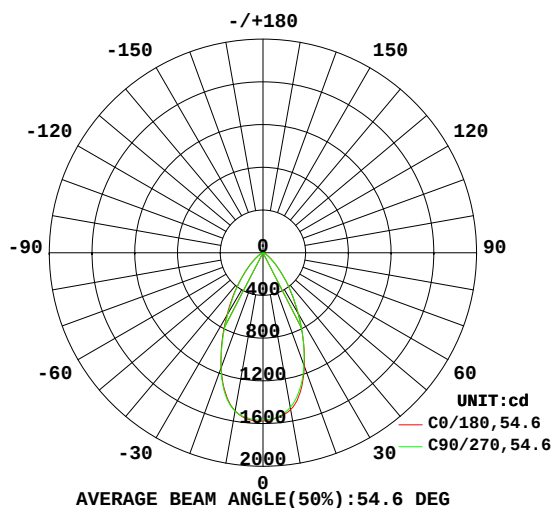


LUMINAIRE PHOTOMETRIC TEST REPORT

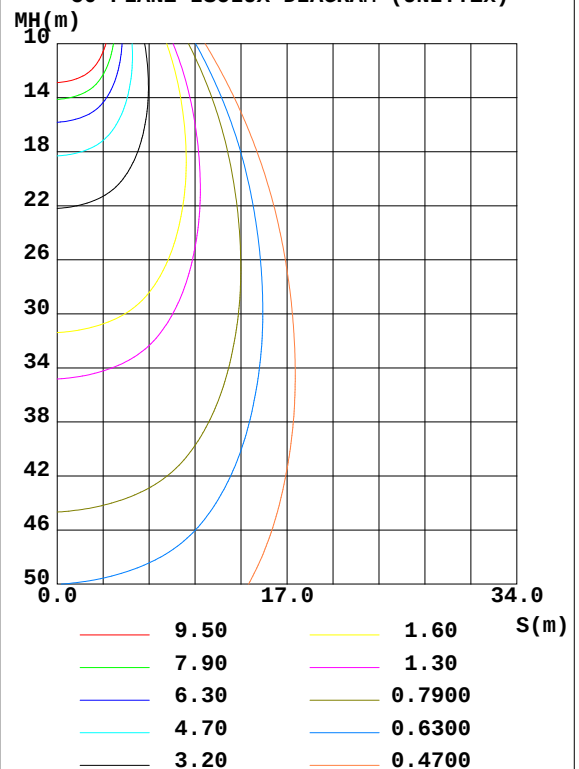
Test:U:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.41 lm/W			
MODEL	2835 48 3000K	I _{max} (cd)	1577	S/MH(C0/180)	0.84
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1480.2	η UP, DN(C0-180)	0.0, 49.9
NOMINAL FLUX(lm)	1480.18	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.1
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:

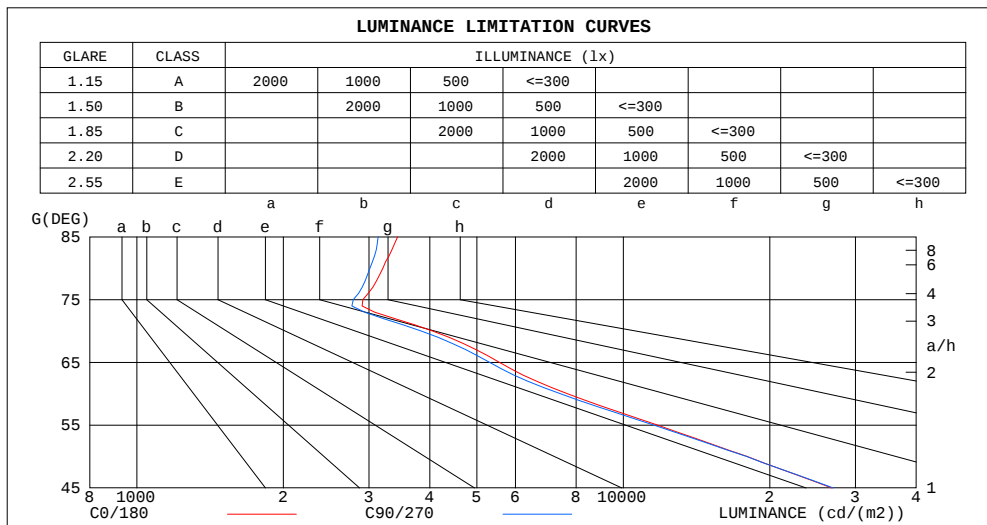
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1492	1481	1470	1483	1504	1504	1506	1486	0- 10	146.2	146.2	9.88, 9.88
20	1132	1133	1121	1126	1148	1144	1149	1134	10- 20	373.5	519.7	35.1, 35.1
30	658.0	665.2	665.2	659.5	676.7	666.6	659.4	665.6	20- 30	407.6	927.3	62.6, 62.6
40	313.0	312.2	316.8	312.9	323.5	313.5	314.0	313.0	30- 40	294.9	1222	82.6, 82.6
50	120.0	119.9	119.6	121.2	122.8	119.8	119.0	120.2	40- 50	156.4	1379	93.1, 93.1
60	39.86	39.02	38.53	39.02	39.69	39.39	39.66	40.12	50- 60	64.92	1443	97.5, 97.5
70	14.39	13.97	13.64	13.72	14.28	14.47	14.70	14.81	60- 70	24.59	1468	99.2, 99.2
80	5.780	5.599	5.437	5.394	5.553	5.642	5.742	5.808	70- 80	8.992	1477	99.8, 99.8
90	0.2432	0.2393	0.2278	0.2239	0.0733	0.0695	0.0618	0.0695	80- 90	3.146	1480	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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 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	3435	3132
80	3204	3013
75	2915	2785
70	4049	3839
65	5561	5306
60	7673	7418
55	11751	11549
50	17966	17913
45	26815	26998

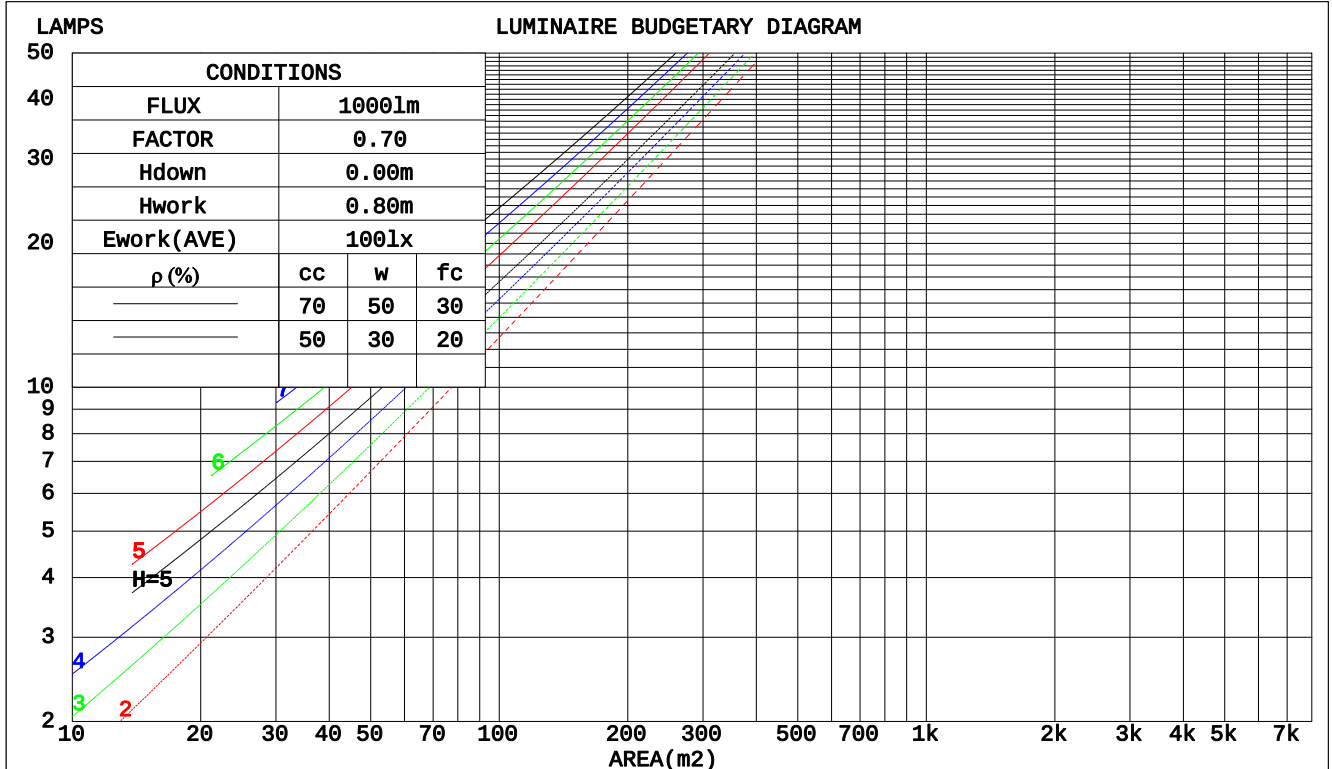
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-10

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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 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	.00	.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	.50
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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 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	.195	.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	.161	.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	.150	.078	.023	.144	.076	.023	.138	.074	.022	
6.0	.153	.077	.022	.150	.076	.022	.144	.074	.021	.138	.072	.021	.132	.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	

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	.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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 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	18.7	19.7	19.8	18.4	19.5	18.7	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	19.8	18.4	19.3	18.7	19.5	19.7
	6H	18.4	19.2	18.7	19.5	19.7	18.3	19.2	18.6	19.4	19.7
	8H	18.3	19.2	18.7	19.4	19.7	18.3	19.1	18.6	19.4	19.6
	12H	18.3	19.1	18.6	19.4	19.7	18.3	19.1	18.6	19.3	19.6
4H	2H	18.3	19.2	18.6	19.5	19.7	18.3	19.2	18.6	19.5	19.7
	3H	18.4	19.2	18.7	19.4	19.7	18.3	19.1	18.7	19.4	19.7
	4H	18.3	19.1	18.7	19.4	19.7	18.3	19.0	18.7	19.3	19.6
	6H	18.3	19.0	18.7	19.3	19.7	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	18.8	19.2	19.6	18.3	18.8	18.7	19.2	19.6
8H	4H	18.3	18.8	18.7	19.2	19.6	18.2	18.8	18.6	19.2	19.5
	6H	18.3	18.8	18.7	19.2	19.6	18.3	18.7	18.7	19.1	19.5
	8H	18.3	18.7	18.8	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	18.8	19.1	19.6
12H	4H	18.2	18.7	18.6	19.1	19.5	18.2	18.7	18.6	19.1	19.5
	6H	18.3	18.7	18.7	19.1	19.5	18.2	18.6	18.7	19.1	19.5
	8H	18.3	18.6	18.8	19.1	19.6	18.3	18.6	18.7	19.1	19.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 1.7 / - 3.3					+ 1.8 / - 3.5					
1.5H	+ 2.5 / - 2.6					+ 2.6 / - 2.7					
2.0H	+ 3.5 / - 3.2					+ 3.7 / - 3.3					

CIE Pub.117, 1480 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.4$)
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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

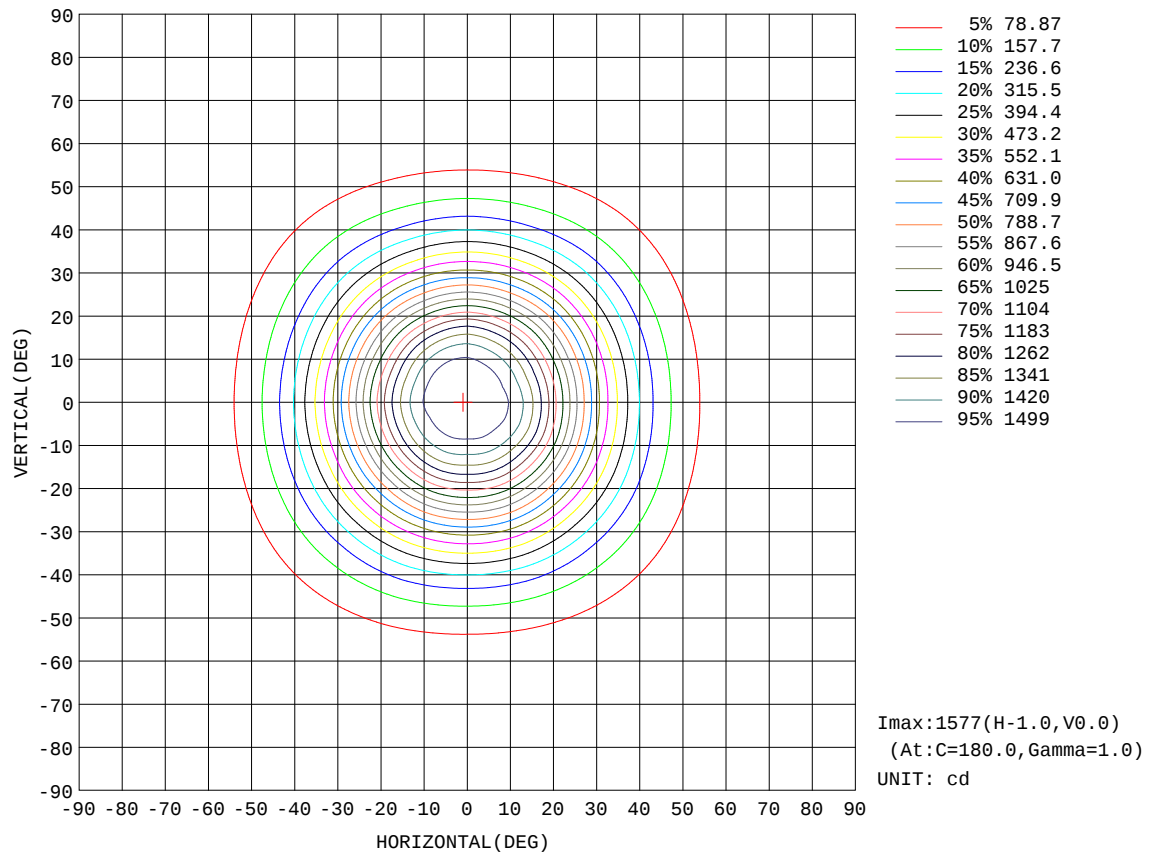
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	81	77	87	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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

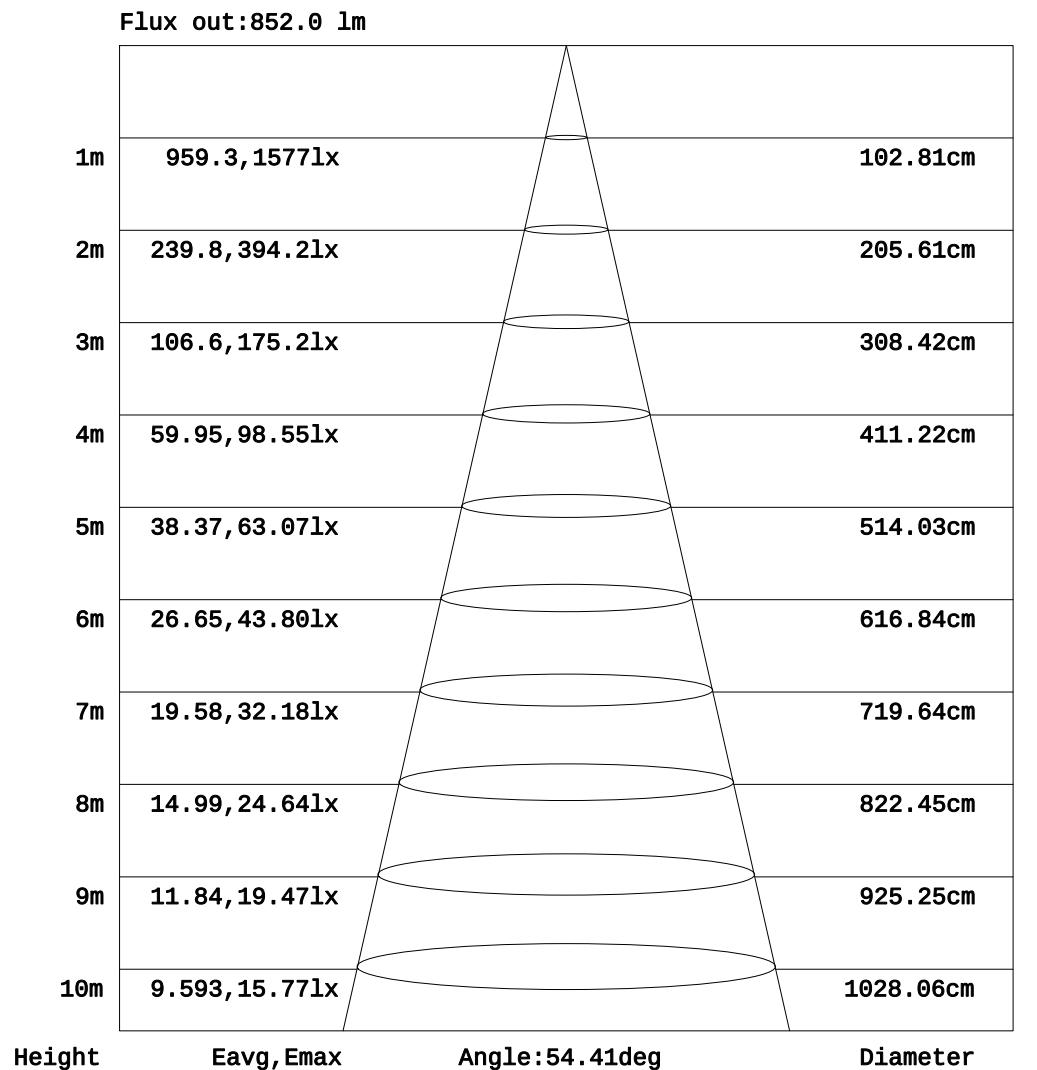


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-10

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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



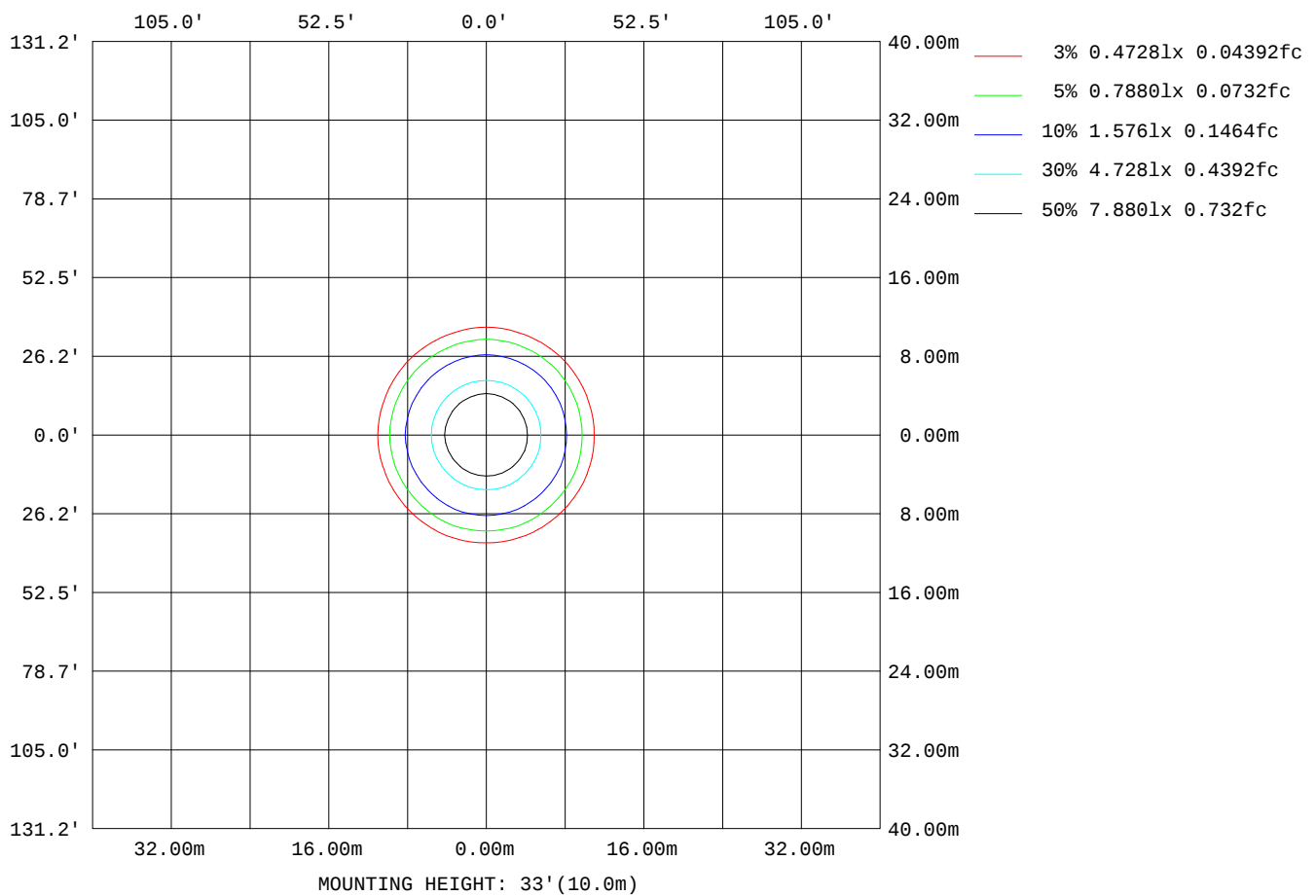
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 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:230.12V I:0.0538A P:11.709W PF:0.9464 Freq:49.99Hz Lamp Flux:1480.18x1 lm		
NAME: DL1008-WHTC12S03	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

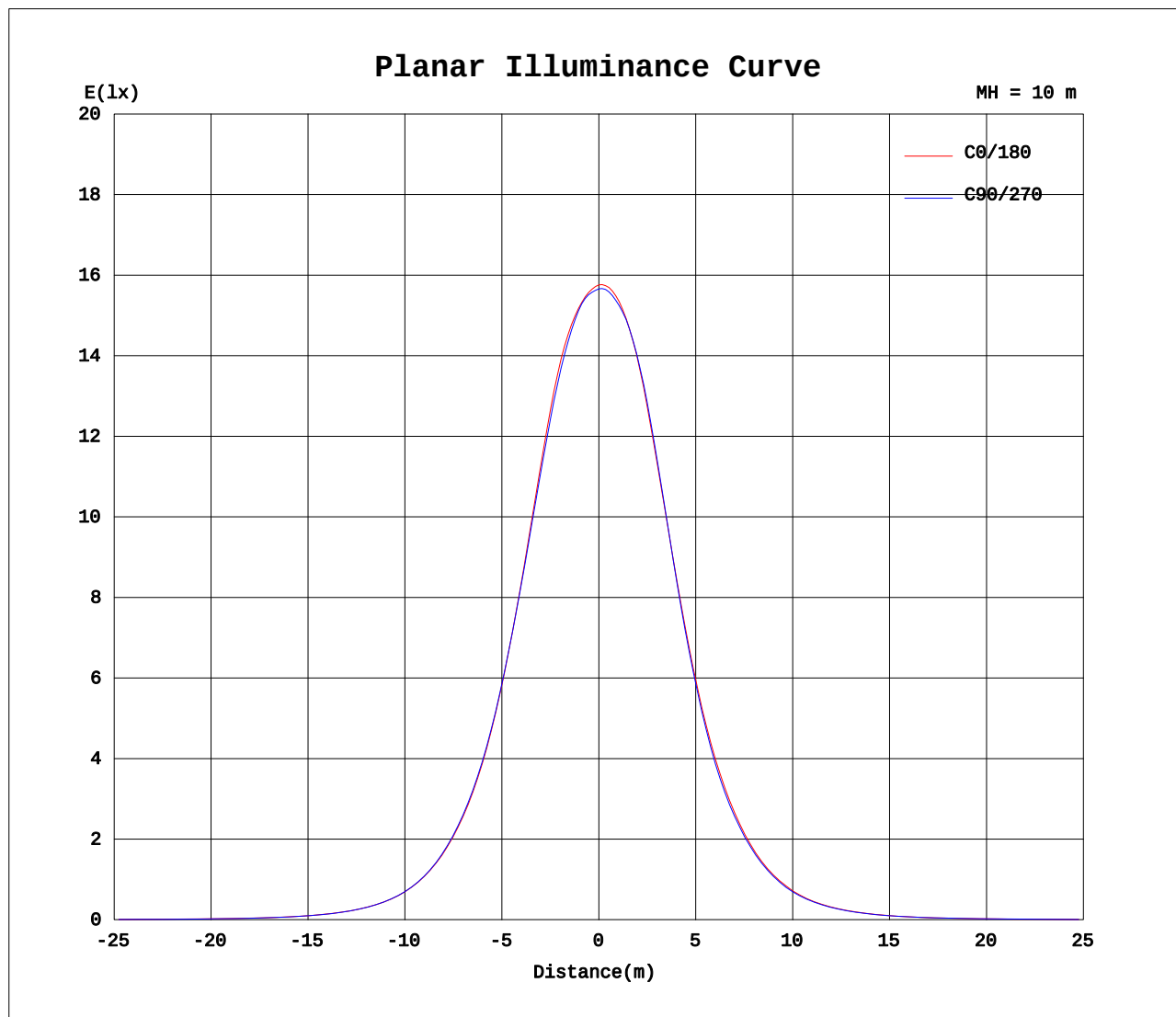
AvgL	cd/m2
L_0~180(65)av	5523
L_0~180(75)av	2877
L_0~180(85)av	3284
L_90~270(65)av	5442
L_90~270(75)av	2843
L_90~270(85)av	3233
L_45(65)av	5477
L_45(75)av	2851
L_45(85)av	3251

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:

```