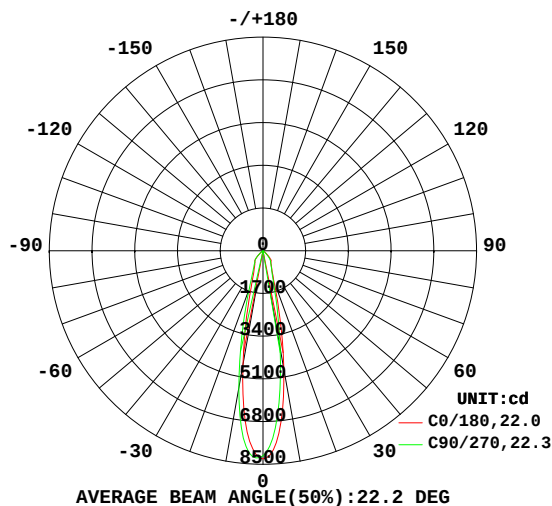


LUMINAIRE PHOTOMETRIC TEST REPORT

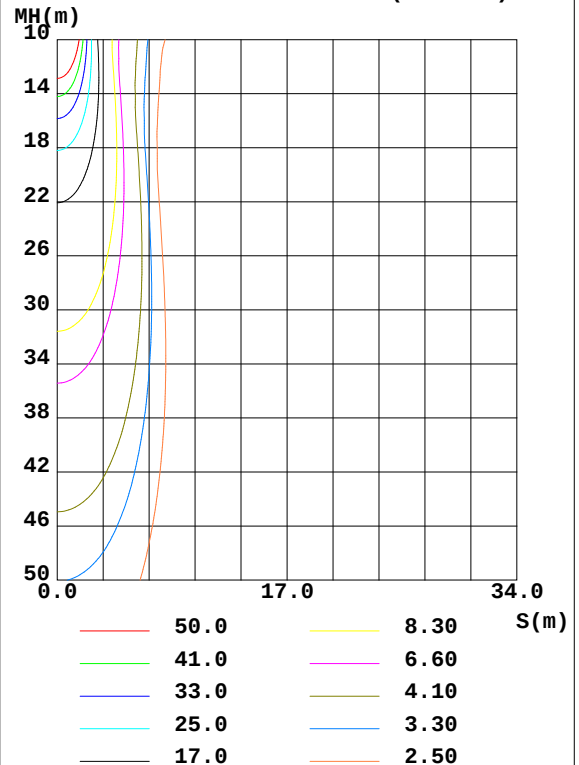
Test:U:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.86 lm/W			
MODEL	ML25171211 3000K	I _{max} (cd)	8282	S/MH(C0/180)	0.37
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2393.7	η UP, DN(C0-180)	0.0, 46.2
NOMINAL FLUX(lm)	2393.72	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 53.8
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:

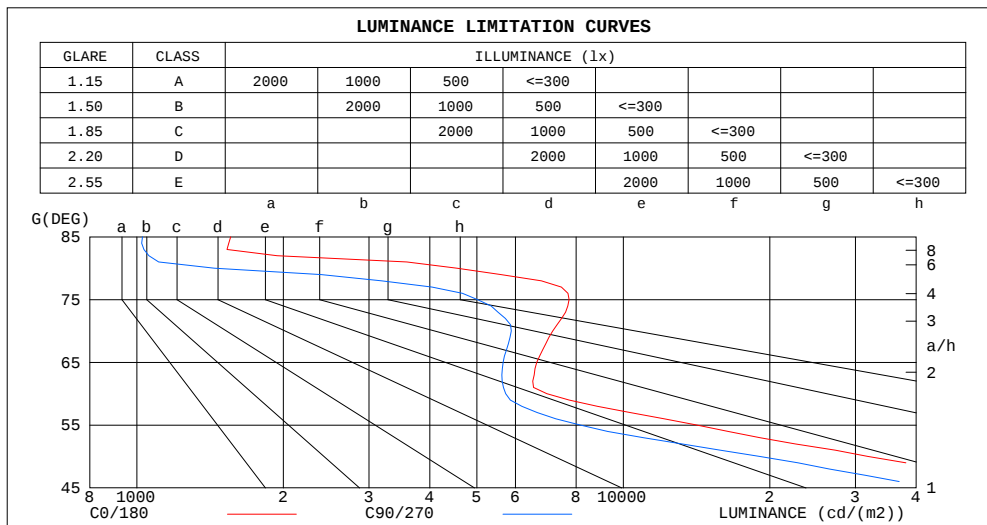
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4772	4180	3942	4118	4613	5304	5549	5235	0- 10	604.9	604.9	25.3, 25.3
20	1264	1178	1144	1154	1230	1471	1595	1424	10- 20	700.5	1305	54.5, 54.5
30	663.3	634.8	639.9	657.0	666.4	697.1	731.6	694.9	20- 30	412.8	1718	71.8, 71.8
40	505.6	443.5	411.9	497.0	505.8	465.4	485.5	522.4	30- 40	351.8	2070	86.5, 86.5
50	145.0	111.1	86.84	117.6	133.5	142.2	160.9	165.7	40- 50	236.7	2307	96.4, 96.4
60	24.69	21.16	20.31	22.31	22.72	24.11	27.38	26.34	50- 60	54.11	2361	98.6, 98.6
70	17.36	16.46	14.27	16.30	16.43	16.47	16.04	17.63	60- 70	18.89	2380	99.4, 99.4
80	5.599	3.272	1.776	2.734	3.998	5.710	6.558	6.644	70- 80	12.50	2392	99.9, 99.9
90	0.3436	0.3127	0.3127	0.3590	0.1313	0.5405	0.7412	0.5482	80- 90	1.496	2394	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
 γ 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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 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	1559	1027
80	4548	1443
75	7737	5011
70	7158	5883
65	6640	5661
60	6964	5729
55	14157	8154
50	31813	19055
45	67437	42648

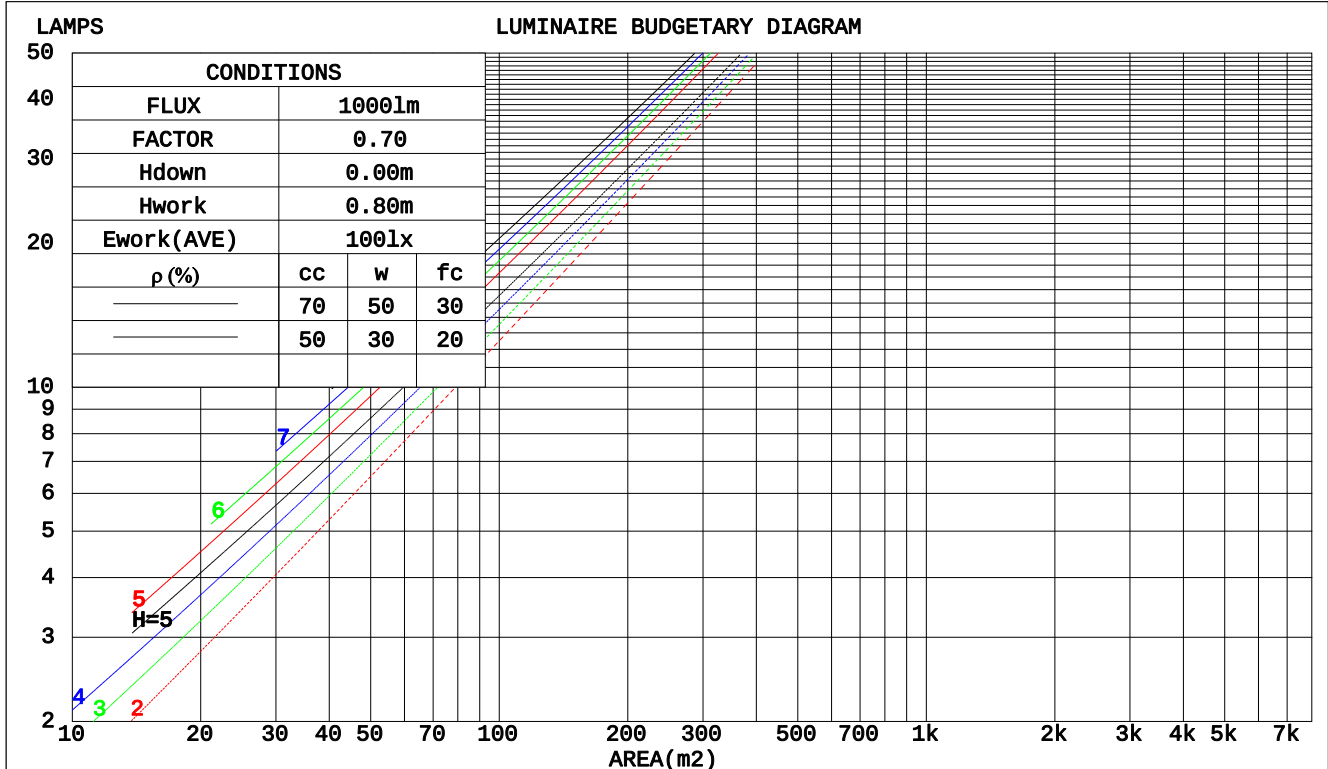
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-04-15

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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.88	.94	.90	.87	.91	.88	.86	.89	.87	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.82	.77	.73	.80	.76	.72	.79	.75	.72	.78	.74	.71	.70
7.0	.78	.73	.69	.78	.73	.69	.77	.72	.69	.75	.71	.68	.74	.71	.68	.67
8.0	.75	.69	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.71	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58



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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.170	.097	.031	.164	.093	.030	.151	.087	.028	.139	.080	.026	.129	.075	.024		
2.0	.162	.089	.027	.157	.086	.027	.146	.081	.025	.136	.076	.024	.127	.072	.023		
3.0	.153	.082	.024	.149	.080	.024	.140	.076	.023	.131	.072	.022	.124	.068	.021		
4.0	.145	.075	.022	.141	.074	.022	.133	.071	.021	.126	.068	.020	.119	.065	.020		
5.0	.137	.070	.020	.134	.069	.020	.127	.066	.019	.121	.064	.019	.115	.061	.018		
6.0	.130	.065	.019	.127	.064	.018	.121	.062	.018	.116	.060	.018	.111	.058	.017		
7.0	.124	.061	.017	.121	.060	.017	.116	.059	.017	.111	.057	.017	.106	.055	.016		
8.0	.118	.057	.016	.115	.057	.016	.111	.055	.016	.106	.054	.016	.102	.053	.015		
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014		
10.0	.107	.051	.014	.105	.051	.014	.101	.050	.014	.098	.049	.014	.095	.048	.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	.145	.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	.084	.068	.055	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.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	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 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	17.9	18.7	18.1	18.9	19.1	17.1	17.9	17.3	18.1	18.3	
	3H	17.8	18.6	18.1	18.8	19.0	17.0	17.8	17.3	18.0	18.2
	4H	17.8	18.6	18.1	18.8	19.0	17.0	17.8	17.3	18.0	18.2
	6H	17.8	18.5	18.1	18.8	19.0	16.9	17.6	17.2	17.9	18.1
	8H	17.8	18.5	18.1	18.7	19.0	16.9	17.6	17.2	17.8	18.1
	12H	17.7	18.4	18.0	18.7	18.9	16.8	17.5	17.2	17.8	18.0
4H	2H	17.7	18.4	17.9	18.6	18.9	16.9	17.6	17.1	17.9	18.1
	3H	17.7	18.3	18.0	18.6	18.9	16.9	17.5	17.2	17.8	18.1
	4H	17.7	18.3	18.1	18.6	18.9	16.9	17.5	17.2	17.8	18.1
	6H	17.7	18.3	18.1	18.6	18.9	16.8	17.4	17.2	17.7	18.0
	8H	17.7	18.2	18.1	18.5	18.9	16.8	17.3	17.2	17.6	18.0
	12H	17.6	18.1	18.0	18.5	18.8	16.7	17.2	17.1	17.6	17.9
8H	4H	17.6	18.1	18.0	18.5	18.9	16.8	17.3	17.2	17.7	18.0
	6H	17.6	18.1	18.1	18.4	18.9	16.8	17.2	17.2	17.6	18.0
	8H	17.6	18.0	18.0	18.4	18.8	16.7	17.1	17.2	17.5	17.9
	12H	17.5	17.9	18.0	18.3	18.8	16.7	17.0	17.1	17.4	17.9
12H	4H	17.6	18.0	18.0	18.4	18.8	16.8	17.2	17.2	17.6	18.0
	6H	17.6	18.0	18.0	18.4	18.8	16.7	17.1	17.2	17.5	17.9
	8H	17.5	17.9	18.0	18.3	18.8	16.7	17.0	17.1	17.4	17.9
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.4 / - 5.5					+ 2.6 / - 6.6					
1.5H	+ 2.7 / - 5.8					+ 3.2 / - 5.7					
2.0H	+ 6.3 / - 4.8					+ 5.7 / - 4.5					

CIE Pub.117, 2394 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.0)
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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

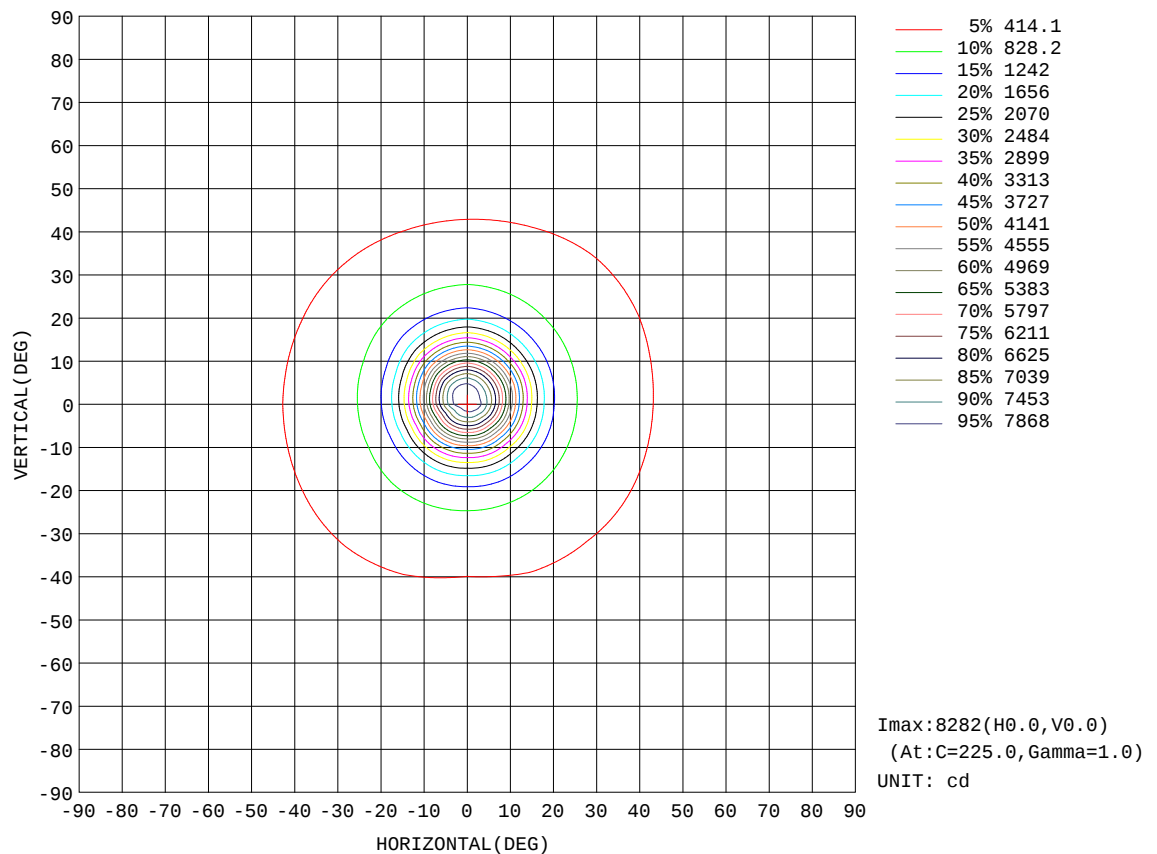
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	82	76	72	82	75	71	67
0.80	91	85	80	90	84	80	89	84	80	76
1.00	96	90	86	96	90	86	94	90	85	81
1.25	101	95	91	100	95	91	98	93	90	86
1.50	104	99	95	103	98	95	100	97	93	89
2.00	107	103	99	106	102	98	103	100	97	92
2.50	109	105	102	107	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	103	96
5.00	114	112	110	112	110	108	108	106	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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

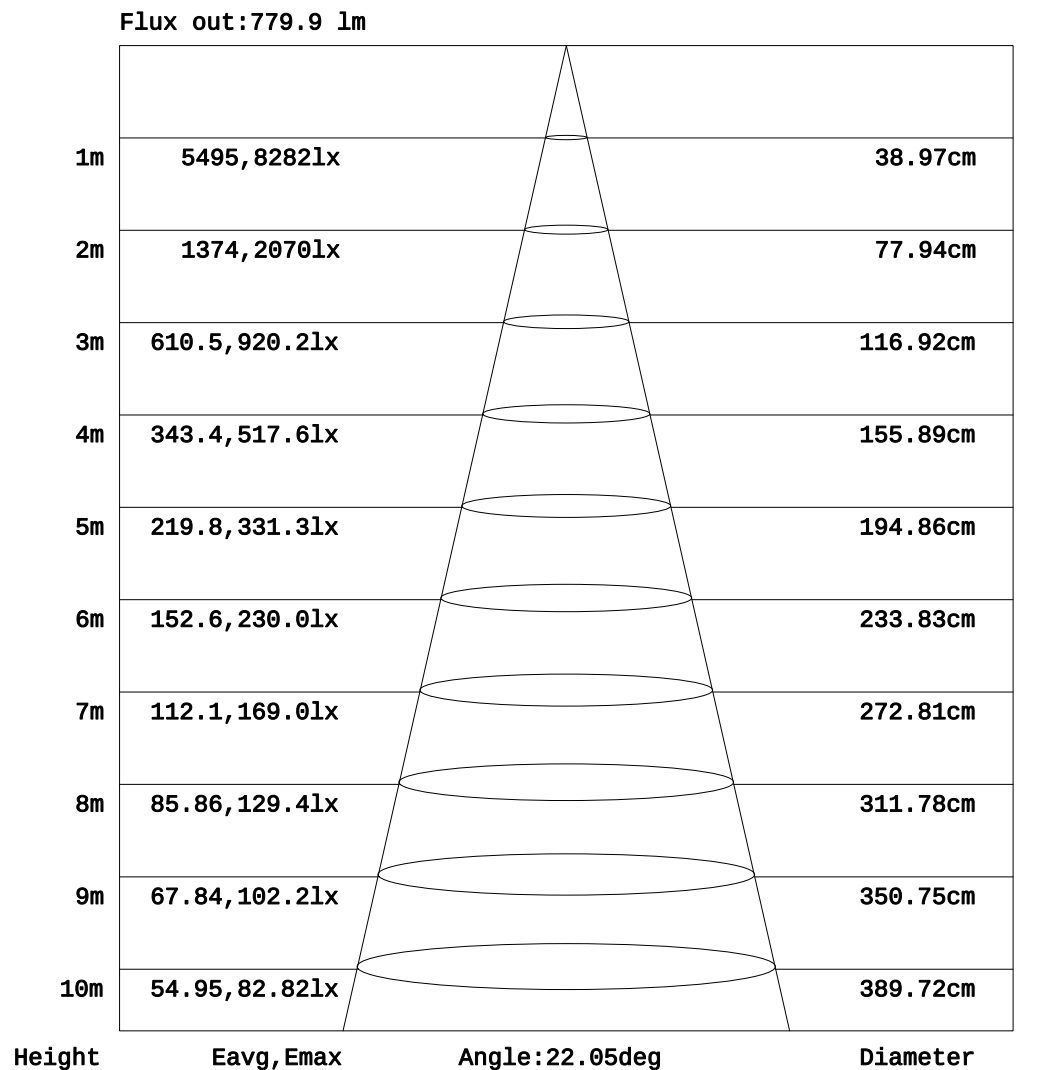


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-04-15

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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:



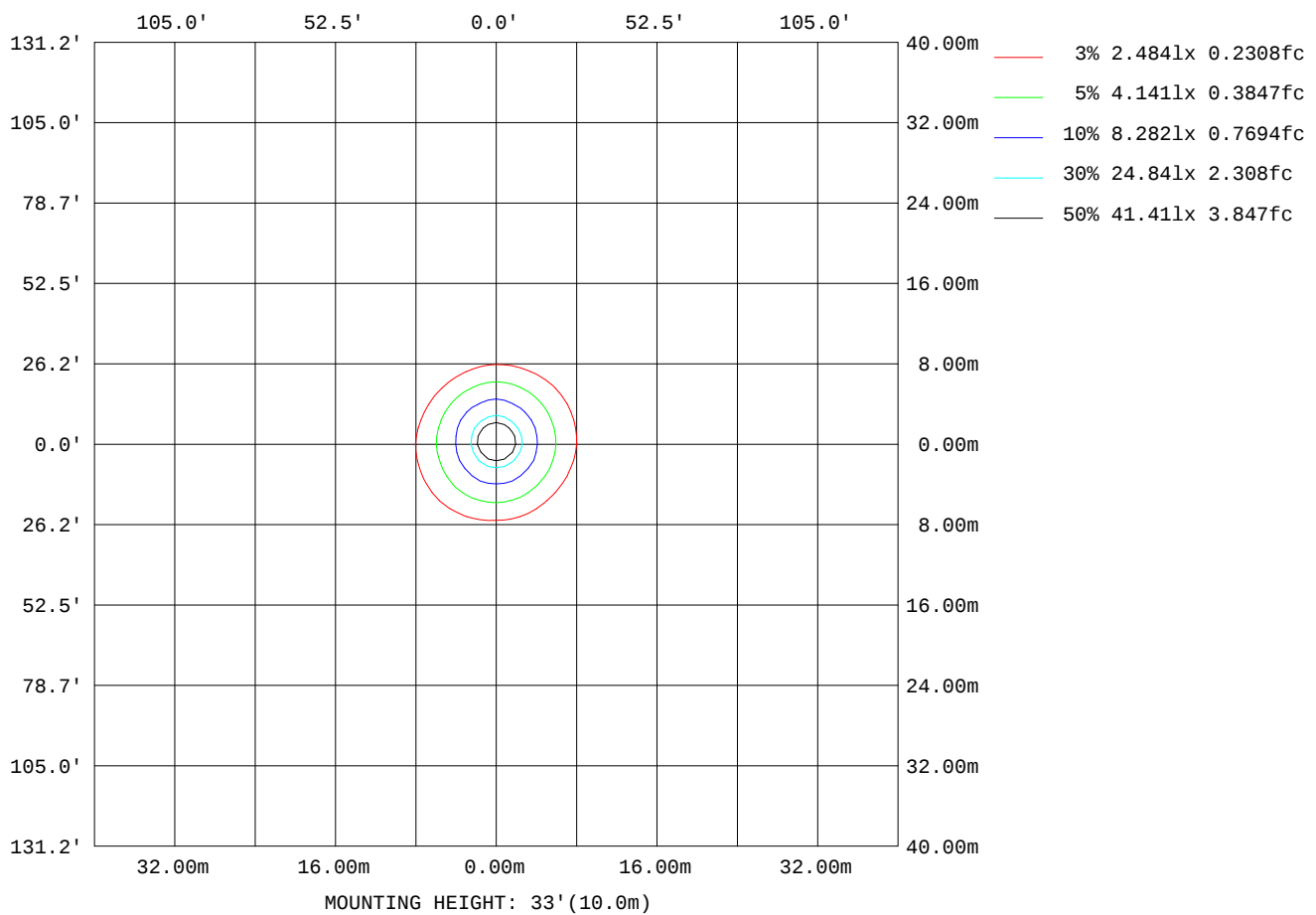
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 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:230.52V I:0.1230A P:26.637W PF:0.9393 Freq:49.99Hz Lamp Flux:2393.72x1 lm		
NAME: DL3503-WHTC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 95mm	Shielding Angle:

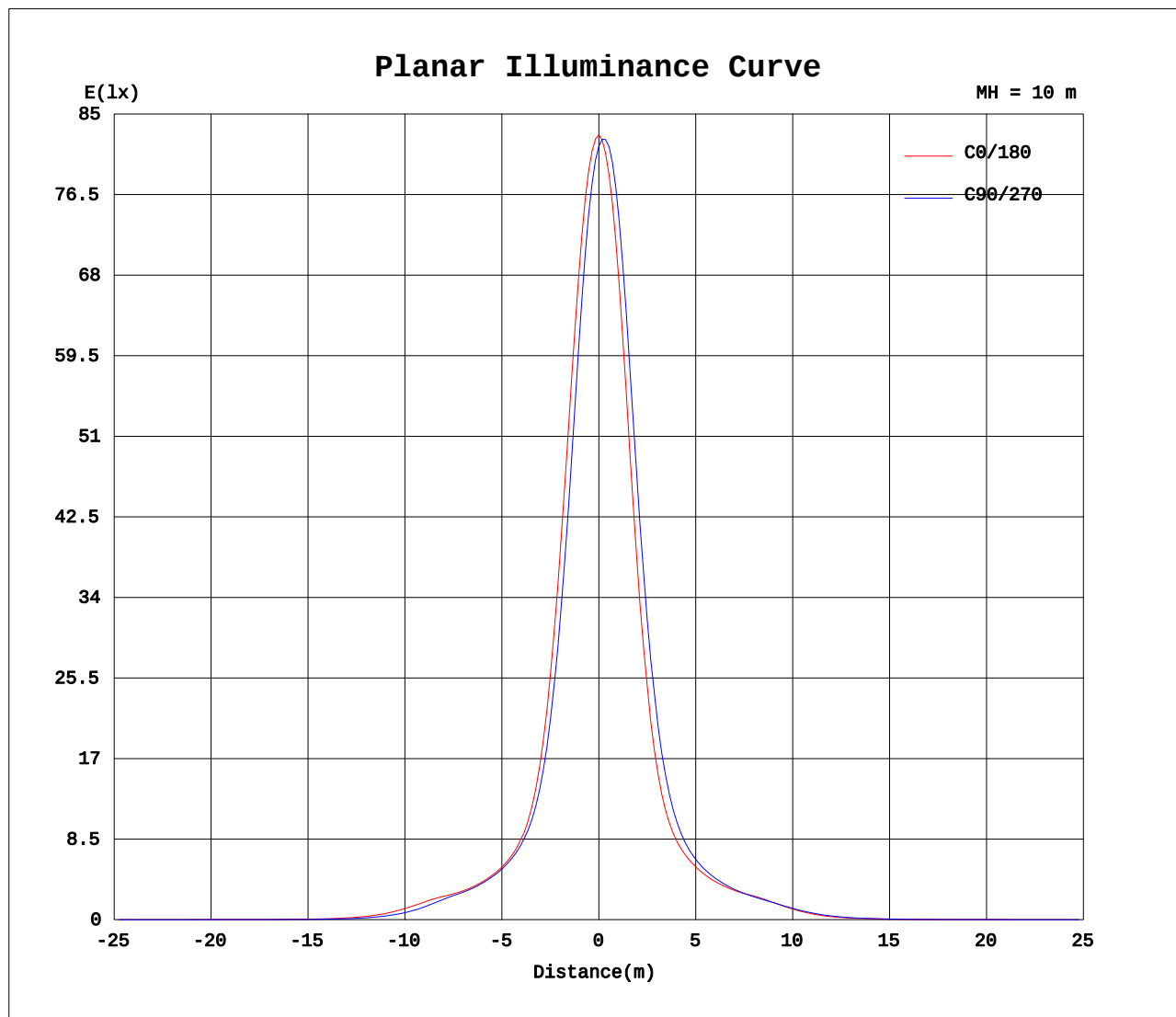
AvgL	cd/m2
L_0~180(65)av	6487
L_0~180(75)av	7295
L_0~180(85)av	1371
L_90~270(65)av	5953
L_90~270(75)av	5977
L_90~270(85)av	1789
L_45(65)av	6260
L_45(75)av	7120
L_45(85)av	1672

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:

```