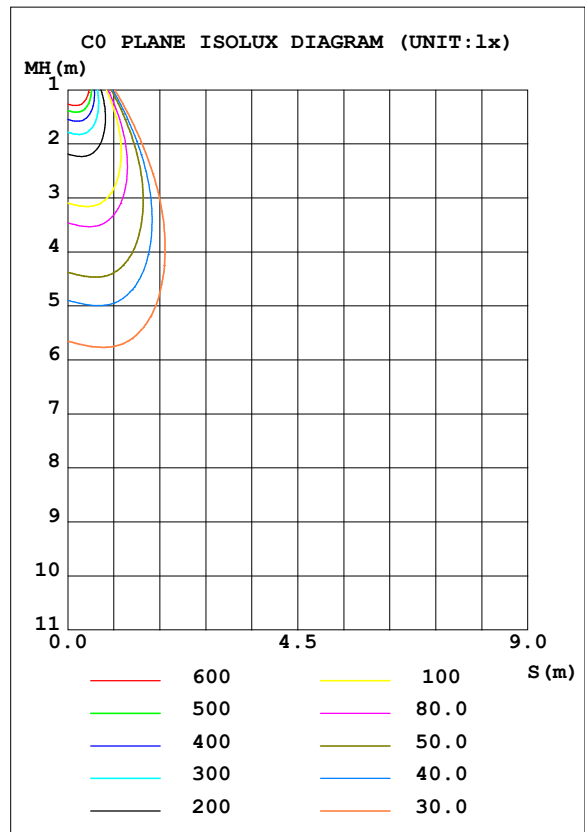
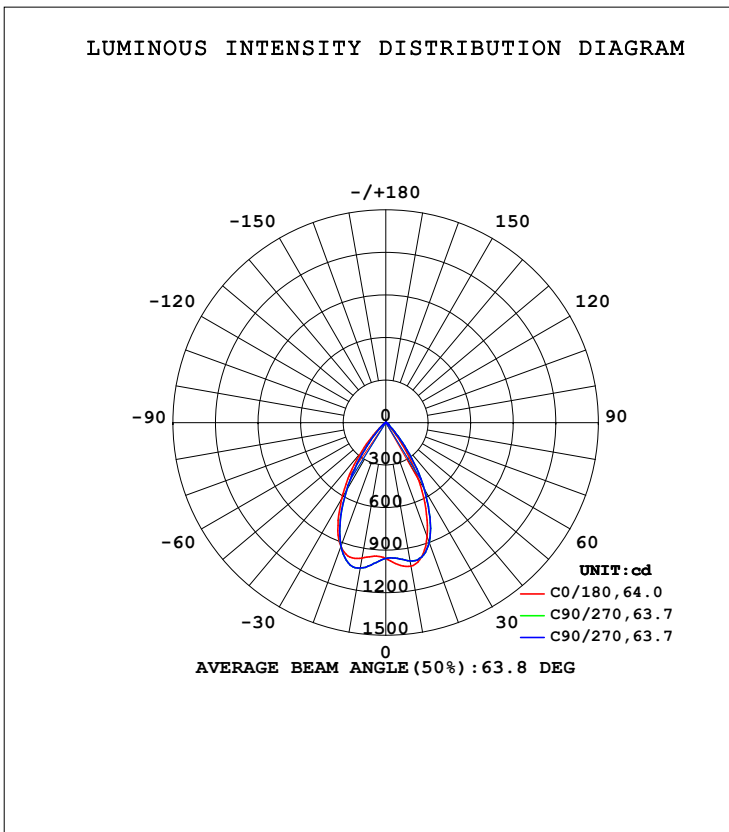


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.16 lm/W			
MODEL	TL10W-CC-W 5000K	I _{max} (cd)	1047	S/MH (C0/180)	1.00
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.94
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1020.1	<input type="checkbox"/> UP, DN (C0-180)	0.0, 46.6
NOMINAL FLUX (lm)	1020.14	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 53.4
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	230	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	0.95



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

mm	C0	C90	C180	C270				mm	□ zone	□ total	%lum, lamp
10	1028	989.5	969.1	1041				0- 10	94.37	94.37	9.25,9.25
20	853.7	898.8	928.1	926.3				10- 20	275.9	370.2	36.3,36.3
30	462.4	547.0	624.3	558.6				20- 30	335.5	705.7	69.2,69.2
40	118.0	183.5	265.7	185.5				30- 40	220.5	926.2	90.8,90.8
50	22.15	34.05	52.73	33.74				40- 50	70.42	996.6	97.7,97.7
60	7.110	10.75	15.07	11.02				50- 60	18.02	1015	99.5,99.5
70	0.0853	0.6085	2.698	0.5927				60- 70	5.253	1020	100,100
80	0.0487	0.0427	0.0426	0.0549				70- 80	0.2067	1020	100,100
90	0.0426	0.0427	0.0426	0.0427				80- 90	0.0483	1020	100,100
100								90-100			
110								100-110			
120								110-120			
130								120-130			
140								130-140			
150								140-150			
160								150-160			
170								160-170			
180								170-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 974.11 lm

%lum = 95.5%

%lamp = 95.5%

Conical surface Flux(120deg): 1014.6 lm

%lum = 99.5%

%lamp = 99.5%

0 - 45 DEG Zonal Flux:974.11 %lum: 95.5%

0 - 60 DEG Zonal Flux:1014.6 %lum: 99.5%

All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 7.4%

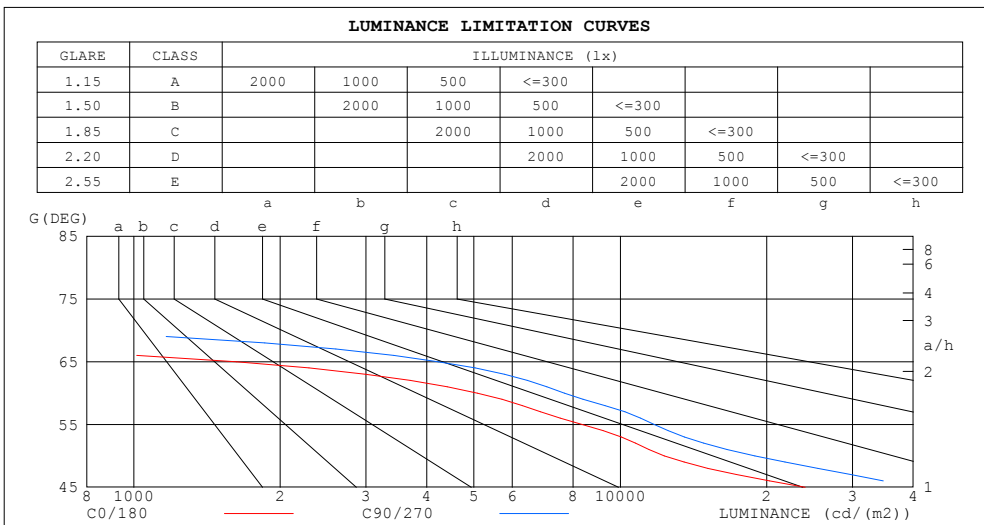
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 10.7%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-14

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	175	175
80	100	88
75	76	59
70	89	635
65	1627	4228
60	5085	7672
55	8358	11751
50	12319	18898
45	23980	40424

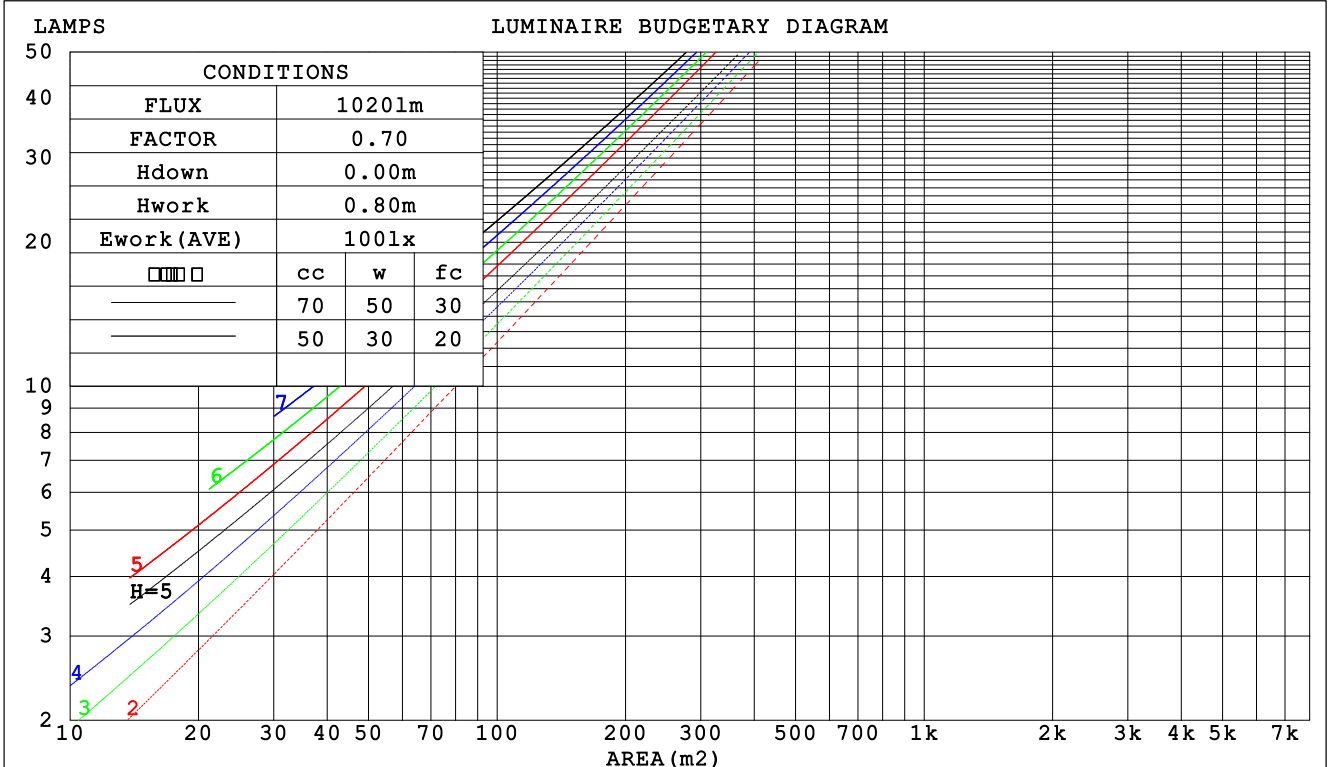
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.90	.86	.94	.89	.86	.91	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.77	.73	.82	.77	.72	.80	.76	.72	.79	.74	.71	.77	.73	.71	.69
6.0	.78	.72	.67	.77	.71	.67	.76	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.72	.67	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.56
9.0	.65	.59	.55	.64	.58	.54	.63	.58	.54	.62	.58	.54	.61	.57	.54	.53
10.0	.61	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.49



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.181	.103	.033	.174	.099	.032	.162	.093	.030	.150	.086	.028	.139	.081	.026	
2.0	.174	.095	.029	.168	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025	
3.0	.166	.089	.027	.162	.087	.026	.152	.083	.025	.144	.079	.024	.136	.075	.023	
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.139	.075	.023	.133	.072	.022	
5.0	.152	.077	.022	.148	.076	.022	.141	.073	.022	.135	.071	.021	.129	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.069	.020	.130	.067	.020	.125	.066	.019	
7.0	.138	.068	.019	.136	.068	.019	.130	.066	.019	.125	.064	.019	.120	.063	.018	
8.0	.133	.065	.018	.130	.064	.018	.125	.063	.018	.121	.061	.018	.116	.060	.017	
9.0	.127	.061	.017	.125	.061	.017	.120	.060	.017	.116	.058	.017	.113	.057	.017	
10.0	.122	.058	.016	.120	.058	.016	.116	.057	.016	.112	.056	.016	.109	.055	.016	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.098	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	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	19.7	20.7	20.0	20.9	21.1	21.0	22.0	21.2	22.1	22.3
3H	19.6	20.5	19.8	20.7	20.9	20.8	21.7	21.1	21.9	22.1
4H	19.5	20.3	19.8	20.6	20.8	20.7	21.6	21.0	21.8	22.0
6H	19.4	20.2	19.7	20.4	20.7	20.6	21.4	20.9	21.7	21.9
8H	19.4	20.1	19.7	20.4	20.6	20.6	21.4	20.9	21.6	21.9
12H	19.3	20.0	19.6	20.3	20.6	20.6	21.3	20.9	21.6	21.8
4H 2H	19.5	20.4	19.8	20.6	20.8	20.7	21.6	21.0	21.8	22.0
3H	19.3	20.1	19.7	20.3	20.6	20.6	21.3	20.9	21.6	21.9
4H	19.2	19.9	19.6	20.2	20.5	20.5	21.1	20.8	21.4	21.7
6H	19.2	19.7	19.5	20.1	20.4	20.4	21.0	20.8	21.3	21.6
8H	19.1	19.6	19.5	20.0	20.4	20.3	20.9	20.7	21.2	21.6
12H	19.1	19.5	19.5	19.9	20.3	20.3	20.8	20.7	21.1	21.5
8H 4H	19.1	19.6	19.5	20.0	20.4	20.3	20.9	20.7	21.2	21.6
6H	19.0	19.4	19.4	19.8	20.3	20.2	20.7	20.7	21.1	21.5
8H	19.0	19.3	19.4	19.8	20.2	20.2	20.6	20.6	21.0	21.4
12H	18.9	19.2	19.4	19.7	20.1	20.1	20.5	20.6	20.9	21.4
12H 4H	19.1	19.5	19.5	19.9	20.3	20.3	20.8	20.7	21.1	21.5
6H	19.0	19.3	19.4	19.8	20.2	20.2	20.6	20.6	21.0	21.4
8H	18.9	19.2	19.4	19.7	20.1	20.1	20.5	20.6	20.9	21.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / - 9.6					+ 3.6 / - 9.2				
1.5H	+ 5.0 / - 6.4					+ 5.7 / - 7.4				
2.0H	+ 4.7 / - 6.3					+ 6.2 / - 6.6				

CIE Pub.117, 1020 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)
Area: 0.0028 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

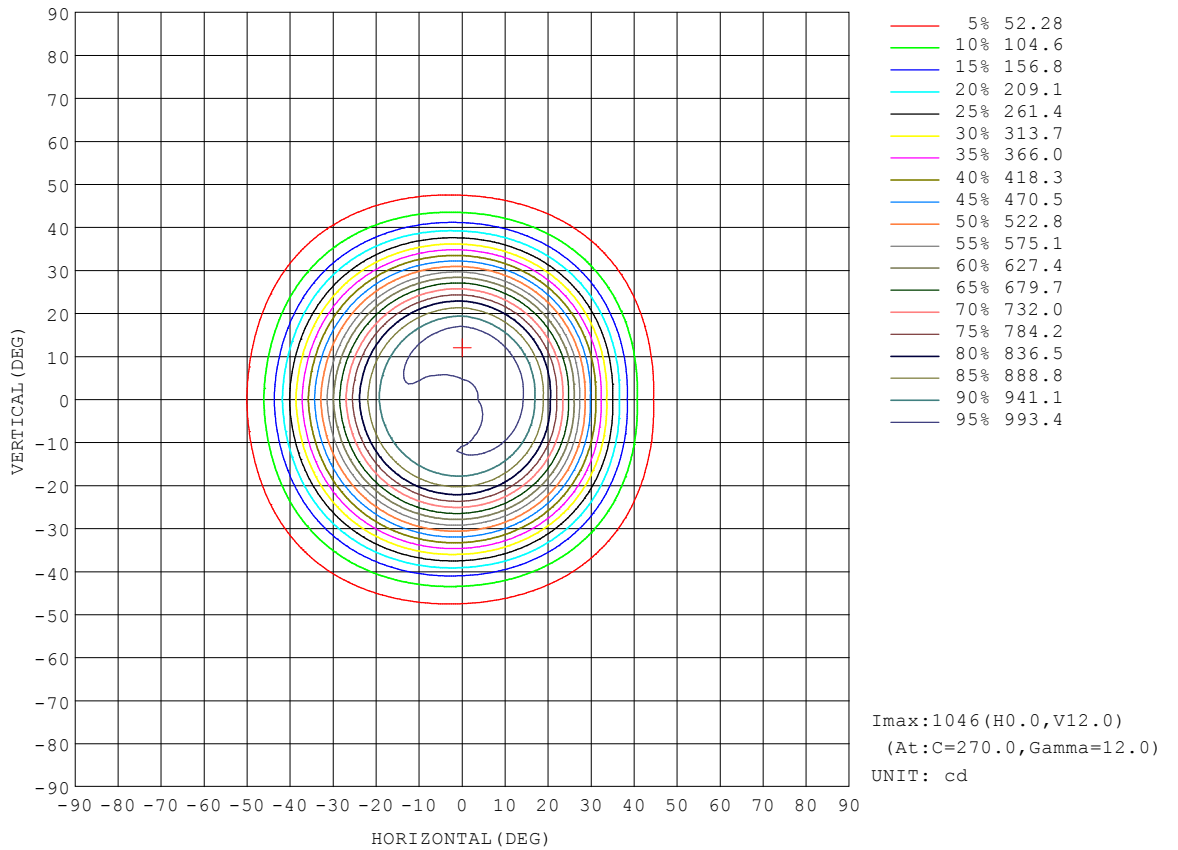
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	93	87	83	92	86	83	79
1.00	98	93	89	97	92	88	96	92	88	84
1.25	103	97	94	101	97	93	100	95	92	88
1.50	105	101	97	104	100	97	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

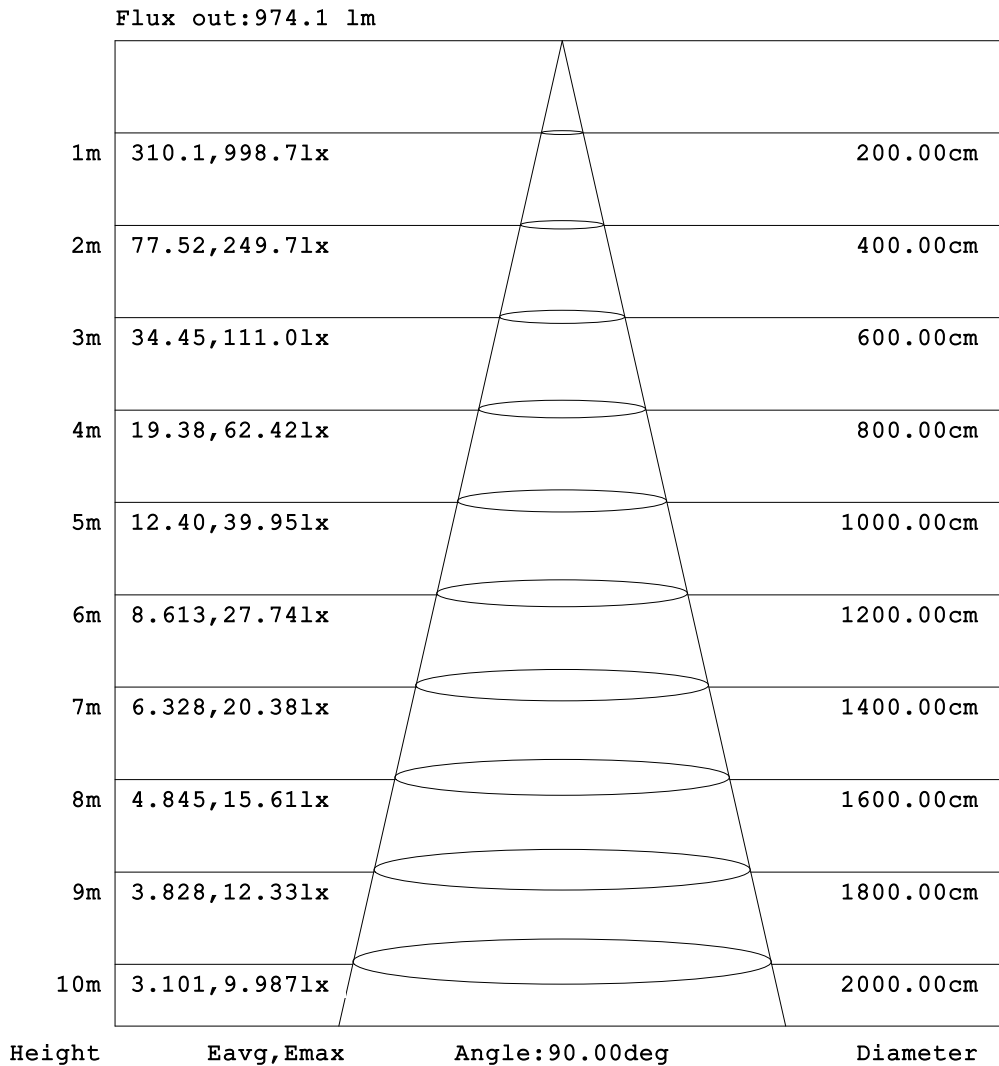


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:



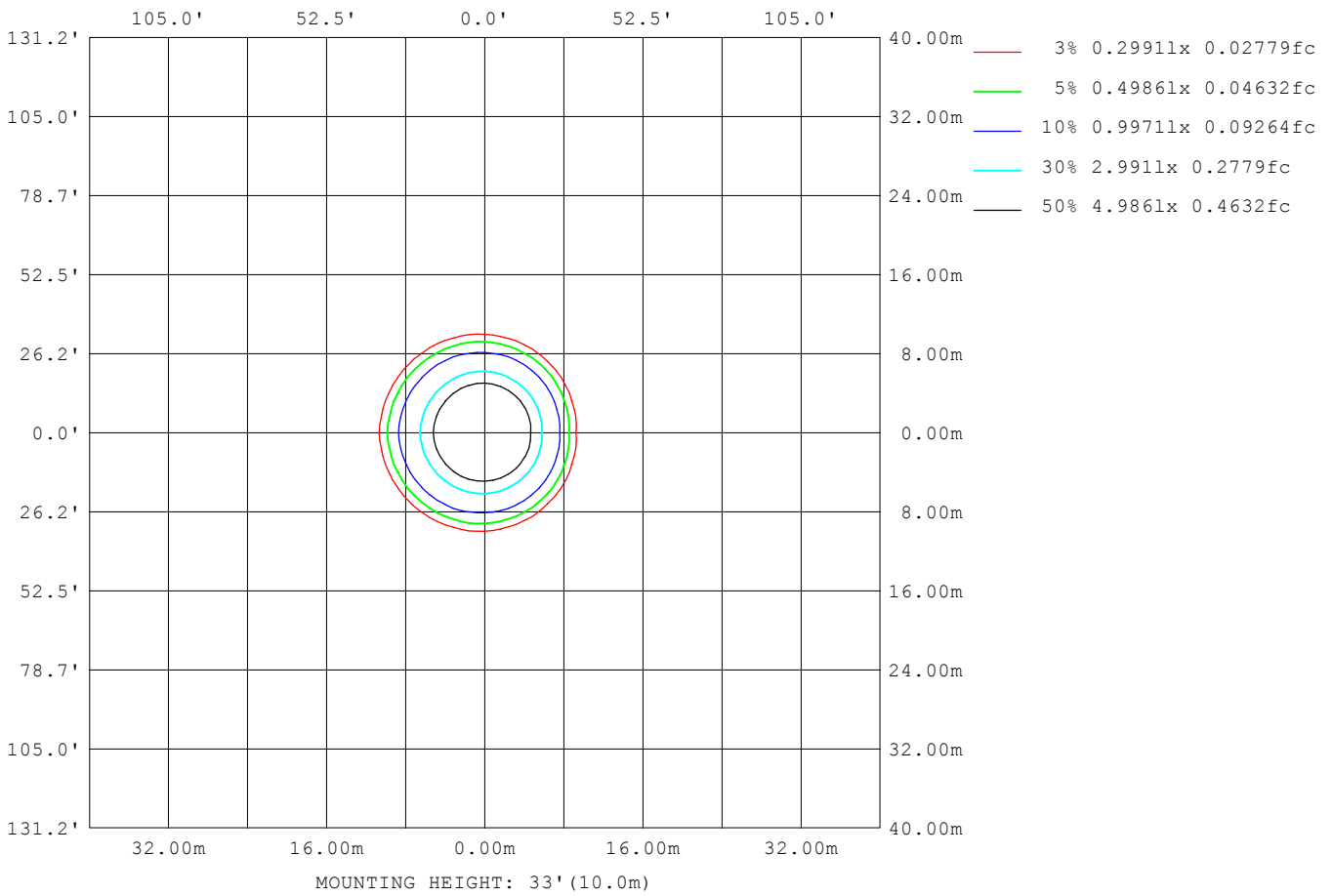
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

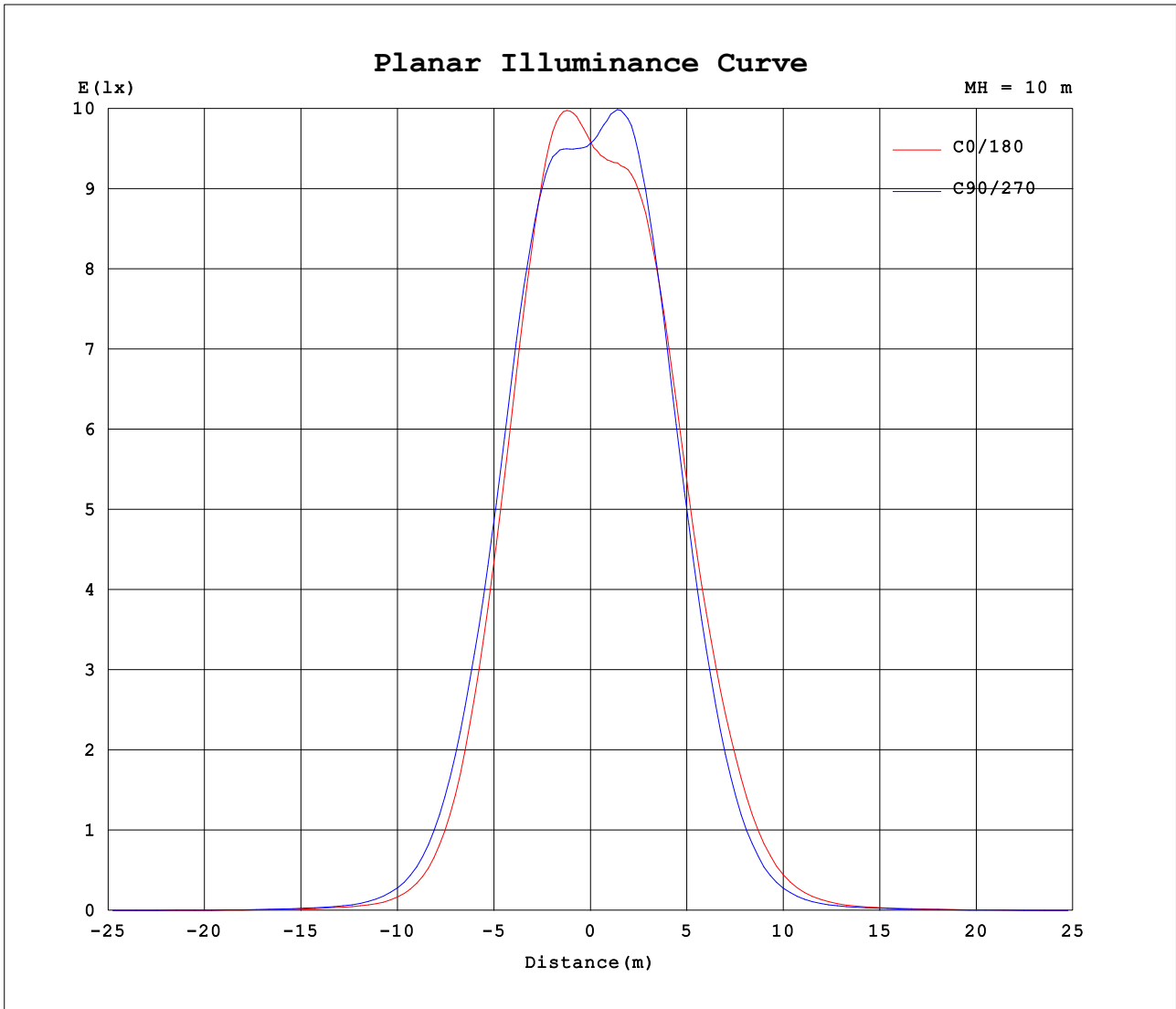
AvgL	cd/m2
L_0~180 (65) av	4302
L_0~180 (75) av	67
L_0~180 (85) av	175
L_90~270 (65) av	4296
L_90~270 (75) av	80
L_90~270 (85) av	175
L_45 (65) av	4466
L_45 (75) av	75
L_45 (85) av	175

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.00V I:0.0498A P:10.720W PF:0.9161 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1020.14x1 lm		
NAME: TL10W-CC-W 5000K	TYPE: 10W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ φ (DEG)	0	90	180	270															
0	958	958	958	958															
5	1004	961	946	998															
10	1028	990	969	1041															
15	979	982	981	1024															
20	854	899	928	926															
25	668	737	800	758															
30	462	547	624	559															
35	261	353	446	355															
40	118	184	266	186															
45	47.4	80.1	126	79.4															
50	22.1	34.1	52.7	33.7															
55	13.4	18.9	24.1	19.3															
60	7.11	10.8	15.1	11.0															
65	1.92	5.01	8.26	5.16															
70	0.09	0.61	2.70	0.59															
75	0.05	0.04	0.04	0.07															
80	0.05	0.04	0.04	0.05															
85	0.04	0.04	0.04	0.04															
90	0.04	0.04	0.04	0.04															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks: