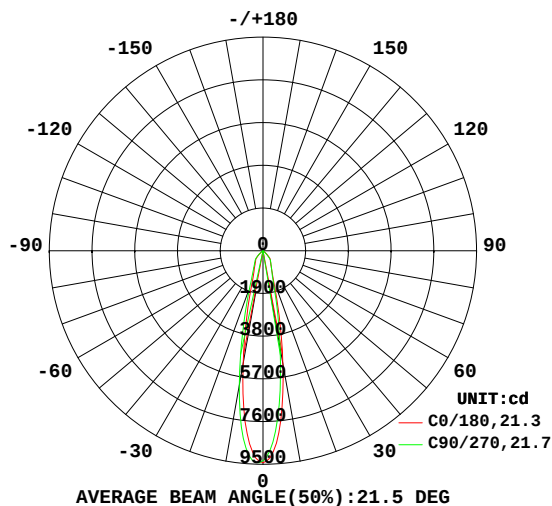


LUMINAIRE PHOTOMETRIC TEST REPORT

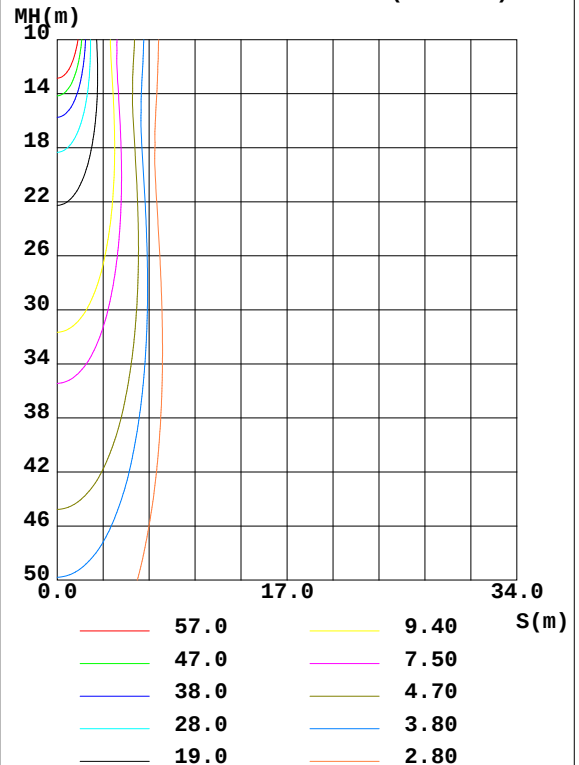
Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.31 lm/W			
MODEL	ML25171211 4000K	I _{max} (cd)	9459	S/MH(C0/180)	0.36
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2611.4	η UP, DN(C0-180)	0.0, 46.4
NOMINAL FLUX(lm)	2611.42	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 53.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

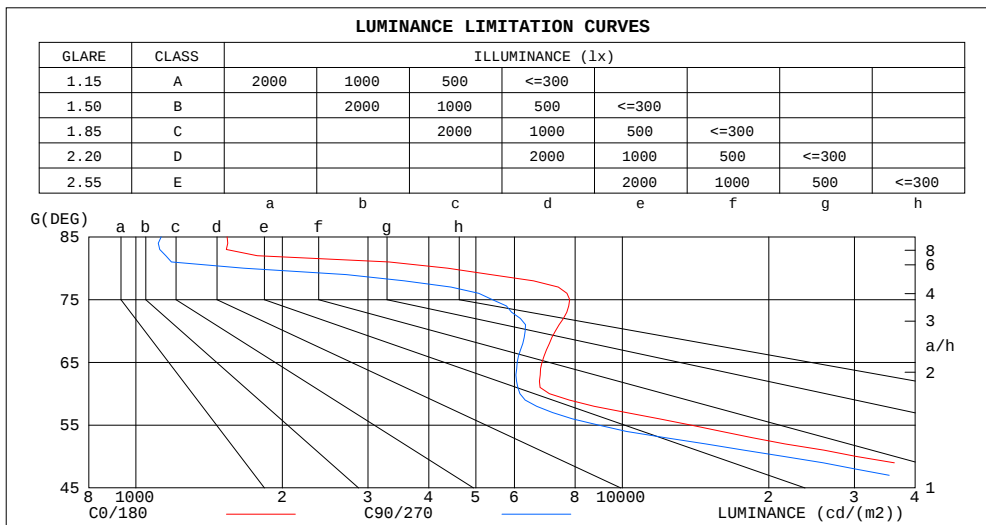
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5119	4616	4412	4574	5119	5852	6089	5702	0- 10	677.5	677.5	25.9, 25.9
20	1340	1285	1269	1272	1348	1586	1710	1532	10- 20	761.6	1439	55.1, 55.1
30	711.3	708.9	722.6	717.8	719.1	770.3	809.2	755.2	20- 30	452.4	1892	72.4, 72.4
40	499.8	489.4	460.3	500.4	500.2	512.8	538.7	527.3	30- 40	380.4	2272	87, 87
50	137.7	120.4	97.76	120.0	134.1	156.7	174.8	161.8	40- 50	248.6	2520	96.5, 96.5
60	25.10	22.59	21.83	23.53	24.01	25.71	28.97	27.09	50- 60	56.44	2577	98.7, 98.7
70	17.66	17.60	15.31	16.91	16.80	17.53	17.10	18.24	60- 70	19.89	2597	99.4, 99.4
80	5.386	3.485	2.052	2.951	4.305	6.084	6.775	6.618	70- 80	13.08	2610	99.9, 99.9
90	0.3474	0.3513	0.3667	0.3590	0.1390	0.6022	0.8068	0.6022	80- 90	1.562	2611	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		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-04-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1541	1127
80	4375	1666
75	7791	5403
70	7284	6313
65	6837	6077
60	7081	6158
55	13826	8925
50	30225	21451
45	66029	47310

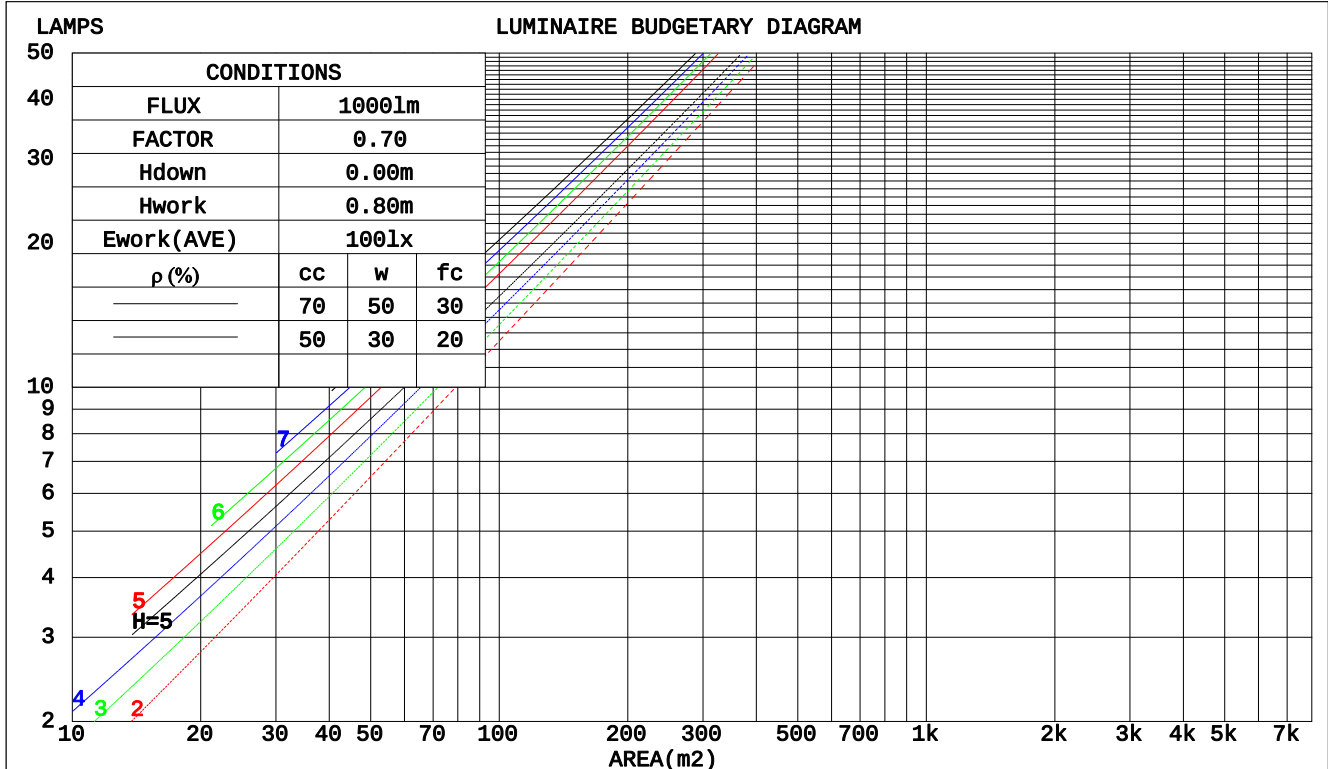
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.92	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.78	.85	.80	.77	.83	.79	.76	.81	.78	.76	.74
6.0	.83	.77	.73	.82	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.72	.70
7.0	.79	.73	.70	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.67
8.0	.75	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.64
9.0	.72	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.63	.61
10.0	.69	.64	.61	.69	.64	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.59



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-04-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm					
NAME: DL3503-WHTC30C02			TYPE:		WEIGHT:
SPEC.: white RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 95mm		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	.169	.096	.030	.162	.093	.029	.150	.086	.027	.138	.080	.026	.128	.074	.024	
2.0	.161	.088	.027	.155	.085	.026	.145	.080	.025	.135	.076	.024	.126	.071	.022	
3.0	.152	.081	.024	.147	.079	.024	.138	.075	.023	.130	.071	.022	.122	.068	.021	
4.0	.144	.075	.022	.140	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020	
5.0	.136	.069	.020	.132	.068	.020	.126	.066	.019	.120	.063	.019	.114	.061	.018	
6.0	.129	.065	.019	.126	.064	.018	.120	.062	.018	.115	.060	.018	.110	.058	.017	
7.0	.122	.061	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.114	.056	.016	.110	.055	.016	.105	.053	.015	.101	.052	.015	
9.0	.111	.054	.015	.109	.053	.015	.105	.052	.015	.101	.051	.015	.098	.050	.014	
10.0	.106	.051	.014	.104	.050	.014	.101	.049	.014	.097	.048	.014	.094	.047	.014	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.100	.063	.038	.086	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.090	.053	.029	.078	.046	.025	.054	.033	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-04-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm											
NAME: DL3503-WHTC30C02					TYPE:			WEIGHT:			
SPEC.: white RA90 3000K+5700K					DIM.:			SERIAL No.:			
MFR.:					SUR.: 95mm			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	17.5	18.4	17.8	18.6	18.7	17.3	18.1	17.5	18.3	18.5	
	3H	17.5	18.3	17.8	18.5	18.7	17.2	18.0	17.5	18.2	18.4
	4H	17.5	18.3	17.8	18.5	18.7	17.2	17.9	17.5	18.2	18.4
	6H	17.5	18.2	17.8	18.4	18.7	17.1	17.8	17.4	18.1	18.3
	8H	17.4	18.1	17.7	18.4	18.6	17.1	17.8	17.4	18.0	18.3
	12H	17.4	18.1	17.7	18.3	18.6	17.0	17.7	17.3	18.0	18.2
4H	2H	17.4	18.1	17.6	18.3	18.5	17.1	17.8	17.3	18.0	18.3
	3H	17.4	18.0	17.7	18.3	18.6	17.1	17.7	17.4	18.0	18.3
	4H	17.4	18.0	17.8	18.3	18.6	17.1	17.7	17.4	18.0	18.3
	6H	17.4	17.9	17.8	18.3	18.6	17.0	17.5	17.4	17.9	18.2
	8H	17.4	17.9	17.8	18.2	18.6	17.0	17.5	17.3	17.8	18.2
	12H	17.3	17.8	17.7	18.1	18.5	16.9	17.4	17.3	17.7	18.1
8H	4H	17.3	17.8	17.7	18.2	18.5	17.0	17.5	17.4	17.8	18.2
	6H	17.3	17.7	17.8	18.1	18.5	16.9	17.3	17.4	17.7	18.1
	8H	17.3	17.6	17.7	18.1	18.5	16.9	17.2	17.3	17.7	18.1
	12H	17.2	17.5	17.7	18.0	18.4	16.8	17.1	17.3	17.6	18.0
12H	4H	17.3	17.7	17.7	18.1	18.5	16.9	17.4	17.4	17.8	18.2
	6H	17.3	17.6	17.7	18.1	18.5	16.9	17.2	17.3	17.7	18.1
	8H	17.2	17.5	17.7	18.0	18.4	16.8	17.1	17.3	17.6	18.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.5 / - 5.6					+ 2.5 / - 6.8					
1.5H	+ 2.8 / - 5.8					+ 3.2 / - 6.0					
2.0H	+ 6.1 / - 4.7					+ 5.8 / - 4.7					

CIE Pub.117, 2611 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.3)
Area: 0.00709 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

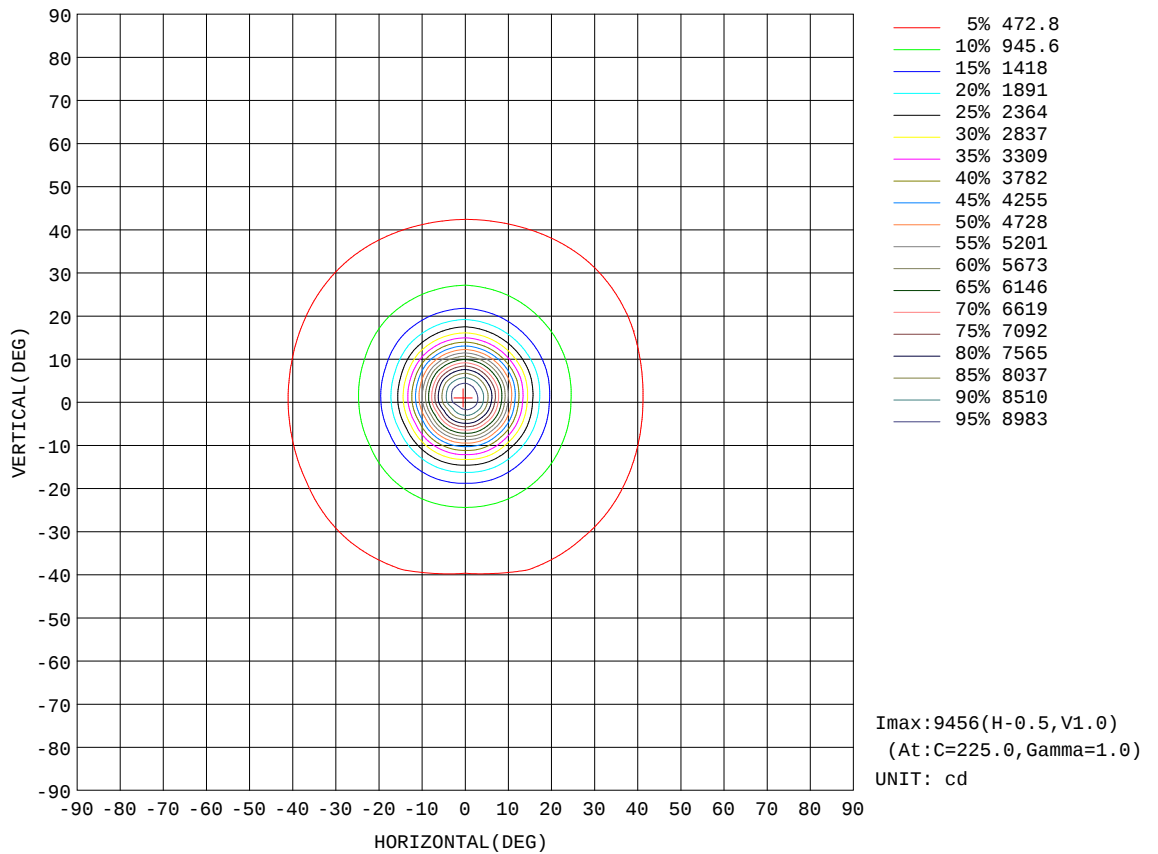
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	76	72	68
0.80	91	85	81	91	85	81	89	84	80	76
1.00	97	91	86	96	90	86	94	90	86	81
1.25	101	95	92	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-04-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

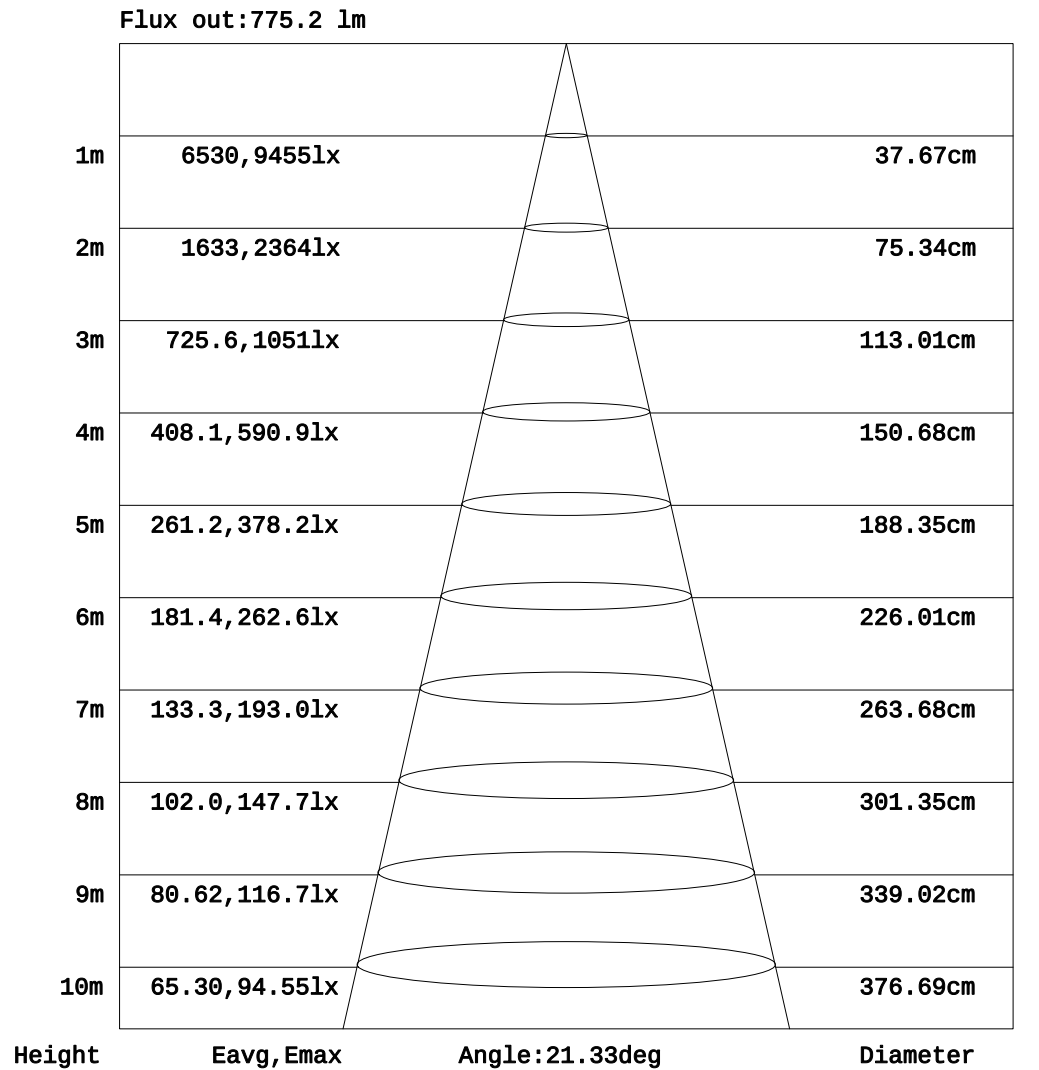


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:



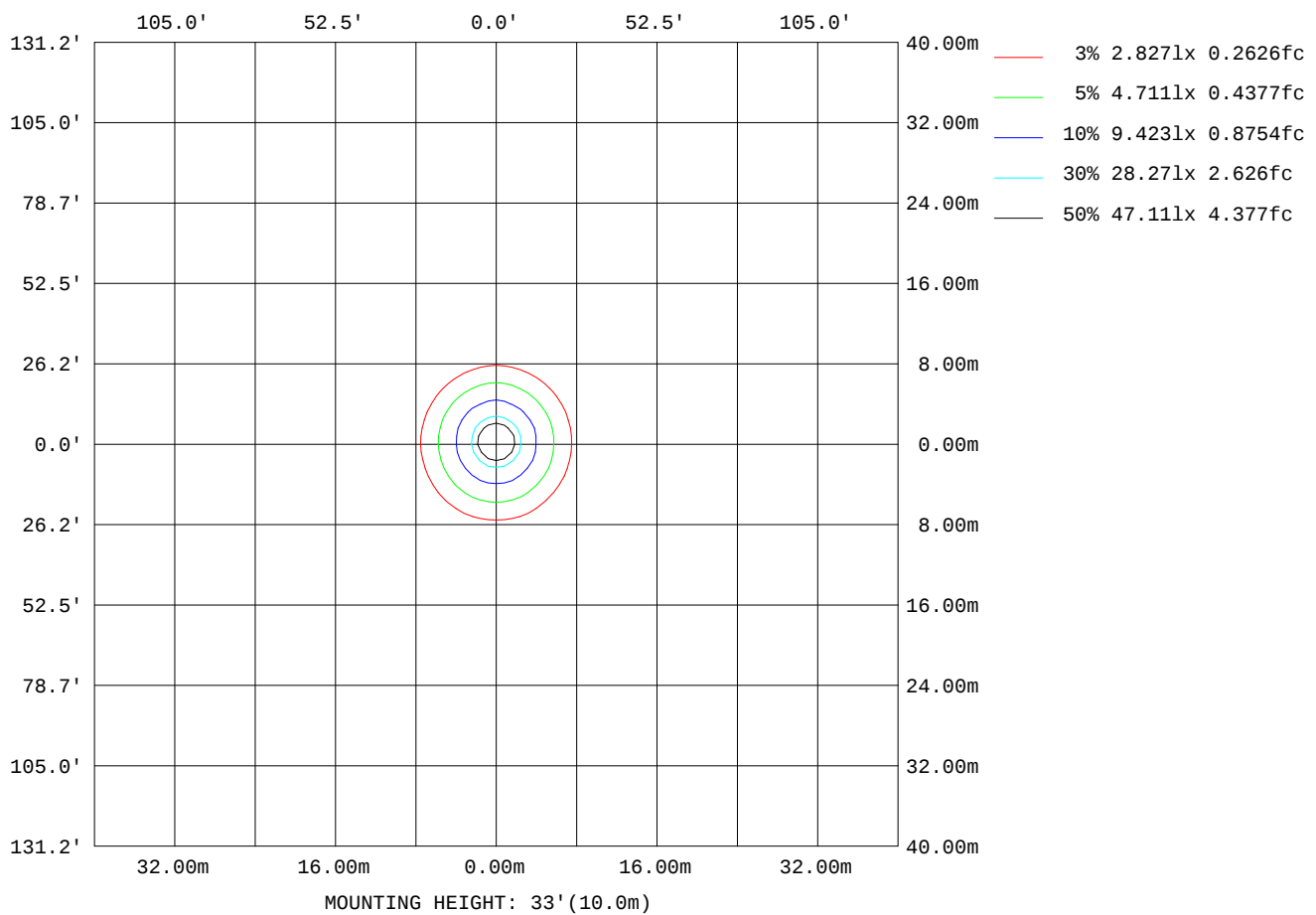
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.50V I:0.1188A P:25.524W PF:0.9320 Freq:49.99Hz Lamp Flux:2611.42x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

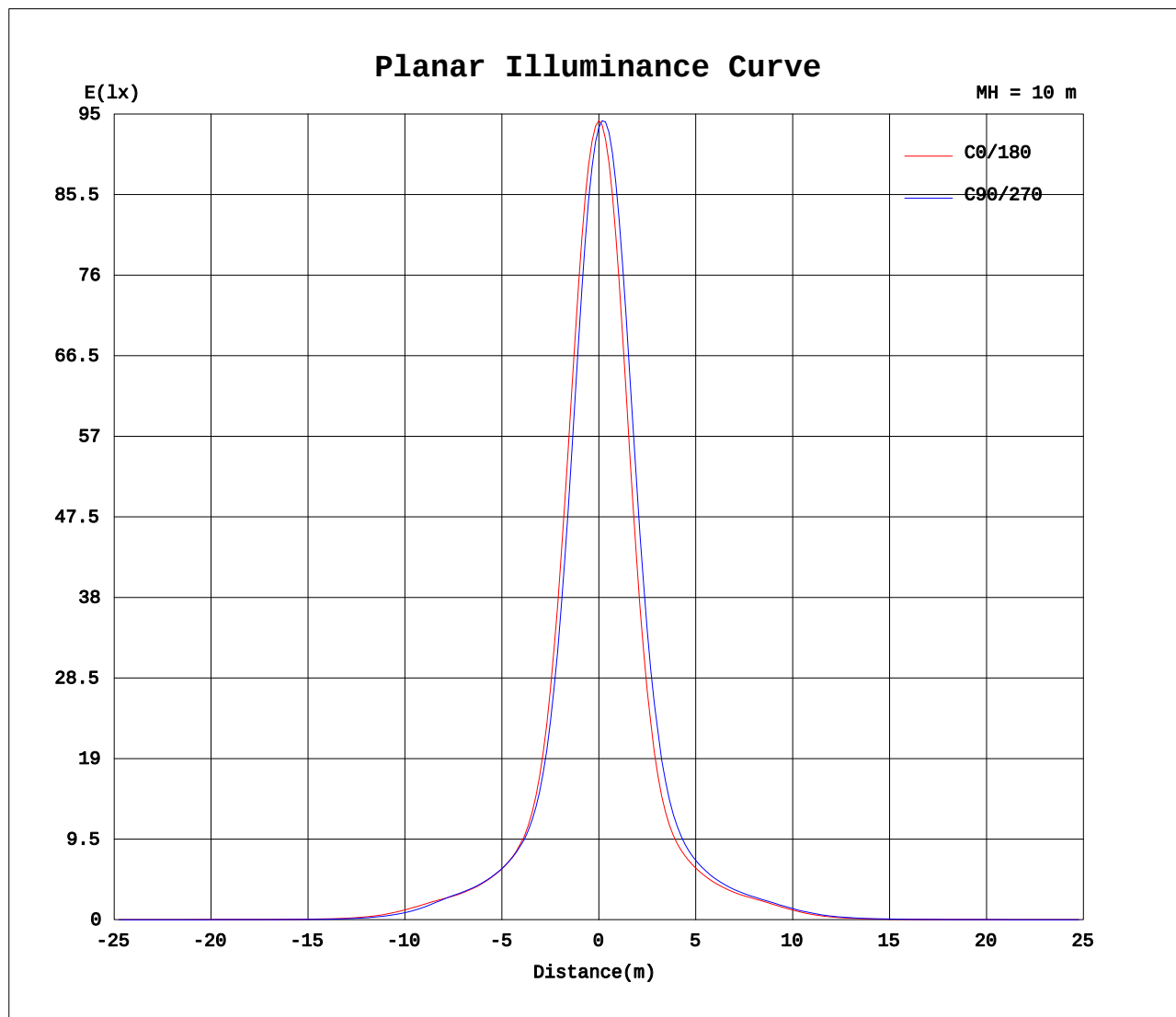
AvgL	cd/m2
L_0~180(65)av	6693
L_0~180(75)av	7423
L_0~180(85)av	1393
L_90~270(65)av	6362
L_90~270(75)av	6377
L_90~270(85)av	1923
L_45(65)av	6607
L_45(75)av	7466
L_45(85)av	1771

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-04-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-04-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```