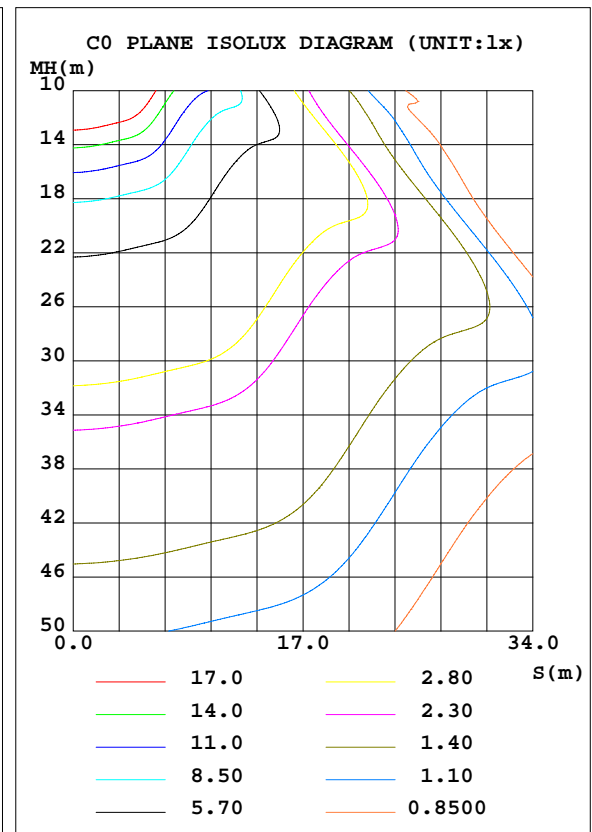
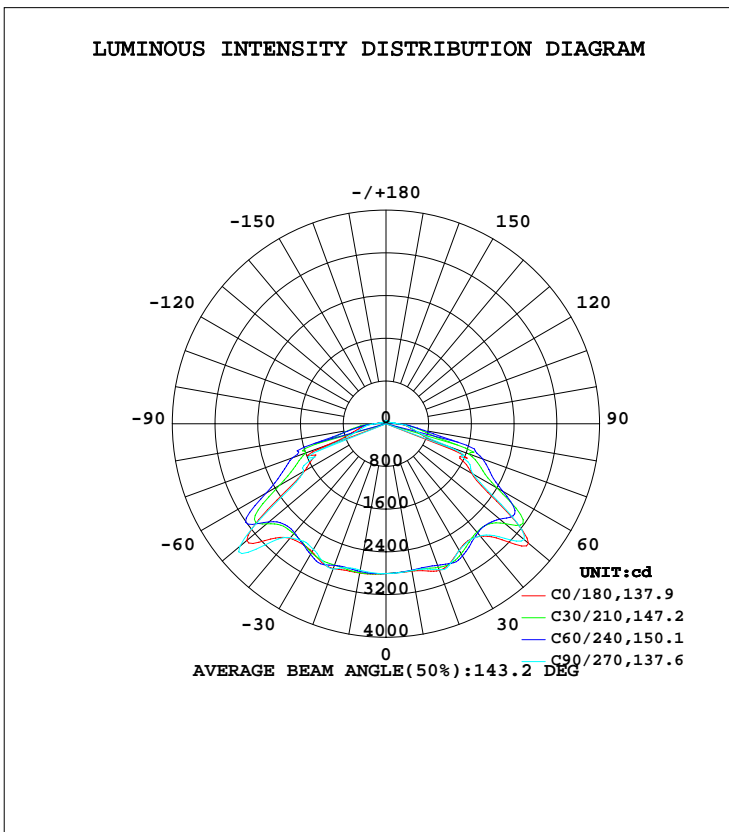


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12720.8x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.11 lm/W			
MODEL	TS-GCP1110-100W-TCP	I _{max} (cd)	3654	S/MH(C0/180)	1.51
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	12721	η UP, DN(C0-180)	2.0,48.3
NOMINAL FLUX(lm)	12720.8	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:

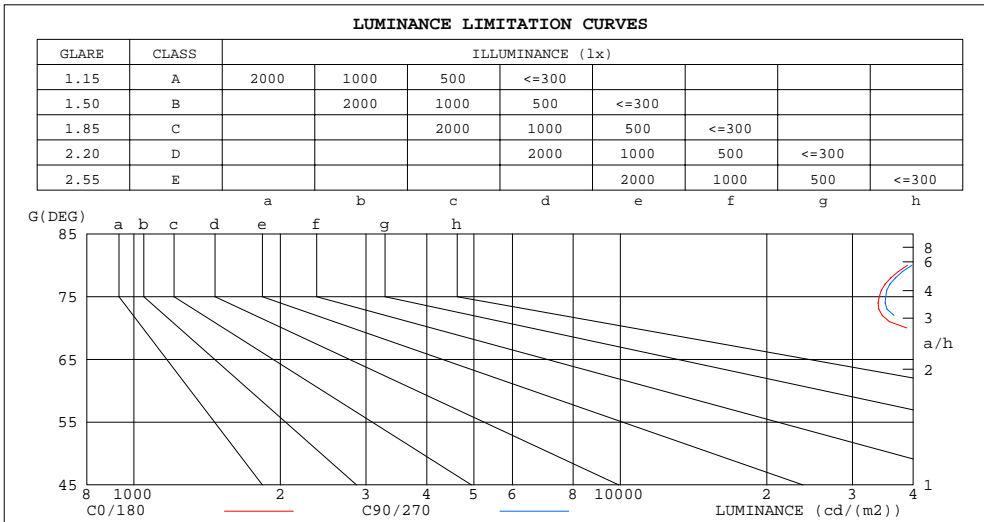
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φlum,lamp
10	2804	2789	2792	2820	2839	2821	2784	2783	0- 10	267.8	267.8	2.11,2.11
20	2923	2843	2910	2850	2886	2820	2895	2816	10- 20	799.3	1067	8.39,8.39
30	2739	2838	2740	2833	2770	2807	2718	2797	20- 30	1319	2386	18.8,18.8
40	2751	2660	2745	2676	2801	2677	2788	2647	30- 40	1713	4100	32.2,32.2
50	3483	2848	3373	2840	3400	2888	3573	2882	40- 50	2207	6306	49.6,49.6
60	1853	2458	1883	2488	1752	2441	1784	2456	50- 60	2500	8806	69.2,69.2
70	917.9	1787	1260	1794	1187	1730	834.6	1720	60- 70	1882	10688	84,84
80	468.0	685.3	484.9	718.2	500.3	688.4	442.3	672.3	70- 80	1109	11797	92.7,92.7
90	192.1	208.0	212.8	217.6	203.3	203.9	194.7	192.5	80- 90	448.1	12245	96.3,96.3
100	112.6	106.4	123.4	110.0	117.4	95.02	102.9	91.43	90-100	161.6	12407	97.5,97.5
110	76.54	74.46	79.12	74.79	70.90	58.22	64.90	57.92	100-110	89.27	12496	98.2,98.2
120	67.19	62.15	67.89	62.39	49.26	43.06	48.33	43.50	110-120	60.64	12557	98.7,98.7
130	56.42	57.67	55.81	55.61	46.53	42.49	43.53	43.25	120-130	45.93	12602	99.1,99.1
140	55.80	56.51	52.59	54.66	45.18	45.66	45.02	46.66	130-140	38.75	12641	99.4,99.4
150	53.52	57.36	53.73	56.36	49.72	50.23	49.58	50.41	140-150	32.30	12674	99.6,99.6
160	55.25	59.86	56.98	58.82	54.95	55.04	54.11	54.92	150-160	25.33	12699	99.8,99.8
170	57.50	59.90	58.12	58.88	57.61	58.10	57.45	57.75	160-170	16.32	12715	100,100
180	58.15	58.85	58.34	59.09	58.52	58.81	58.19	59.07	170-180	5.581	12721	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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0%		Lamp Flux:12720.8x1 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	60359	62628
80	38948	39763
75	34066	35137
70	38787	52460
65	52198	57195
60	53558	53636
55	63704	65299
50	78301	74725
45	62792	60323

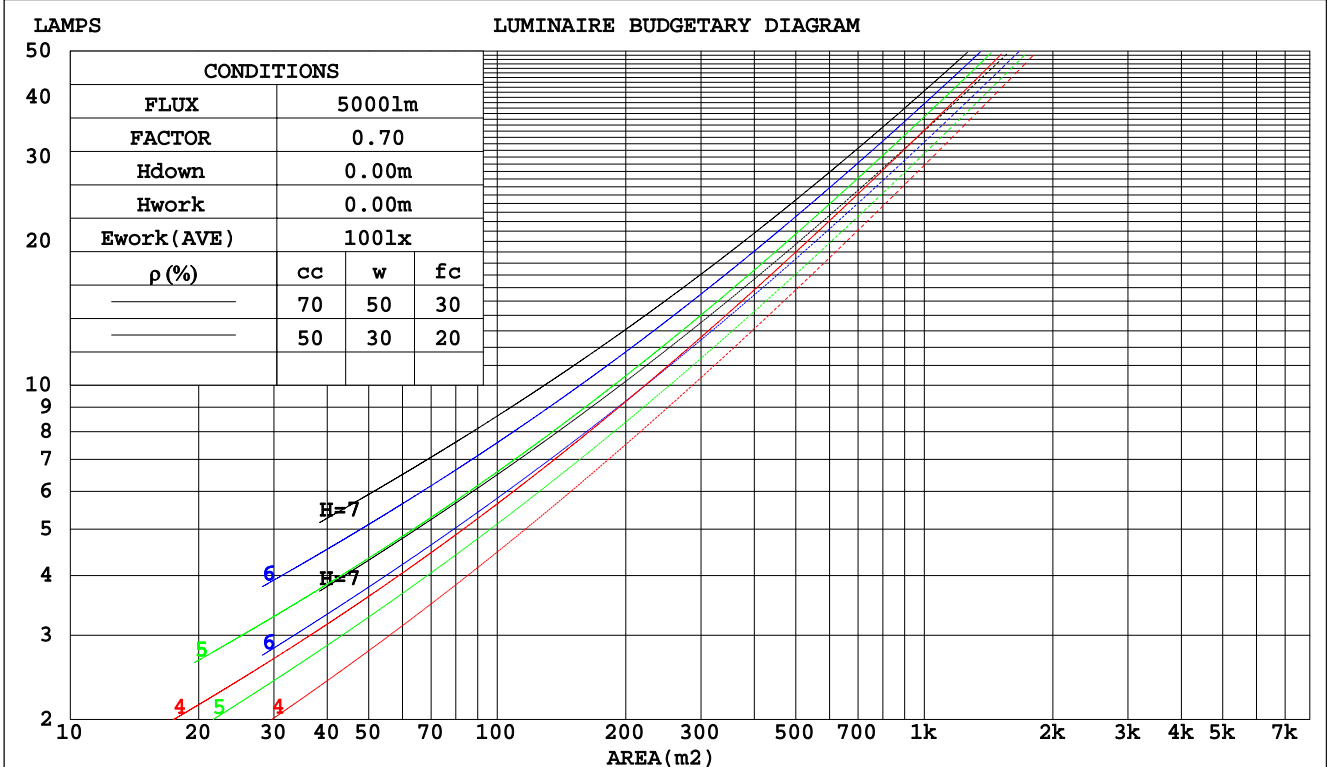
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:12720.8x1 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	.92	.98	.94	.90	.93	.89	.86	.89	.86	.83	.84	.82	.80	.77
2.0	.86	.79	.72	.84	.77	.71	.80	.74	.69	.76	.71	.67	.72	.68	.65	.62
3.0	.74	.65	.58	.73	.64	.57	.69	.62	.56	.66	.60	.54	.62	.57	.53	.50
4.0	.65	.55	.48	.63	.54	.47	.60	.52	.46	.57	.51	.45	.55	.49	.44	.42
5.0	.57	.48	.40	.56	.47	.40	.53	.45	.39	.51	.44	.38	.49	.42	.38	.35
6.0	.51	.41	.34	.50	.41	.34	.48	.39	.33	.45	.38	.33	.43	.37	.32	.30
7.0	.46	.36	.30	.45	.36	.30	.43	.35	.29	.41	.34	.29	.39	.33	.28	.26
8.0	.41	.32	.26	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.23
9.0	.38	.29	.23	.37	.29	.23	.35	.28	.23	.34	.27	.22	.33	.27	.22	.20
10.0	.35	.26	.21	.34	.26	.21	.33	.25	.20	.31	.25	.20	.30	.24	.20	.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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:12720.8x1 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	.351	.200	.063	.343	.196	.062	.327	.188	.060	.313	.181	.058	.300	.174	.056	
2.0	.324	.177	.054	.316	.174	.054	.302	.168	.052	.289	.162	.051	.277	.157	.049	
3.0	.296	.157	.047	.289	.155	.047	.277	.150	.046	.265	.145	.045	.254	.141	.044	
4.0	.270	.141	.041	.264	.138	.041	.253	.134	.040	.243	.130	.039	.233	.127	.039	
5.0	.248	.126	.037	.243	.125	.036	.233	.121	.036	.223	.118	.035	.215	.115	.034	
6.0	.228	.115	.033	.224	.113	.033	.215	.110	.032	.206	.107	.032	.198	.104	.031	
7.0	.211	.104	.030	.207	.103	.029	.199	.101	.029	.191	.098	.029	.184	.096	.028	
8.0	.196	.096	.027	.192	.095	.027	.185	.093	.026	.178	.090	.026	.172	.088	.026	
9.0	.183	.089	.025	.180	.088	.025	.173	.086	.024	.167	.084	.024	.161	.082	.024	
10.0	.171	.082	.023	.168	.081	.023	.162	.080	.022	.157	.078	.022	.151	.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	.160	.181	.158	.138	.124	.109	.095	.071	.063	.055	.023	.020	.018	
2.0	.205	.161	.123	.176	.138	.106	.121	.096	.074	.070	.056	.043	.022	.018	.014	
3.0	.199	.144	.100	.170	.124	.086	.117	.086	.061	.067	.050	.036	.022	.016	.012	
4.0	.191	.131	.084	.164	.113	.073	.113	.079	.052	.065	.046	.031	.021	.015	.010	
5.0	.184	.121	.074	.158	.104	.064	.109	.073	.045	.063	.043	.027	.020	.014	.009	
6.0	.177	.112	.066	.152	.097	.058	.105	.068	.041	.061	.040	.024	.020	.013	.008	
7.0	.170	.106	.061	.146	.092	.053	.101	.064	.038	.059	.038	.022	.019	.012	.007	
8.0	.163	.100	.057	.140	.087	.050	.097	.061	.035	.056	.036	.021	.018	.012	.007	
9.0	.156	.095	.054	.135	.083	.047	.093	.058	.033	.054	.034	.020	.018	.011	.007	
10.0	.150	.091	.051	.130	.079	.045	.090	.056	.032	.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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0%						Lamp Flux:12720.8x1 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	27.4	29.1	27.8	29.5	29.9	26.9	28.6	27.3	29.0	29.4
3H	29.1	30.6	29.5	31.0	31.5	29.0	30.5	29.4	30.9	31.4
4H	29.4	30.9	29.9	31.3	31.8	29.4	30.8	29.8	31.2	31.7
6H	29.7	31.1	30.2	31.5	32.0	29.7	31.0	30.1	31.5	31.9
8H	29.9	31.2	30.4	31.7	32.2	29.8	31.1	30.3	31.6	32.1
12H	30.1	31.4	30.6	31.8	32.3	30.0	31.3	30.5	31.7	32.3
4H 2H	28.1	29.6	28.6	30.0	30.5	27.8	29.2	28.2	29.7	30.1
3H	30.3	31.5	30.8	32.0	32.5	30.3	31.5	30.7	32.0	32.5
4H	30.7	31.9	31.2	32.3	32.9	30.8	31.9	31.3	32.4	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	31.6	32.5	32.2	33.0	33.6	31.7	32.5	32.2	33.0	33.6
8H 4H	31.3	32.2	31.8	32.7	33.2	31.3	32.2	31.8	32.7	33.3
6H	31.8	32.6	32.4	33.2	33.7	31.9	32.7	32.4	33.2	33.8
8H	32.1	32.8	32.7	33.4	34.0	32.2	32.9	32.7	33.5	34.0
12H	32.5	33.2	33.1	33.7	34.4	32.6	33.2	33.1	33.8	34.4
12H 4H	31.3	32.2	31.8	32.7	33.2	31.4	32.2	31.9	32.7	33.3
6H	31.9	32.6	32.5	33.2	33.8	32.0	32.7	32.6	33.2	33.8
8H	32.3	33.0	32.9	33.5	34.2	32.4	33.0	33.0	33.6	34.2
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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:12720.8x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

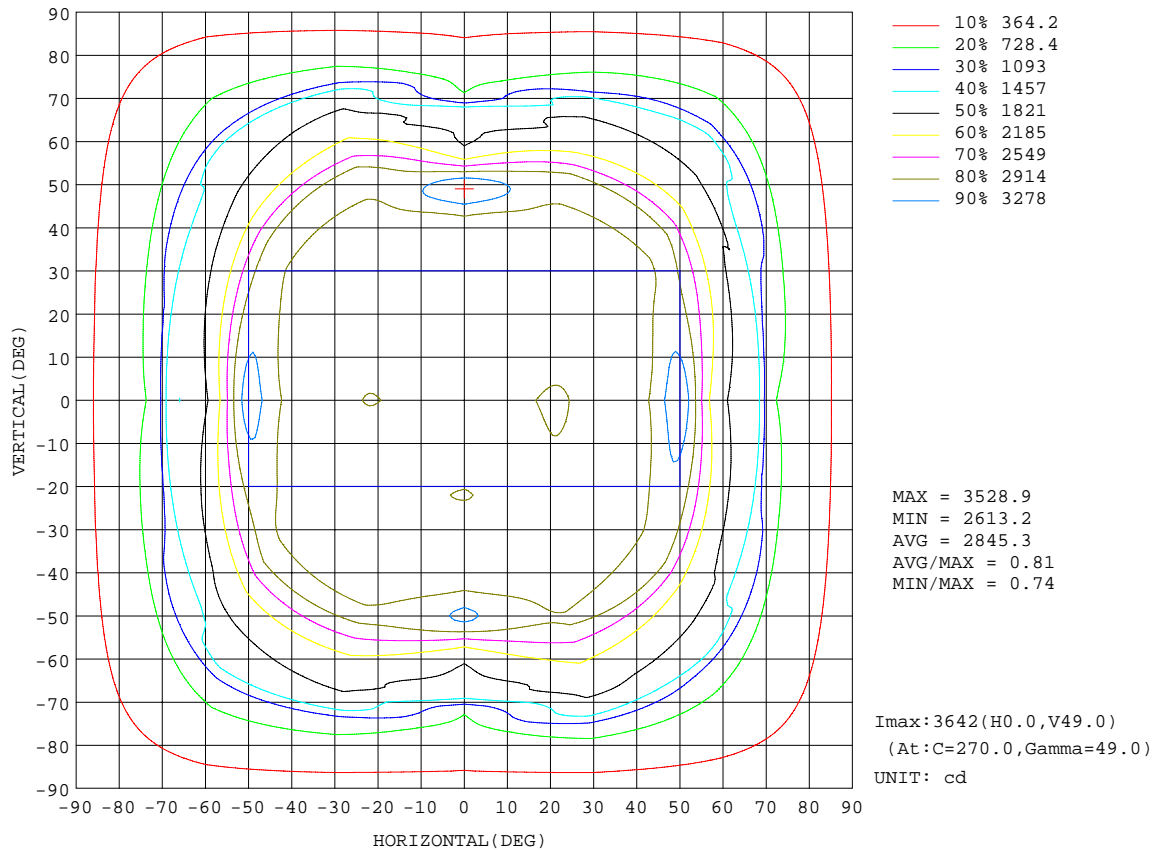
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	47	39	57	46	38	30
1.00	69	57	48	68	56	48	65	57	47	39
1.25	77	65	57	75	64	56	72	62	55	47
1.50	82	71	63	80	70	62	77	68	61	52
2.00	90	80	72	88	79	72	84	76	70	61
2.50	94	85	78	92	84	77	88	81	75	65
3.00	98	90	84	96	88	82	91	85	80	70
4.00	103	96	91	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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12720.8x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



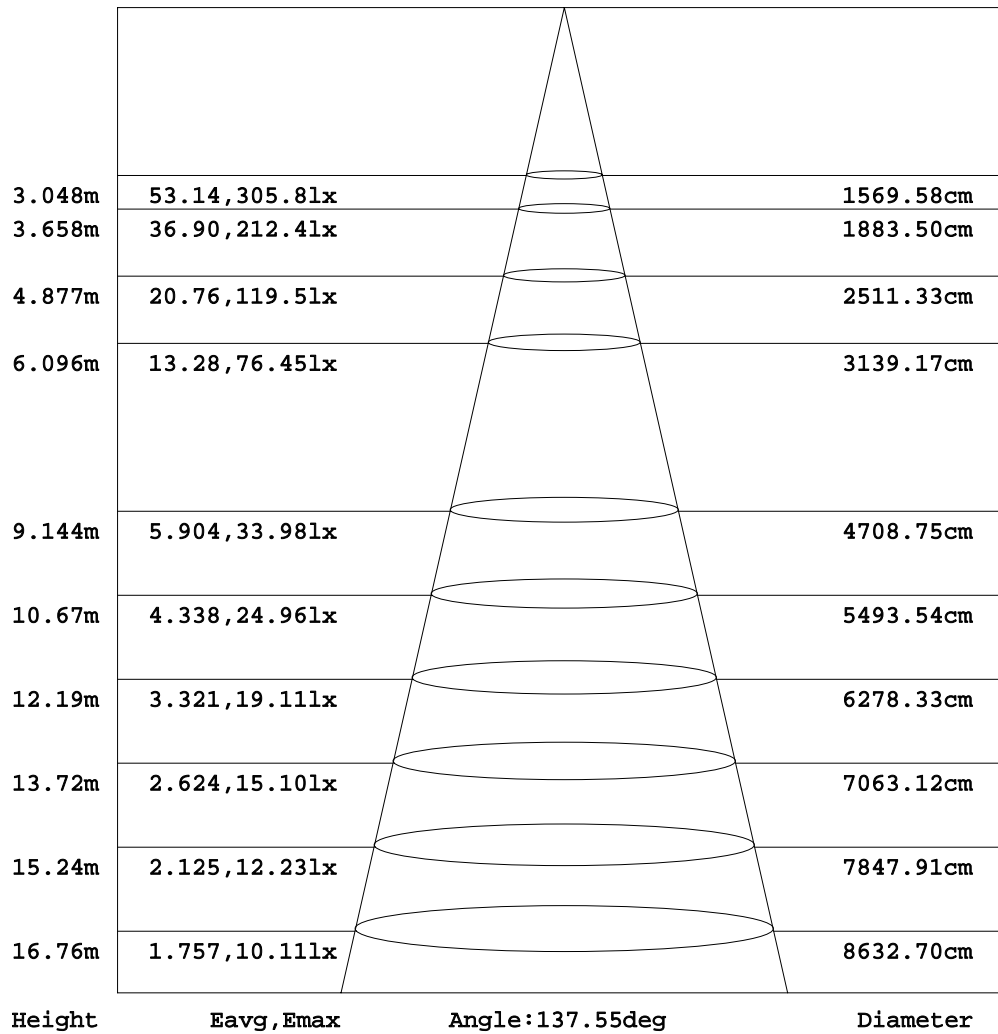
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12720.8x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:10525 lm



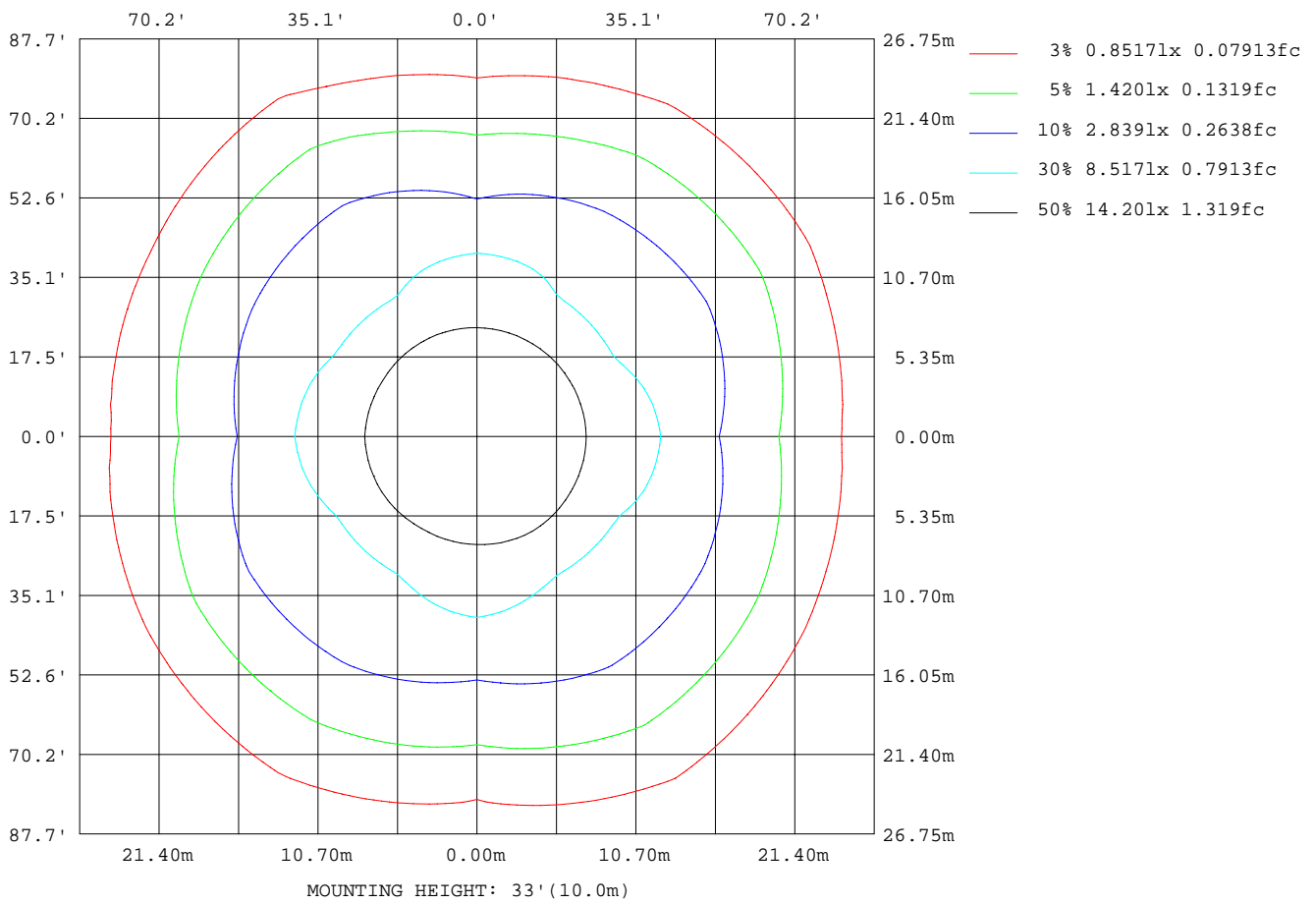
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12720.8x1 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:120.24V I:0.8346A P:100.08W PF:0.9973 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:12720.8x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

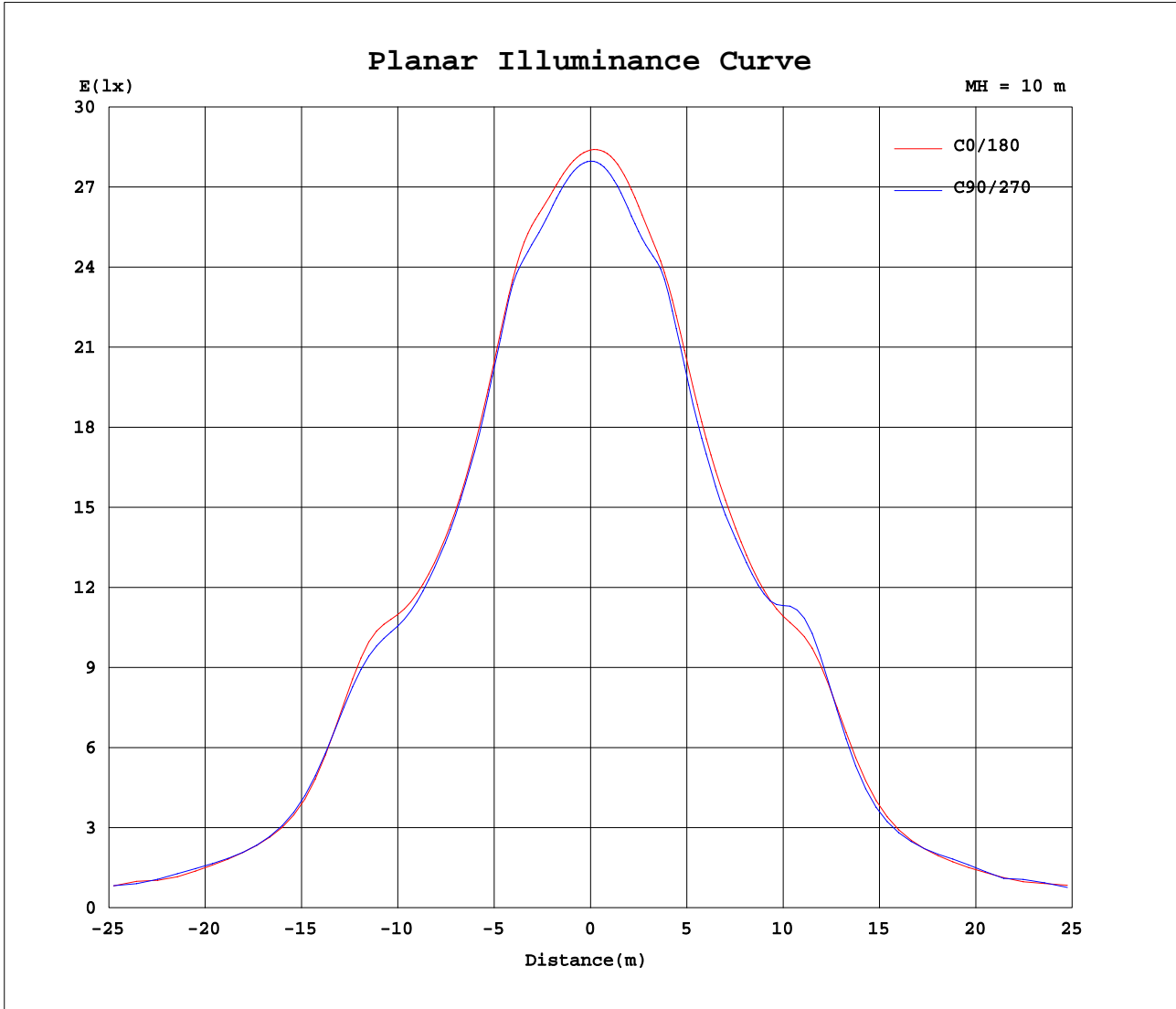
AvgL	cd/m2
L_0~180(65)av	50901
L_0~180(75)av	35181
L_0~180(85)av	61257
L_90~270(65)av	53498
L_90~270(75)av	33461
L_90~270(85)av	59889
L_45(65)av	70895
L_45(75)av	72691
L_45(85)av	74534

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: