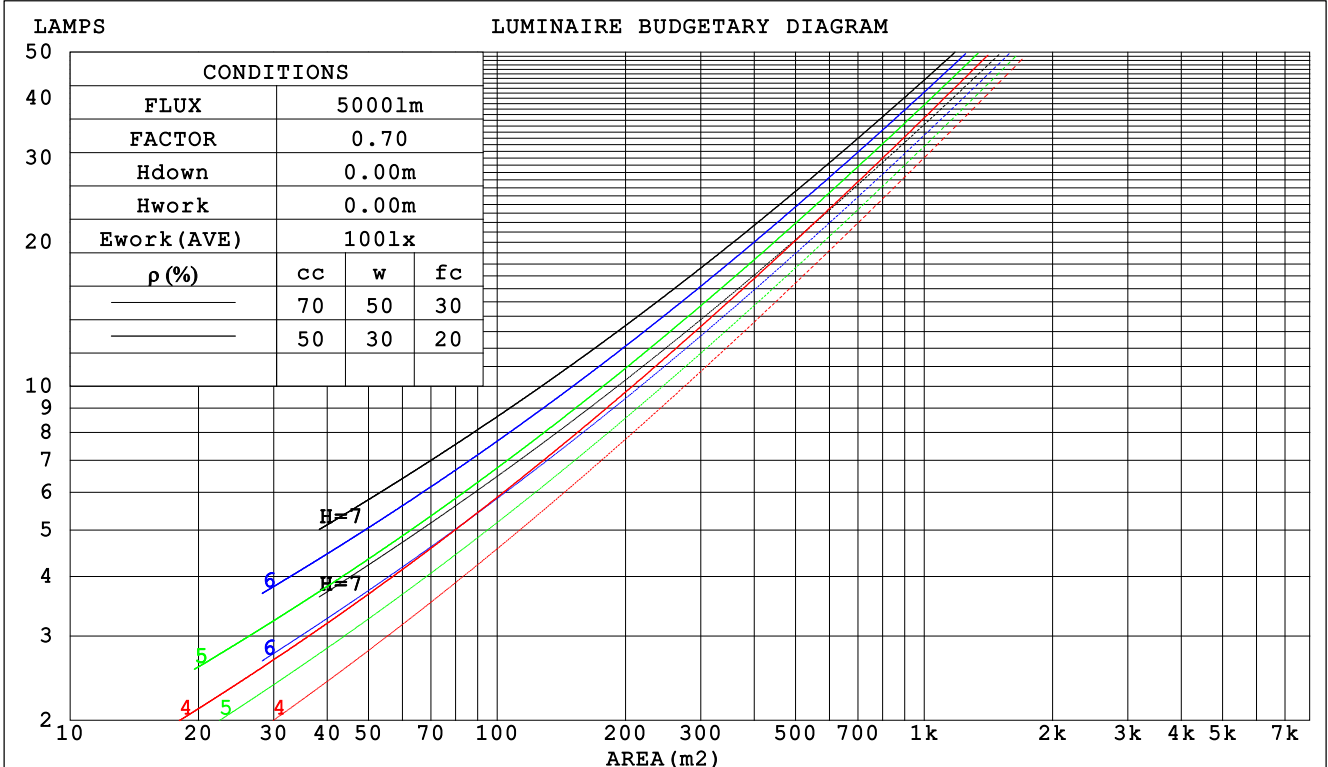
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	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	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	.98	.98	.98	.91	.91	.91	.89
1.0	.98	.92	.88	.94	.90	.85	.88	.84	.80	.82	.79	.76	.76	.74	.72	.69
2.0	.84	.76	.70	.81	.74	.68	.75	.70	.64	.70	.65	.61	.66	.62	.58	.55
3.0	.73	.64	.57	.70	.62	.56	.66	.59	.53	.61	.56	.51	.57	.52	.48	.46
4.0	.64	.55	.48	.62	.53	.47	.58	.51	.45	.54	.48	.43	.51	.45	.41	.38
5.0	.57	.47	.40	.55	.46	.40	.52	.44	.38	.48	.42	.37	.45	.40	.35	.33
6.0	.51	.42	.35	.50	.41	.34	.47	.39	.33	.44	.37	.32	.41	.35	.31	.28
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.40	.33	.28	.37	.32	.27	.25
8.0	.42	.33	.27	.41	.33	.27	.39	.31	.26	.36	.30	.25	.34	.29	.24	.22
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20
10.0	.35	.27	.22	.34	.27	.22	.33	.26	.21	.31	.25	.20	.29	.24	.20	.18



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	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	.376	.214	.068	.365	.208	.066	.345	.198	.063	.326	.188	.060	.309	.179	.058	
2.0	.329	.180	.055	.319	.176	.054	.301	.167	.052	.284	.160	.050	.269	.152	.048	
3.0	.294	.156	.047	.285	.153	.046	.269	.146	.044	.254	.139	.043	.240	.133	.041	
4.0	.265	.138	.041	.258	.135	.040	.243	.129	.038	.229	.123	.037	.217	.118	.036	
5.0	.242	.123	.036	.235	.120	.035	.221	.115	.034	.209	.110	.033	.198	.106	.032	
6.0	.222	.111	.032	.216	.109	.031	.204	.104	.030	.192	.100	.029	.182	.096	.028	
7.0	.205	.101	.029	.199	.099	.028	.188	.095	.027	.178	.091	.027	.168	.087	.026	
8.0	.190	.093	.026	.185	.091	.026	.175	.087	.025	.166	.084	.024	.157	.081	.023	
9.0	.177	.086	.024	.173	.084	.024	.163	.081	.023	.155	.078	.022	.147	.075	.022	
10.0	.166	.080	.022	.162	.078	.022	.153	.075	.021	.145	.072	.021	.138	.069	.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	.278	.278	.278	.238	.238	.238	.162	.162	.162	.093	.093	.093	.030	.030	.030	
1.0	.273	.244	.217	.234	.209	.187	.160	.144	.129	.092	.083	.075	.029	.027	.024	
2.0	.266	.221	.182	.228	.190	.158	.156	.131	.110	.090	.076	.064	.029	.025	.021	
3.0	.258	.204	.160	.221	.176	.139	.152	.122	.097	.088	.071	.057	.028	.023	.019	
4.0	.250	.191	.146	.215	.165	.126	.148	.115	.089	.086	.067	.053	.028	.022	.017	
5.0	.243	.181	.135	.208	.157	.118	.144	.109	.083	.083	.064	.049	.027	.021	.016	
6.0	.235	.173	.128	.202	.150	.112	.140	.105	.079	.081	.062	.047	.026	.020	.016	
7.0	.228	.166	.123	.196	.144	.107	.136	.101	.076	.079	.060	.045	.025	.019	.015	
8.0	.221	.161	.119	.191	.139	.104	.132	.098	.073	.077	.058	.044	.025	.019	.014	
9.0	.215	.156	.116	.185	.135	.101	.128	.095	.072	.075	.056	.043	.024	.018	.014	
10.0	.209	.152	.113	.180	.132	.099	.125	.093	.070	.073	.055	.042	.024	.018	.014	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	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	18.6	20.1	19.2	20.6	21.2	19.9	21.4	20.4	21.9	22.5
3H	20.4	21.7	20.9	22.3	22.9	22.3	23.6	22.8	24.2	24.8
4H	21.0	22.3	21.6	22.9	23.5	23.4	24.7	24.0	25.3	25.9
6H	21.5	22.7	22.1	23.3	23.9	24.7	25.9	25.2	26.4	27.1
8H	21.6	22.8	22.2	23.4	24.1	25.3	26.5	25.9	27.1	27.7
12H	21.8	22.9	22.4	23.5	24.1	26.1	27.2	26.7	27.8	28.5
4H 2H	19.4	20.7	20.0	21.3	21.9	20.7	21.9	21.2	22.5	23.1
3H	21.5	22.6	22.0	23.2	23.8	23.3	24.4	23.9	25.0	25.7
4H	22.3	23.3	22.9	23.9	24.6	24.6	25.7	25.2	26.3	26.9
6H	22.9	23.8	23.5	24.4	25.1	26.1	27.0	26.7	27.6	28.3
8H	23.2	24.0	23.8	24.6	25.3	26.8	27.7	27.5	28.3	29.0
12H	23.3	24.1	24.0	24.8	25.5	27.7	28.5	28.4	29.1	29.9
8H 4H	23.0	23.8	23.6	24.4	25.2	25.2	26.1	25.8	26.7	27.4
6H	23.9	24.6	24.5	25.3	26.0	26.9	27.6	27.5	28.3	29.0
8H	24.3	24.9	24.9	25.6	26.3	27.8	28.5	28.5	29.2	29.9
12H	24.6	25.2	25.3	25.9	26.7	28.9	29.5	29.6	30.2	31.0
12H 4H	23.2	24.0	23.8	24.6	25.3	25.3	26.1	26.0	26.8	27.5
6H	24.2	24.9	24.9	25.5	26.3	27.1	27.8	27.8	28.4	29.2
8H	24.8	25.4	25.4	26.0	26.8	28.2	28.8	28.8	29.4	30.2
CIE190: 2010										

CIE190: 2010  
Area: 0.126 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-02-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:

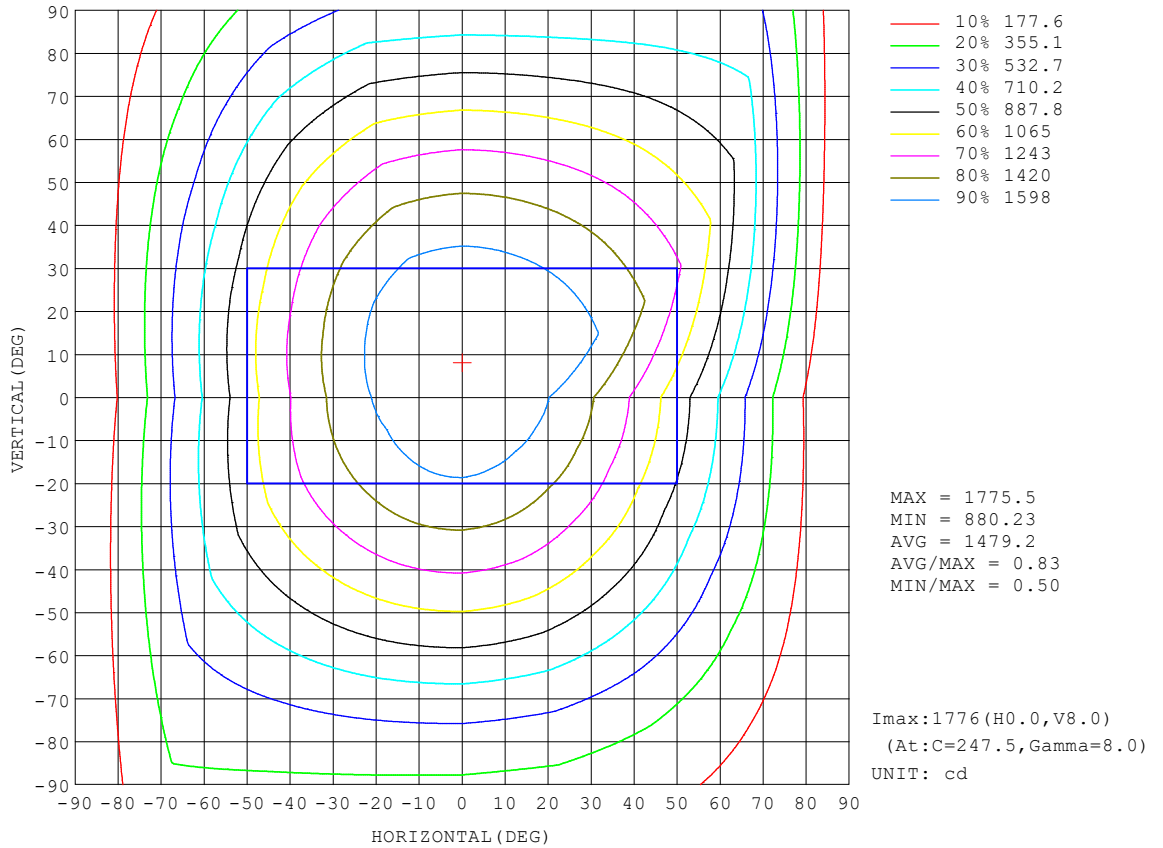
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	31	50	38	31	48	37	30	24
0.80	60	47	39	58	46	39	56	45	38	31
1.00	68	55	47	66	54	47	63	55	46	37
1.25	75	62	54	73	61	53	69	59	52	43
1.50	80	68	60	77	67	59	73	64	57	48
2.00	87	76	68	84	75	67	79	71	65	55
2.50	91	81	74	88	79	72	83	76	70	59
3.00	95	86	79	92	84	77	86	80	74	62
4.00	99	92	86	96	89	84	90	84	80	67
5.00	102	96	90	99	93	88	92	88	83	70
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:2023-02-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:



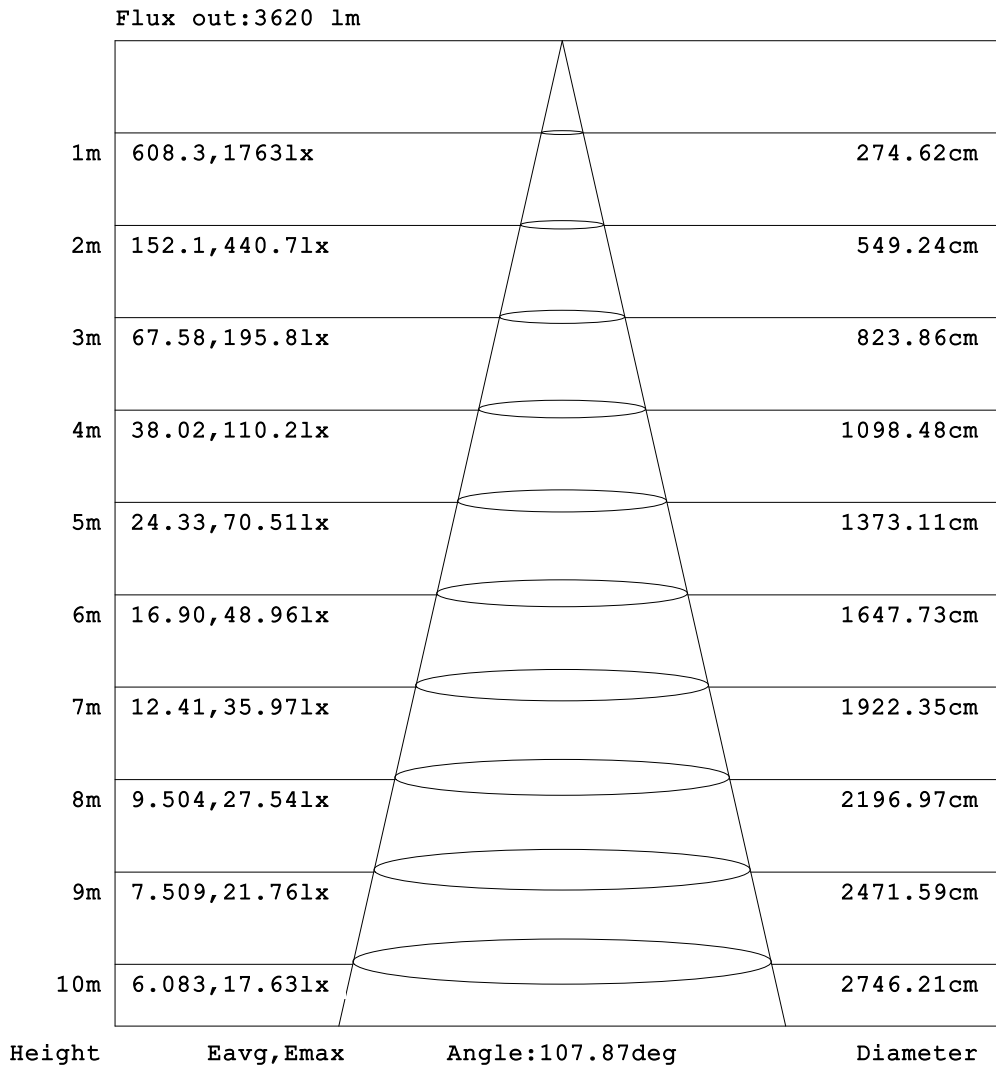
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:



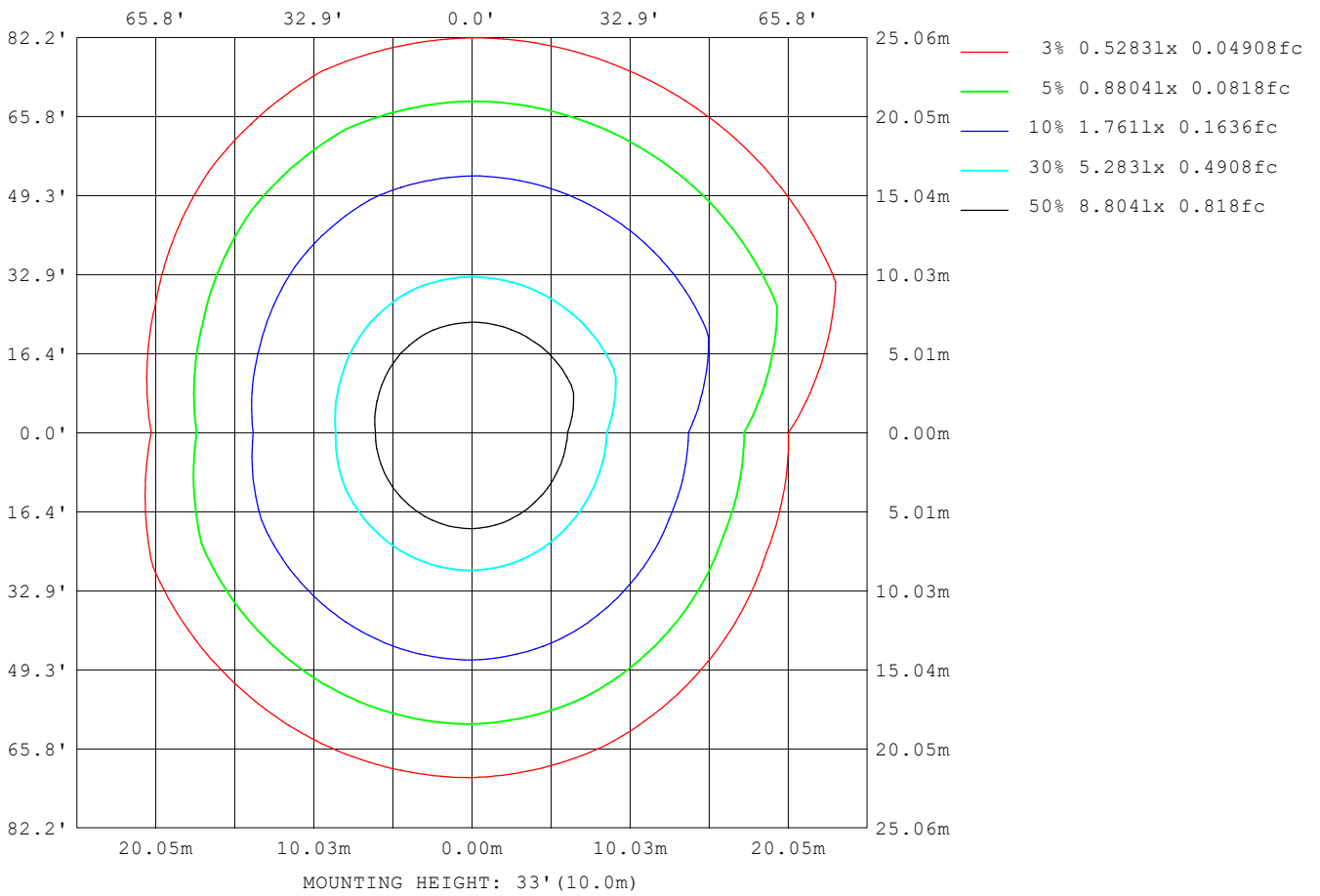
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	Shielding Angle:

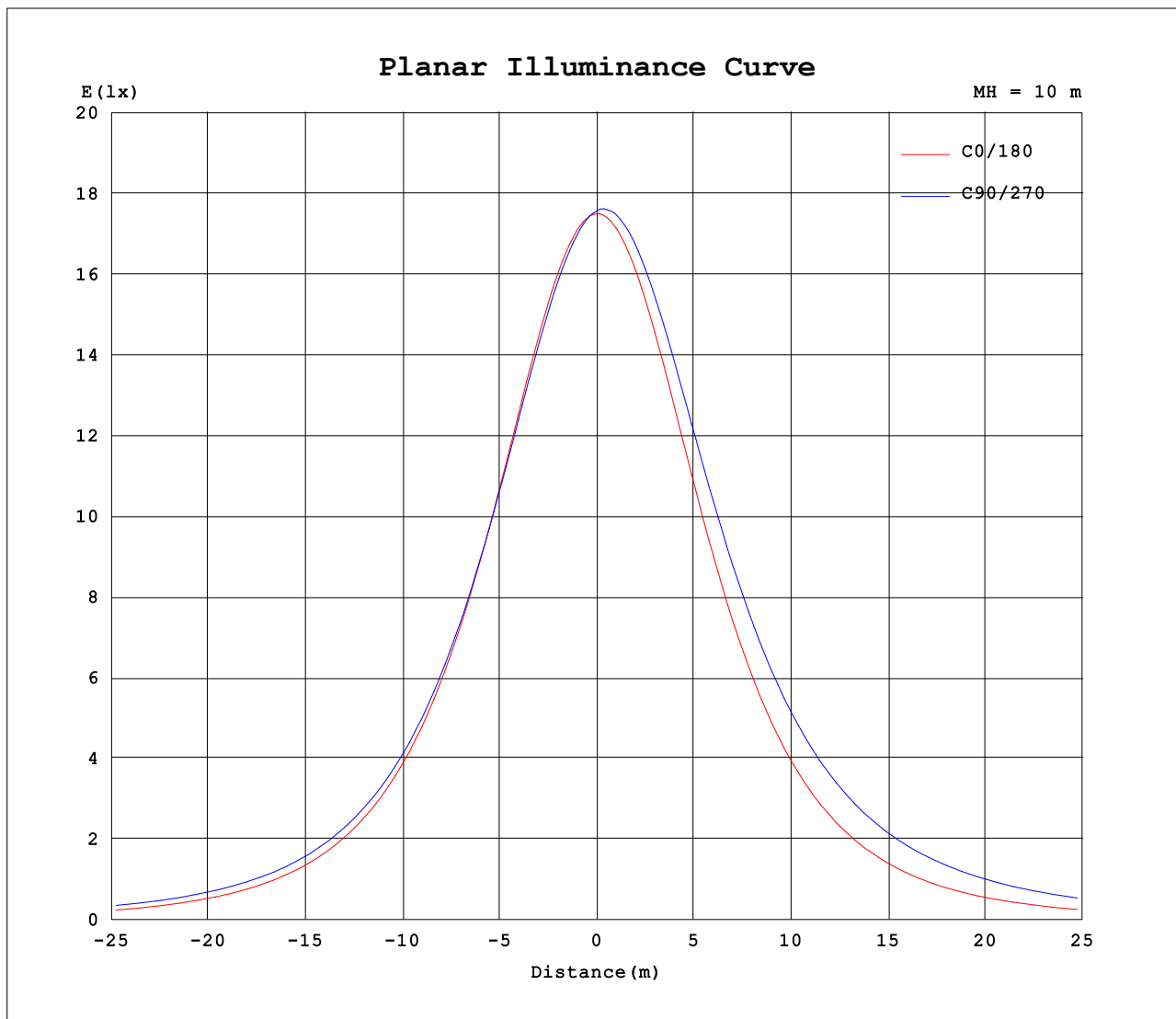
AvgL	cd/m2
L_0~180 (65) av	10703
L_0~180 (75) av	9033
L_0~180 (85) av	6883
L_90~270 (65) av	17286
L_90~270 (75) av	22113
L_90~270 (85) av	49356
L_45 (65) av	16015
L_45 (75) av	19878
L_45 (85) av	42878

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-02-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.100m [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: 2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.100m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.34V I:0.3899A P:46.500W PF:0.9911 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:6884.09x1 lm		
NAME: 1000005792 TS-TPL3-4FT50W-X-277-TCP 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 1.2*0.105	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	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755			
5	1743	1735	1729	1726	1728	1727	1727	1728	1747	1757	1766	1771	1770	1769	1769	1769			
10	1715	1699	1688	1685	1689	1688	1688	1689	1721	1742	1762	1772	1773	1771	1771	1770			
15	1668	1647	1634	1634	1638	1639	1638	1641	1678	1709	1743	1761	1761	1759	1759	1758			
20	1605	1580	1568	1571	1579	1579	1578	1582	1617	1661	1708	1736	1737	1735	1735	1732			
25	1527	1499	1490	1499	1509	1510	1509	1513	1543	1598	1659	1699	1701	1698	1699	1696			
30	1436	1406	1403	1418	1432	1433	1432	1436	1454	1520	1598	1650	1654	1652	1652	1648			
35	1333	1303	1306	1331	1348	1349	1348	1353	1353	1430	1524	1590	1597	1594	1596	1591			
40	1220	1191	1203	1237	1256	1259	1258	1262	1241	1329	1441	1521	1531	1528	1530	1524			
45	1099	1073	1095	1138	1160	1162	1161	1167	1121	1220	1348	1444	1458	1454	1455	1450			
50	970	949	983	1034	1059	1061	1060	1066	995	1103	1250	1359	1376	1372	1373	1367			
55	836	823	869	927	954	956	955	961	861	980	1145	1268	1288	1284	1285	1280			
60	698	696	755	820	849	851	850	855	724	854	1037	1173	1195	1192	1193	1187			
65	557	570	644	714	743	744	744	750	583	728	928	1074	1098	1095	1096	1090			
70	417	450	537	612	640	643	642	647	443	603	819	973	998	994	996	990			
75	282	340	440	518	546	549	547	553	307	484	712	870	896	892	894	888			
80	162	247	357	436	463	465	464	469	182	375	610	769	794	791	792	786			
85	71.3	173	287	365	390	392	391	395	79.9	281	514	669	694	690	692	686			
90	27.3	119	229	304	327	329	328	332	26.2	206	426	574	598	595	596	590			
95	23.8	80.8	179	249	271	273	272	275	25.0	147	350	487	508	505	506	500			
100	19.6	55.2	137	201	221	223	222	225	23.8	99.8	267	400	413	411	411	407			
105	19.3	38.0	103	159	177	178	178	180	20.9	84.1	180	298	317	315	316	312			
110	19.0	29.1	75.5	124	140	141	140	143	20.6	64.1	173	230	243	240	240	238			
115	18.3	26.7	53.6	93.4	108	109	108	110	21.2	46.0	148	226	233	228	225	226			
120	17.9	25.7	38.8	67.8	80.1	80.6	80.4	81.8	21.2	36.2	117	188	196	196	196	194			
125	17.7	24.8	31.7	48.6	57.1	57.6	57.4	58.4	20.9	29.4	88.1	152	159	156	156	154			
130	17.7	23.8	29.2	37.2	42.0	42.3	42.2	42.8	20.7	26.1	64.2	120	131	130	130	128			
135	17.9	23.1	28.0	32.4	34.3	34.4	34.3	34.6	20.4	24.7	47.2	88.8	101	99.9	100	98.7			
140	18.2	22.9	26.9	30.7	31.5	31.5	31.5	31.5	20.2	23.6	36.4	59.2	74.3	73.5	73.9	72.6			
145	18.9	22.5	26.2	29.4	30.0	30.0	30.0	30.0	20.3	23.3	29.3	44.9	53.9	53.4	53.7	52.7			
150	20.2	22.6	25.8	27.8	28.4	28.4	28.5	28.5	20.9	23.3	26.1	33.9	39.6	39.8	39.9	39.4			
155	21.5	22.9	25.9	26.3	26.6	26.6	26.6	26.7	22.0	23.9	25.1	28.7	32.2	31.7	31.8	31.5			
160	22.8	23.3	25.7	25.8	25.6	25.6	25.6	25.6	23.1	24.4	25.4	26.8	28.4	28.3	28.3	28.2			
165	24.0	24.1	25.2	25.3	25.5	25.5	25.5	25.6	24.2	25.1	25.4	25.3	26.2	26.1	26.1	26.0			
170	24.7	24.6	24.6	23.8	24.3	24.3	24.3	24.4	24.9	25.4	25.3	23.9	24.1	24.1	24.1	24.0			
175	25.2	25.0	24.7	23.3	22.7	22.7	22.7	22.8	25.4	25.6	25.2	23.1	22.5	22.6	22.6	22.5			
180	25.6	25.5	25.0	23.0	21.7	21.7	21.8	21.8	25.6	25.6	25.0	23.0	21.7	21.7	21.8	21.8			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:7.100m [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	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755
3.0	1750	1745	1741	1739	1741	1740	1740	1741	1752	1759
6.0	1739	1730	1722	1719	1720	1720	1720	1721	1743	1755
9.0	1722	1707	1697	1694	1697	1697	1697	1698	1728	1746
12.0	1698	1681	1669	1665	1669	1669	1669	1671	1705	1731
15.0	1668	1647	1634	1634	1638	1639	1638	1641	1678	1709
18.0	1632	1608	1596	1597	1603	1604	1603	1606	1643	1683
21.0	1591	1565	1553	1557	1566	1566	1566	1568	1603	1649
24.0	1544	1516	1506	1514	1524	1525	1525	1528	1559	1612
27.0	1493	1464	1456	1468	1480	1480	1480	1484	1508	1568
30.0	1436	1406	1403	1418	1432	1433	1432	1436	1454	1520
33.0	1376	1346	1346	1367	1382	1383	1383	1387	1394	1467
36.0	1312	1282	1286	1313	1330	1332	1330	1335	1331	1411
39.0	1244	1214	1224	1256	1275	1277	1276	1281	1265	1350
42.0	1172	1145	1160	1198	1219	1220	1220	1225	1194	1287
45.0	1099	1073	1095	1138	1160	1162	1161	1167	1121	1220
48.0	1022	999.3	1028	1076	1100	1102	1101	1107	1046	1151
51.0	943.5	924.2	960.3	1013	1038	1040	1040	1045	968.1	1078
54.0	862.6	848.4	891.9	948.7	975.3	977.5	976.4	982.2	888.6	1005
57.0	780.7	771.9	823.1	884.4	911.5	914.1	913.1	919.0	806.9	930.3
60.0	697.8	695.8	755.0	820.1	848.5	850.6	849.9	855.5	724.2	854.5
63.0	613.1	620.3	687.7	756.2	784.6	786.8	785.8	791.9	639.9	778.4
66.0	528.4	545.7	621.7	693.2	721.6	724.1	723.3	728.5	555.6	702.7
69.0	444.3	473.3	558.4	631.5	660.2	662.3	661.3	667.1	471.0	627.3
72.0	361.8	404.8	497.2	573.3	601.7	603.6	602.8	608.2	387.5	554.0
75.0	282.3	340.1	439.9	518.3	546.2	548.5	547.4	552.5	306.8	483.6
78.0	207.9	281.7	388.3	468.0	495.3	497.3	496.3	501.0	229.9	416.7
81.0	141.0	229.9	342.0	421.3	447.7	449.4	448.9	453.1	159.9	354.6
84.0	86.36	186.1	299.9	378.7	404.4	405.6	405.1	409.1	97.79	298.0
87.0	47.69	149.6	262.5	339.7	364.3	365.9	365.1	368.8	49.71	248.5
90.0	27.34	119.5	228.7	303.7	327.5	329.1	328.3	331.6	26.24	206.0
93.0	24.89	94.68	197.8	270.5	293.1	294.4	293.6	296.9	24.17	171.0
96.0	23.15	74.75	169.7	239.0	260.9	262.5	261.5	264.7	25.13	129.2
99.0	20.38	59.55	144.2	209.9	230.7	232.0	231.2	234.3	24.33	99.66
102.0	19.33	47.37	122.4	183.0	202.8	204.0	203.3	206.0	22.83	95.19
105.0	19.31	37.96	103.1	158.8	177.0	178.2	177.5	180.1	20.94	84.09
108.0	19.24	31.55	85.82	137.1	154.1	155.2	154.6	156.8	20.45	71.96
111.0	18.79	28.29	70.71	117.2	133.4	134.1	133.7	135.5	20.90	60.35
114.0	18.44	26.94	57.56	99.00	114.0	114.6	114.4	116.0	21.25	50.84
117.0	18.12	26.24	46.72	82.64	96.17	96.79	96.58	98.07	21.27	40.36
120.0	17.89	25.70	38.83	67.83	80.05	80.62	80.42	81.77	21.16	36.16
123.0	17.72	25.12	33.69	55.19	65.60	66.02	65.87	67.06	21.05	31.70
126.0	17.65	24.59	30.93	45.76	53.51	53.84	53.68	54.61	20.89	28.45
129.0	17.64	24.00	29.51	38.90	44.50	44.78	44.66	45.35	20.72	26.70
132.0	17.77	23.48	28.63	34.64	38.16	38.34	38.25	38.69	20.57	25.32
135.0	17.93	23.12	28.00	32.44	34.32	34.41	34.34	34.59	20.43	24.67
138.0	18.13	23.01	27.35	31.22	32.29	32.32	32.30	32.41	20.27	23.99
141.0	18.31	22.89	26.76	30.42	31.15	31.16	31.16	31.21	20.16	23.51
144.0	18.69	22.70	26.33	29.66	30.30	30.30	30.31	30.34	20.24	23.34
147.0	19.38	22.37	25.98	28.81	29.39	29.39	29.40	29.44	20.39	23.24
150.0	20.16	22.64	25.82	27.82	28.44	28.45	28.46	28.52	20.87	23.27
153.0	20.97	22.78	25.86	26.85	27.30	27.31	27.32	27.38	21.50	23.65
156.0	21.74	22.86	25.91	26.11	26.34	26.34	26.35	26.40	22.22	24.04
159.0	22.50	23.09	25.74	25.79	25.66	25.66	25.67	25.68	22.90	24.32
162.0	23.34	23.72	25.72	25.79	25.65	25.65	25.65	25.65	23.62	24.74
165.0	23.99	24.13	25.16	25.32	25.50	25.53	25.53	25.60	24.23	25.07
168.0	24.51	24.43	24.52	24.63	24.97	24.96	24.96	25.05	24.61	25.33
171.0	24.83	24.67	24.61	23.49	23.83	23.86	23.90	24.02	24.97	25.39
174.0	25.15	24.97	24.73	23.34	22.93	22.92	22.95	23.00	25.35	25.51
177.0	25.44	25.33	24.84	23.03	22.26	22.26	22.32	22.41	25.60	25.59
180.0	25.58	25.55	25.05	23.05	21.72	21.70	21.80	21.82	25.58	25.59
G/C	225.0	247.5	270.0	292.5	315.0	337.5				
0.0	1755	1755	1755	1755	1755	1755				
3.0	1763	1766	1765	1765	1765	1764				
6.0	1766	1772	1772	1770	1771	1770				
9.0	1764	1773	1773	1772	1772	1771				
12.0	1756	1770	1769	1768	1767	1767				
15.0	1743	1761	1761	1759	1759	1758				
18.0	1723	1747	1748	1746	1747	1744				
21.0	1699	1730	1730	1728	1729	1726				
24.0	1670	1707	1709	1706	1707	1705				
27.0	1636	1680	1684	1681	1682	1678				
30.0	1598	1650	1654	1652	1652	1648				

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-02-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 7.100m [K=1.0000]  
 Remarks:

## Photometric Data Table [cd]

33.0	1555	1615	1622	1618	1619	1615
36.0	1508	1577	1585	1582	1583	1578
39.0	1458	1535	1545	1543	1544	1539
42.0	1405	1492	1503	1499	1501	1495
45.0	1348	1444	1458	1454	1455	1450
48.0	1290	1394	1409	1406	1407	1401
51.0	1229	1342	1358	1354	1356	1350
54.0	1166	1286	1306	1302	1304	1297
57.0	1102	1231	1251	1248	1249	1243
60.0	1037	1173	1195	1192	1193	1187
63.0	971.3	1114	1138	1134	1135	1129
66.0	905.8	1054	1078	1075	1076	1070
69.0	840.3	993.5	1019	1015	1016	1009
72.0	775.7	931.7	957.3	953.3	954.8	948.2
75.0	711.9	869.9	896.1	892.3	893.7	887.6
78.0	649.6	808.3	835.2	831.1	832.9	826.4
81.0	589.7	748.5	774.6	770.4	771.9	765.8
84.0	532.1	688.6	713.7	710.2	711.1	706.0
87.0	477.2	629.9	654.8	651.2	652.6	646.7
90.0	426.0	573.8	597.9	594.6	595.8	590.3
93.0	379.2	520.5	543.7	540.4	541.4	536.1
96.0	335.5	469.8	489.7	486.5	488.3	482.3
99.0	287.1	418.2	432.3	429.5	429.3	425.1
102.0	227.0	357.4	372.5	369.1	373.9	365.5
105.0	180.0	298.4	316.9	315.0	316.1	311.9
108.0	186.2	239.7	266.6	261.0	265.9	258.7
111.0	170.4	237.1	242.4	240.1	235.7	237.2
114.0	155.1	231.6	234.7	229.5	231.6	227.1
117.0	135.5	211.2	221.8	218.3	220.1	215.8
120.0	116.6	187.8	196.5	195.7	196.5	194.3
123.0	99.20	164.5	170.5	169.3	170.6	168.4
126.0	83.46	146.8	154.8	150.2	151.4	147.9
129.0	69.27	127.0	137.4	135.7	136.5	133.7
132.0	54.85	107.4	118.6	117.5	117.9	116.2
135.0	47.17	88.83	100.9	99.90	100.3	98.67
138.0	40.75	69.43	84.45	83.60	83.82	82.44
141.0	34.44	56.39	69.58	68.87	69.16	67.94
144.0	30.29	47.83	57.41	56.82	57.04	56.05
147.0	27.62	39.82	47.72	47.42	47.58	46.80
150.0	26.14	33.91	39.64	39.81	39.88	39.39
153.0	25.24	30.18	34.13	34.58	34.50	34.42
156.0	25.12	28.11	31.13	30.58	30.73	30.39
159.0	25.40	27.00	28.78	28.61	28.63	28.52
162.0	25.48	26.36	27.44	27.48	27.48	27.43
165.0	25.43	25.28	26.18	26.11	26.12	26.03
168.0	25.36	24.54	24.84	24.79	24.81	24.68
171.0	25.26	23.53	23.80	23.78	23.80	23.69
174.0	25.20	23.10	22.66	22.73	22.75	22.66
177.0	25.05	22.98	21.99	22.12	22.14	22.06
180.0	25.03	23.05	21.74	21.73	21.76	21.85

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-02-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks: