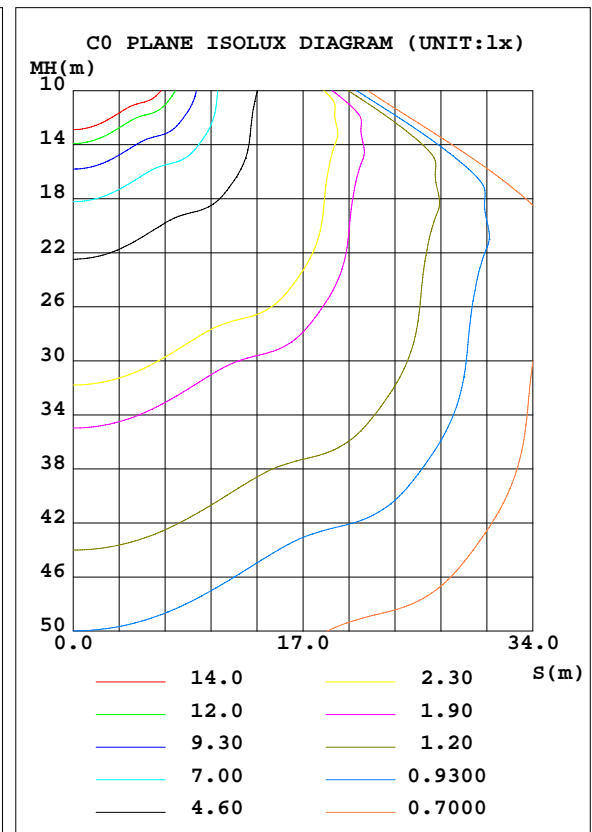
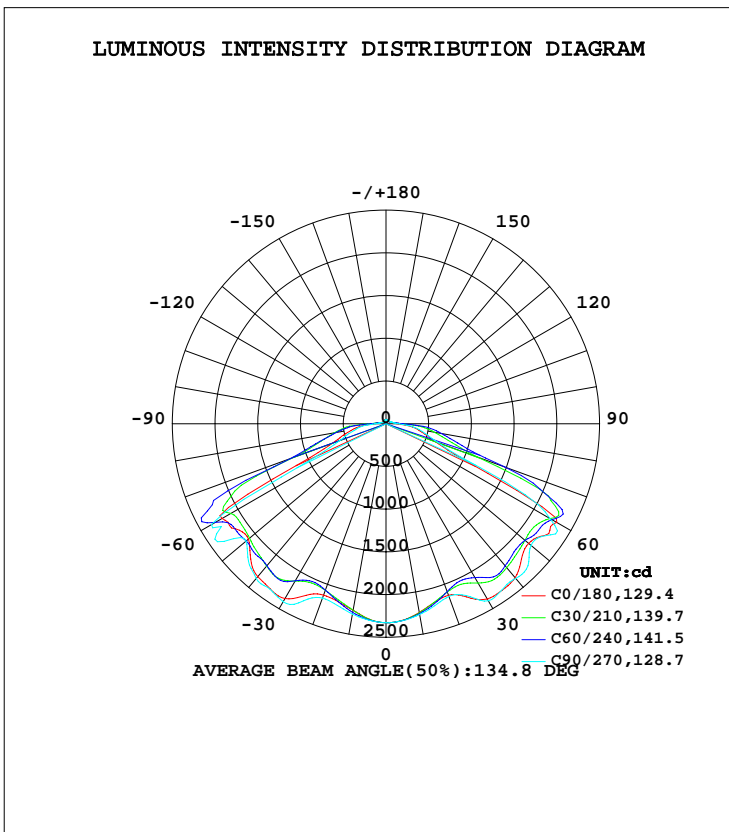


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.28V I:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10151.6x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.56 lm/W			
MODEL	TS-GCP1110-100W-TCP	Imax(cd)	2441	S/MH(C0/180)	1.55
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.56
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10152	$\eta$ UP, DN(C0-180)	2.0,48.5
NOMINAL FLUX(lm)	10151.6	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	1.7,47.9
LAMPS INSIDE	1	$\eta$ up(%)	3.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	$\eta$ down(%)	96.3	CIBSE SHR MAX	1.55



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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:

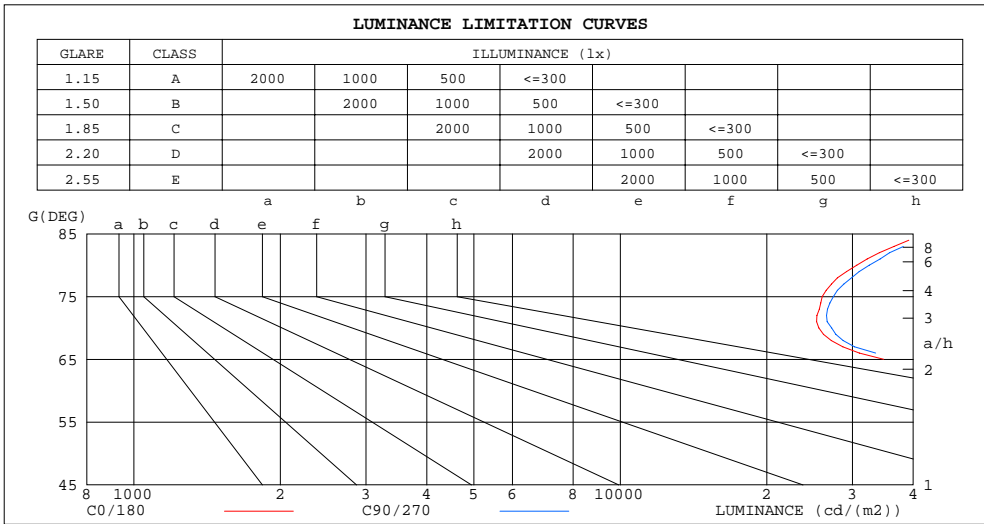
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	2244	2254	2267	2236	2217	2230	2261	2250	0- 10	218.1	218.1	2.15,2.15
20	2137	2094	2152	2082	2135	2074	2172	2088	10- 20	613.2	831.3	8.19,8.19
30	2368	2116	2394	2105	2363	2124	2405	2131	20- 30	987.4	1819	17.9,17.9
40	2351	2184	2363	2183	2335	2171	2364	2160	30- 40	1411	3229	31.8,31.8
50	2180	2123	2215	2134	2102	2110	2138	2111	40- 50	1690	4919	48.5,48.5
60	2309	2233	2213	2192	2217	2204	2359	2256	50- 60	1949	6868	67.7,67.7
70	614.4	1304	650.4	1336	668.1	1164	574.2	1144	60- 70	1751	8619	84.9,84.9
80	373.3	617.6	394.7	633.8	399.6	602.4	351.5	602.6	70- 80	757.9	9377	92.4,92.4
90	129.6	195.4	139.3	202.2	130.6	194.2	118.4	182.4	80- 90	403.6	9781	96.3,96.3
100	79.64	83.39	83.24	85.88	74.03	71.63	69.56	68.85	90-100	123.3	9904	97.6,97.6
110	63.09	61.20	64.40	62.29	51.42	45.75	49.29	45.62	100-110	67.87	9972	98.2,98.2
120	51.35	48.74	51.88	48.70	38.43	34.42	37.78	34.65	110-120	48.67	10021	98.7,98.7
130	44.50	45.93	44.14	44.58	37.11	34.04	35.54	34.50	120-130	36.14	10057	99.1,99.1
140	45.74	45.11	43.35	43.79	36.22	36.55	36.14	37.12	130-140	31.05	10088	99.4,99.4
150	42.73	45.69	42.62	45.01	39.62	40.40	39.53	40.25	140-150	25.89	10114	99.6,99.6
160	44.07	47.73	45.41	47.03	43.85	44.02	43.30	43.82	150-160	20.22	10134	99.8,99.8
170	45.85	47.56	46.20	46.74	45.37	45.89	45.57	45.60	160-170	13.00	10147	100,100
180	46.01	46.28	46.04	46.46	45.93	46.28	46.06	46.43	170-180	4.409	10152	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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10151.6x1 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	42506	44546
80	30630	32497
75	25991	27410
70	25594	27191
65	34776	40993
60	65789	63271
55	56555	56940
50	48323	49279
45	45188	47523

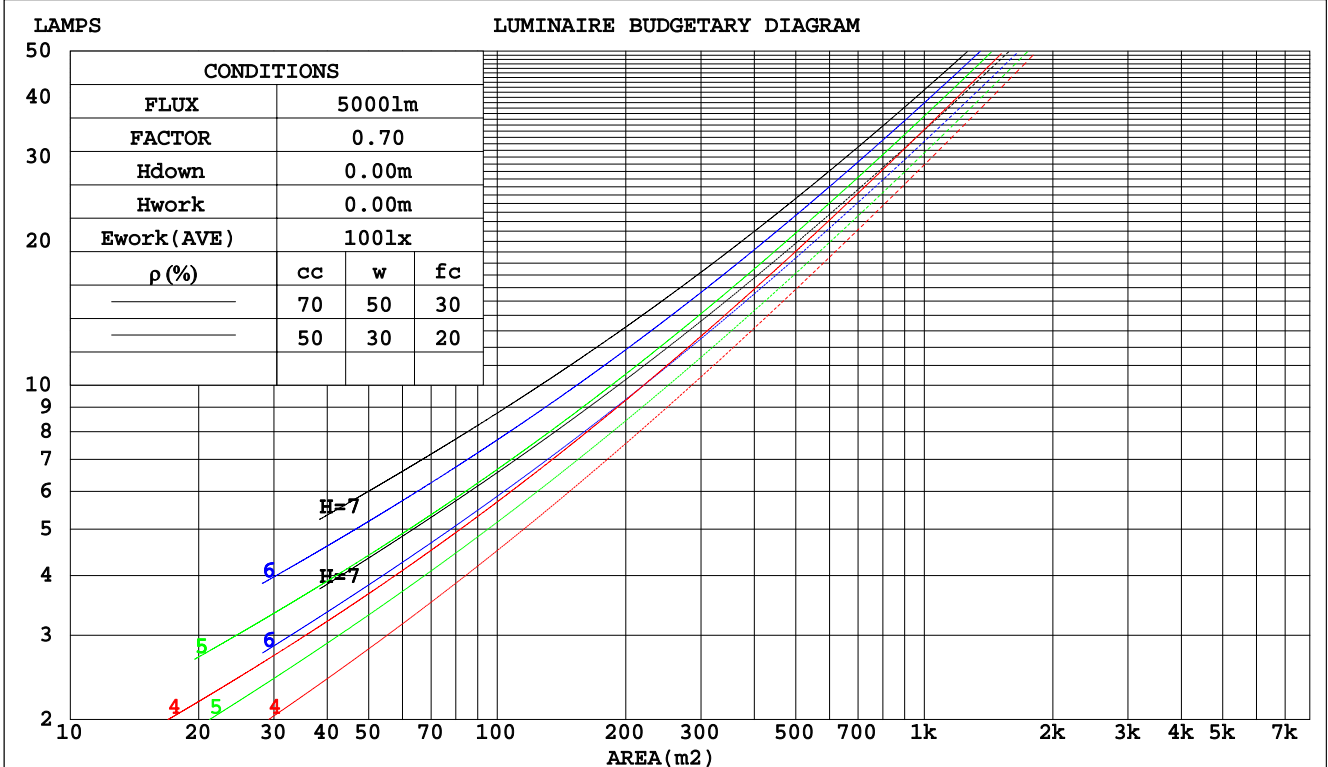
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2024-06-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10151.6x1 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	.93	.89	.93	.89	.86	.88	.85	.83	.84	.82	.79	.77
2.0	.86	.78	.72	.84	.77	.71	.79	.74	.68	.76	.71	.66	.72	.68	.64	.62
3.0	.74	.65	.58	.72	.64	.57	.69	.61	.55	.65	.59	.54	.62	.57	.53	.50
4.0	.65	.55	.47	.63	.54	.47	.60	.52	.46	.57	.50	.45	.54	.49	.44	.41
5.0	.57	.47	.40	.55	.46	.39	.53	.45	.39	.50	.43	.38	.48	.42	.37	.35
6.0	.51	.41	.34	.49	.40	.34	.47	.39	.33	.45	.38	.32	.43	.37	.32	.29
7.0	.45	.36	.29	.44	.35	.29	.42	.34	.29	.41	.33	.28	.39	.32	.28	.25
8.0	.41	.32	.26	.40	.31	.25	.38	.31	.25	.37	.30	.25	.35	.29	.24	.22
9.0	.37	.29	.23	.37	.28	.23	.35	.27	.22	.34	.27	.22	.32	.26	.22	.20
10.0	.34	.26	.20	.34	.26	.20	.32	.25	.20	.31	.24	.20	.30	.24	.19	.17



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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10151.6x1 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	.355	.202	.064	.347	.198	.063	.331	.190	.061	.317	.183	.059	.304	.176	.057	
2.0	.326	.179	.055	.319	.176	.054	.305	.170	.053	.292	.164	.051	.280	.158	.050	
3.0	.298	.159	.048	.291	.156	.047	.279	.151	.046	.267	.147	.045	.257	.142	.044	
4.0	.272	.142	.042	.267	.139	.041	.255	.135	.040	.245	.132	.040	.235	.128	.039	
5.0	.250	.127	.037	.244	.126	.037	.234	.122	.036	.225	.119	.035	.216	.116	.035	
6.0	.230	.115	.033	.225	.114	.033	.216	.111	.032	.208	.108	.032	.200	.105	.031	
7.0	.213	.105	.030	.208	.104	.030	.200	.101	.029	.193	.099	.029	.186	.096	.028	
8.0	.197	.096	.027	.194	.095	.027	.186	.093	.027	.179	.091	.026	.173	.089	.026	
9.0	.184	.089	.025	.181	.088	.025	.174	.086	.024	.168	.084	.024	.162	.082	.024	
10.0	.172	.083	.023	.169	.082	.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	.218	.218	.218	.187	.187	.187	.127	.127	.127	.073	.073	.073	.023	.023	.023	
1.0	.211	.184	.159	.181	.158	.137	.124	.109	.095	.071	.063	.055	.023	.020	.018	
2.0	.205	.160	.122	.176	.138	.106	.120	.095	.074	.069	.055	.043	.022	.018	.014	
3.0	.198	.143	.099	.170	.123	.086	.117	.086	.060	.067	.050	.035	.022	.016	.012	
4.0	.191	.130	.083	.164	.112	.072	.113	.078	.051	.065	.046	.030	.021	.015	.010	
5.0	.184	.120	.073	.158	.104	.063	.109	.073	.045	.063	.043	.027	.020	.014	.009	
6.0	.176	.112	.065	.152	.097	.057	.105	.068	.040	.061	.040	.024	.020	.013	.008	
7.0	.169	.105	.060	.146	.091	.052	.101	.064	.037	.058	.038	.022	.019	.012	.007	
8.0	.163	.099	.056	.140	.086	.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	.006	
10.0	.150	.090	.050	.129	.078	.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:120.28V I:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%						Lamp Flux:10151.6x1 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	27.2	28.9	27.6	29.3	29.7
3H	28.1	29.6	28.5	30.0	30.5	28.2	29.7	28.6	30.1	30.6
4H	28.4	29.9	28.9	30.3	30.8	28.5	29.9	28.9	30.3	30.8
6H	28.8	30.1	29.2	30.5	31.0	28.8	30.1	29.3	30.6	31.1
8H	28.9	30.2	29.4	30.7	31.2	29.0	30.3	29.4	30.7	31.2
12H	29.1	30.4	29.6	30.8	31.4	29.2	30.4	29.6	30.9	31.4
4H 2H	28.2	29.7	28.6	30.1	30.5	28.4	29.8	28.8	30.2	30.7
3H	29.4	30.7	29.9	31.1	31.6	29.5	30.7	29.9	31.2	31.7
4H	29.8	31.0	30.3	31.5	32.0	29.9	31.0	30.4	31.5	32.0
6H	30.3	31.3	30.8	31.8	32.3	30.3	31.3	30.8	31.8	32.4
8H	30.6	31.5	31.1	32.0	32.5	30.6	31.5	31.1	32.0	32.6
12H	30.8	31.7	31.4	32.2	32.8	30.8	31.7	31.4	32.2	32.8
8H 4H	30.2	31.2	30.8	31.7	32.2	30.3	31.2	30.8	31.7	32.3
6H	30.9	31.7	31.5	32.3	32.8	31.0	31.8	31.5	32.3	32.9
8H	31.3	32.0	31.9	32.6	33.2	31.4	32.1	31.9	32.6	33.2
12H	31.8	32.4	32.3	32.9	33.6	31.8	32.4	32.3	33.0	33.6
12H 4H	30.3	31.2	30.9	31.7	32.3	30.4	31.2	30.9	31.7	32.3
6H	31.1	31.8	31.7	32.3	33.0	31.2	31.9	31.7	32.4	33.0
8H	31.6	32.2	32.2	32.8	33.4	31.7	32.3	32.2	32.8	33.5
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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:10151.6x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

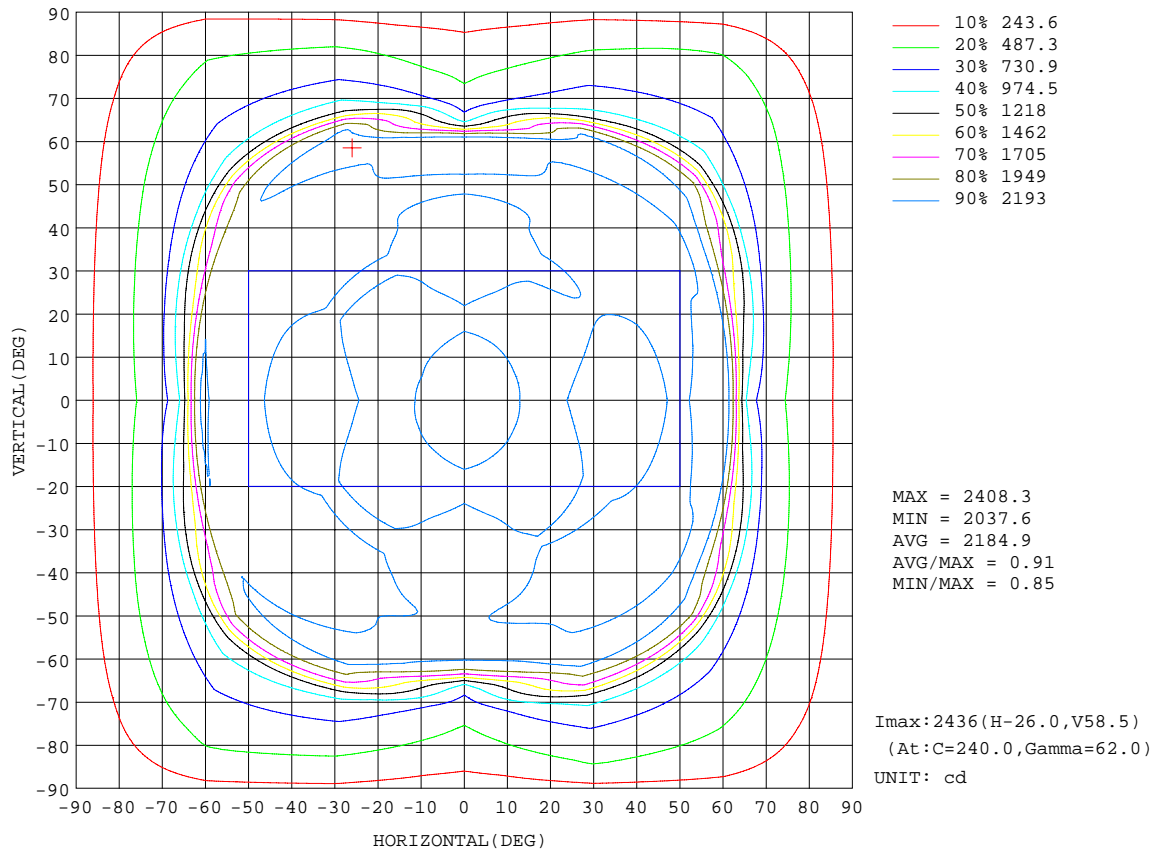
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	46	38	57	45	38	30
1.00	69	56	48	67	55	47	65	57	47	39
1.25	76	64	56	75	63	55	71	62	54	46
1.50	82	70	62	80	69	62	76	67	60	51
2.00	90	80	72	87	78	71	83	76	69	60
2.50	94	85	78	92	83	77	87	80	75	65
3.00	98	90	83	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10151.6x1 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

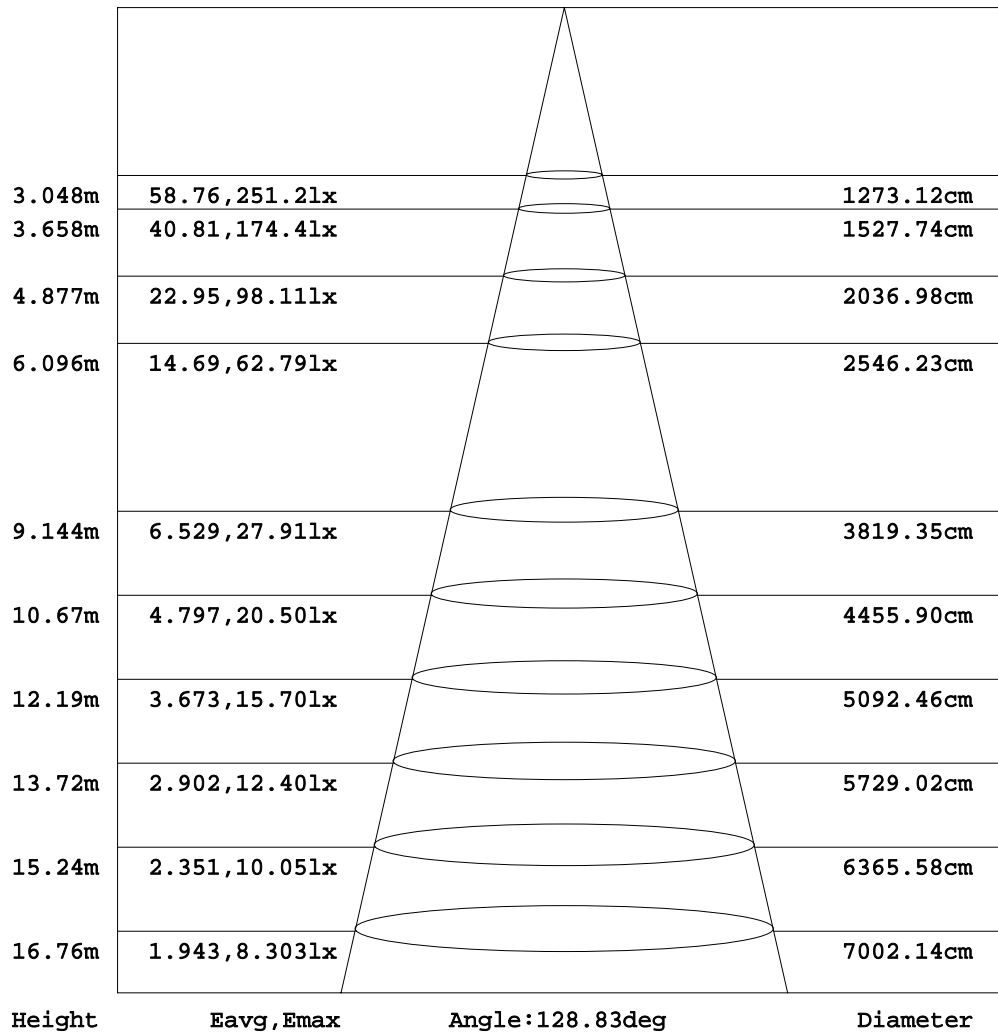
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 12.550m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.28V I:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10151.6x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:7888 lm



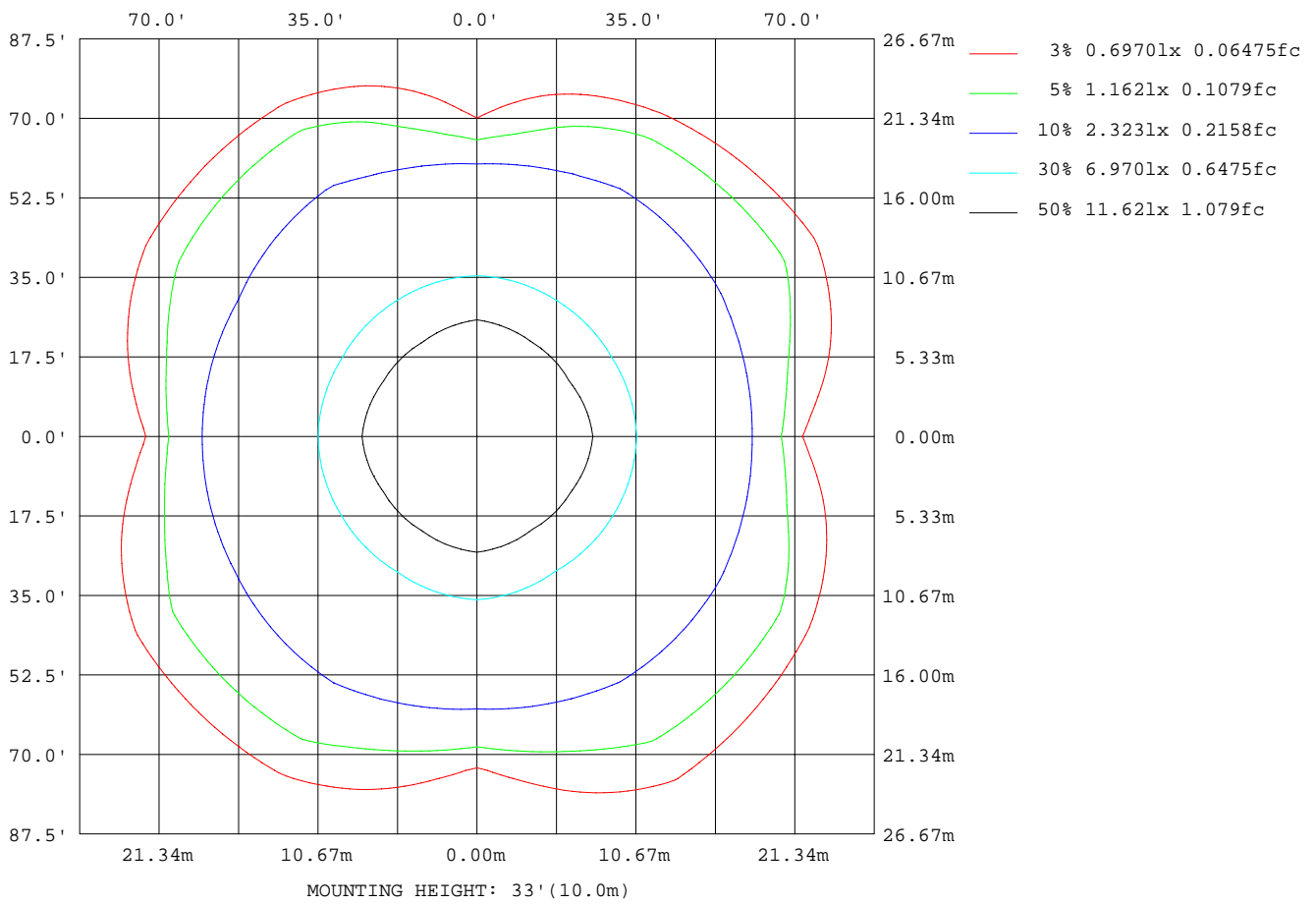
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10151.6x1 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:0.6750A P:80.852W PF:0.9958 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:10151.6x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

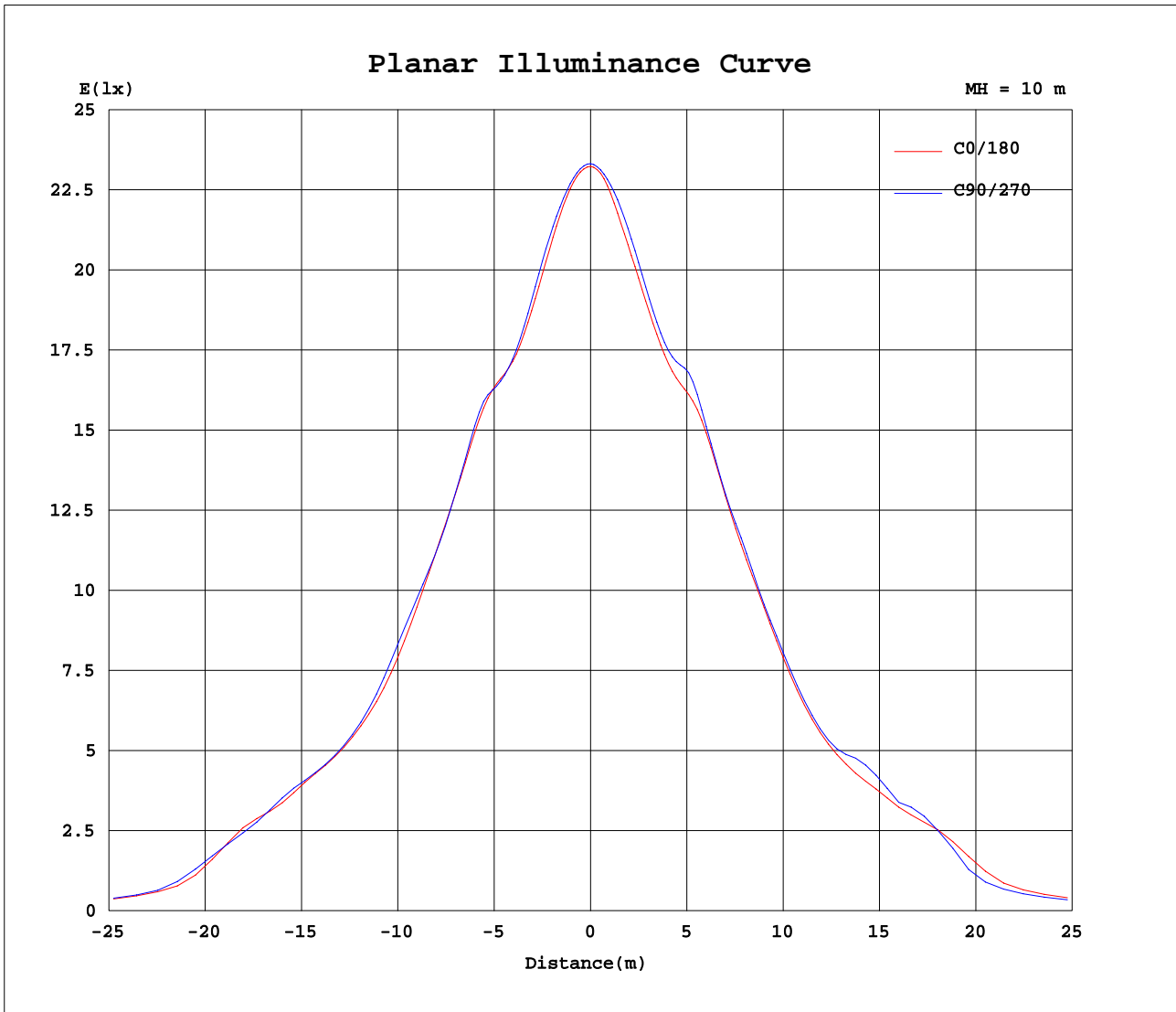
AvgL	cd/m2
L_0~180(65)av	36892
L_0~180(75)av	27272
L_0~180(85)av	43982
L_90~270(65)av	35662
L_90~270(75)av	26211
L_90~270(85)av	43039
L_45(65)av	77206
L_45(75)av	46485
L_45(85)av	78723

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 12.550m [K=1.0000]  
 Remarks: