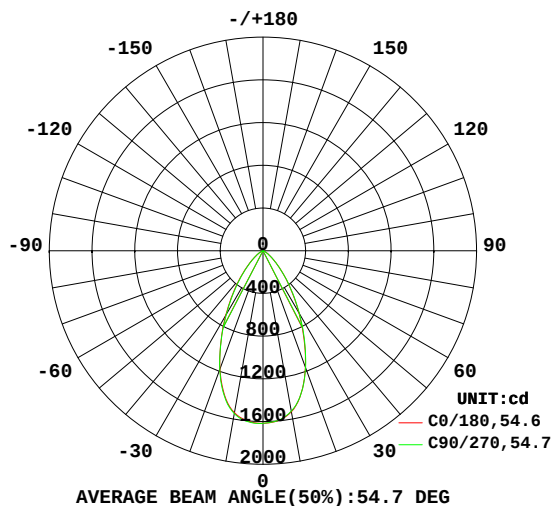


LUMINAIRE PHOTOMETRIC TEST REPORT

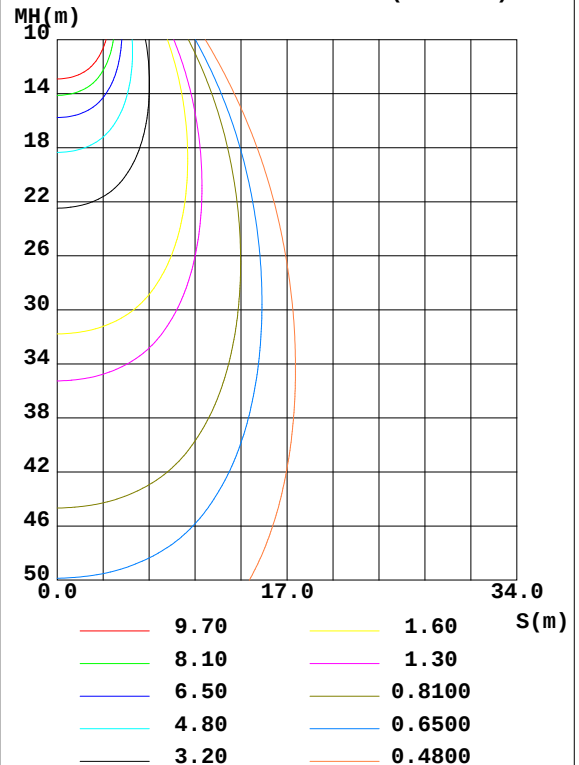
Test:U:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.57 lm/W			
MODEL	2835 48 4000K	I _{max} (cd)	1618	S/MH(C0/180)	0.85
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.85
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1528.5	η UP, DN(C0-180)	0.0, 49.8
NOMINAL FLUX(lm)	1528.5	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.85

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:2024-07-10

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:

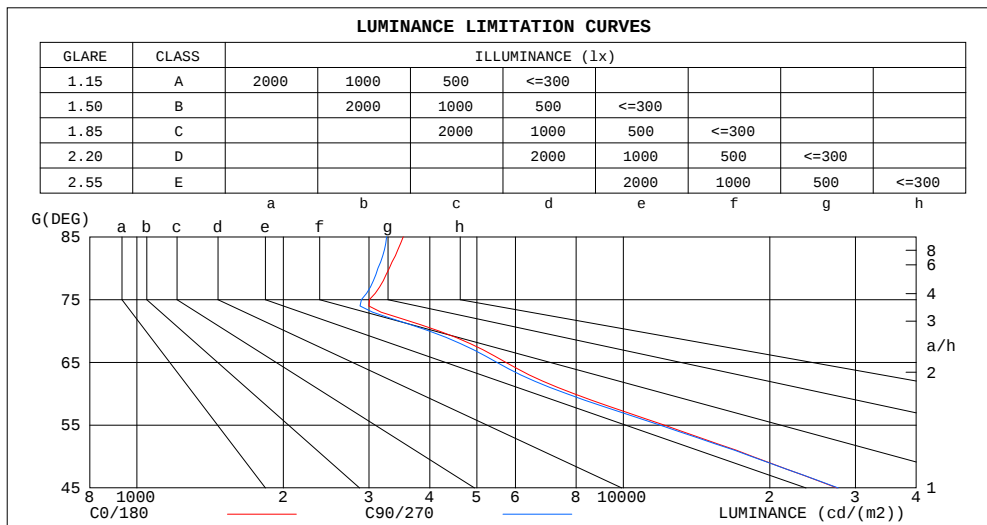
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1532	1529	1526	1530	1541	1549	1549	1541	0- 10	150.8	150.8	9.87,9.87
20	1161	1166	1166	1159	1179	1184	1184	1177	10- 20	385.3	536.1	35.1,35.1
30	675.2	683.6	684.2	682.2	698.2	691.1	686.7	689.1	20- 30	420.9	957.0	62.6,62.6
40	320.2	323.3	323.6	324.7	333.3	326.3	322.5	325.7	30- 40	304.6	1262	82.5,82.5
50	123.0	122.9	122.4	124.4	127.4	124.3	123.1	124.7	40- 50	161.6	1423	93.1,93.1
60	41.12	40.23	39.72	40.48	41.11	40.83	41.06	41.73	50- 60	67.16	1490	97.5,97.5
70	14.84	14.45	14.16	14.29	14.79	15.02	15.27	15.40	60- 70	25.48	1516	99.2,99.2
80	5.958	5.800	5.649	5.618	5.738	5.843	5.951	6.039	70- 80	9.330	1525	99.8,99.8
90	0.2509	0.2393	0.2355	0.2393	0.0695	0.0695	0.0695	0.0772	80- 90	3.264	1528	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:2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3529	3260
80	3302	3131
75	3007	2895
70	4175	3985
65	5730	5490
60	7914	7647
55	12136	11891
50	18424	18324
45	27495	27645

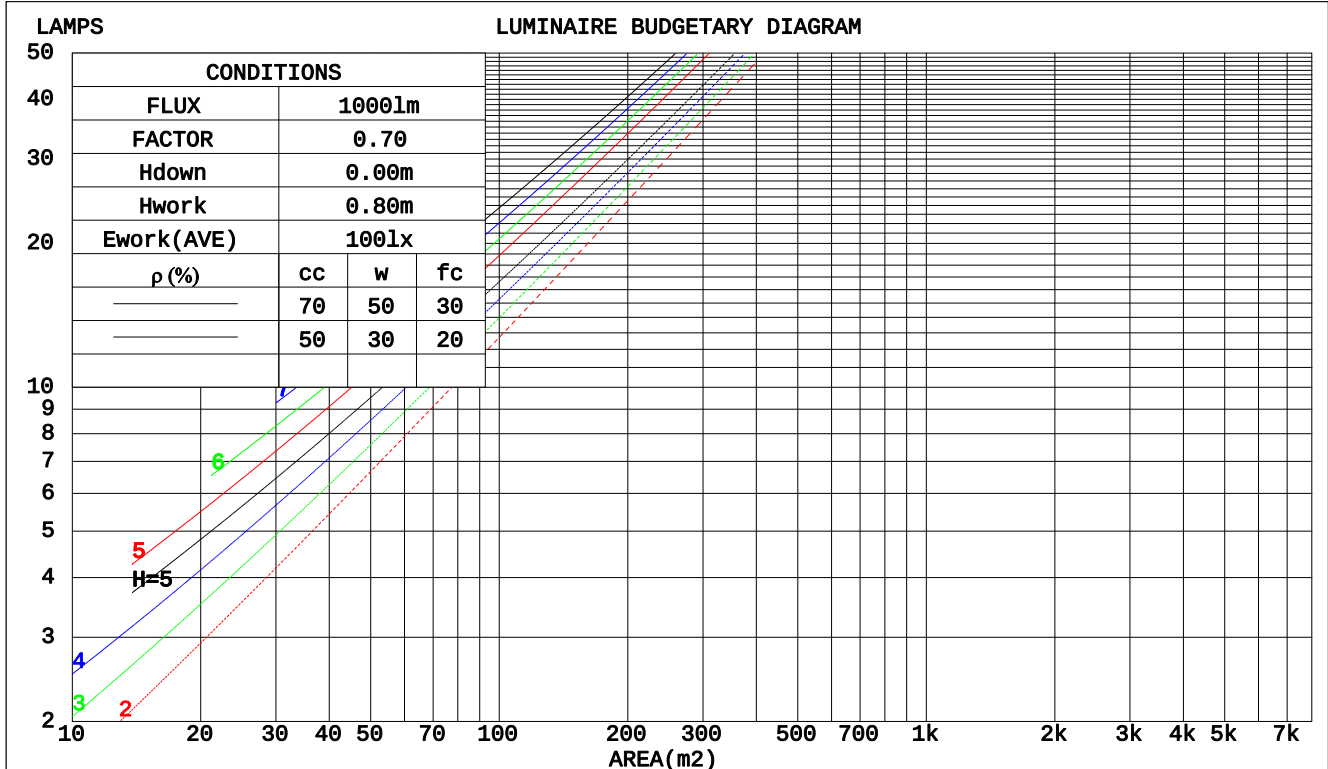
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.90	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.85
3.0	.94	.88	.84	.92	.87	.83	.89	.85	.82	.87	.83	.80	.85	.82	.79	.78
4.0	.87	.81	.76	.86	.80	.76	.83	.79	.75	.81	.77	.74	.79	.76	.73	.71
5.0	.81	.74	.70	.80	.74	.69	.78	.73	.69	.76	.72	.68	.75	.71	.67	.66
6.0	.75	.69	.64	.74	.68	.64	.73	.67	.63	.71	.67	.63	.70	.66	.63	.61
7.0	.70	.64	.59	.70	.64	.59	.68	.63	.59	.67	.62	.59	.66	.62	.58	.57
8.0	.66	.60	.55	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.54	.53
9.0	.62	.56	.52	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.49
10.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.56	.51	.48	.46



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm					
NAME: DL1008-WHTC12S03			TYPE:		WEIGHT:
SPEC.: white RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 115mm		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	.196	.111	.035	.189	.108	.034	.176	.101	.032	.164	.095	.030	.154	.089	.029	
2.0	.188	.103	.032	.182	.100	.031	.171	.095	.030	.162	.091	.028	.152	.086	.027	
3.0	.179	.095	.029	.174	.093	.028	.165	.089	.027	.156	.086	.026	.148	.082	.025	
4.0	.170	.088	.026	.166	.087	.026	.158	.084	.025	.150	.081	.024	.143	.078	.024	
5.0	.161	.082	.024	.158	.081	.024	.151	.078	.023	.144	.076	.023	.138	.074	.022	
6.0	.153	.077	.022	.150	.076	.022	.144	.074	.021	.138	.072	.021	.133	.070	.021	
7.0	.146	.072	.020	.143	.071	.020	.137	.069	.020	.132	.068	.020	.127	.066	.019	
8.0	.139	.068	.019	.136	.067	.019	.131	.066	.019	.127	.064	.019	.122	.063	.018	
9.0	.133	.064	.018	.130	.063	.018	.126	.062	.018	.122	.061	.017	.118	.060	.017	
10.0	.127	.061	.017	.125	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.016	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.136	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.057	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.029	.042	.028	.018	.014	.009	.006	
7.0	.115	.071	.040	.099	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.110	.065	.035	.094	.057	.030	.065	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.086	.048	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm										
NAME: DL1008-WHTC12S03					TYPE:			WEIGHT:		
SPEC.: white RA90 3000K+5700K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 115mm			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	18.4	19.5	18.6	19.6	19.8	18.4	19.5	18.6	19.6	19.8
3H	18.4	19.4	18.7	19.6	19.8	18.4	19.4	18.7	19.6	19.8
4H	18.4	19.3	18.7	19.5	19.7	18.3	19.3	18.6	19.5	19.7
6H	18.3	19.2	18.6	19.4	19.7	18.3	19.2	18.6	19.4	19.7
8H	18.3	19.1	18.6	19.4	19.7	18.3	19.1	18.6	19.4	19.6
12H	18.3	19.1	18.6	19.4	19.6	18.3	19.0	18.6	19.3	19.6
4H 2H	18.3	19.2	18.6	19.4	19.7	18.3	19.2	18.6	19.4	19.7
3H	18.4	19.1	18.7	19.4	19.7	18.3	19.1	18.7	19.4	19.7
4H	18.3	19.0	18.7	19.3	19.7	18.3	19.0	18.7	19.3	19.6
6H	18.3	19.0	18.7	19.3	19.6	18.3	18.9	18.7	19.3	19.6
8H	18.3	18.9	18.7	19.3	19.6	18.3	18.9	18.7	19.2	19.6
12H	18.3	18.9	18.7	19.2	19.6	18.3	18.8	18.7	19.2	19.6
8H 4H	18.2	18.8	18.6	19.2	19.5	18.2	18.8	18.6	19.1	19.5
6H	18.3	18.7	18.7	19.1	19.6	18.2	18.7	18.7	19.1	19.5
8H	18.3	18.7	18.7	19.1	19.6	18.3	18.7	18.7	19.1	19.5
12H	18.3	18.7	18.8	19.1	19.6	18.3	18.6	18.7	19.1	19.5
12H 4H	18.2	18.7	18.6	19.1	19.5	18.2	18.7	18.6	19.1	19.5
6H	18.2	18.7	18.7	19.1	19.5	18.2	18.6	18.7	19.0	19.5
8H	18.3	18.6	18.7	19.1	19.5	18.2	18.6	18.7	19.0	19.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.7 / - 3.3					+ 1.8 / - 3.4				
1.5H	+ 2.5 / - 2.6					+ 2.5 / - 2.7				
2.0H	+ 3.5 / - 3.2					+ 3.6 / - 3.3				

CIE Pub.117, 1528 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.5)
Area: 0.01039 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

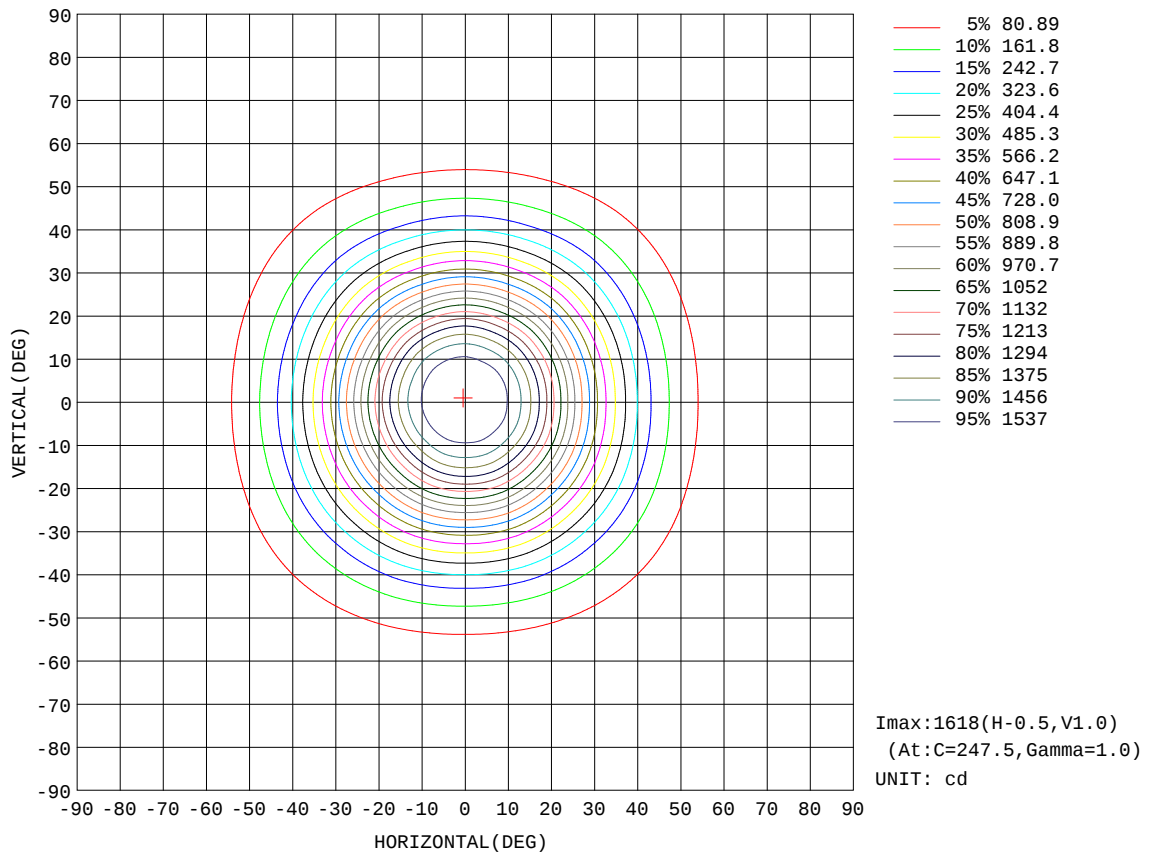
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	95	88	84	94	87	83	92	88	83	78
1.25	99	93	89	98	93	89	96	91	88	83
1.50	103	97	93	101	96	93	99	95	91	86
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	99	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

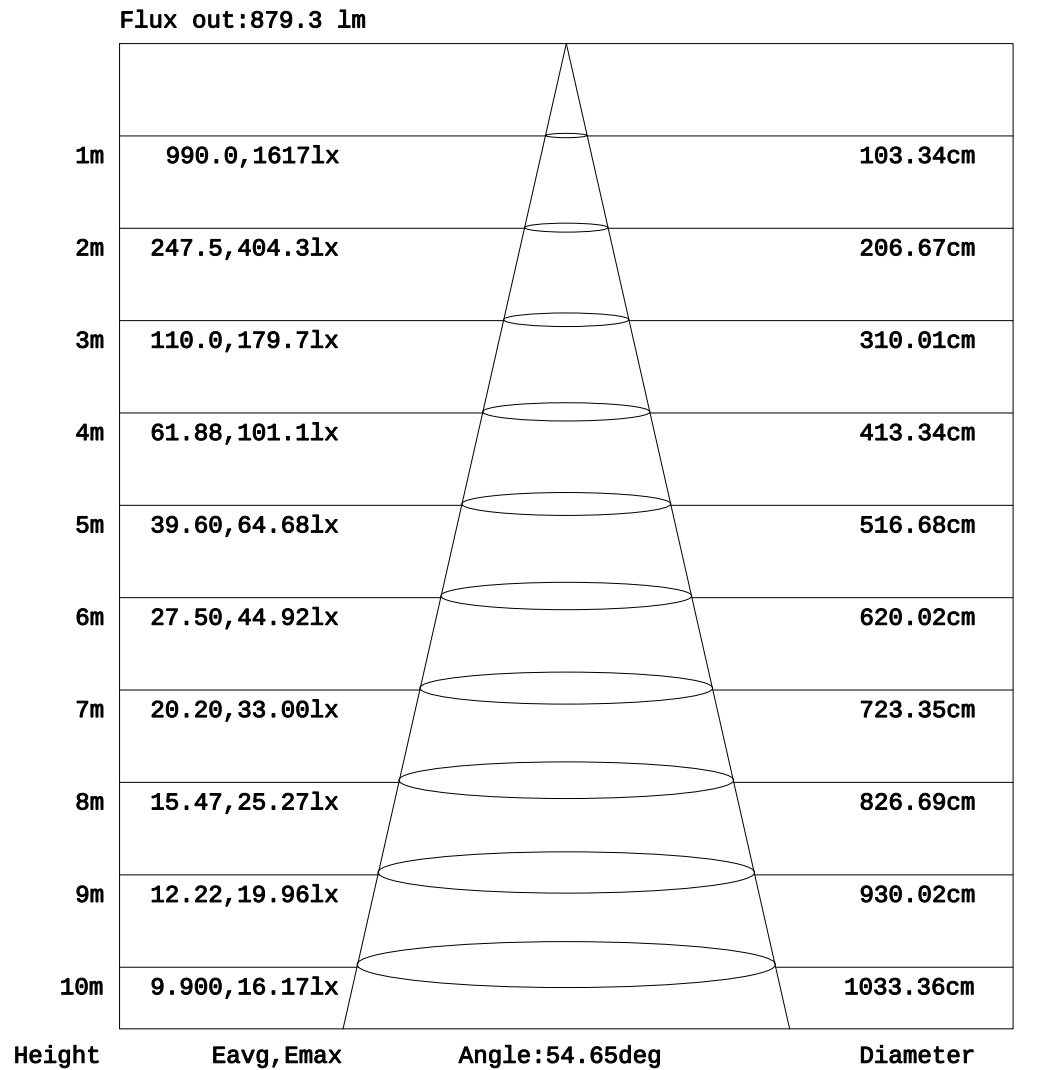


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



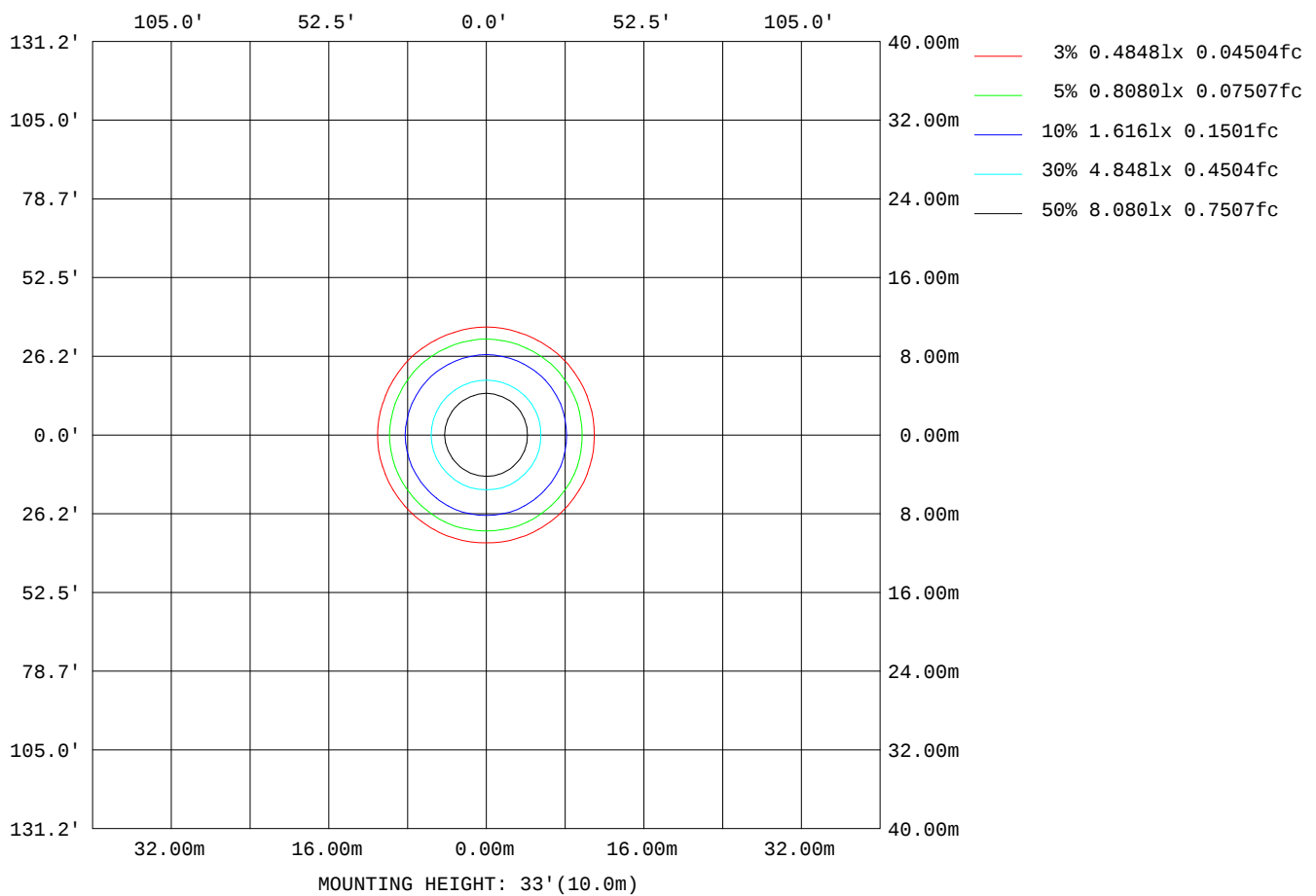
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-10

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:230.07V I:0.0524A P:11.358W PF:0.9417 Freq:49.99Hz Lamp Flux:1528.5x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

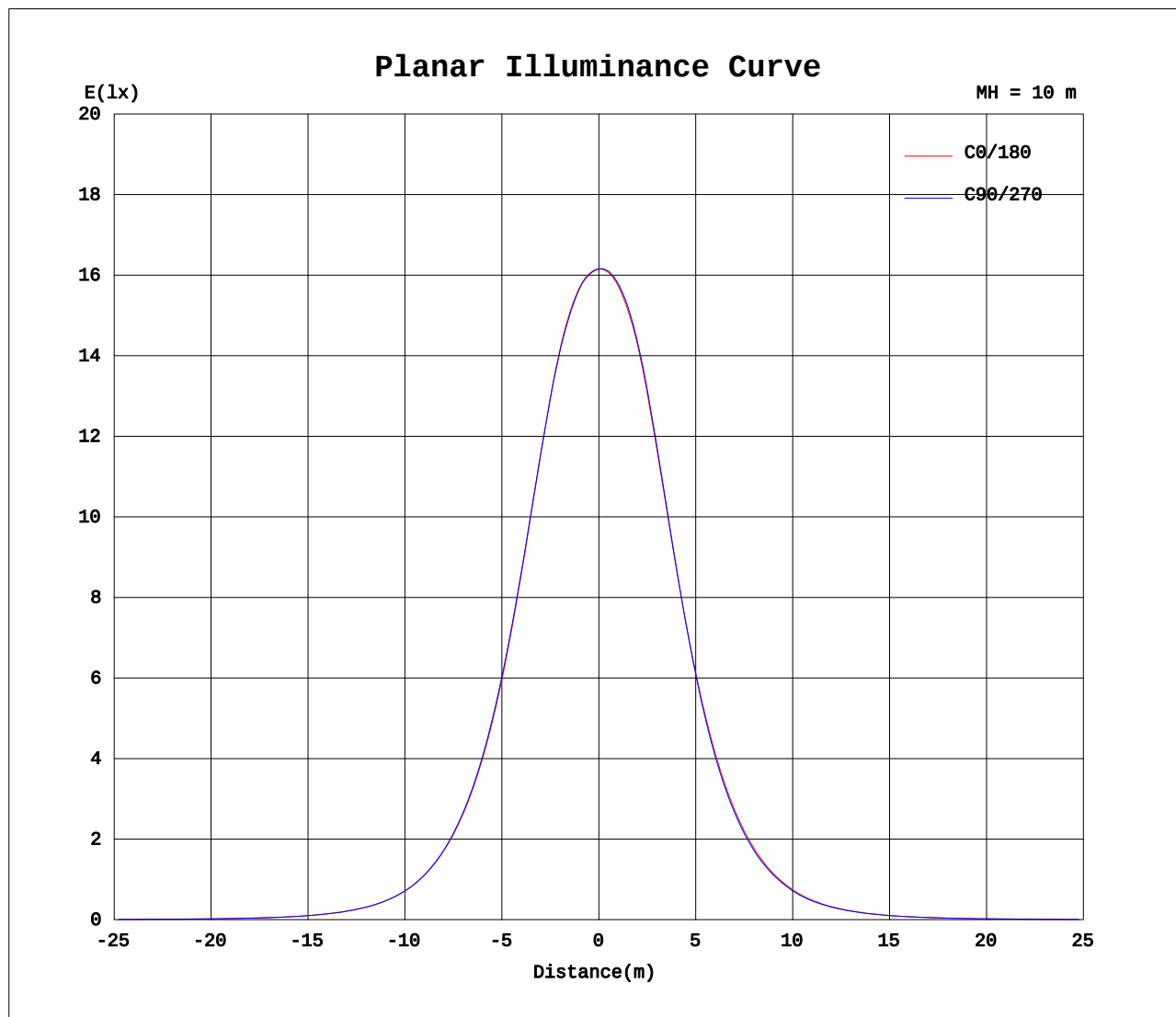
AvgL	cd/m2
L_0~180(65)av	5701
L_0~180(75)av	2968
L_0~180(85)av	3389
L_90~270(65)av	5638
L_90~270(75)av	2952
L_90~270(85)av	3361
L_45(65)av	5684
L_45(75)av	2962
L_45(85)av	3377

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-10

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: 2024-07-10

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:

```