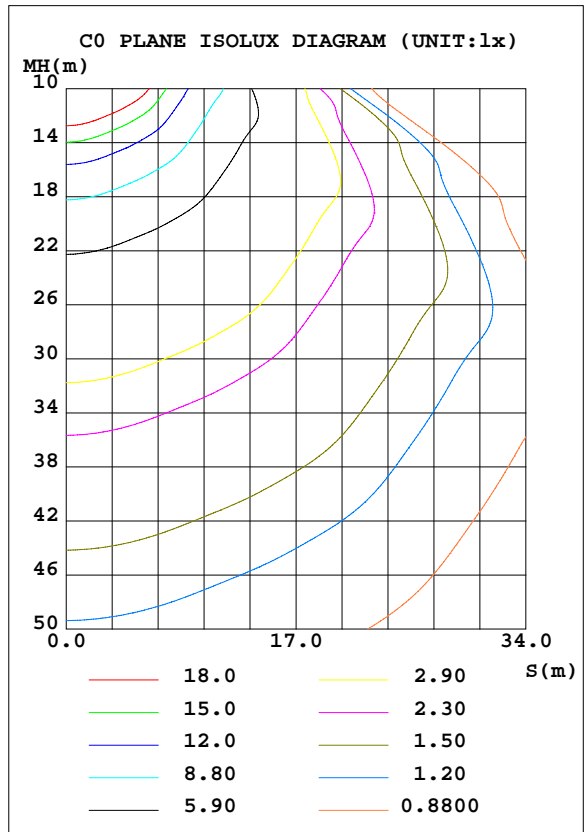
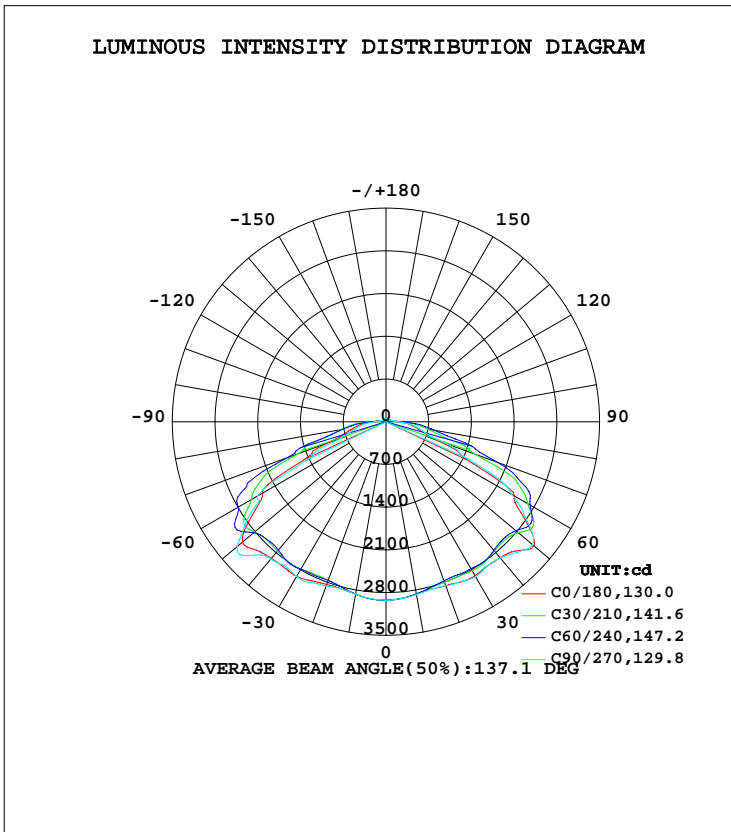


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.87 lm/W			
MODEL	TS-GCP1110-100W-TCP	I _{max} (cd)	3241	S/MH(C0/180)	1.53
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.53
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	12996	η UP, DN(C0-180)	2.0,48.4
NOMINAL FLUX(lm)	12996.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.7,47.9
LAMPS INSIDE	1	η up(%)	3.7	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	96.3	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

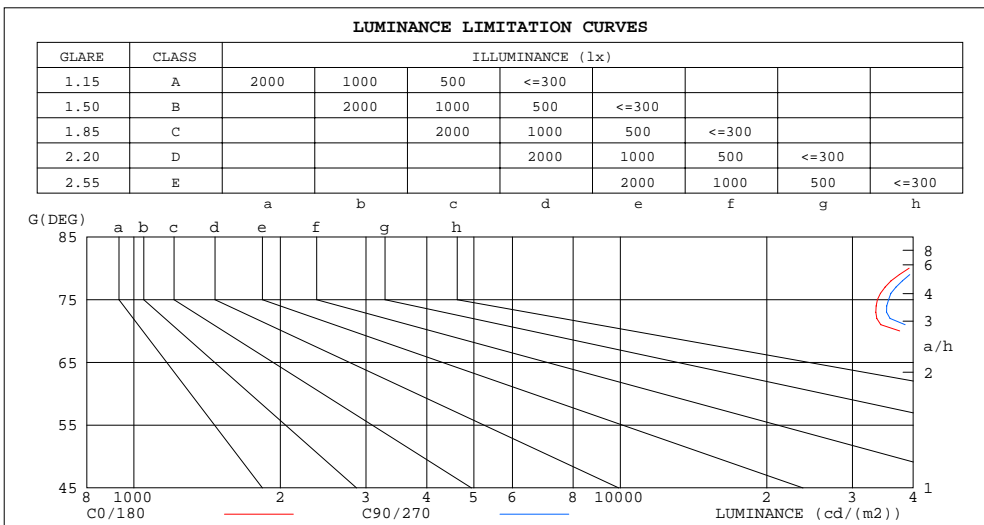
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	2867	2866	2876	2871	2868	2867	2869	2862	0- 10	276.3	276.3	2.13,2.13
20	2859	2788	2859	2784	2839	2767	2867	2773	10- 20	800.2	1077	8.28,8.28
30	2916	2801	2933	2790	2927	2789	2928	2791	20- 30	1305	2381	18.3,18.3
40	2910	2756	2915	2763	2923	2756	2936	2733	30- 40	1777	4158	32,32
50	3165	2803	3137	2815	3068	2819	3181	2817	40- 50	2205	6364	49,49
60	2436	2703	2379	2679	2332	2667	2434	2712	50- 60	2529	8892	68.4,68.4
70	897.9	1747	1066	1758	1037	1619	784.9	1617	60- 70	2084	10976	84.5,84.5
80	476.8	750.1	501.4	775.4	510.6	737.7	450.4	737.0	70- 80	1052	12028	92.5,92.5
90	182.7	231.3	198.9	240.4	191.7	228.3	175.2	214.2	80- 90	488.1	12516	96.3,96.3
100	108.7	107.8	115.9	111.1	107.0	94.20	96.49	90.85	90-100	161.3	12677	97.5,97.5
110	79.63	77.37	81.48	78.06	69.13	59.01	64.71	58.84	100-110	89.03	12766	98.2,98.2
120	67.32	63.08	67.99	63.12	49.70	44.11	48.91	44.49	110-120	62.25	12829	98.7,98.7
130	57.44	58.83	56.75	56.95	47.54	43.56	45.03	44.22	120-130	46.62	12875	99.1,99.1
140	57.99	57.81	54.66	56.00	46.30	46.77	46.19	47.58	130-140	39.71	12915	99.4,99.4
150	54.78	58.57	54.75	57.65	50.77	51.59	50.69	51.53	140-150	33.10	12948	99.6,99.6
160	56.52	61.19	58.15	60.17	56.15	56.36	55.43	56.14	150-160	25.90	12974	99.8,99.8
170	58.80	61.09	59.29	60.03	58.43	59.08	58.56	58.71	160-170	16.67	12991	100,100
180	59.26	59.72	59.28	59.96	59.26	59.71	59.26	59.93	170-180	5.676	12996	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	57771	60735
80	39234	41245
75	33771	35612
70	37516	44538
65	48464	54427
60	69634	67957
55	69086	70079
50	70359	69712
45	60573	61222

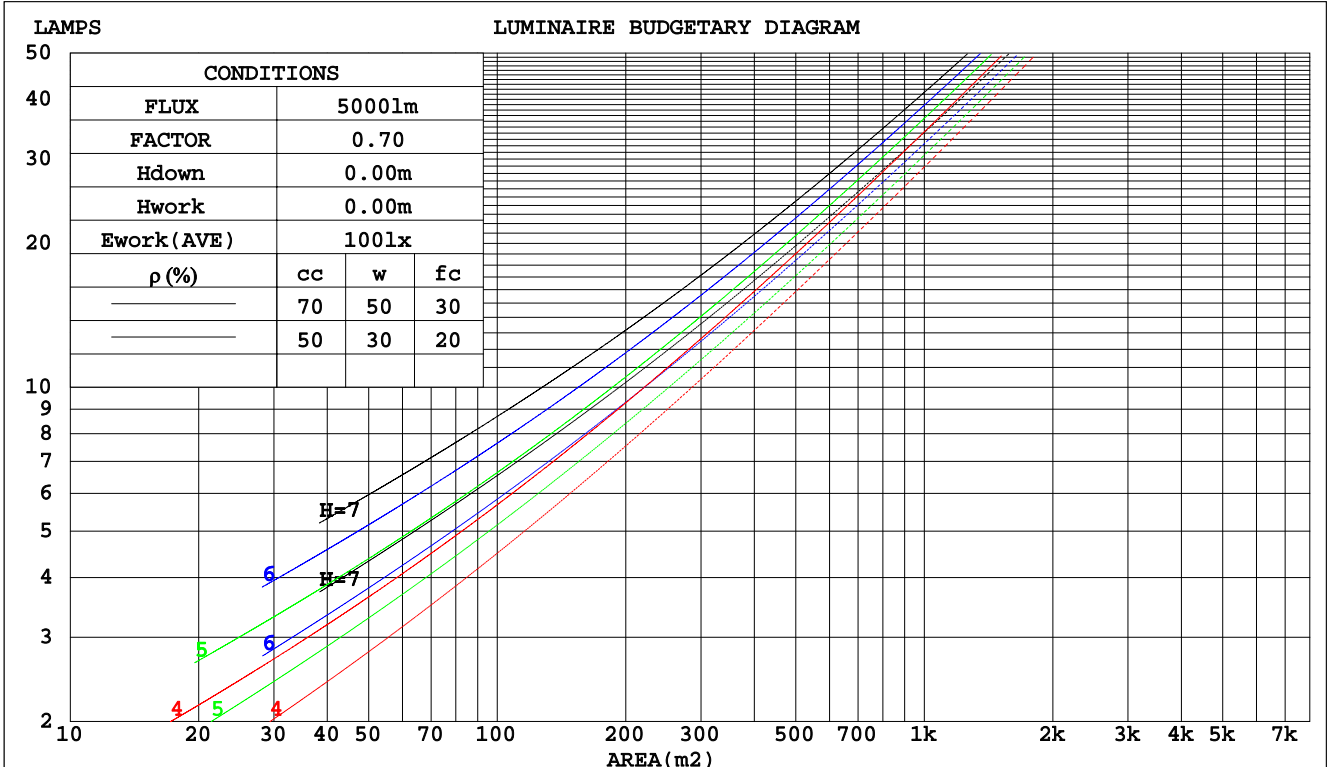
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 12.550m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	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	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.96
1.0	1.01	.96	.91	.98	.94	.90	.93	.89	.86	.88	.85	.83	.84	.82	.80	.77
2.0	.86	.78	.72	.84	.77	.71	.80	.74	.69	.76	.71	.66	.72	.68	.64	.62
3.0	.74	.65	.58	.72	.64	.57	.69	.62	.56	.65	.59	.54	.62	.57	.53	.50
4.0	.65	.55	.48	.63	.54	.47	.60	.52	.46	.57	.50	.45	.55	.49	.44	.42
5.0	.57	.47	.40	.56	.46	.40	.53	.45	.39	.51	.44	.38	.48	.42	.37	.35
6.0	.51	.41	.34	.50	.40	.34	.47	.39	.33	.45	.38	.33	.43	.37	.32	.30
7.0	.46	.36	.30	.44	.36	.29	.43	.35	.29	.41	.34	.28	.39	.33	.28	.26
8.0	.41	.32	.26	.40	.32	.26	.39	.31	.25	.37	.30	.25	.36	.29	.24	.22
9.0	.37	.29	.23	.37	.28	.23	.35	.28	.22	.34	.27	.22	.33	.26	.22	.20
10.0	.34	.26	.20	.34	.26	.20	.32	.25	.20	.31	.25	.20	.30	.24	.19	.18



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		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	.353	.201	.064	.345	.197	.063	.329	.189	.060	.315	.182	.058	.302	.175	.056	
2.0	.325	.178	.055	.318	.175	.054	.304	.169	.052	.291	.163	.051	.279	.158	.050	
3.0	.297	.158	.047	.290	.156	.047	.278	.151	.046	.266	.146	.045	.256	.142	.044	
4.0	.271	.141	.041	.266	.139	.041	.254	.135	.040	.244	.131	.040	.234	.127	.039	
5.0	.249	.127	.037	.244	.125	.036	.234	.122	.036	.224	.118	.035	.216	.115	.035	
6.0	.229	.115	.033	.224	.113	.033	.215	.110	.032	.207	.108	.032	.199	.105	.031	
7.0	.212	.105	.030	.208	.103	.029	.200	.101	.029	.192	.098	.029	.185	.096	.028	
8.0	.197	.096	.027	.193	.095	.027	.186	.093	.026	.179	.091	.026	.172	.088	.026	
9.0	.184	.089	.025	.180	.088	.025	.174	.086	.024	.167	.084	.024	.161	.082	.024	
10.0	.172	.082	.023	.169	.081	.023	.163	.080	.022	.157	.078	.022	.152	.076	.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
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.219	.219	.219	.187	.187	.187	.128	.128	.128	.073	.073	.073	.023	.023	.023	
1.0	.212	.184	.159	.181	.158	.137	.124	.109	.095	.071	.063	.055	.023	.020	.018	
2.0	.205	.160	.123	.176	.138	.106	.120	.095	.074	.069	.056	.043	.022	.018	.014	
3.0	.198	.143	.099	.170	.124	.086	.117	.086	.060	.067	.050	.036	.022	.016	.012	
4.0	.191	.130	.084	.164	.113	.073	.113	.078	.051	.065	.046	.030	.021	.015	.010	
5.0	.184	.120	.073	.158	.104	.064	.109	.073	.045	.063	.043	.027	.020	.014	.009	
6.0	.177	.112	.066	.152	.097	.057	.105	.068	.041	.061	.040	.024	.020	.013	.008	
7.0	.170	.105	.061	.146	.091	.053	.101	.064	.037	.059	.038	.022	.019	.012	.007	
8.0	.163	.100	.056	.140	.087	.049	.097	.061	.035	.056	.036	.021	.018	.012	.007	
9.0	.156	.095	.053	.135	.082	.046	.093	.058	.033	.054	.034	.020	.018	.011	.007	
10.0	.150	.091	.051	.130	.079	.044	.090	.055	.031	.052	.033	.019	.017	.011	.006	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0%						Lamp Flux:12996.4x1 lm				
NAME: TS-GCP1110-100W-TCP			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			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	27.7	29.4	28.1	29.7	30.1	27.6	29.3	28.0	29.7	30.1
3H	29.0	30.6	29.5	31.0	31.4	29.0	30.5	29.4	30.9	31.4
4H	29.4	30.8	29.8	31.3	31.7	29.3	30.8	29.8	31.2	31.7
6H	29.7	31.0	30.2	31.5	32.0	29.6	31.0	30.1	31.4	31.9
8H	29.9	31.2	30.3	31.6	32.1	29.8	31.1	30.3	31.6	32.1
12H	30.1	31.3	30.5	31.8	32.3	30.0	31.3	30.5	31.7	32.2
4H 2H	28.7	30.1	29.1	30.6	31.0	28.6	30.1	29.1	30.5	30.9
3H	30.3	31.5	30.7	32.0	32.4	30.3	31.5	30.7	32.0	32.5
4H	30.7	31.8	31.2	32.3	32.8	30.7	31.9	31.2	32.3	32.9
6H	31.2	32.1	31.7	32.6	33.2	31.2	32.2	31.7	32.7	33.2
8H	31.4	32.3	31.9	32.8	33.4	31.4	32.3	31.9	32.8	33.4
12H	31.7	32.5	32.2	33.0	33.6	31.7	32.5	32.2	33.1	33.6
8H 4H	31.2	32.1	31.7	32.6	33.2	31.2	32.1	31.7	32.7	33.2
6H	31.8	32.6	32.4	33.1	33.7	31.9	32.6	32.4	33.2	33.7
8H	32.2	32.9	32.7	33.4	34.0	32.2	32.9	32.8	33.5	34.0
12H	32.6	33.2	33.1	33.7	34.4	32.6	33.2	33.2	33.8	34.4
12H 4H	31.2	32.1	31.8	32.6	33.2	31.3	32.1	31.8	32.7	33.2
6H	32.0	32.7	32.5	33.2	33.8	32.0	32.7	32.6	33.2	33.9
8H	32.4	33.0	33.0	33.6	34.2	32.5	33.1	33.0	33.6	34.3
CIE190: 2010										

CIE190: 2010
Area: 0.07 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:12.550m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:12996.4x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

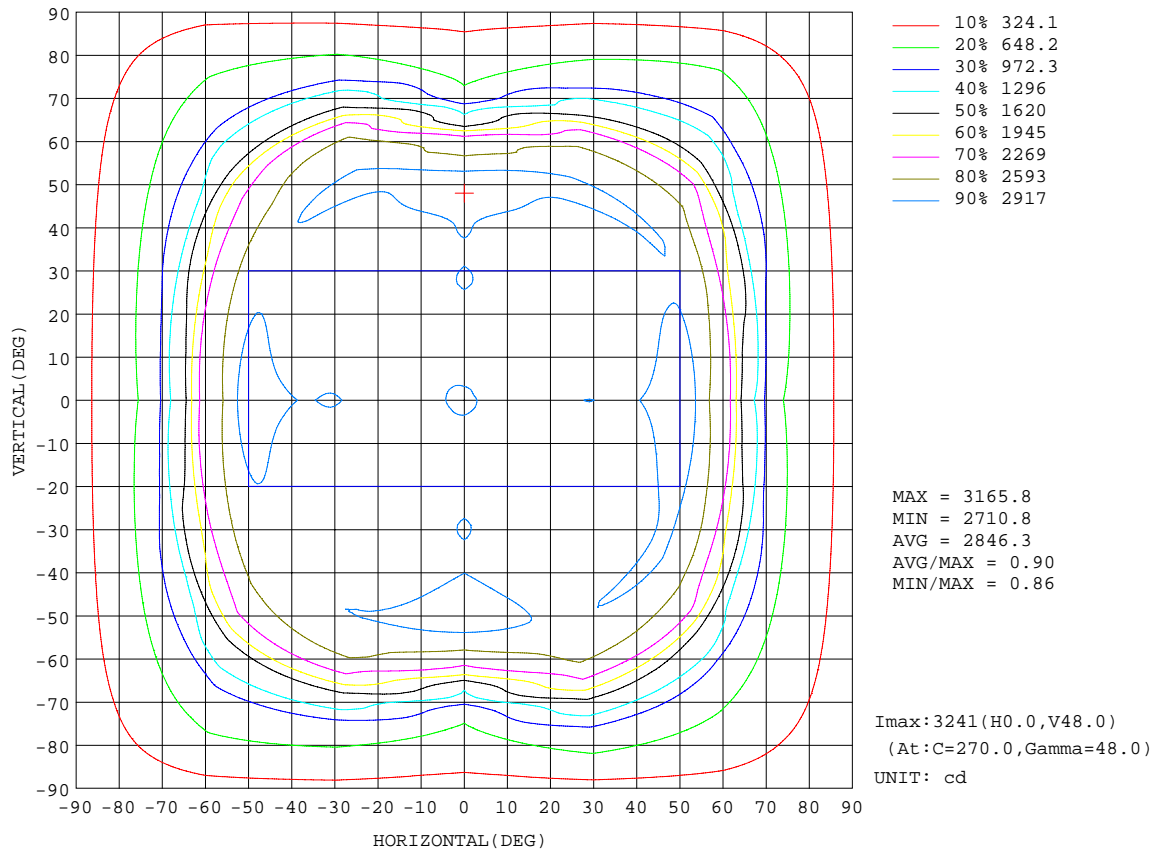
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	46	39	57	46	38	30
1.00	69	56	48	67	56	48	65	57	47	39
1.25	77	64	56	75	64	56	72	62	55	46
1.50	82	71	62	80	69	62	76	67	61	52
2.00	90	80	72	88	78	71	83	76	70	60
2.50	94	85	78	92	84	77	87	80	75	65
3.00	98	90	84	96	88	82	91	85	80	70
4.00	103	96	90	100	94	89	95	90	86	75
5.00	106	100	95	103	98	93	98	93	90	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



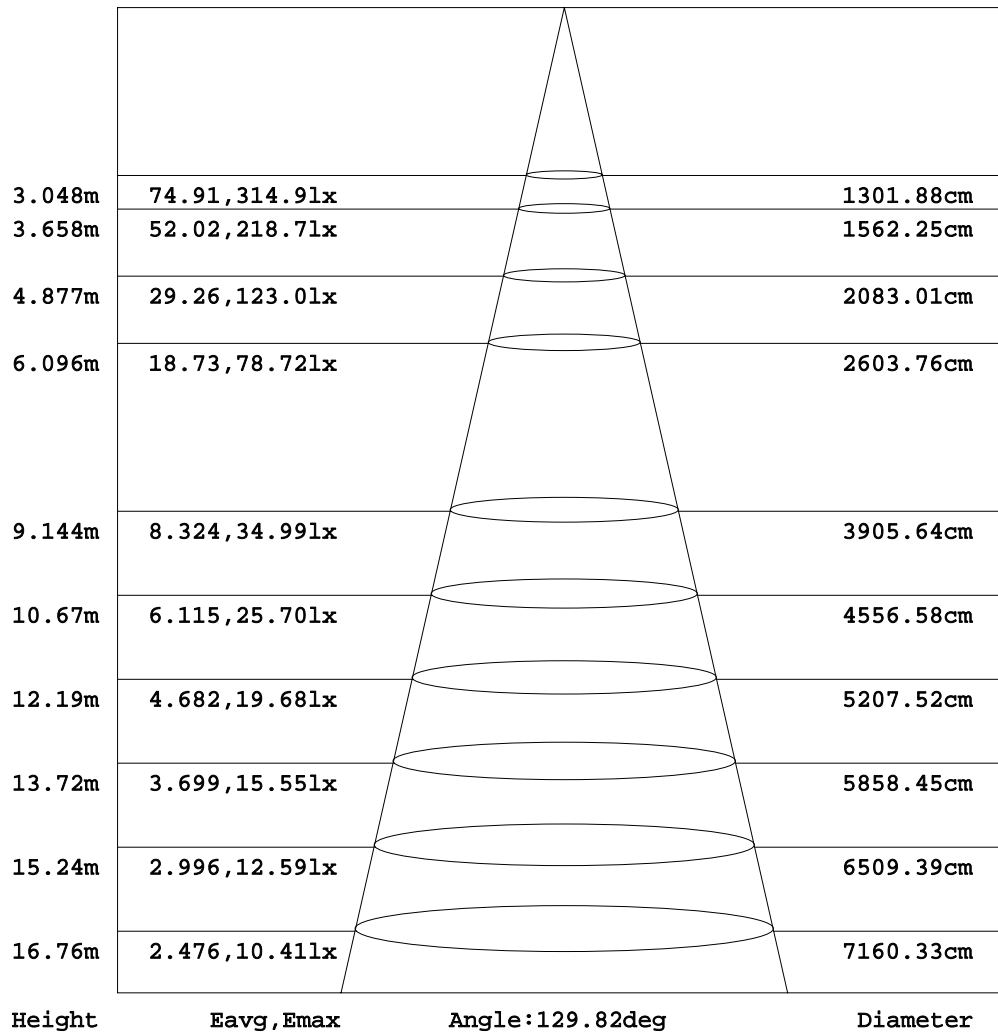
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 12.550m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:10055 lm



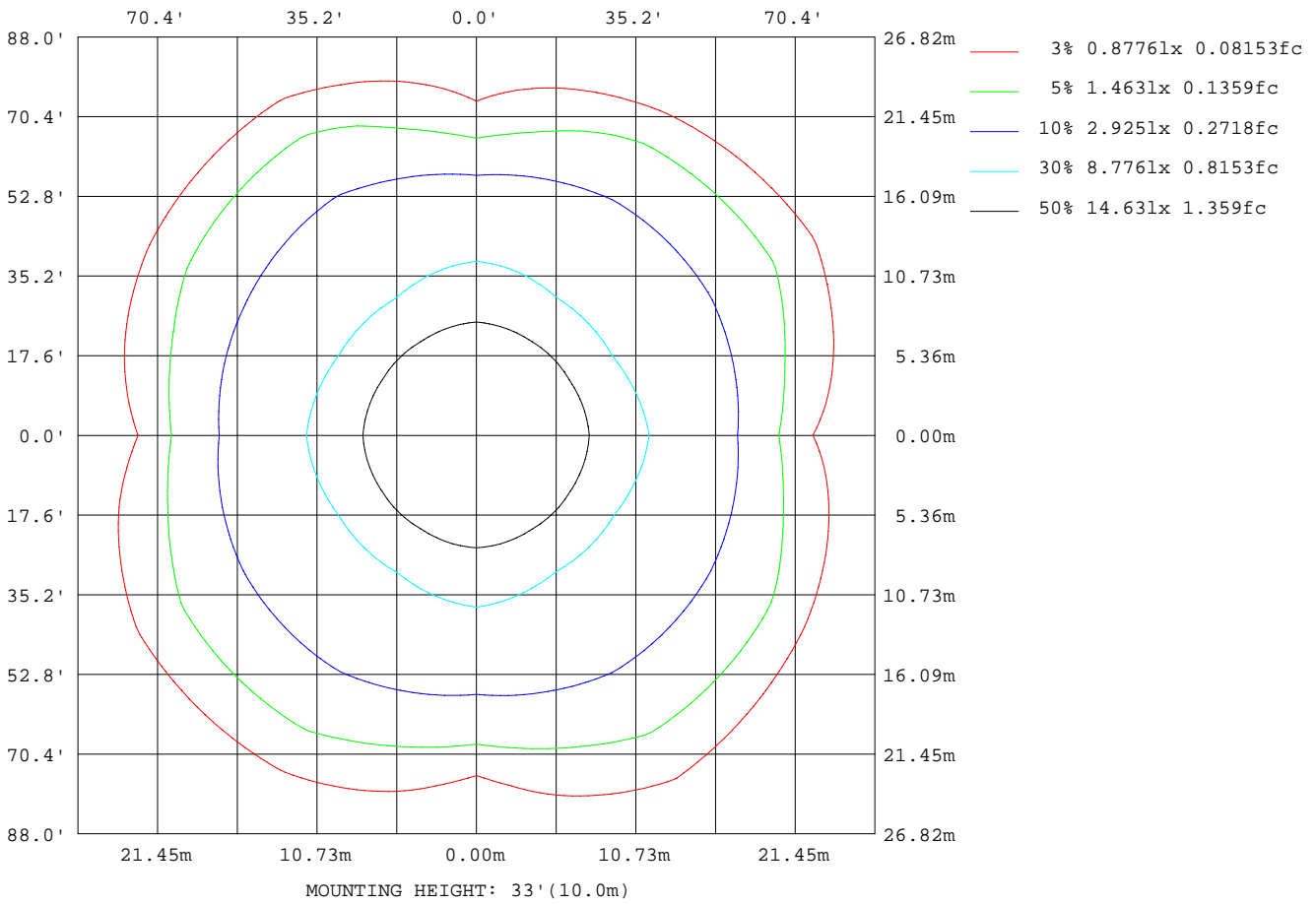
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 12.550m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.25V I:0.8037A P:96.364W PF:0.9971 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12996.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

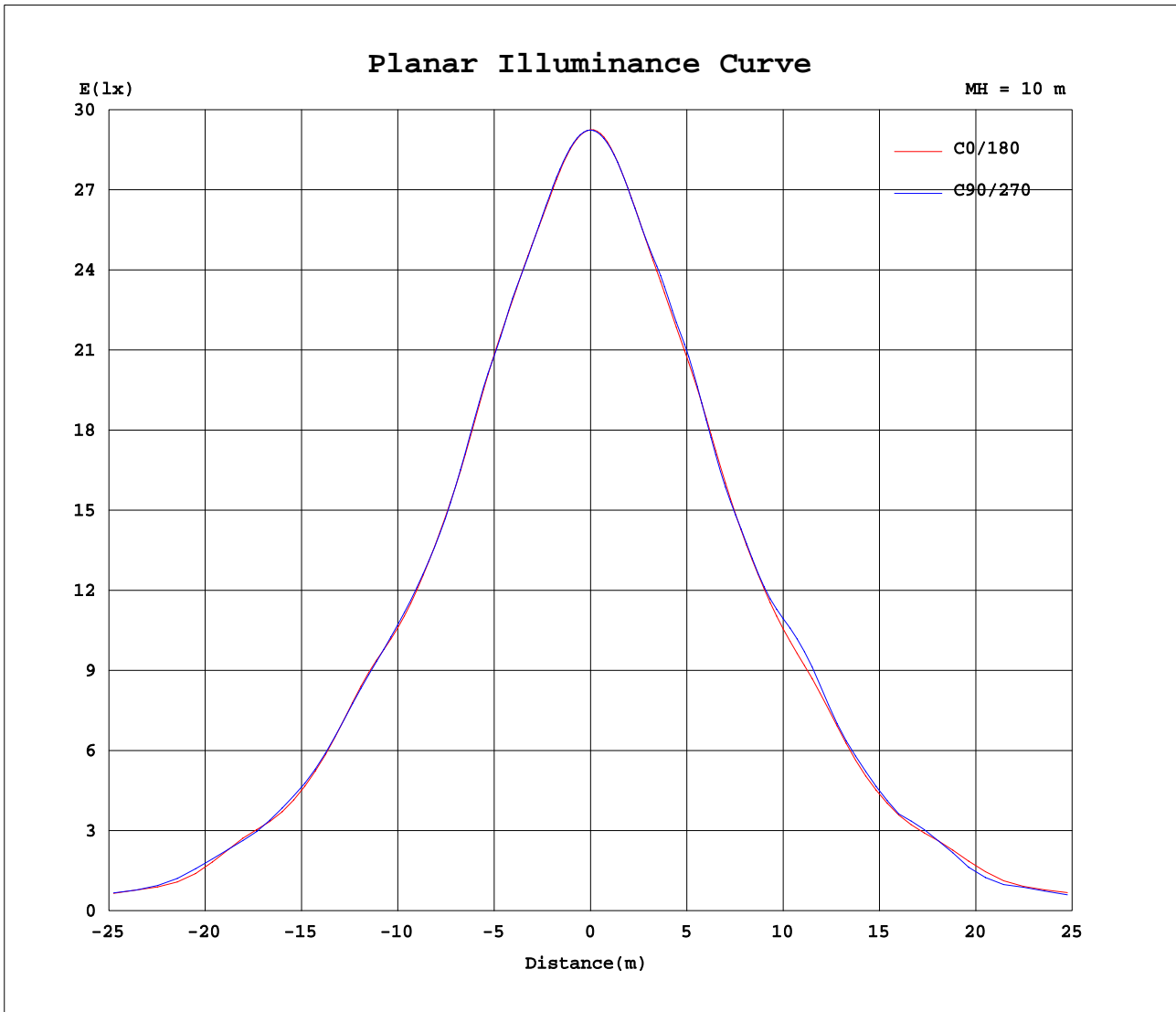
AvgL	cd/m2
L_0~180(65)av	49439
L_0~180(75)av	35350
L_0~180(85)av	59593
L_90~270(65)av	49258
L_90~270(75)av	33842
L_90~270(85)av	58050
L_45(65)av	85868
L_45(75)av	66759
L_45(85)av	88522

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:12.550m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 12.550m [K=1.0000]
 Remarks: