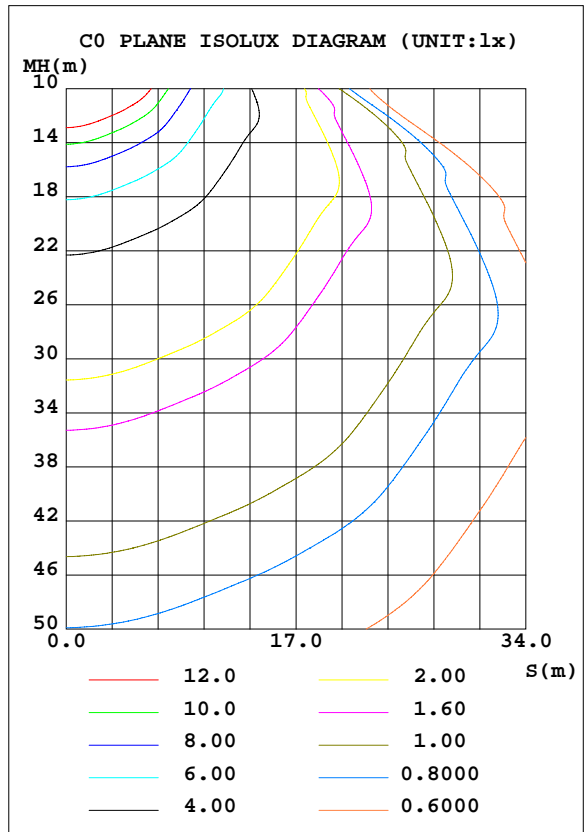
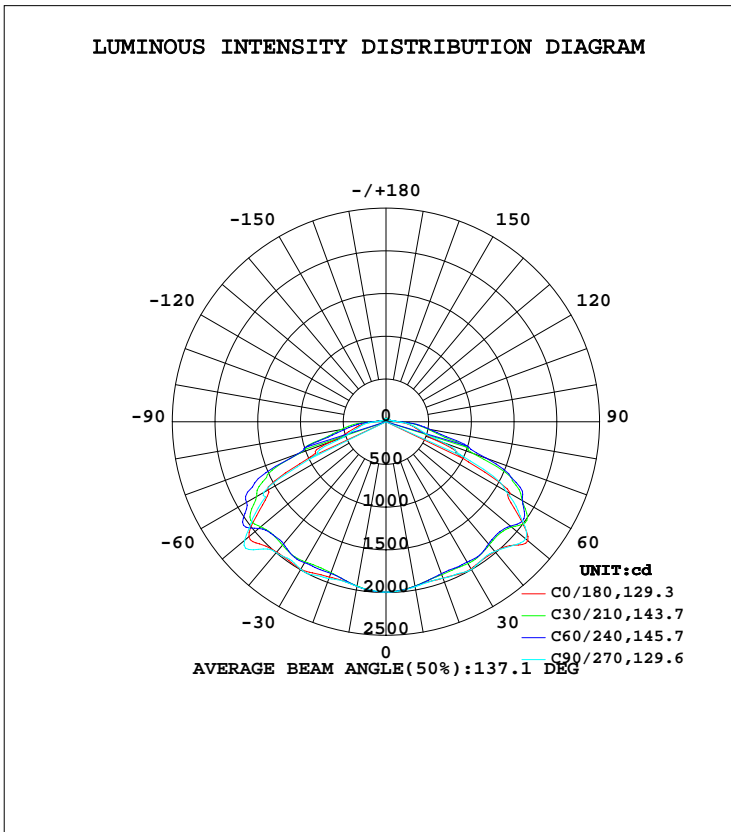


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.31V I:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8832.12x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.28 lm/W			
MODEL	TS-GCP1110-100W-TCP	I _{max} (cd)	2212	S/MH(C0/180)	1.53
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.53
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	8832.1	η UP, DN(C0-180)	2.0,48.5
NOMINAL FLUX(lm)	8832.12	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:

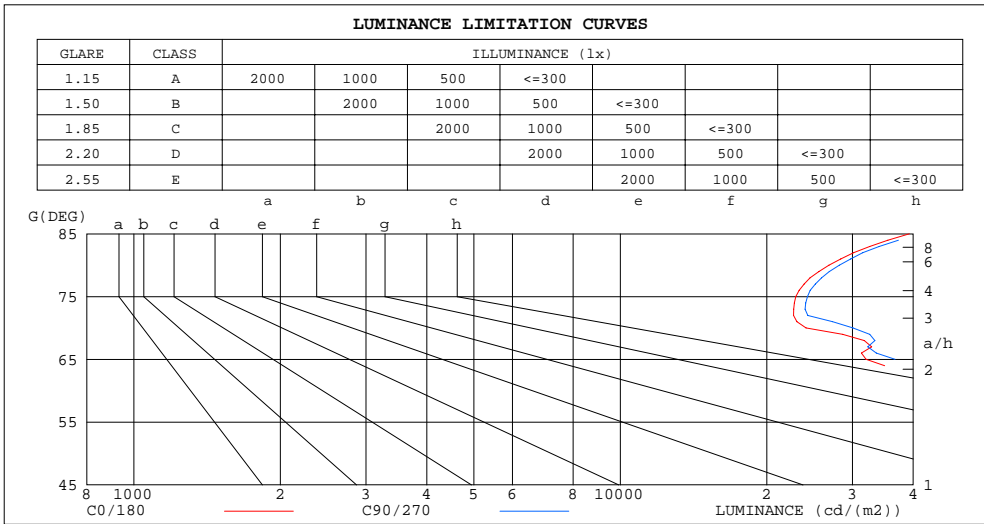
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φlum,lamp
10	1954	1953	1961	1957	1955	1955	1956	1951	0- 10	188.4	188.4	2.13,2.13
20	1949	1900	1948	1897	1933	1885	1954	1890	10- 20	545.3	733.7	8.31,8.31
30	1989	1907	1996	1900	1993	1900	1994	1902	20- 30	888.7	1622	18.4,18.4
40	1985	1874	1982	1882	1992	1876	1999	1861	30- 40	1210	2833	32.1,32.1
50	2166	1909	2134	1917	2093	1929	2161	1918	40- 50	1503	4335	49.1,49.1
60	1684	1841	1613	1815	1598	1817	1654	1835	50- 60	1720	6055	68.6,68.6
70	577.3	1167	719.5	1173	689.5	1081	533.4	1067	60- 70	1411	7466	84.5,84.5
80	326.7	509.3	342.7	524.2	345.5	504.8	306.4	494.1	70- 80	709.7	8176	92.6,92.6
90	125.6	157.3	134.3	163.9	129.1	152.9	116.8	145.7	80- 90	331.2	8507	96.3,96.3
100	73.40	73.21	77.69	75.33	71.44	63.68	65.27	61.47	90-100	109.0	8616	97.6,97.6
110	53.86	52.34	54.74	52.92	46.55	40.05	43.71	39.84	100-110	60.22	8676	98.2,98.2
120	45.61	42.82	46.02	42.86	33.60	29.92	33.12	30.05	110-120	42.17	8718	98.7,98.7
130	38.96	39.89	38.51	38.66	32.21	29.53	30.51	29.94	120-130	31.61	8750	99.1,99.1
140	39.34	39.20	37.07	37.94	31.37	31.70	31.30	32.30	130-140	26.92	8777	99.4,99.4
150	37.19	39.71	37.21	39.08	34.45	35.01	34.35	34.97	140-150	22.45	8799	99.6,99.6
160	38.35	41.46	39.53	40.83	38.11	38.23	37.58	38.09	150-160	17.57	8817	99.8,99.8
170	39.89	41.45	40.21	40.75	39.70	40.09	39.78	39.84	160-170	11.31	8828	100,100
180	40.15	40.56	40.20	40.66	40.10	40.56	40.16	40.63	170-180	3.852	8832	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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:8832.12x1 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	39274	41515
80	26849	28203
75	22943	24244
70	24091	30064
65	31991	36695
60	48075	46115
55	46809	47720
50	48094	47445
45	41406	41659

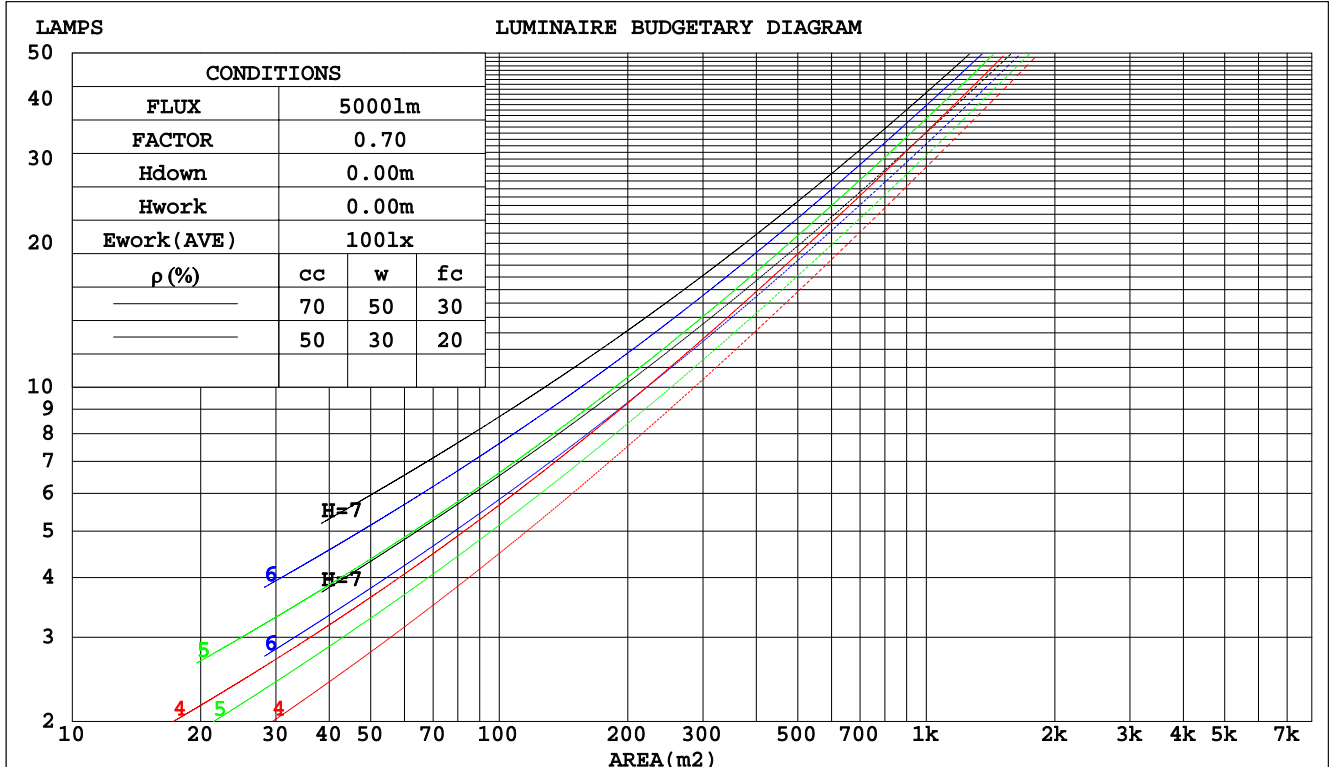
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-09

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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8832.12x1 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	.51	.45	.55	.49	.44	.42
5.0	.57	.47	.40	.56	.47	.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	.45	.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	.25	.22
9.0	.38	.29	.23	.37	.28	.23	.35	.28	.22	.34	.27	.22	.33	.26	.22	.20
10.0	.34	.26	.21	.34	.26	.20	.32	.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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:8832.12x1 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	.062	.329	.189	.060	.315	.181	.058	.301	.175	.056	
2.0	.325	.178	.055	.317	.175	.054	.303	.169	.052	.290	.163	.051	.279	.158	.050	
3.0	.297	.158	.047	.290	.155	.047	.278	.150	.046	.266	.146	.045	.255	.141	.044	
4.0	.271	.141	.041	.265	.139	.041	.254	.135	.040	.244	.131	.039	.234	.127	.039	
5.0	.249	.127	.037	.243	.125	.036	.233	.122	.036	.224	.118	.035	.215	.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	.173	.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	.127	.127	.127	.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	.122	.176	.138	.106	.120	.095	.074	.069	.056	.043	.022	.018	.014	
3.0	.198	.143	.099	.170	.123	.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	.176	.112	.066	.152	.097	.057	.105	.068	.041	.061	.040	.024	.020	.013	.008	
7.0	.169	.105	.060	.146	.091	.053	.101	.064	.037	.058	.038	.022	.019	.012	.007	
8.0	.163	.100	.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	.007	
10.0	.150	.090	.051	.129	.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:120.31V I:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%						Lamp Flux:8832.12x1 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	26.4	28.1	26.8	28.4	28.8	26.3	28.0	26.7	28.4	28.8
3H	27.8	29.3	28.2	29.7	30.2	27.8	29.3	28.2	29.7	30.2
4H	28.2	29.6	28.6	30.0	30.5	28.1	29.6	28.6	30.0	30.5
6H	28.5	29.8	29.0	30.3	30.8	28.5	29.8	28.9	30.2	30.7
8H	28.7	30.0	29.1	30.4	30.9	28.6	29.9	29.1	30.4	30.9
12H	28.9	30.1	29.3	30.6	31.1	28.8	30.1	29.3	30.5	31.0
4H 2H	27.4	28.8	27.8	29.2	29.7	27.3	28.8	27.8	29.2	29.6
3H	29.0	30.2	29.5	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	29.6	30.7	30.1	31.2	31.7
6H	30.0	30.9	30.5	31.5	32.0	30.0	31.0	30.5	31.5	32.1
8H	30.2	31.1	30.7	31.6	32.2	30.2	31.2	30.8	31.7	32.2
12H	30.5	31.3	31.0	31.8	32.4	30.5	31.4	31.0	31.9	32.4
8H 4H	29.9	30.9	30.4	31.4	31.9	30.0	31.0	30.5	31.5	32.0
6H	30.6	31.4	31.1	31.9	32.5	30.7	31.5	31.2	32.0	32.6
8H	31.0	31.7	31.5	32.2	32.8	31.0	31.7	31.6	32.3	32.9
12H	31.4	32.0	31.9	32.6	33.2	31.4	32.0	32.0	32.6	33.2
12H 4H	30.0	30.8	30.5	31.4	31.9	30.1	30.9	30.6	31.5	32.0
6H	30.7	31.4	31.3	32.0	32.6	30.8	31.5	31.4	32.0	32.7
8H	31.2	31.8	31.8	32.4	33.0	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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0%			Lamp Flux:8832.12x1 lm
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.:	SUR.:	Shielding Angle:	

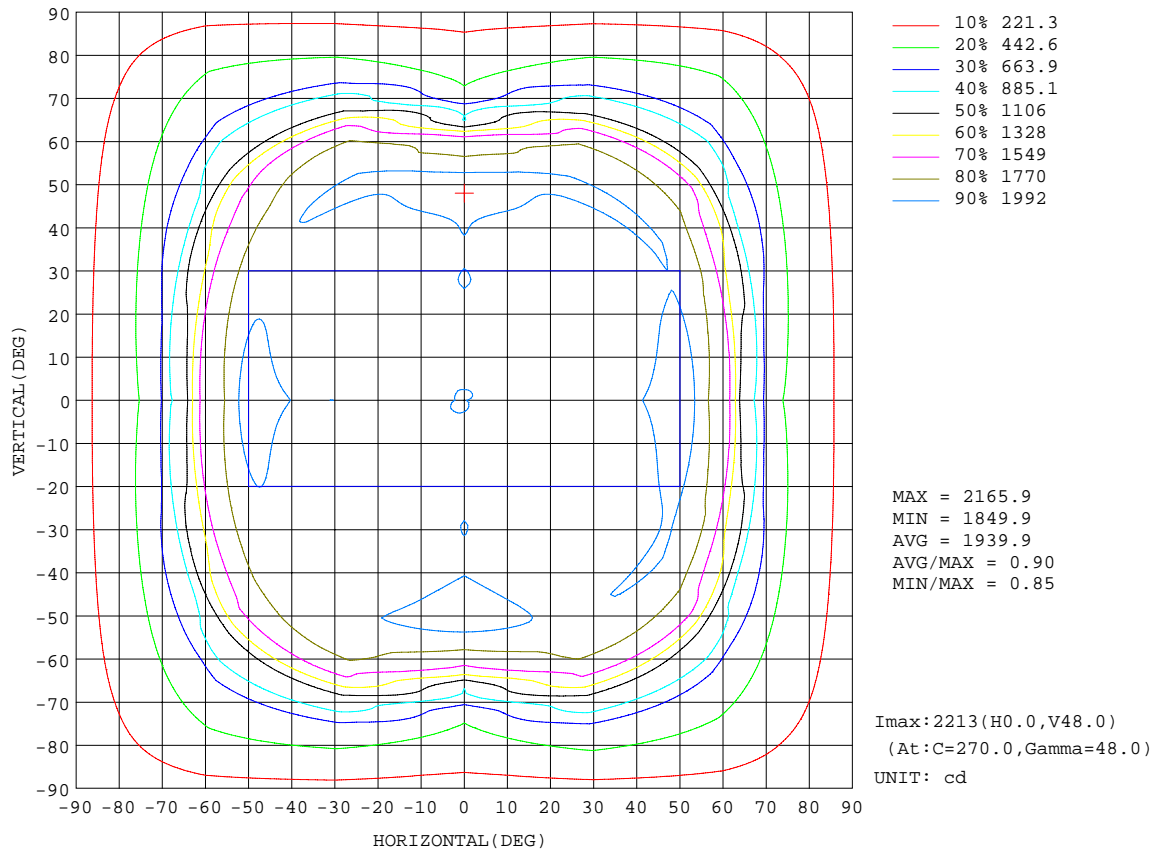
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	47	39	57	46	38	30
1.00	69	56	48	68	56	48	65	57	47	39
1.25	77	65	56	75	64	56	72	62	55	46
1.50	82	71	62	80	70	62	76	67	61	52
2.00	90	80	72	88	78	71	84	76	70	60
2.50	94	85	78	92	84	77	87	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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8832.12x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



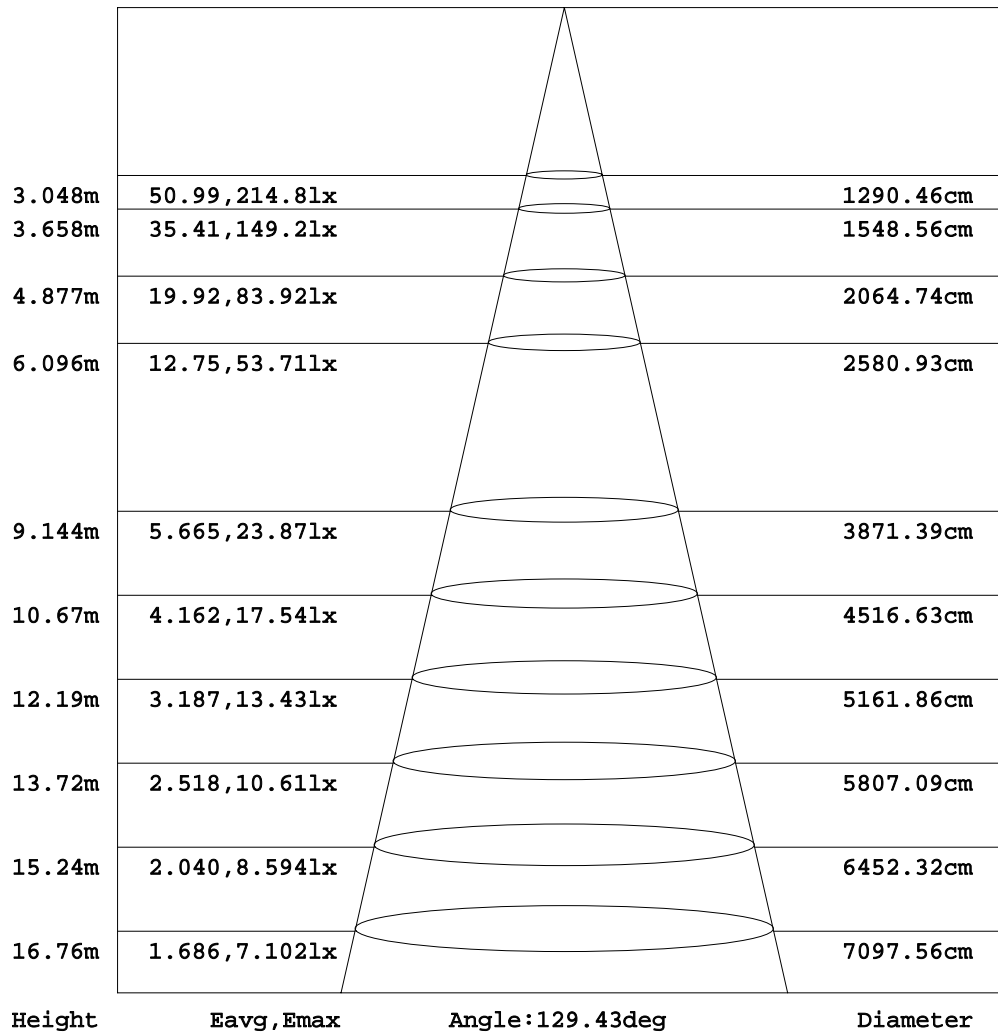
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-09

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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8832.12x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:6844 lm



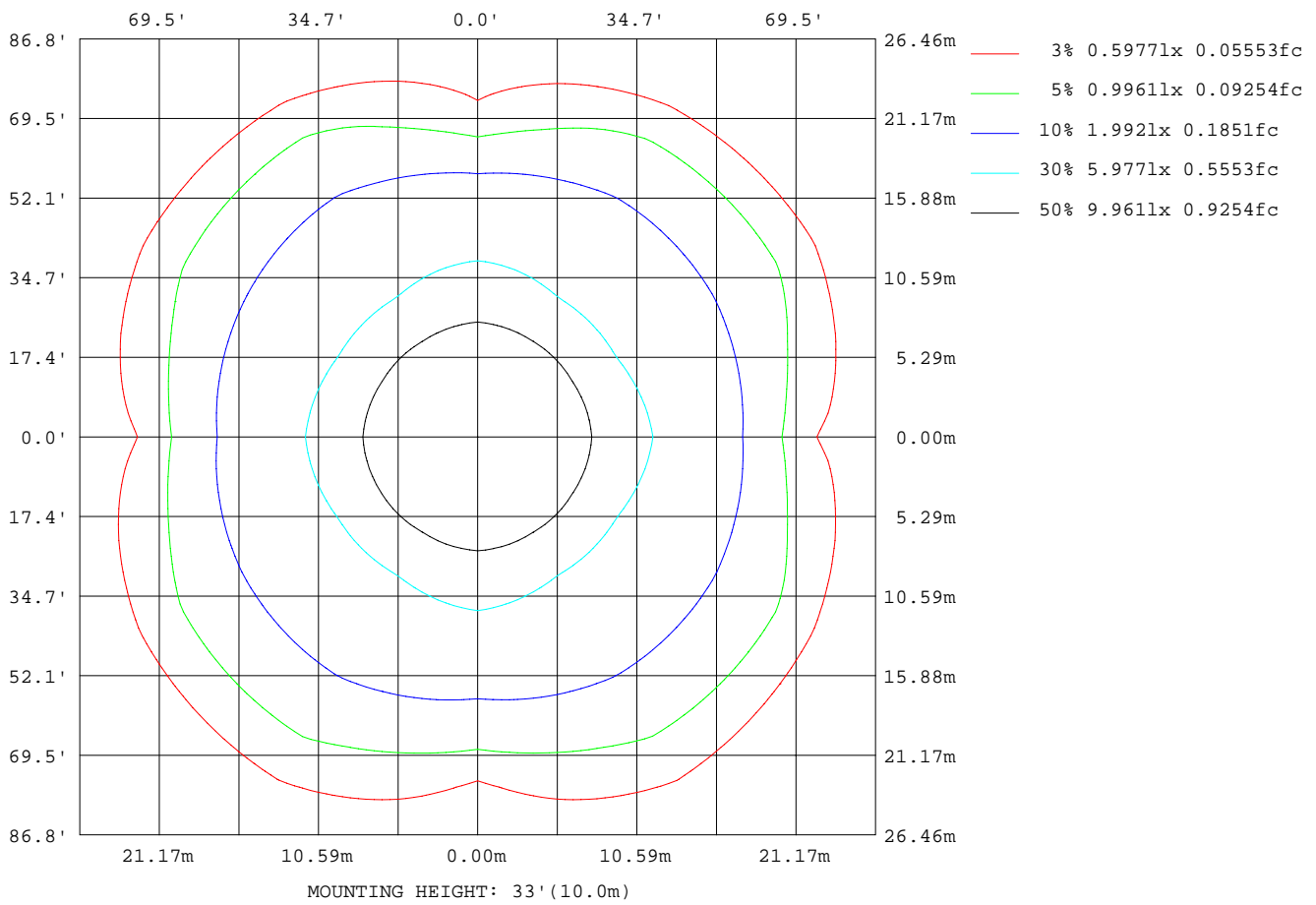
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8832.12x1 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:0.5266A P:62.960W PF:0.9937 Freq:59.98Hz UTHDi:0% ITHDi:0% Lamp Flux:8832.12x1 lm		
NAME: TS-GCP1110-100W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

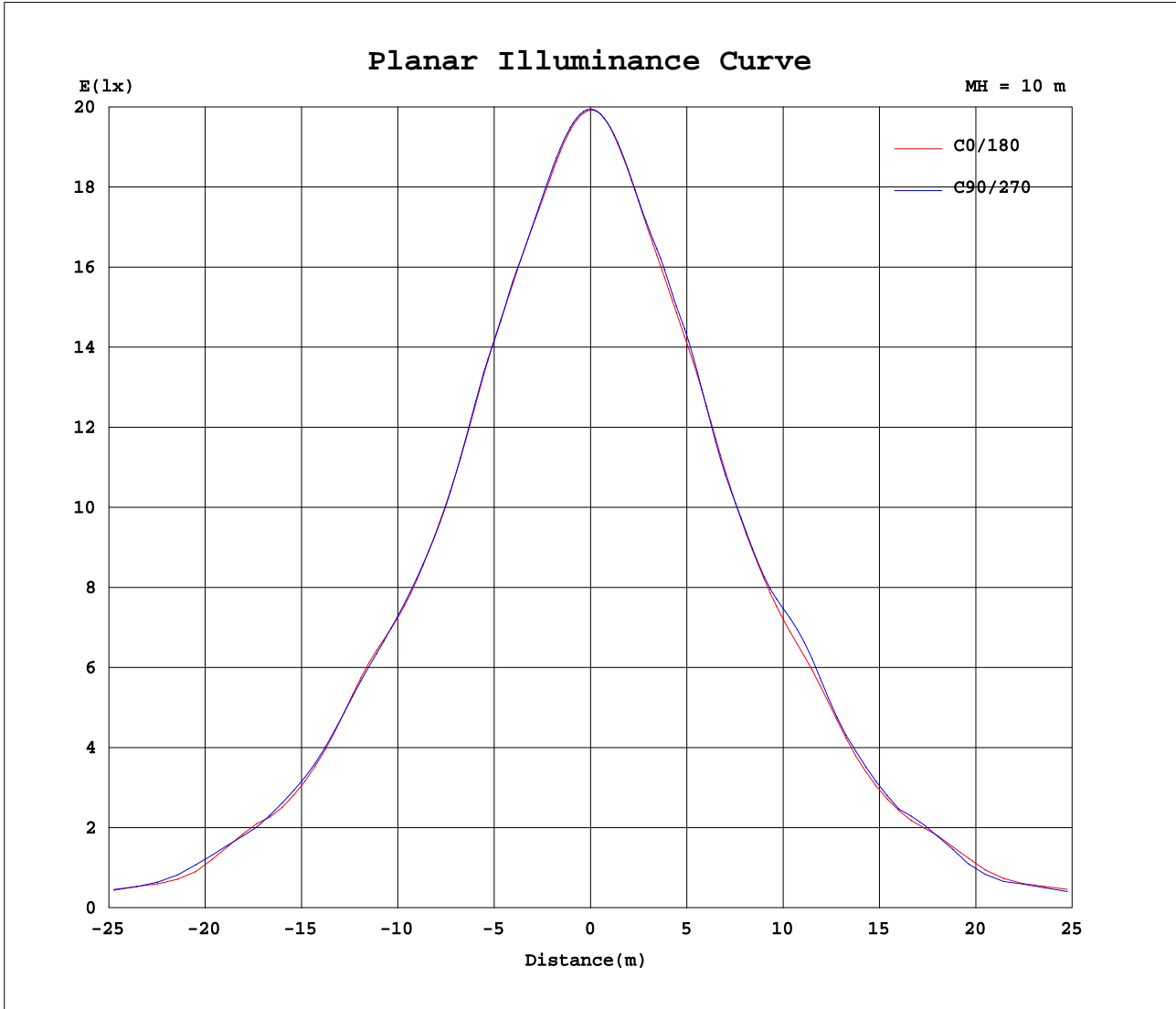
AvgL	cd/m2
L_0~180(65)av	32529
L_0~180(75)av	23952
L_0~180(85)av	40413
L_90~270(65)av	33118
L_90~270(75)av	22997
L_90~270(85)av	39539
L_45(65)av	58239
L_45(75)av	44351
L_45(85)av	60033

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: