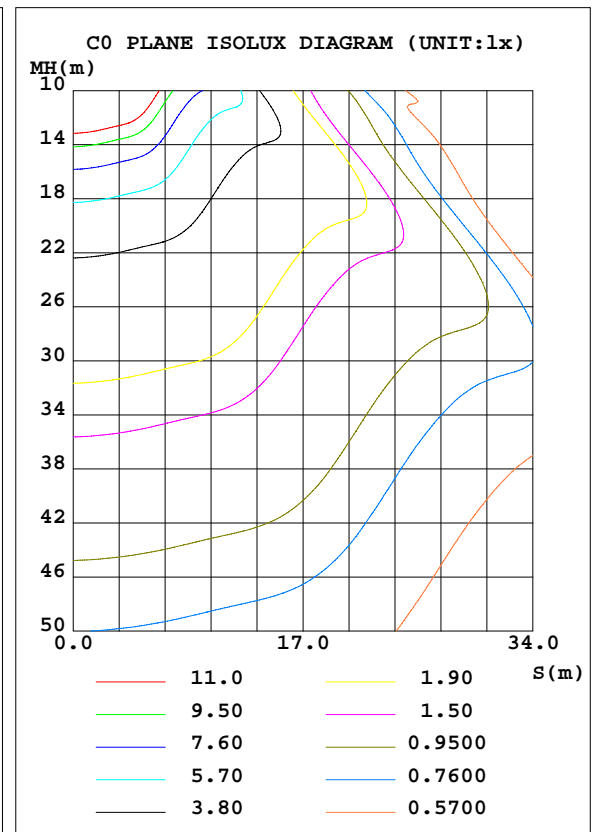
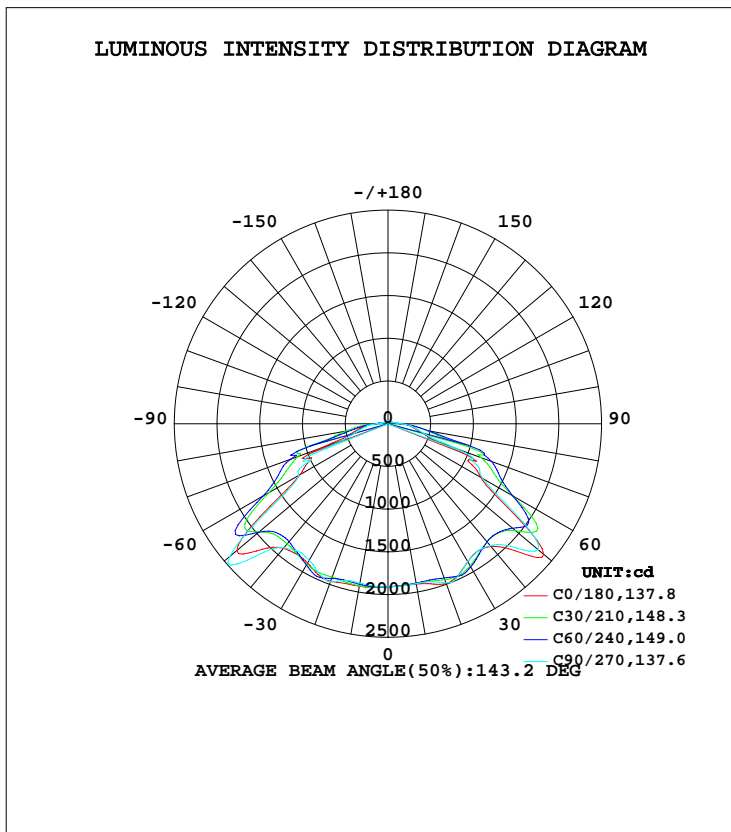


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8643.15x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.91 lm/W			
MODEL	TS-GCP1110-100W-TCP	I _{max} (cd)	2482	S/MH(C0/180)	1.51
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	8643.2	η UP, DN(C0-180)	2.0,48.4
NOMINAL FLUX(lm)	8643.15	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:

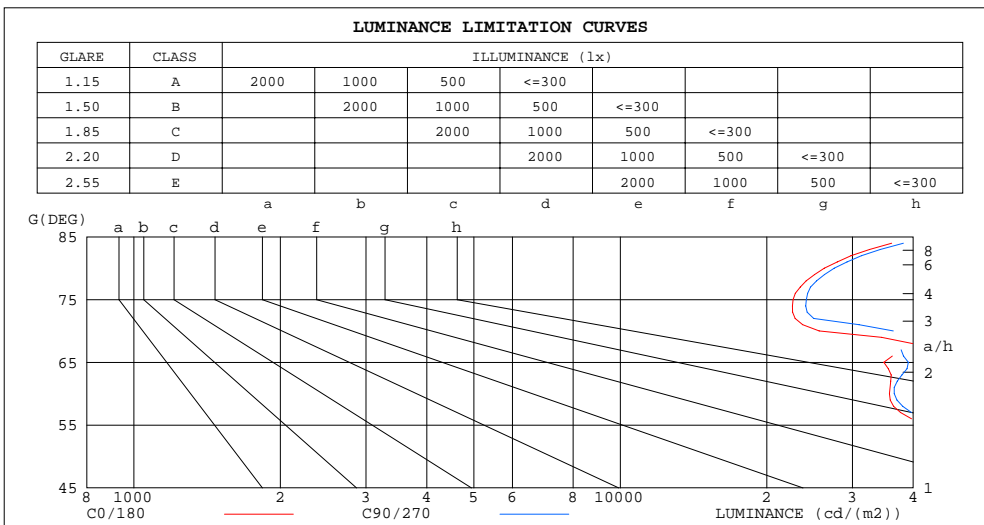
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1906	1896	1898	1919	1931	1918	1893	1894	0- 10	182.2	182.2	2.11,2.11
20	1990	1932	1979	1937	1963	1919	1970	1915	10- 20	543.5	725.7	8.4,8.4
30	1866	1929	1863	1924	1882	1906	1846	1902	20- 30	897.1	1623	18.8,18.8
40	1876	1805	1865	1819	1903	1819	1895	1797	30- 40	1164	2787	32.2,32.2
50	2381	1927	2294	1933	2310	1972	2419	1954	40- 50	1500	4287	49.6,49.6
60	1254	1684	1279	1671	1187	1646	1209	1649	50- 60	1699	5986	69.3,69.3
70	615.0	1225	871.0	1217	839.7	1164	557.1	1170	60- 70	1277	7263	84,84
80	319.9	469.9	334.5	487.9	338.1	471.0	298.3	457.6	70- 80	753.5	8017	92.8,92.8
90	136.8	141.8	146.0	147.9	143.2	136.2	129.9	130.5	80- 90	304.9	8322	96.3,96.3
100	76.22	72.40	81.84	74.43	77.32	63.95	68.76	61.91	90-100	109.0	8431	97.5,97.5
110	51.91	50.22	52.94	50.40	47.58	39.42	43.69	39.11	100-110	60.25	8491	98.2,98.2
120	45.59	42.35	45.88	42.41	33.23	29.22	32.74	29.37	110-120	41.08	8532	98.7,98.7
130	38.24	38.92	37.79	37.60	31.41	28.75	29.45	29.21	120-130	31.09	8563	99.1,99.1
140	37.94	38.25	35.61	36.96	30.51	30.91	30.49	31.53	130-140	26.21	8589	99.4,99.4
150	36.31	38.77	36.42	38.12	33.61	34.06	33.60	34.10	140-150	21.86	8611	99.6,99.6
160	37.48	40.44	38.59	39.82	37.17	37.25	36.66	37.18	150-160	17.15	8628	99.8,99.8
170	39.04	40.59	39.31	39.88	38.95	39.35	39.01	39.09	160-170	11.05	8639	100,100
180	39.41	39.88	39.42	39.97	39.36	39.89	39.40	39.94	170-180	3.780	8643	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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:8643.15x1 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	40968	43575
80	26258	27530
75	22645	24113
70	25632	36397
65	34799	39073
60	35740	36571
55	42477	44630
50	52789	51011
45	42367	41052

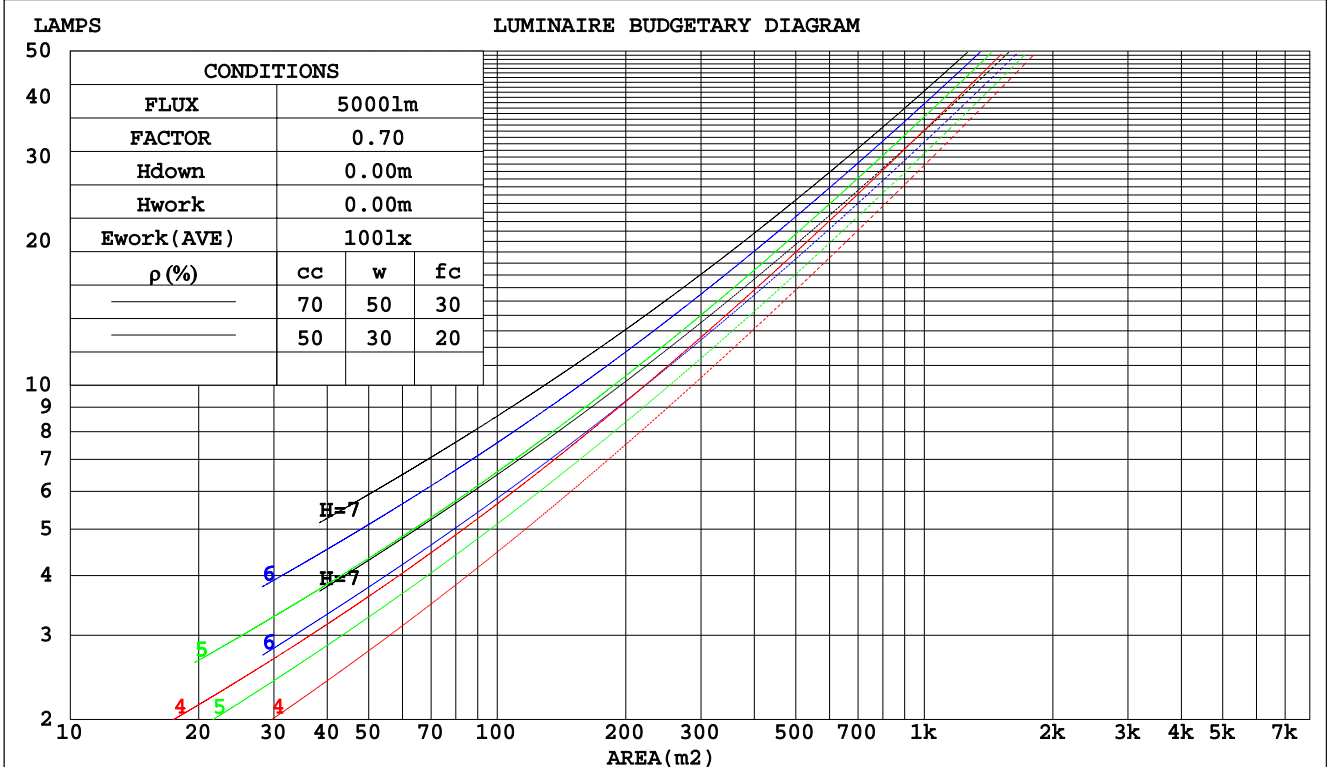
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8643.15x1 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	.53	.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	.41	.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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:8643.15x1 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	.278	.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	.137	.124	.109	.095	.071	.063	.055	.023	.020	.018	
2.0	.205	.161	.123	.176	.138	.106	.120	.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	.176	.112	.066	.152	.097	.058	.105	.068	.041	.061	.040	.024	.020	.013	.008	
7.0	.169	.106	.061	.146	.091	.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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%						Lamp Flux:8643.15x1 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	26.2	27.8	26.6	28.2	28.6	25.7	27.4	26.2	27.8	28.2
3H	27.8	29.4	28.3	29.8	30.2	27.8	29.3	28.2	29.7	30.2
4H	28.3	29.7	28.7	30.1	30.6	28.2	29.7	28.7	30.1	30.5
6H	28.6	29.9	29.0	30.4	30.8	28.5	29.9	29.0	30.3	30.8
8H	28.7	30.0	29.2	30.5	31.0	28.7	30.0	29.2	30.4	30.9
12H	28.9	30.2	29.4	30.6	31.1	28.9	30.1	29.4	30.6	31.1
4H 2H	26.9	28.4	27.4	28.8	29.2	26.6	28.0	27.0	28.4	28.9
3H	29.0	30.2	29.4	30.7	31.2	29.1	30.3	29.5	30.8	31.3
4H	29.5	30.6	30.0	31.1	31.6	29.7	30.8	30.2	31.3	31.8
6H	30.0	30.9	30.5	31.4	32.0	30.1	31.1	30.6	31.6	32.1
8H	30.2	31.1	30.7	31.6	32.2	30.3	31.2	30.8	31.7	32.3
12H	30.4	31.3	31.0	31.8	32.4	30.6	31.4	31.1	31.9	32.5
8H 4H	30.0	31.0	30.5	31.5	32.0	30.2	31.1	30.7	31.6	32.2
6H	30.6	31.4	31.2	31.9	32.5	30.8	31.5	31.3	32.1	32.6
8H	30.9	31.6	31.5	32.2	32.8	31.1	31.8	31.6	32.3	32.9
12H	31.3	31.9	31.9	32.5	33.1	31.5	32.1	32.0	32.6	33.3
12H 4H	30.1	30.9	30.6	31.5	32.0	30.2	31.1	30.8	31.6	32.2
6H	30.7	31.4	31.3	32.0	32.6	30.9	31.6	31.5	32.1	32.7
8H	31.1	31.7	31.7	32.3	32.9	31.3	31.9	31.8	32.4	33.1
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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:8643.15x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

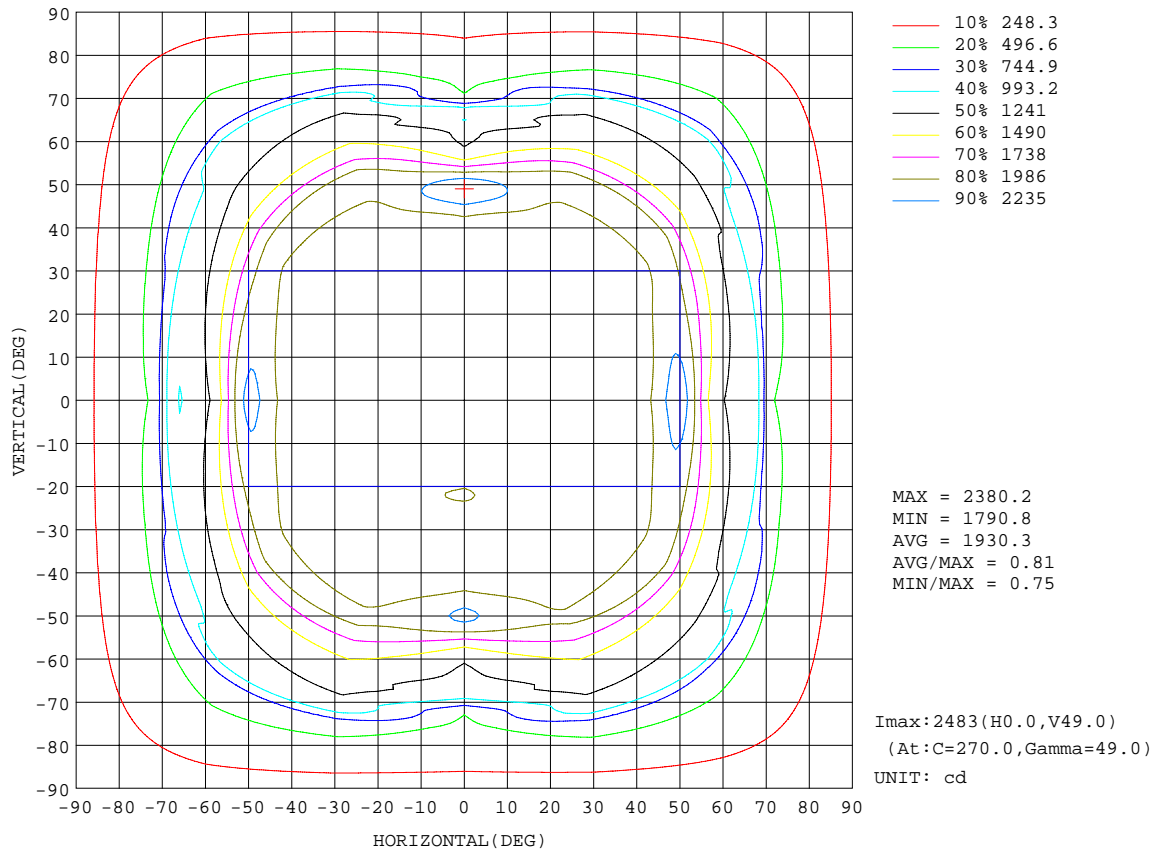
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	47	39	57	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	73	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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8643.15x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



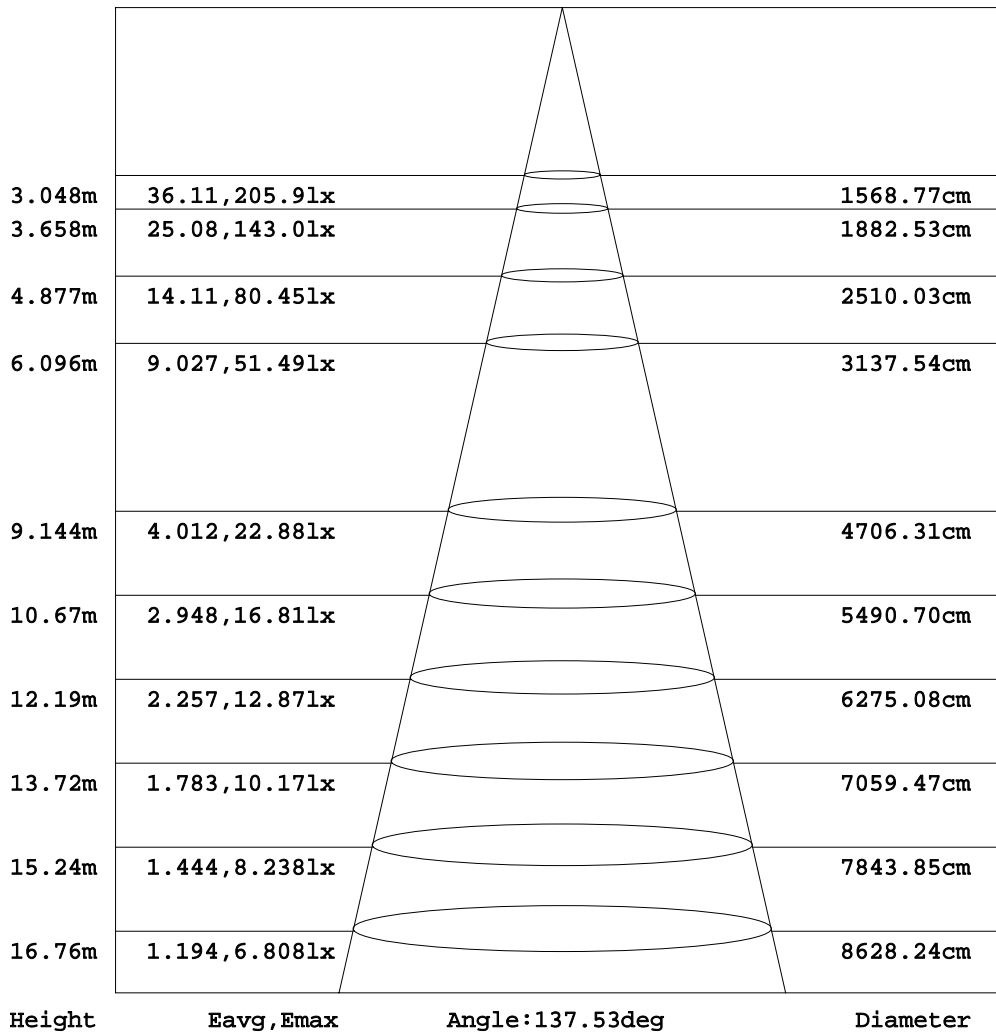
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8643.15x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:7152 lm



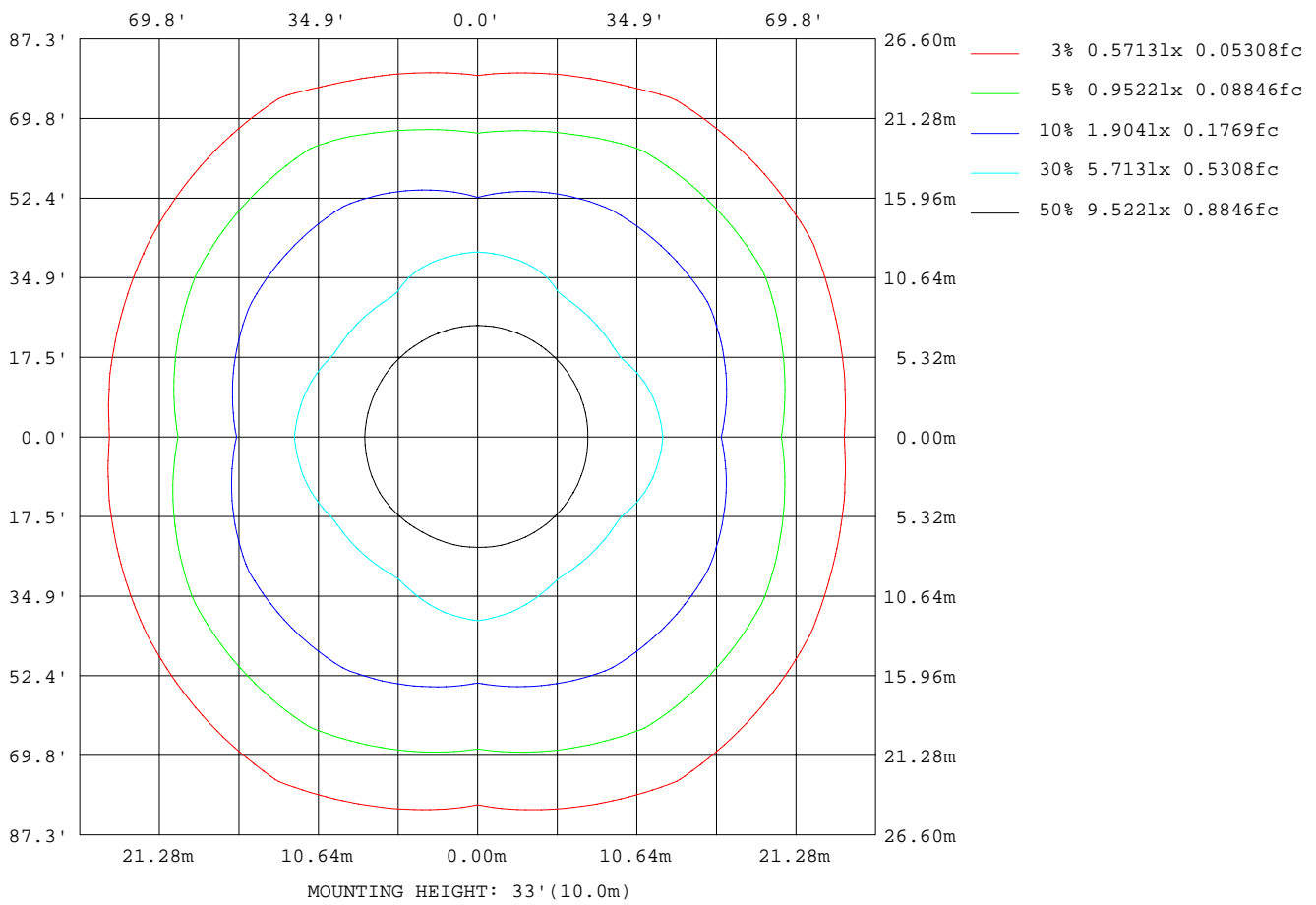
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8643.15x1 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:120.31V I:0.5399A P:64.543W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8643.15x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

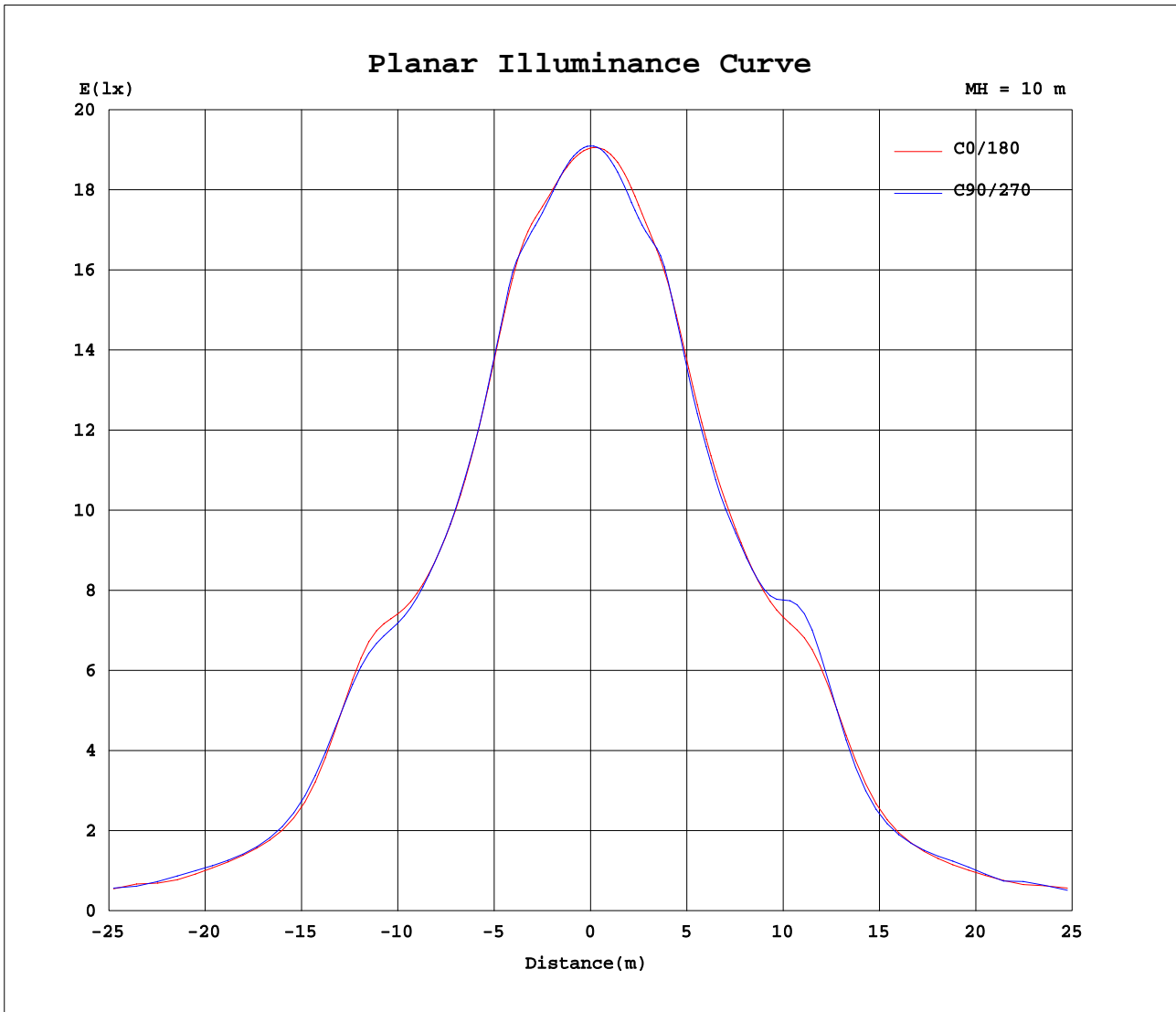
AvgL	cd/m2
L_0~180(65)av	34463
L_0~180(75)av	23675
L_0~180(85)av	42063
L_90~270(65)av	36203
L_90~270(75)av	22681
L_90~270(85)av	41049
L_45(65)av	48136
L_45(75)av	47736
L_45(85)av	50221

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: