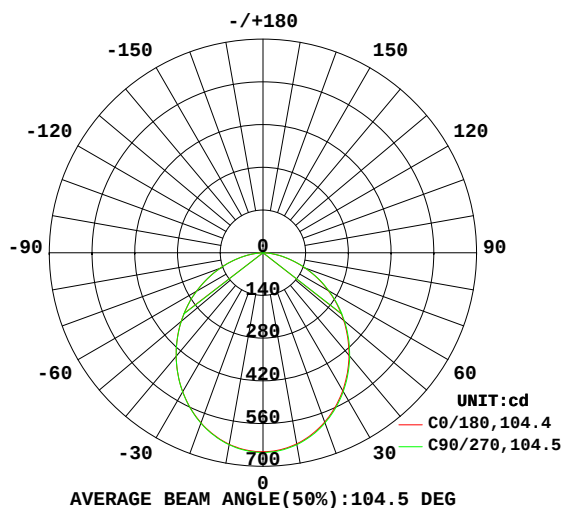


LUMINAIRE PHOTOMETRIC TEST REPORT

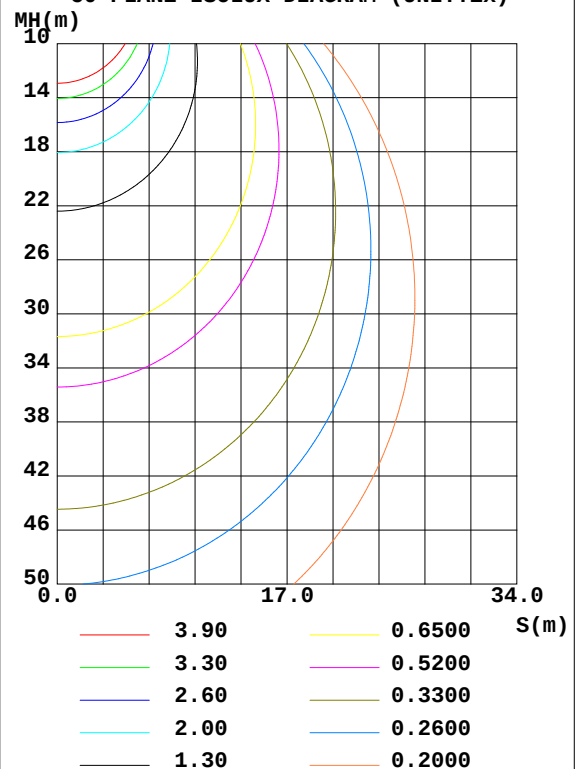
Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.72 lm/W			
MODEL	2835 96 4000K	I _{max} (cd)	656.5	S/MH(C0/180)	1.21
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1702.3	η UP, DN(C0-180)	0.0, 49.9
NOMINAL FLUX(lm)	1702.32	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35

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: 2025-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

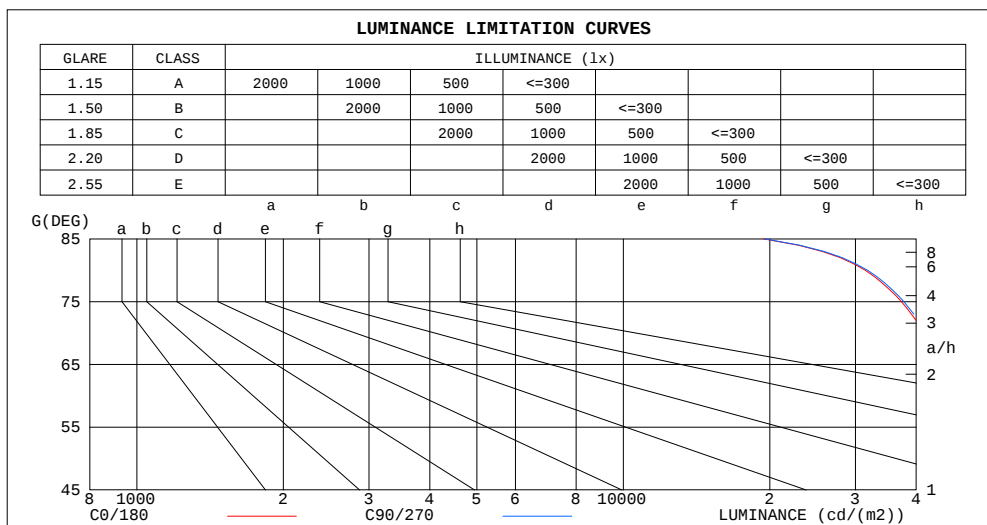
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	636.0	637.1	638.5	640.1	637.5	638.2	638.8	639.8	0- 10	61.70	61.70	3.62, 3.62
20	590.5	591.9	593.7	595.7	593.5	593.9	594.3	595.0	10- 20	174.6	236.3	13.9, 13.9
30	522.4	523.7	525.9	528.0	526.4	526.3	526.7	527.3	20- 30	259.0	495.3	29.1, 29.1
40	438.4	439.6	441.8	443.8	442.9	442.5	442.9	443.4	30- 40	303.7	799.0	46.9, 46.9
50	345.5	346.4	348.4	350.3	349.9	349.3	349.6	350.0	40- 50	305.7	1105	64.9, 64.9
60	247.0	247.7	249.3	250.7	251.3	250.8	250.9	251.1	50- 60	268.1	1373	80.6, 80.6
70	147.2	147.9	148.8	149.7	151.1	150.7	150.4	150.4	60- 70	197.5	1570	92.2, 92.2
80	56.69	57.28	57.31	57.55	58.91	58.80	58.25	57.96	70- 80	108.1	1678	98.6, 98.6
90	0.7304	0.7258	0.7258	0.7258	0.7809	0.7855	0.7947	0.7993	80- 90	23.93	1702	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:2025-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	19391	19503
80	31423	31765
75	37279	37707
70	41431	41881
65	44826	45270
60	47537	47980
55	49779	50224
50	51727	52168
45	53470	53905

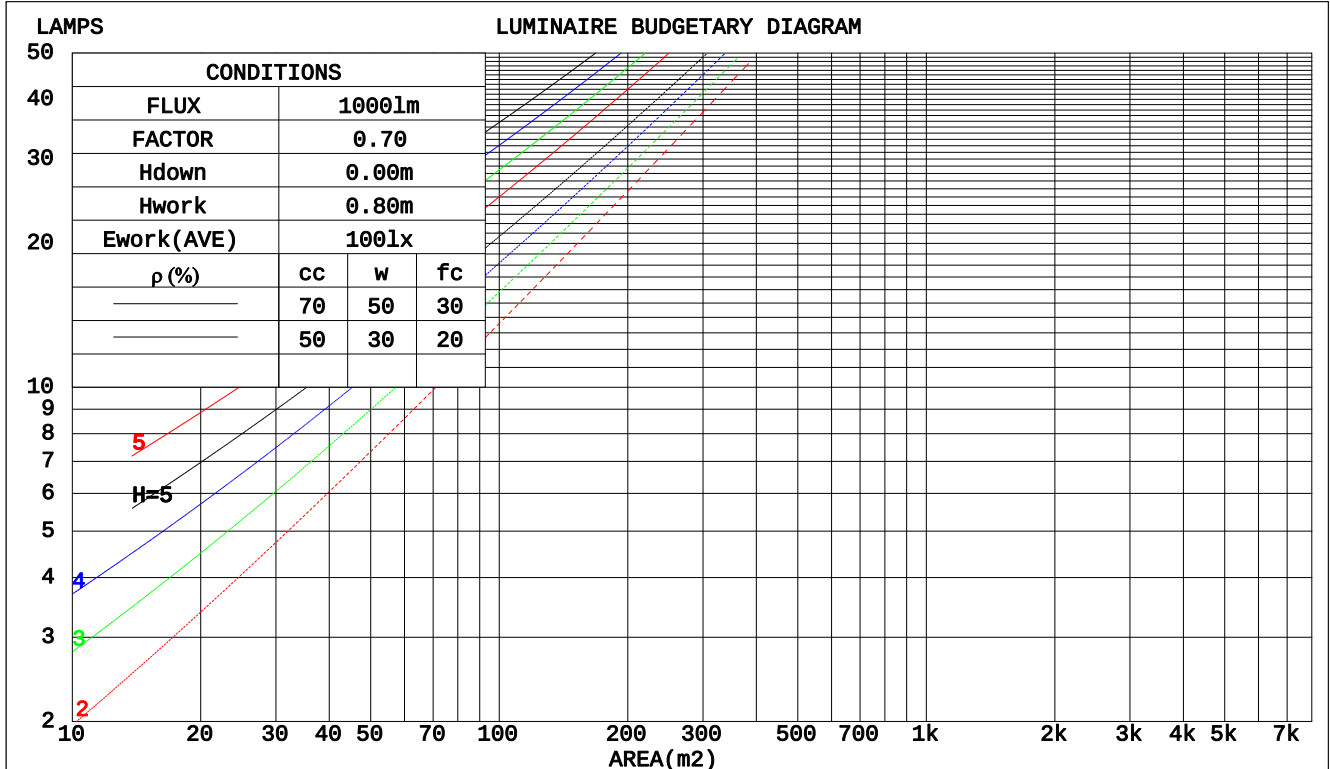
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	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	.00
1.0	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71
3.0	.80	.72	.66	.79	.71	.65	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.51
5.0	.64	.55	.49	.63	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.38	.52	.43	.37	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.34	.46	.39	.33	.45	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm					
NAME: DL1096-WHTC15S01S			TYPE:		WEIGHT:
SPEC.: white RA80 3000K+5000K			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	.298	.170	.054	.291	.166	.053	.278	.159	.051	.266	.153	.049	.255	.148	.048	
2.0	.283	.155	.048	.277	.152	.047	.265	.147	.046	.254	.143	.045	.245	.138	.044	
3.0	.263	.140	.042	.258	.138	.042	.247	.134	.041	.238	.130	.040	.229	.127	.039	
4.0	.244	.127	.037	.239	.125	.037	.230	.122	.036	.221	.119	.036	.213	.116	.035	
5.0	.226	.115	.033	.222	.114	.033	.213	.111	.033	.206	.109	.032	.199	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.192	.096	.027	.186	.094	.027	.180	.092	.027	.174	.090	.027	
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.169	.085	.025	.164	.084	.024	
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.162	.077	.022	.159	.077	.021	.154	.076	.021	.150	.075	.021	.146	.073	.021	

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	.179	.156	.135	.154	.134	.116	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.147	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm										
NAME: DL1096-WHTC15S01S					TYPE:			WEIGHT:		
SPEC.: white RA80 3000K+5000K					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	24.5	26.0	24.8	26.2	26.4	24.5	26.0	24.8	26.2	26.4
3H	25.9	27.3	26.2	27.5	27.7	25.9	27.3	26.2	27.5	27.8
4H	26.4	27.7	26.7	28.0	28.2	26.5	27.8	26.8	28.0	28.3
6H	26.7	28.0	27.1	28.3	28.5	26.8	28.0	27.1	28.3	28.6
8H	26.8	28.0	27.2	28.3	28.6	26.9	28.1	27.2	28.4	28.6
12H	26.9	28.0	27.2	28.3	28.6	26.9	28.0	27.3	28.3	28.6
4H 2H	25.1	26.4	25.4	26.6	26.9	25.1	26.4	25.4	26.7	26.9
3H	26.6	27.8	27.0	28.1	28.4	26.7	27.8	27.0	28.1	28.4
4H	27.3	28.3	27.7	28.6	29.0	27.3	28.4	27.7	28.7	29.0
6H	27.7	28.7	28.1	29.0	29.4	27.8	28.7	28.2	29.1	29.4
8H	27.9	28.7	28.3	29.1	29.5	27.9	28.8	28.3	29.1	29.5
12H	27.9	28.7	28.3	29.1	29.5	28.0	28.8	28.4	29.1	29.5
8H 4H	27.5	28.4	27.9	28.7	29.1	27.5	28.4	28.0	28.8	29.2
6H	28.1	28.8	28.5	29.2	29.6	28.1	28.9	28.6	29.3	29.7
8H	28.3	28.9	28.8	29.4	29.8	28.3	29.0	28.8	29.4	29.8
12H	28.4	28.9	28.9	29.4	29.9	28.4	29.0	28.9	29.4	29.9
12H 4H	27.5	28.3	27.9	28.7	29.1	27.5	28.3	28.0	28.7	29.1
6H	28.1	28.8	28.6	29.2	29.6	28.2	28.8	28.6	29.2	29.7
8H	28.4	28.9	28.8	29.4	29.8	28.4	28.9	28.9	29.4	29.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1702 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.8)
Area: 0.01039 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

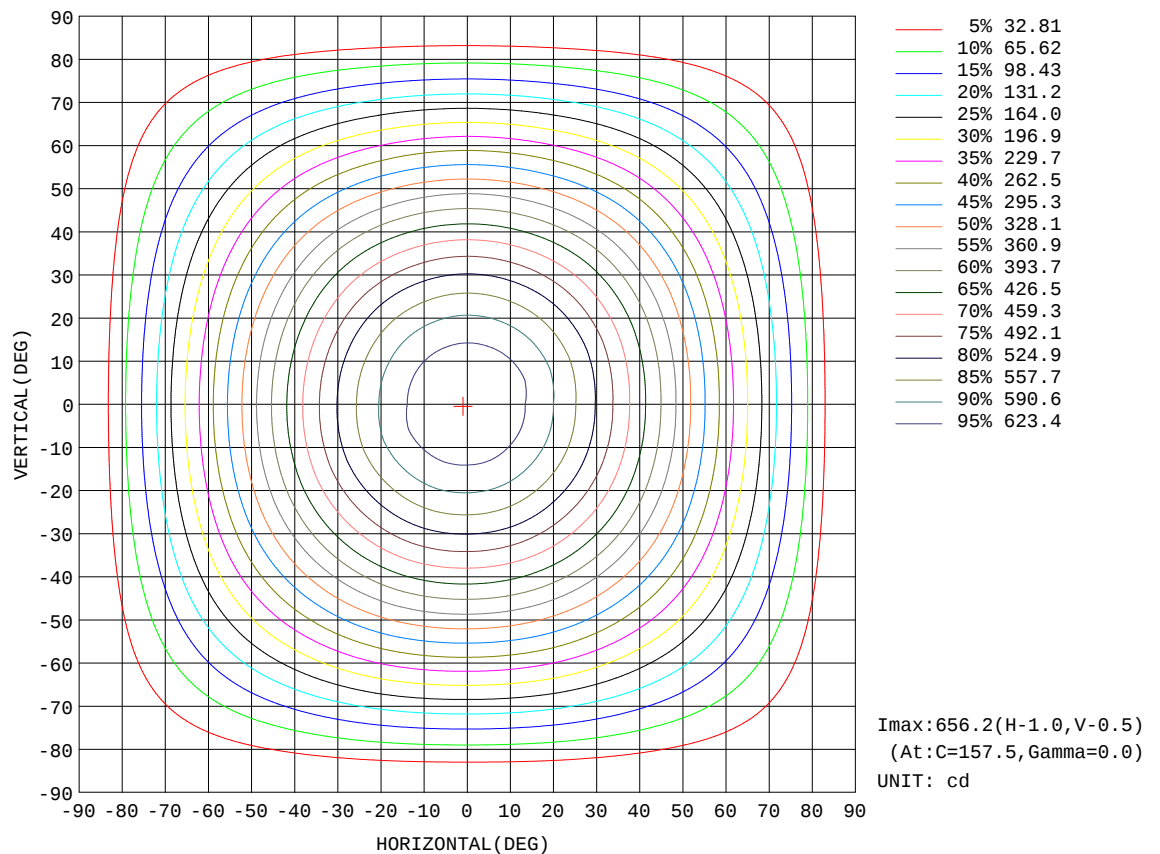
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	41	58	47	41	57	47	40	34
0.80	69	58	50	68	57	50	66	56	50	43
1.00	77	66	59	76	66	59	74	67	58	52
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	81	94	86	81	91	84	79	71
2.50	100	92	86	98	91	85	94	88	84	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	100	95	100	96	93	84
5.00	109	104	101	107	103	99	102	99	96	87
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:2025-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



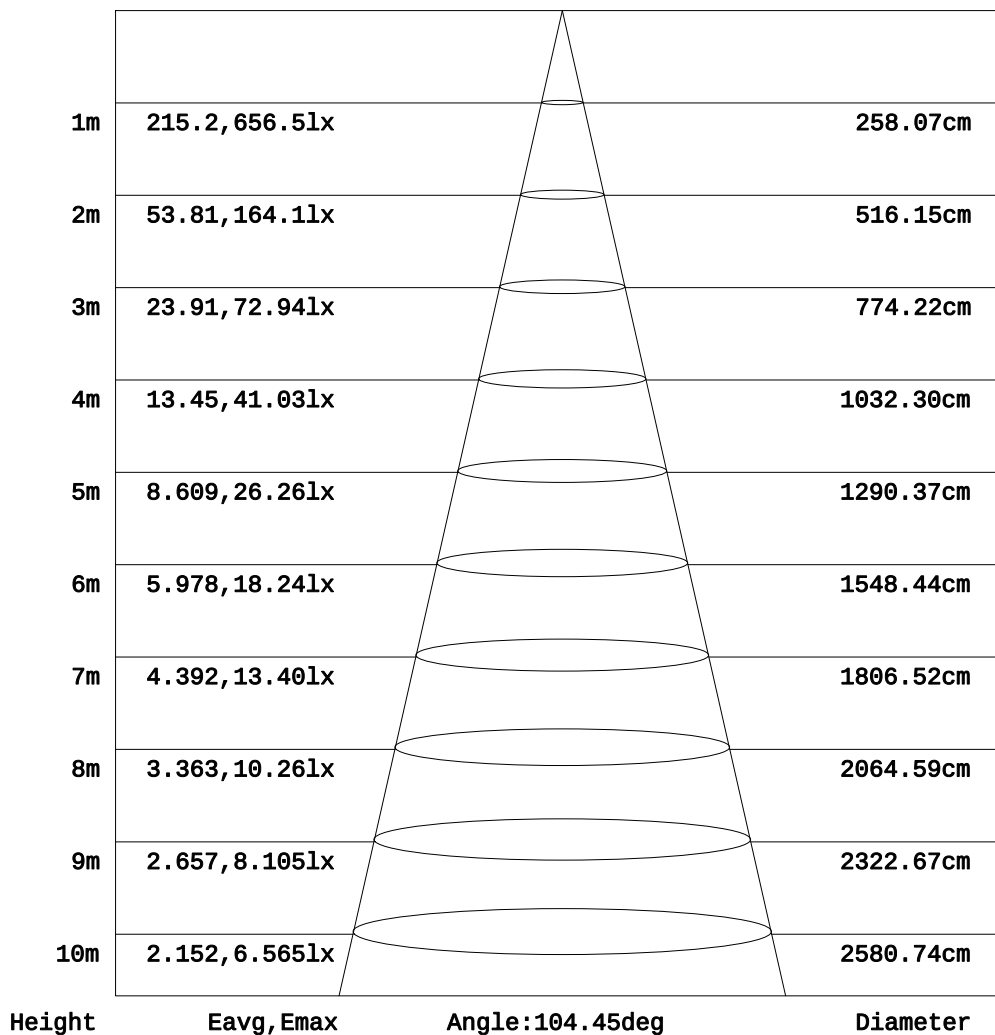
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

Flux out:1191 lm



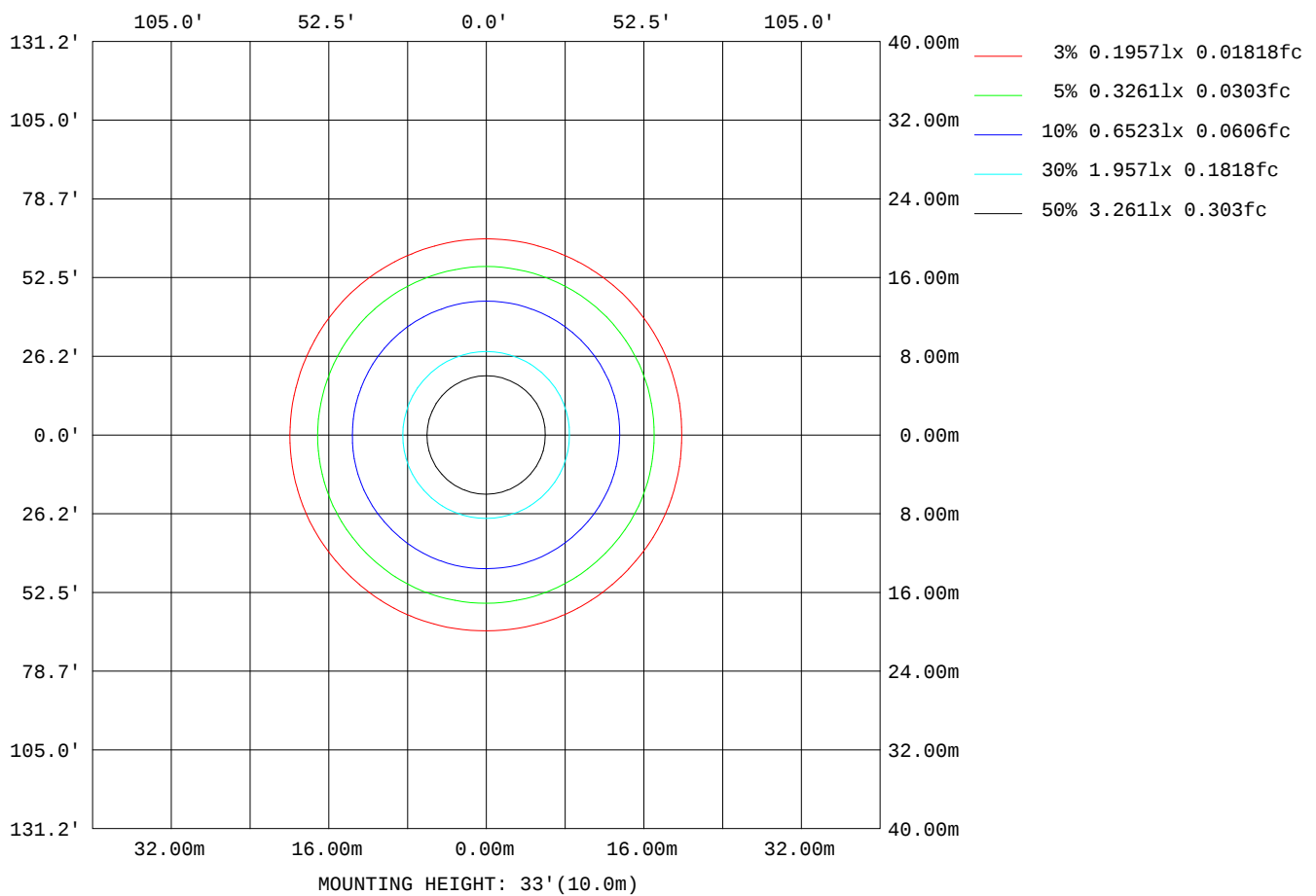
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.46V I:0.0616A P:13.225W PF:0.9314 Freq:49.99Hz Lamp Flux:1702.32x1 lm		
NAME: DL1096-WHTC15S01S	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 115mm	Shielding Angle:

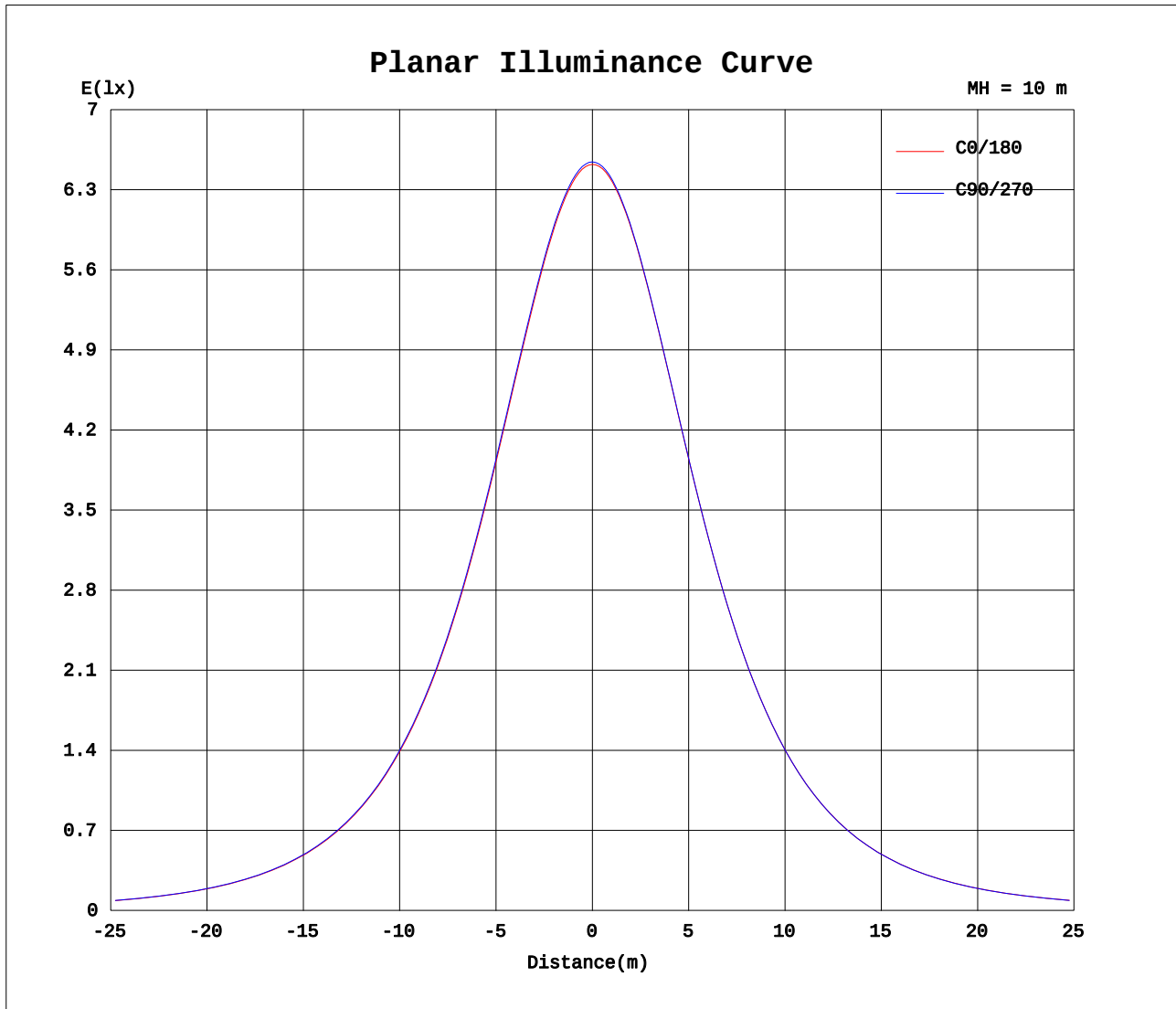
AvgL	cd/m2
L_0~180(65)av	45303
L_0~180(75)av	37813
L_0~180(85)av	20299
L_90~270(65)av	45455
L_90~270(75)av	37884
L_90~270(85)av	20140
L_45(65)av	45465
L_45(75)av	37916
L_45(85)av	20288

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [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:7.880m [K=1.0000]
Remarks:

```