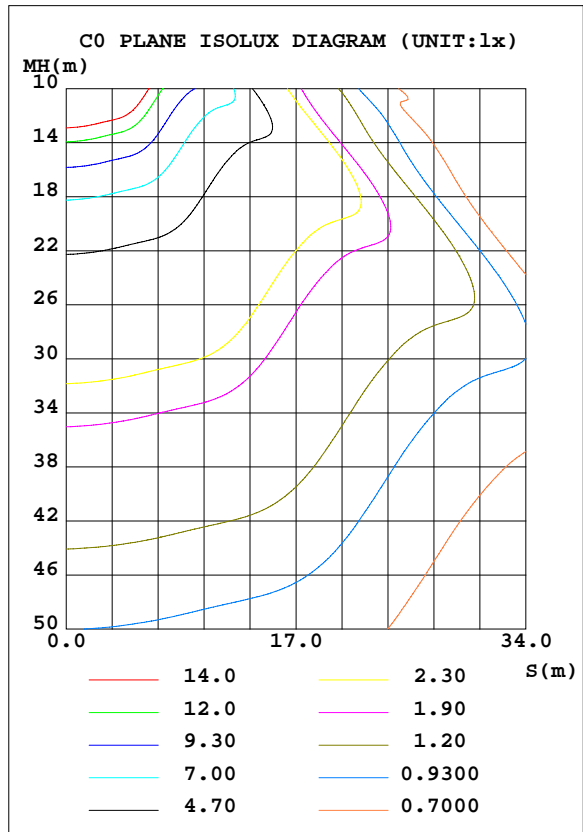
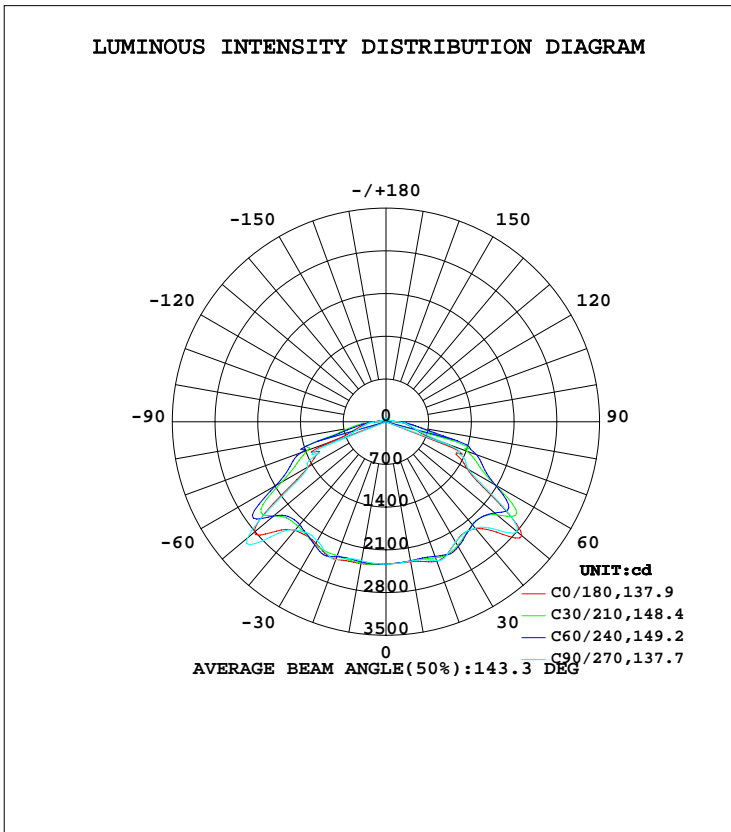


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10568.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.00 lm/W			
MODEL	TS-GCP1110-100W-TCP	I _{max} (cd)	3030	S/MH(C0/180)	1.51
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10568	η UP, DN(C0-180)	2.0,48.4
NOMINAL FLUX(lm)	10568.4	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:

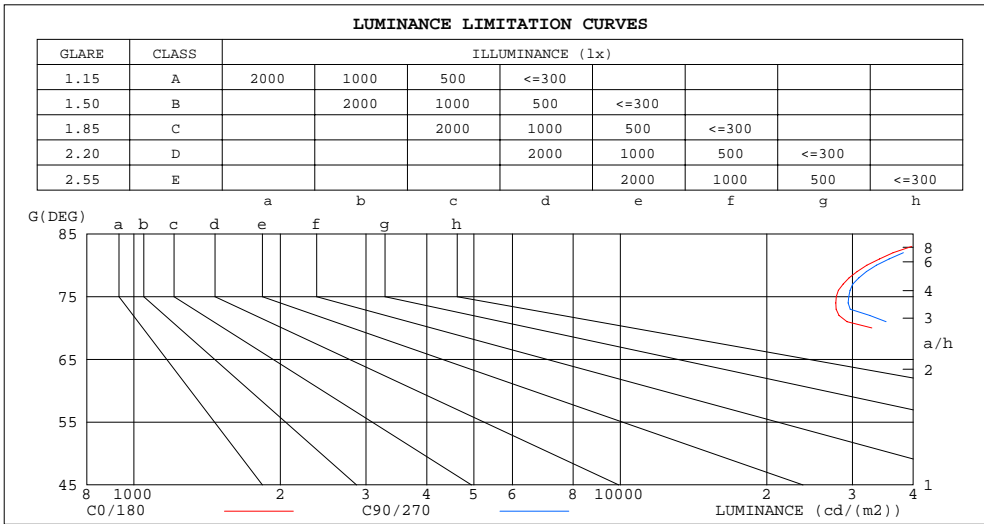
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φlum,lamp
10	2329	2316	2320	2343	2359	2343	2313	2312	0- 10	222.5	222.5	2.11,2.11
20	2431	2360	2418	2366	2399	2345	2407	2340	10- 20	664.0	886.5	8.39,8.39
30	2281	2356	2276	2351	2299	2328	2255	2324	20- 30	1096	1983	18.8,18.8
40	2289	2205	2278	2223	2323	2221	2314	2195	30- 40	1422	3405	32.2,32.2
50	2904	2351	2802	2359	2818	2401	2962	2380	40- 50	1830	5235	49.5,49.5
60	1536	2064	1561	2051	1457	2025	1482	2032	50- 60	2081	7316	69.2,69.2
70	787.7	1495	1078	1486	969.2	1422	681.9	1428	60- 70	1563	8878	84,84
80	390.6	576.1	408.7	601.6	413.0	577.4	364.1	561.2	70- 80	923.0	9801	92.7,92.7
90	167.3	173.7	178.9	181.0	175.1	166.7	159.7	159.9	80- 90	373.2	10175	96.3,96.3
100	93.39	88.69	100.4	91.13	94.86	78.35	84.25	75.84	90-100	133.5	10308	97.5,97.5
110	63.58	61.54	64.94	61.82	58.28	48.25	53.52	47.92	100-110	73.82	10382	98.2,98.2
120	55.84	51.84	56.41	51.92	40.76	35.82	40.07	35.99	110-120	50.35	10432	98.7,98.7
130	46.80	47.65	46.30	46.05	38.48	35.25	36.05	35.80	120-130	38.06	10470	99.1,99.1
140	46.51	46.83	43.59	45.29	37.40	37.85	37.35	38.63	130-140	32.10	10502	99.4,99.4
150	44.50	47.49	44.65	46.69	41.18	41.69	41.14	41.75	140-150	26.78	10529	99.6,99.6
160	45.91	49.51	47.21	48.72	45.53	45.64	44.88	45.51	150-160	21.00	10550	99.8,99.8
170	47.74	49.65	48.14	48.79	47.71	48.13	47.72	47.82	160-170	13.52	10564	100,100
180	48.20	48.78	48.23	48.90	48.20	48.77	48.19	48.88	170-180	4.625	10568	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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10568.4x1 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	50166	53169
80	32127	33610
75	27802	29476
70	32896	44993
65	42871	47700
60	43885	44577
55	52580	54534
50	64518	62255
45	51674	50129

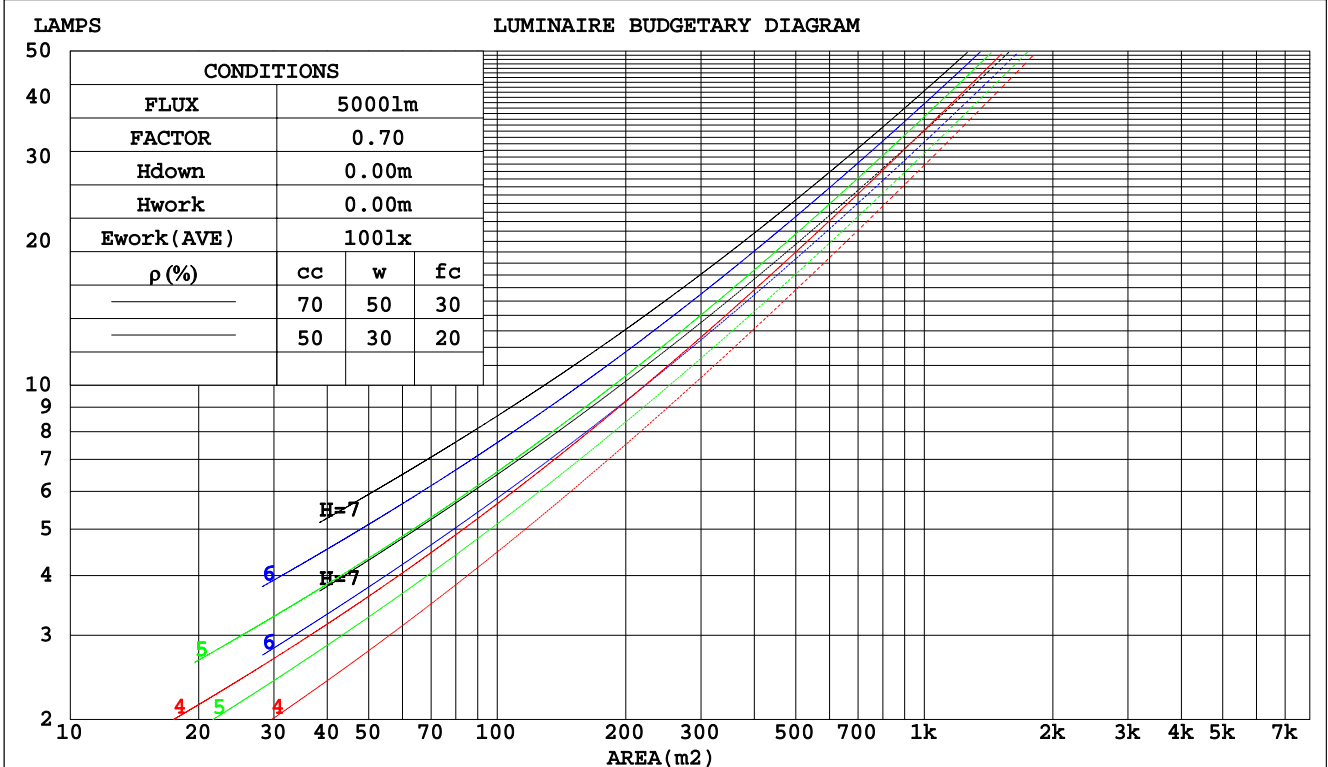
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10568.4x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

ρcc	80%			70%			50%			30%			10%			0		
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0		
ρw	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	1.09	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	.59	.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	.48	.42	.37	.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	.25	.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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10568.4x1 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	.352	.200	.063	.343	.196	.062	.328	.188	.060	.313	.181	.058	.300	.174	.056	
2.0	.324	.177	.054	.316	.174	.054	.302	.168	.052	.290	.162	.051	.278	.157	.050	
3.0	.296	.157	.047	.289	.155	.047	.277	.150	.046	.265	.145	.045	.254	.141	.044	
4.0	.270	.141	.041	.265	.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	.193	.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	.137	.124	.109	.095	.071	.063	.055	.023	.020	.018	
2.0	.205	.161	.123	.176	.138	.106	.121	.096	.074	.069	.056	.043	.022	.018	.014	
3.0	.198	.143	.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	.030	.021	.015	.010	
5.0	.184	.120	.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	.049	.097	.061	.035	.056	.036	.021	.018	.012	.007	
9.0	.156	.095	.054	.135	.082	.047	.093	.058	.033	.054	.034	.020	.018	.011	.007	
10.0	.150	.091	.051	.130	.079	.045	.090	.055	.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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%						Lamp Flux:10568.4x1 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	26.9	28.6	27.3	29.0	29.4	26.4	28.1	26.8	28.5	28.9
3H	28.6	30.1	29.0	30.5	31.0	28.5	30.0	28.9	30.4	30.9
4H	29.0	30.5	29.5	30.9	31.3	28.9	30.3	29.3	30.7	31.2
6H	29.3	30.7	29.8	31.1	31.6	29.2	30.5	29.6	31.0	31.4
8H	29.5	30.8	29.9	31.2	31.7	29.3	30.6	29.8	31.1	31.6
12H	29.7	30.9	30.1	31.4	31.9	29.6	30.8	30.0	31.3	31.8
4H 2H	27.6	29.1	28.1	29.5	30.0	27.2	28.7	27.7	29.1	29.6
3H	29.7	30.9	30.2	31.4	31.9	29.8	31.0	30.2	31.5	31.9
4H	30.3	31.4	30.7	31.9	32.4	30.4	31.5	30.9	32.0	32.5
6H	30.7	31.7	31.2	32.2	32.7	30.8	31.8	31.3	32.3	32.8
8H	30.9	31.8	31.4	32.3	32.9	31.0	31.9	31.5	32.4	33.0
12H	31.2	32.0	31.7	32.5	33.1	31.3	32.1	31.8	32.6	33.2
8H 4H	30.8	31.7	31.3	32.2	32.8	30.9	31.8	31.4	32.3	32.9
6H	31.4	32.1	31.9	32.7	33.2	31.5	32.2	32.0	32.8	33.3
8H	31.7	32.4	32.2	32.9	33.5	31.8	32.5	32.3	33.0	33.6
12H	32.1	32.7	32.6	33.2	33.9	32.2	32.8	32.7	33.3	34.0
12H 4H	30.8	31.7	31.4	32.2	32.7	30.9	31.8	31.5	32.3	32.9
6H	31.5	32.2	32.0	32.7	33.3	31.6	32.3	32.1	32.8	33.4
8H	31.9	32.5	32.4	33.0	33.7	32.0	32.6	32.5	33.1	33.8
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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10568.4x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

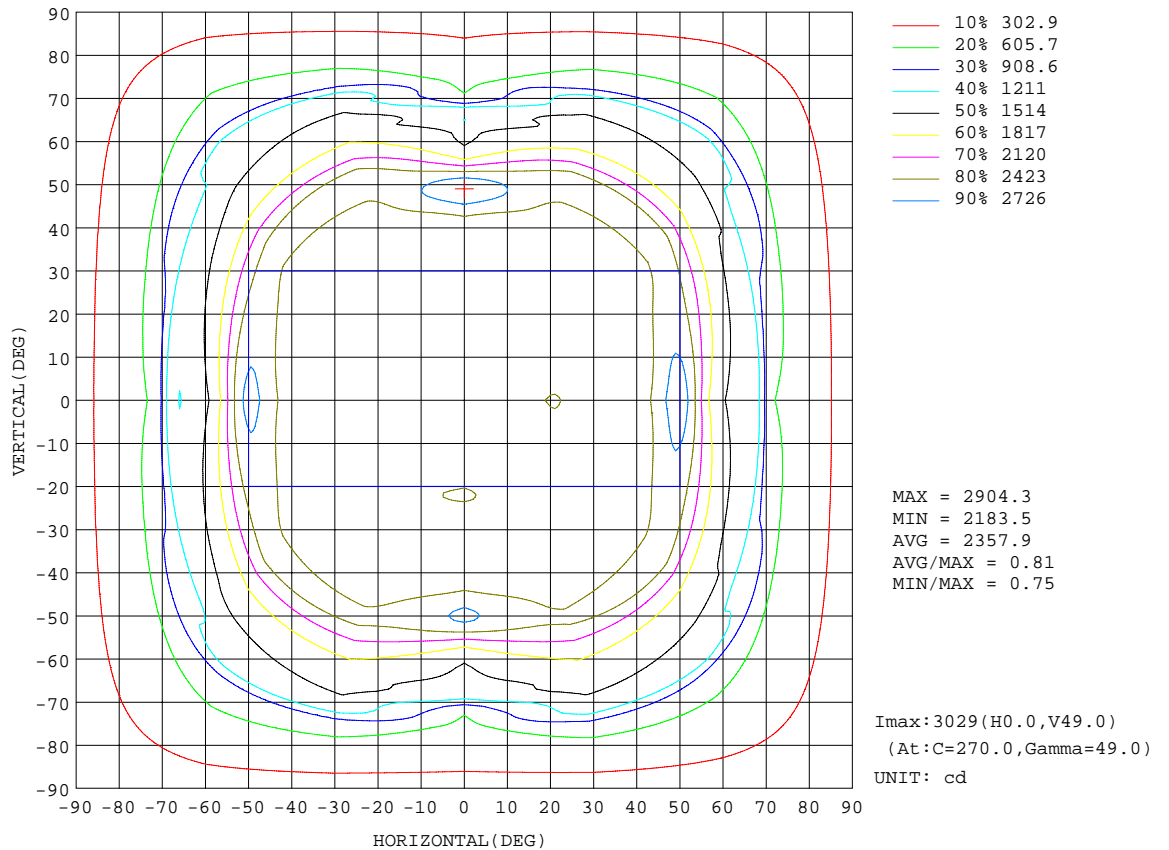
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	47	39	57	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	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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10568.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



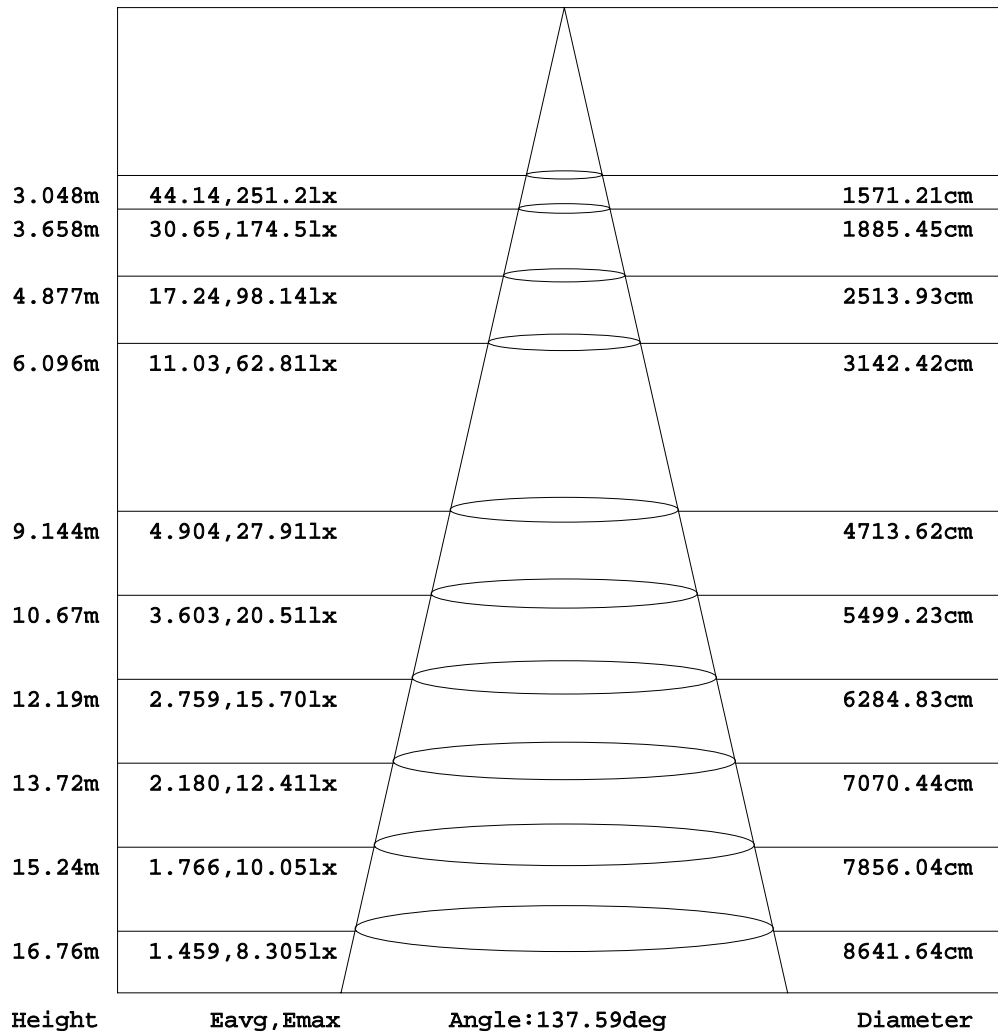
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10568.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:8743 lm



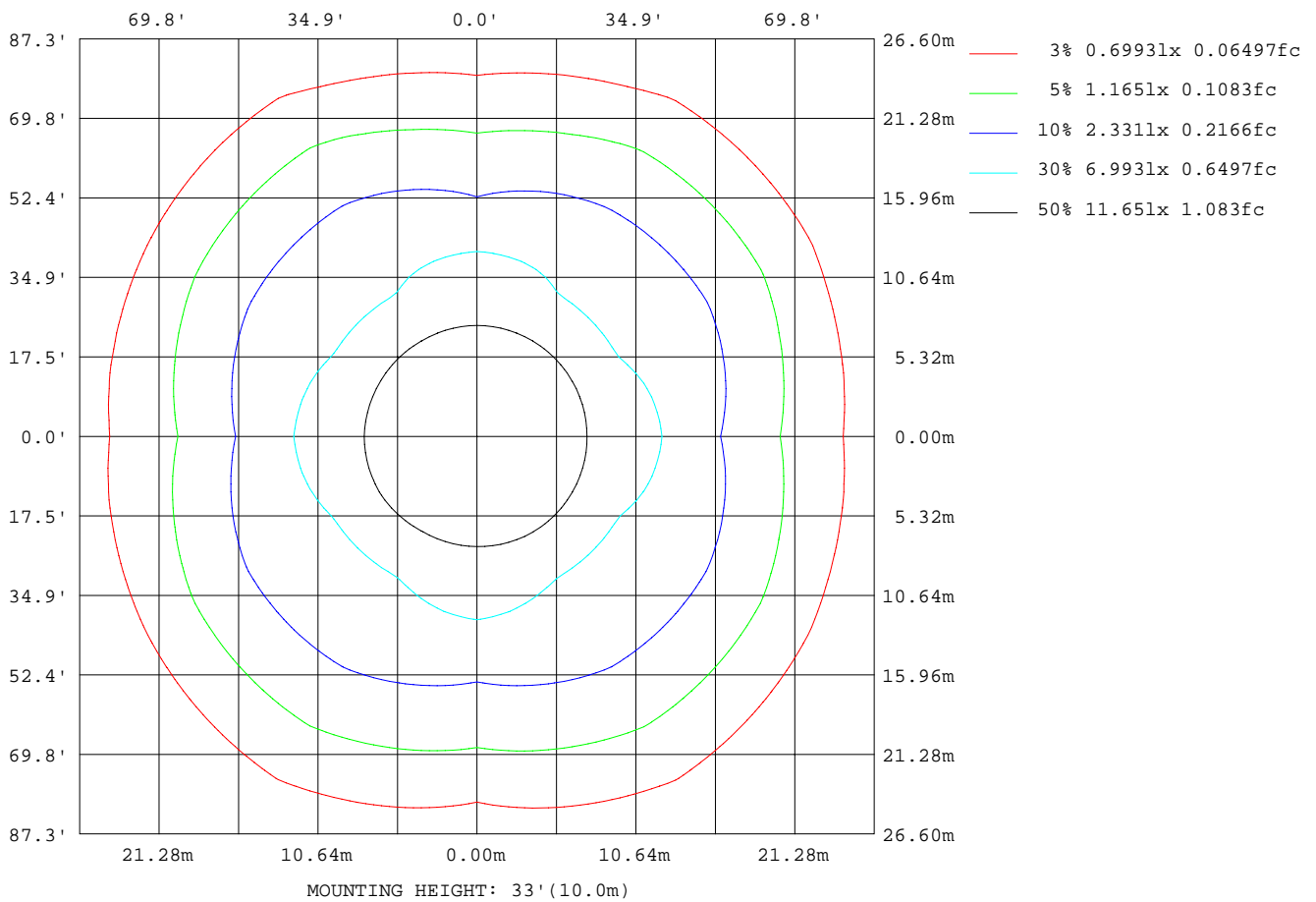
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10568.4x1 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:120.28V I:0.6787A P:81.295W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10568.4x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

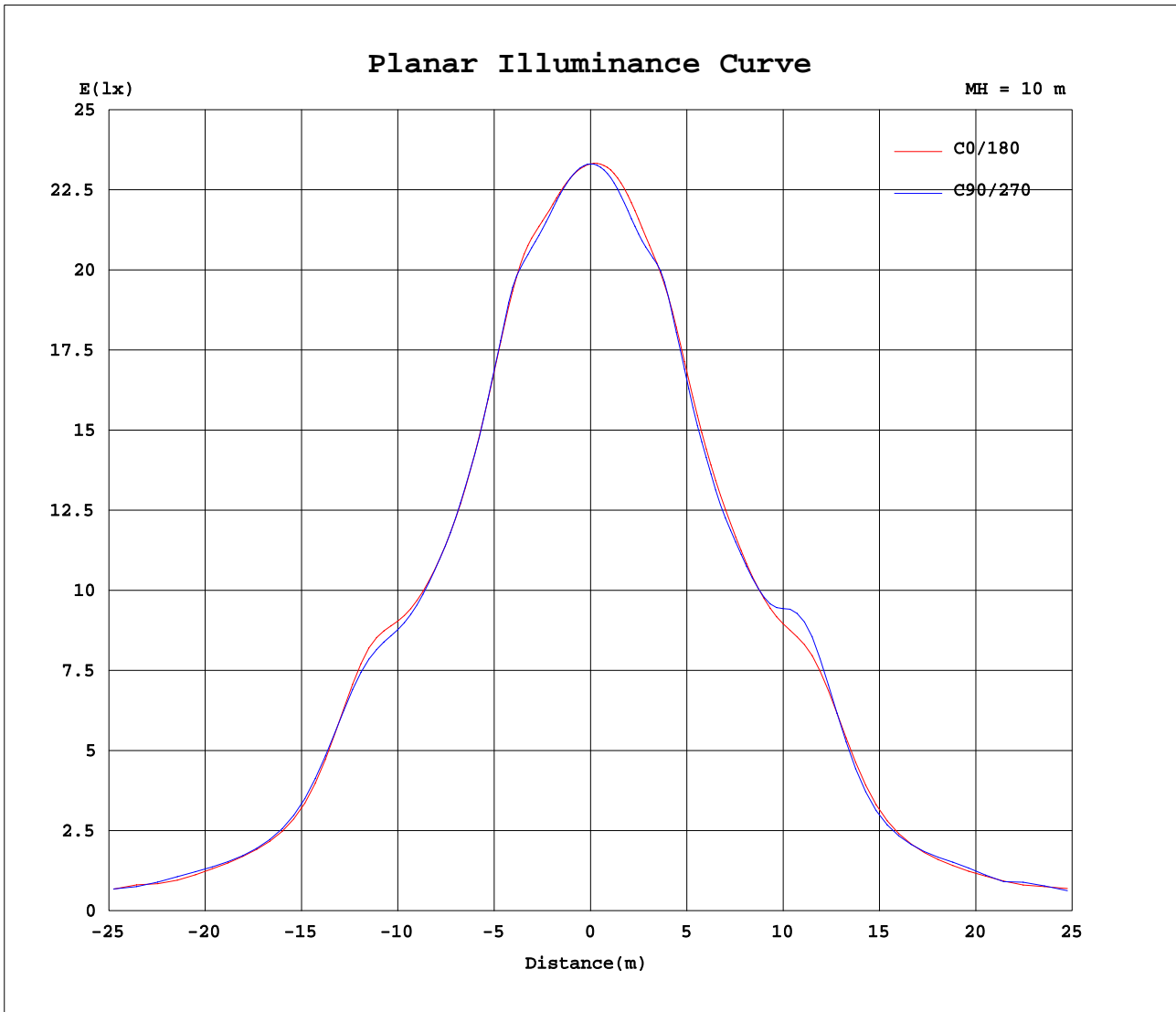
AvgL	cd/m2
L_0~180(65)av	42232
L_0~180(75)av	28993
L_0~180(85)av	51379
L_90~270(65)av	44254
L_90~270(75)av	27746
L_90~270(85)av	50119
L_45(65)av	58917
L_45(75)av	59647
L_45(85)av	61502

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: