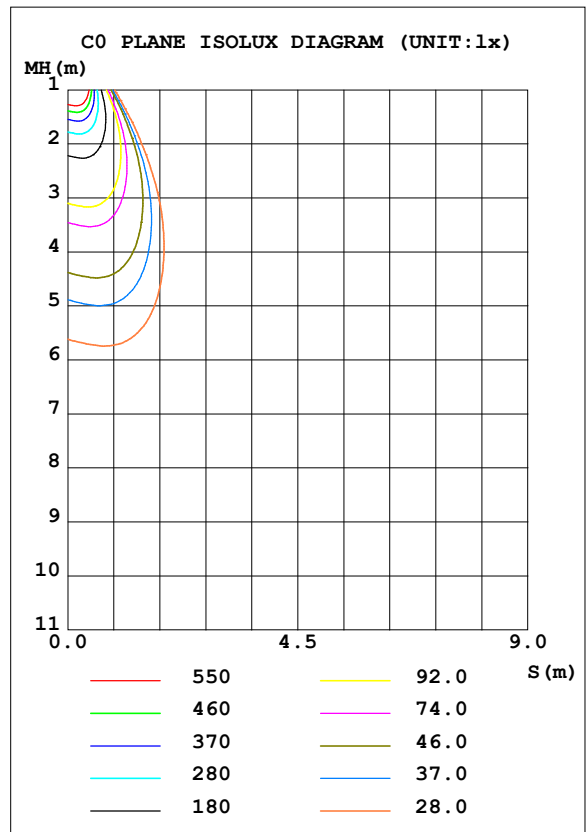
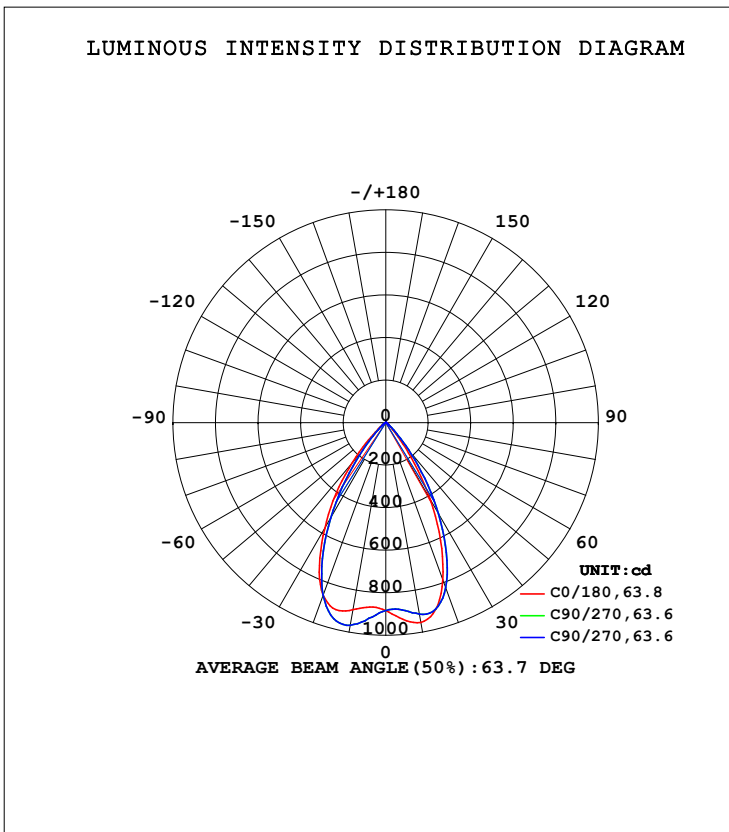


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0498A P:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.53 lm/W			
MODEL	TL10W-CC-W 3000K	I _{max} (cd)	970.0	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)	939.68	<input type="checkbox"/> UP, DN (C0-180)	0.0, 46.4
NOMINAL FLUX (lm)	939.676	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 53.6
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	953.2	913.5	892.7	966.9					0- 10	87.11	87.11	9.27,9.27
20	785.2	824.3	862.1	862.0					10- 20	255.6	342.7	36.5,36.5
30	422.1	498.3	574.1	518.5					20- 30	309.0	651.7	69.4,69.4
40	107.3	166.7	244.9	169.1					30- 40	202.3	854.0	90.9,90.9
50	20.06	30.73	48.14	30.70					40- 50	64.27	918.3	97.7,97.7
60	6.473	9.788	13.71	9.995					50- 60	16.36	934.7	99.5,99.5
70	0.0733	0.5508	2.469	0.5471					60- 70	4.778	939.4	100,100
80	0.0487	0.0366	0.0365	0.0427					70- 80	0.1851	939.6	100,100
90	0.0426	0.0366	0.0365	0.0305					80- 90	0.0415	939.7	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): 897.81 lm

%lum = 95.5%

%lamp = 95.5%

Conical surface Flux(120deg): 934.67 lm

%lum = 99.5%

%lamp = 99.5%

0 - 45 DEG Zonal Flux:897.81 %lum: 95.5%

0 - 60 DEG Zonal Flux:934.67 %lum: 99.5%

All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 7.1%

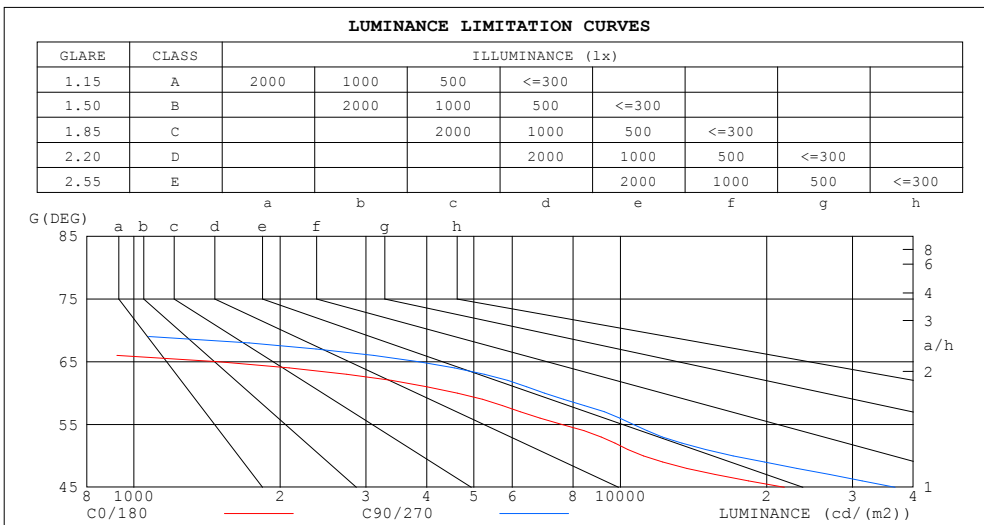
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 10.7%

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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	175	150
80	100	75
75	76	50
70	77	575
65	1499	3856
60	4626	6987
55	7598	10641
50	11153	17062
45	21749	36697

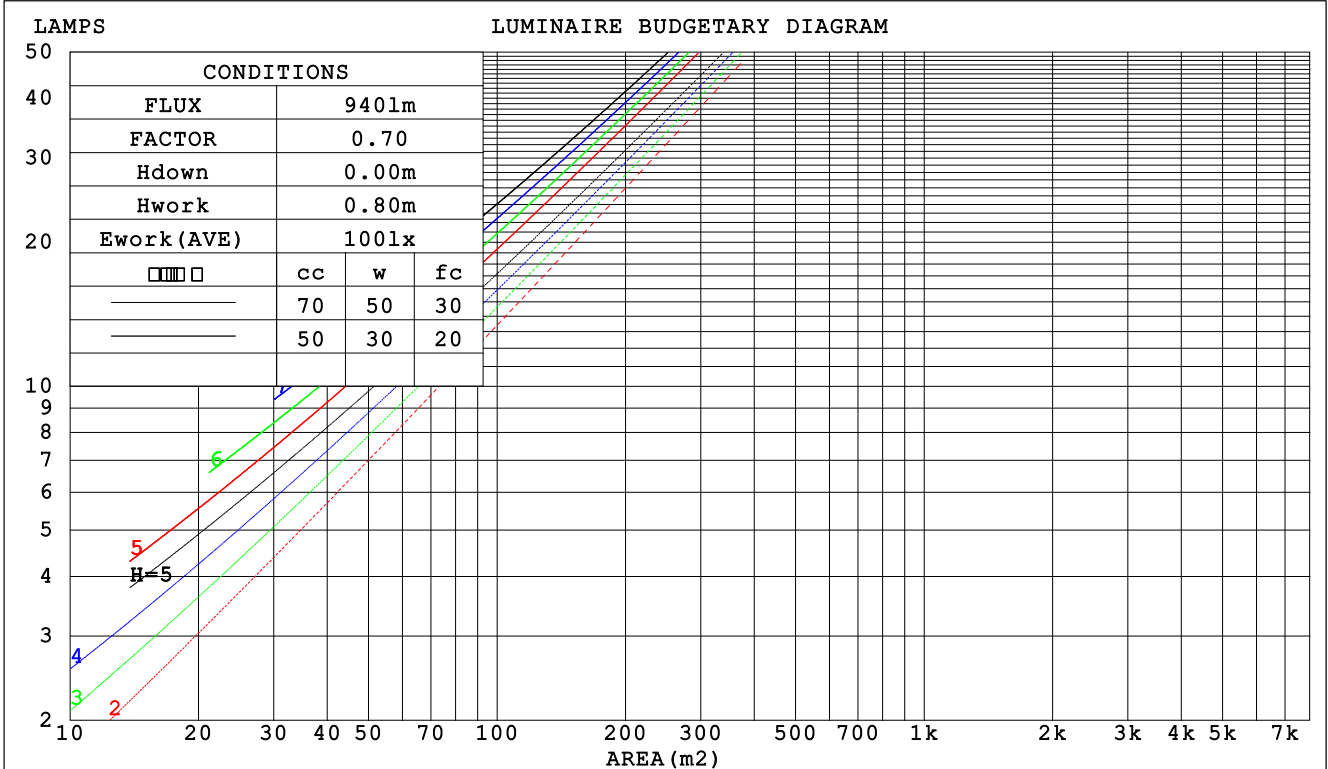
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	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	.87
3.0	.96	.90	.86	.94	.90	.86	.92	.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	.73	.80	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.67	.77	.71	.67	.76	.71	.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	.58	.56
9.0	.65	.59	.55	.64	.58	.55	.63	.58	.54	.62	.58	.54	.62	.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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	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	.161	.093	.030	.150	.086	.028	.139	.081	.026	
2.0	.174	.095	.029	.168	.093	.029	.158	.088	.027	.148	.083	.026	.139	.078	.025	
3.0	.166	.088	.026	.161	.086	.026	.152	.083	.025	.144	.079	.024	.136	.075	.023	
4.0	.159	.082	.024	.154	.081	.024	.147	.078	.023	.139	.075	.023	.132	.072	.022	
5.0	.151	.077	.022	.148	.076	.022	.141	.073	.022	.134	.071	.021	.128	.069	.021	
6.0	.145	.072	.021	.141	.071	.021	.135	.069	.020	.130	.067	.020	.124	.065	.019	
7.0	.138	.068	.019	.135	.067	.019	.130	.066	.019	.125	.064	.019	.120	.062	.018	
8.0	.132	.065	.018	.130	.064	.018	.125	.062	.018	.121	.061	.018	.116	.060	.017	
9.0	.127	.061	.017	.125	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016	
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	.144	.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	.070	.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	.097	.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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	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	19.9	20.8	21.0	20.9	21.9	21.1	22.1	22.2
3H	19.5	20.4	19.8	20.6	20.8	20.7	21.6	21.0	21.8	22.0
4H	19.4	20.3	19.7	20.5	20.7	20.6	21.5	20.9	21.7	21.9
6H	19.3	20.1	19.6	20.4	20.6	20.6	21.4	20.9	21.6	21.8
8H	19.3	20.0	19.6	20.3	20.6	20.5	21.3	20.8	21.5	21.8
12H	19.2	20.0	19.6	20.2	20.5	20.5	21.2	20.8	21.5	21.7
4H 2H	19.4	20.3	19.7	20.5	20.7	20.7	21.5	20.9	21.7	22.0
3H	19.3	20.0	19.6	20.3	20.5	20.5	21.2	20.8	21.5	21.8
4H	19.2	19.8	19.5	20.1	20.4	20.4	21.1	20.7	21.4	21.7
6H	19.1	19.7	19.5	20.0	20.3	20.3	20.9	20.7	21.2	21.6
8H	19.0	19.6	19.4	19.9	20.3	20.3	20.8	20.6	21.1	21.5
12H	19.0	19.5	19.4	19.8	20.2	20.2	20.7	20.6	21.1	21.5
8H 4H	19.0	19.6	19.4	19.9	20.3	20.3	20.8	20.6	21.1	21.5
6H	18.9	19.4	19.4	19.8	20.2	20.2	20.6	20.6	21.0	21.4
8H	18.9	19.3	19.3	19.7	20.1	20.1	20.5	20.5	20.9	21.3
12H	18.8	19.1	19.3	19.6	20.1	20.0	20.4	20.5	20.8	21.3
12H 4H	19.0	19.5	19.4	19.8	20.2	20.2	20.7	20.6	21.1	21.5
6H	18.9	19.3	19.3	19.7	20.1	20.1	20.5	20.5	20.9	21.3
8H	18.8	19.1	19.3	19.6	20.1	20.0	20.4	20.5	20.8	21.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / - 9.7					+ 3.6 / - 9.2				
1.5H	+ 5.1 / - 6.5					+ 5.7 / - 7.5				
2.0H	+ 4.7 / - 6.3					+ 6.2 / - 6.6				

CIE Pub.117, 939.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)
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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

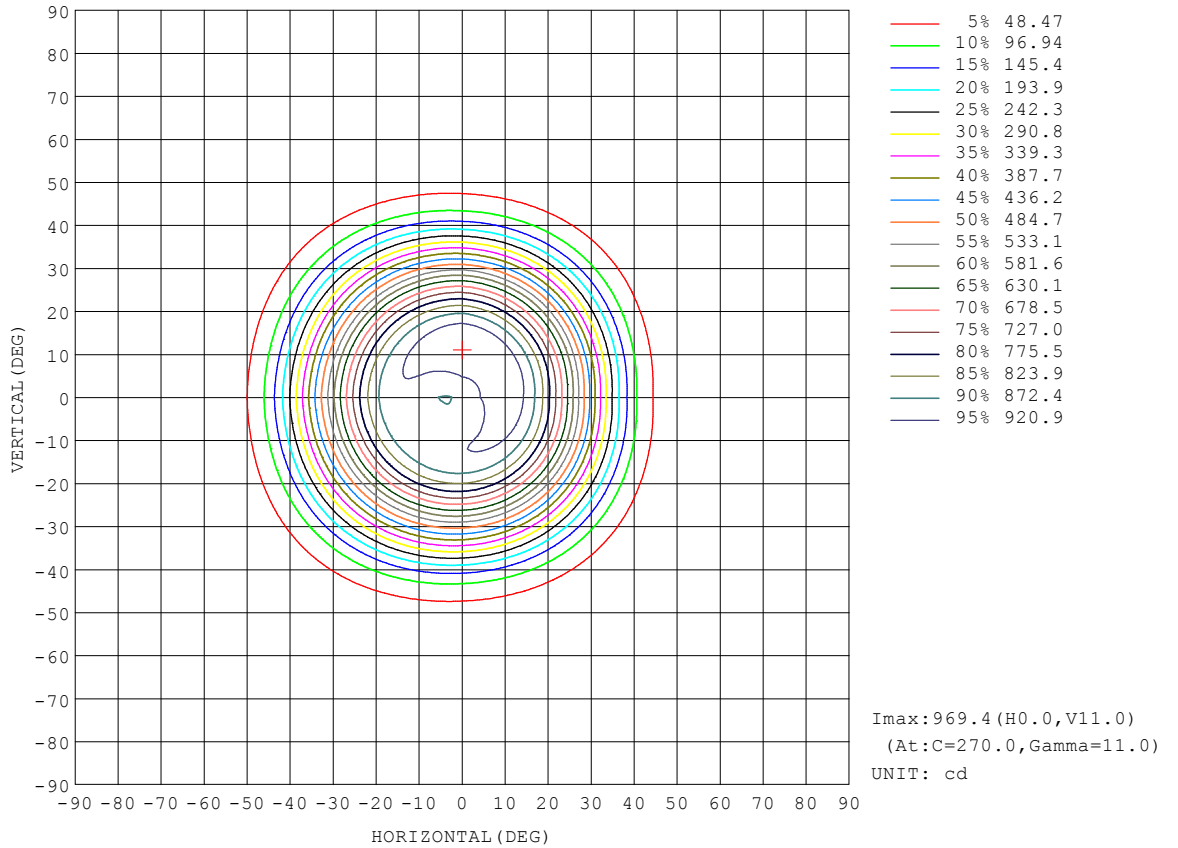
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	86	79	75	85	79	75	84	79	75	71
0.80	94	87	84	93	87	83	92	86	83	79
1.00	98	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	95	92	88
1.50	105	101	97	104	100	97	102	98	96	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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

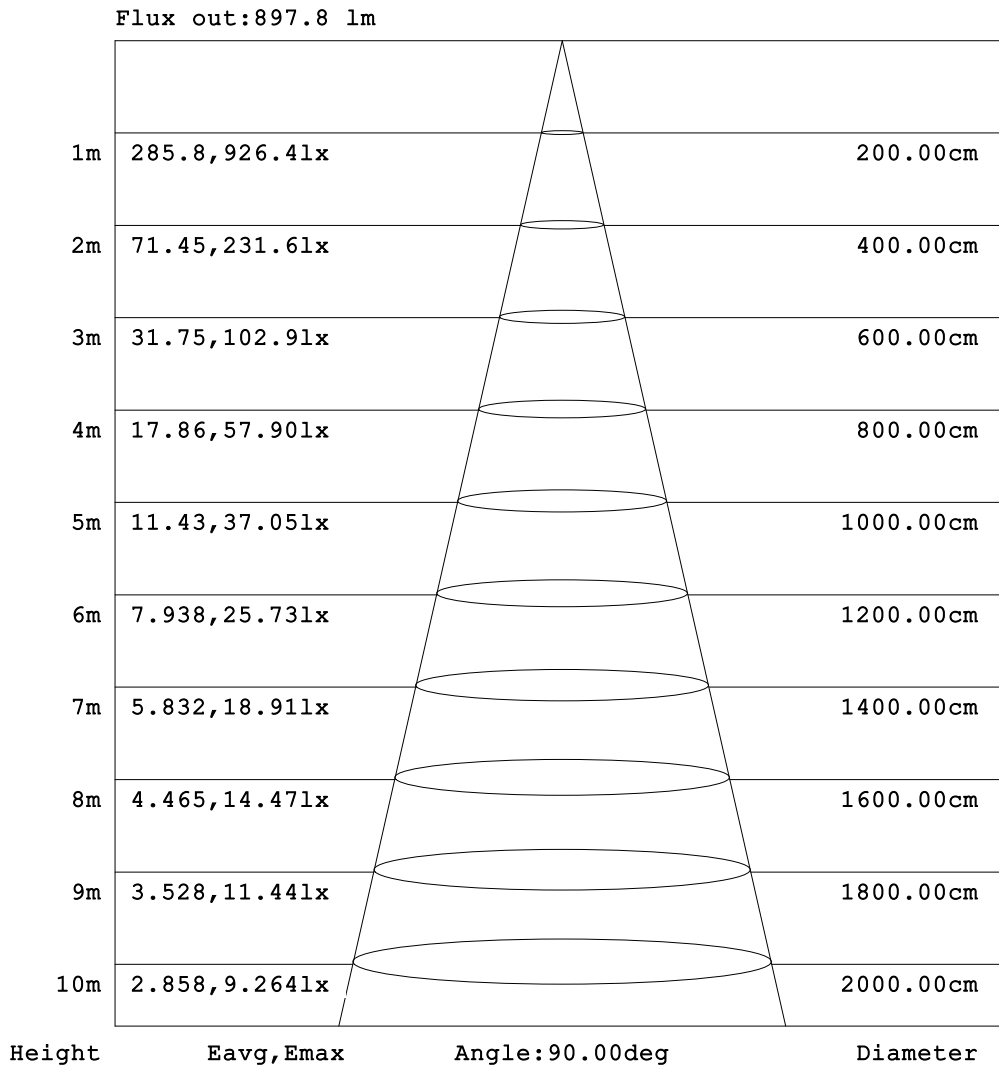


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-14

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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:



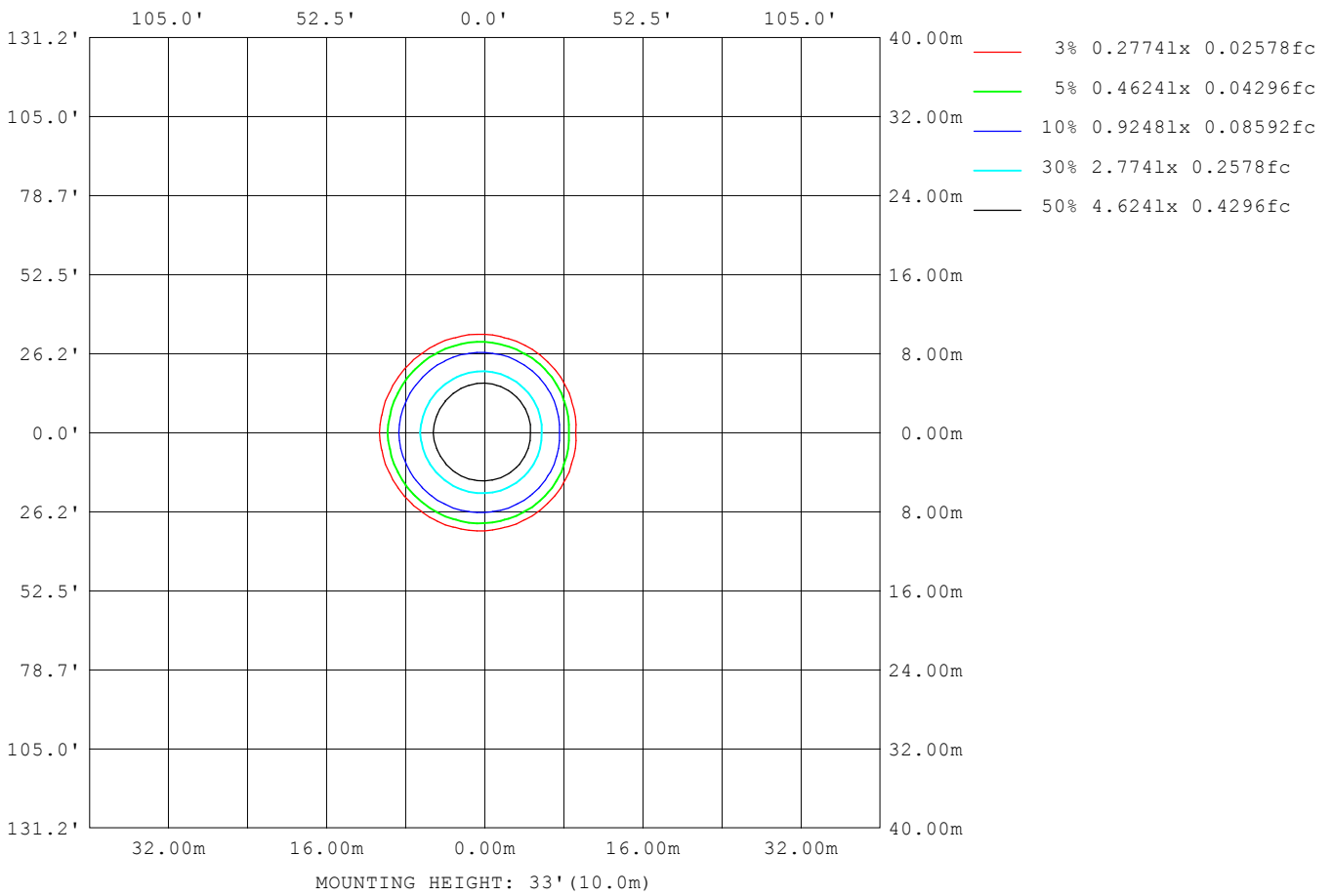
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	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:10.736W PF:0.9160 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:939.676x1 lm		
NAME: TL10W-CC-W 3000K	TYPE: 10W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.0028	Shielding Angle:

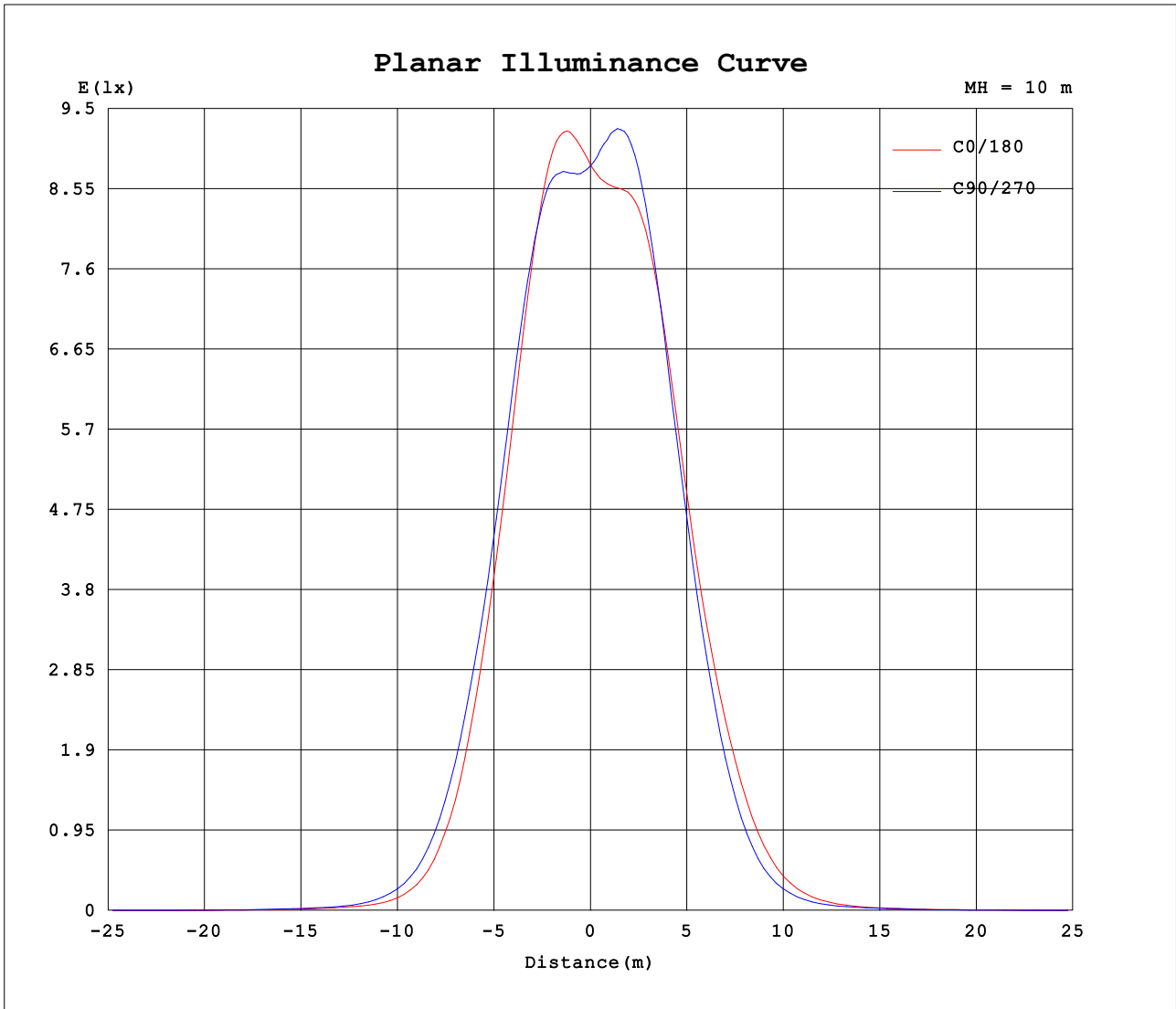
AvgL	cd/m2
L_0~180 (65) av	3922
L_0~180 (75) av	67
L_0~180 (85) av	162
L_90~270 (65) av	3911
L_90~270 (75) av	59
L_90~270 (85) av	150
L_45 (65) av	4067
L_45 (75) av	62
L_45 (85) av	154

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:

