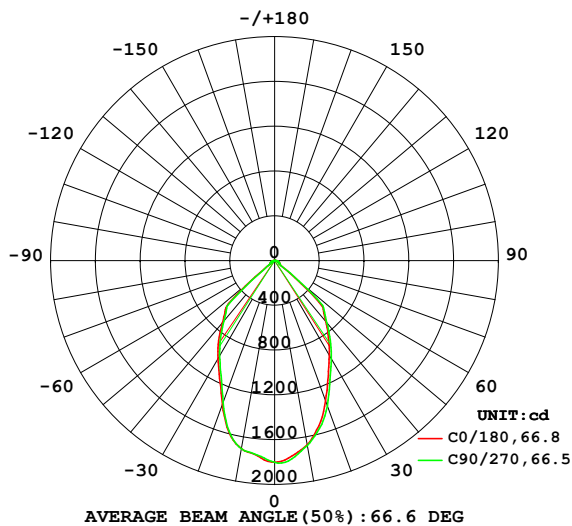


LUMINAIRE PHOTOMETRIC TEST REPORT

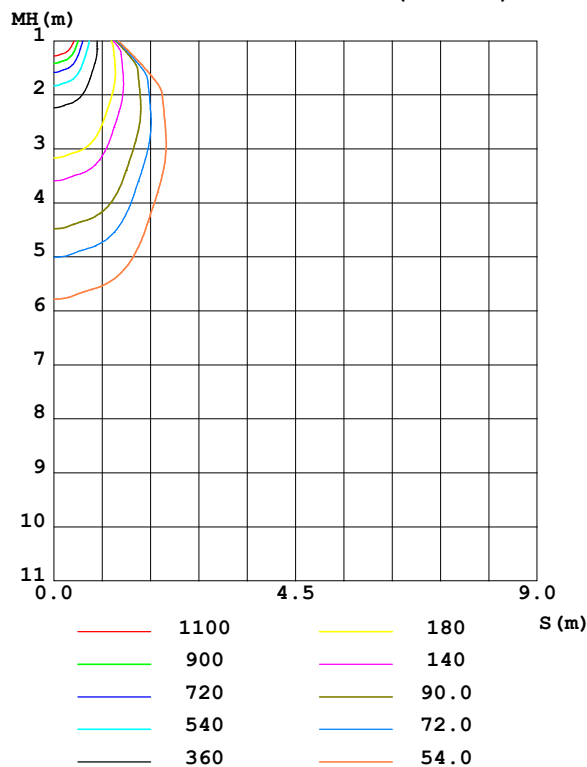
Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.70 lm/W			
MODEL	DL25WCOB-IP54-CC	I _{max} (cd)	1810	S/MH(C0/180)	0.90
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	0.91
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2233.0	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	2232.97	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)	240	η down (%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: Chen Songyu
Test Date: 2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.640m [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	1707	1715	1708	1685	1673	1649	1679	1697	0- 10	165.6	165.6	7.41,7.41
20	1369	1402	1346	1314	1335	1363	1379	1359	10- 20	433.2	598.8	26.8,26.8
30	1013	1019	983.9	979.4	979.6	994.0	1015	1009	20- 30	533.6	1132	50.7,50.7
40	727.0	720.7	704.2	704.9	713.7	720.3	728.3	731.2	30- 40	534.4	1667	74.6,74.6
50	225.5	213.9	148.1	192.6	236.1	215.5	285.3	251.6	40- 50	435.0	2102	94.1,94.1
60	44.18	44.37	43.81	43.57	43.42	44.93	43.52	44.22	50- 60	62.34	2164	96.9,96.9
70	30.84	30.55	29.44	30.17	30.48	31.13	29.79	30.54	60- 70	36.78	2201	98.6,98.6
80	18.41	16.83	15.20	16.18	18.20	17.18	16.47	17.17	70- 80	25.21	2226	99.7,99.7
90	0.1685	0.1571	0.1485	0.1486	0.1478	0.1482	0.1455	0.1545	80- 90	6.832	2233	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		

Conical surface Flux(90deg): 1912.1 lm

%lum = 85.6%

%lamp = 85.6%

Conical surface Flux(120deg): 2164.1 lm

%lum = 96.9%

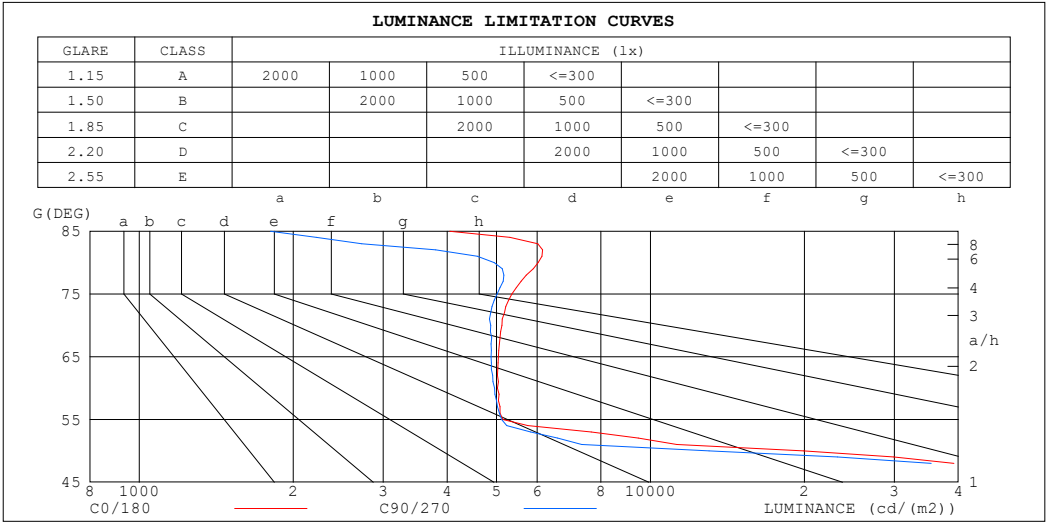
%lamp = 96.9%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Chen Songyu
 Test Date:2024-04-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:9.640m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4047	1806
80	6024	4950
75	5358	5013
70	5123	4868
65	5040	4873
60	5020	4955
55	5146	5111
50	19926	13027
45	50085	48544

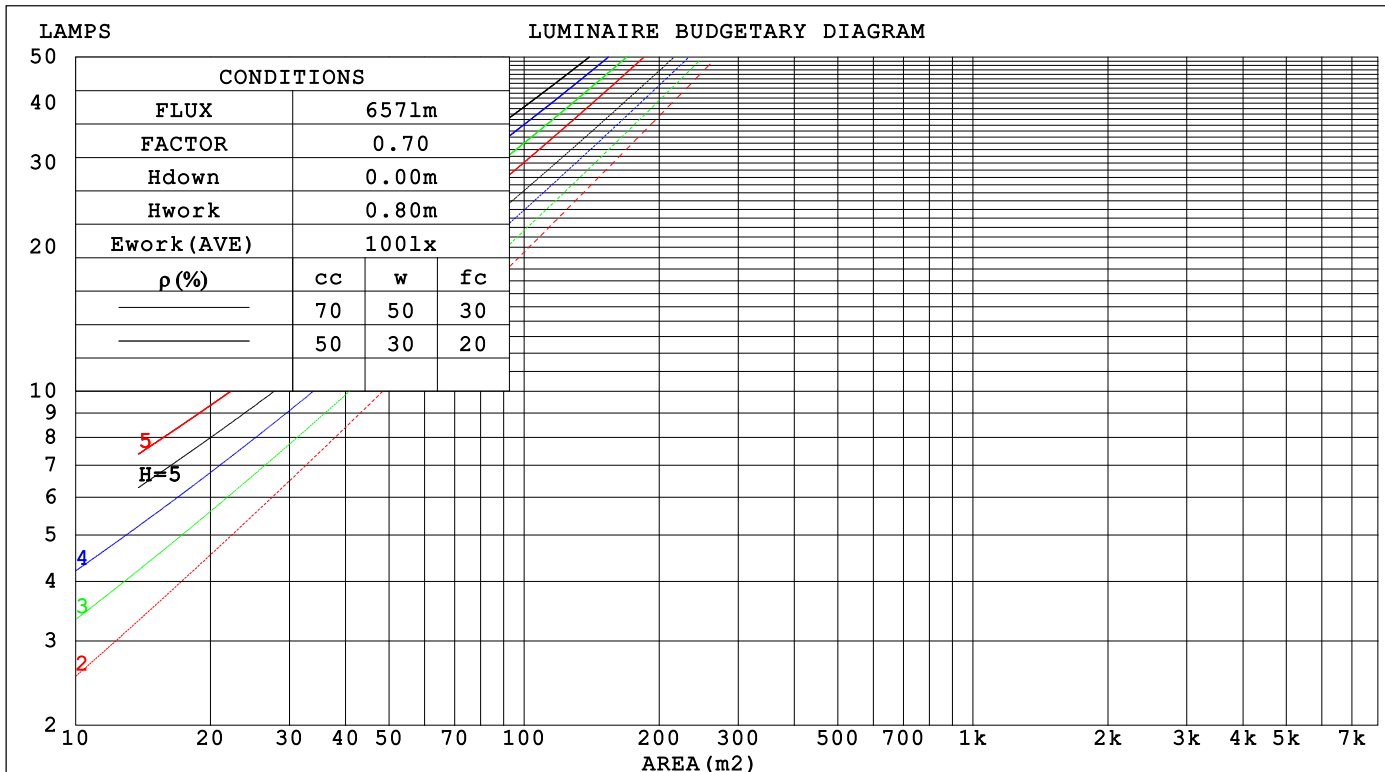
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
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	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91														
2.0	.00	.95	.91	.98	.94	.90	.95	.91	.88	.92	.89	.86	.89	.86	.84	.82														
3.0	.91	.86	.81	.90	.85	.80	.87	.83	.79	.85	.81	.78	.82	.79	.76	.75														
4.0	.84	.77	.72	.83	.77	.72	.80	.75	.71	.78	.74	.70	.76	.73	.69	.68														
5.0	.77	.71	.65	.76	.70	.65	.74	.69	.65	.73	.68	.64	.71	.67	.63	.62														
6.0	.71	.64	.59	.71	.64	.59	.69	.63	.59	.67	.62	.58	.66	.62	.58	.56														
7.0	.66	.59	.54	.65	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.53	.52														
8.0	.62	.55	.50	.61	.54	.50	.60	.54	.50	.59	.53	.49	.58	.53	.49	.47														
9.0	.57	.51	.46	.57	.50	.46	.56	.50	.46	.55	.49	.46	.54	.49	.45	.44														
10.0	.54	.47	.43	.53	.47	.43	.52	.46	.42	.51	.46	.42	.51	.46	.42	.41														



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.210	.119	.038	.203	.116	.037	.190	.109	.035	.179	.103	.033	.168	.097	.031		
2.0	.202	.111	.034	.197	.108	.033	.186	.103	.032	.176	.099	.031	.166	.094	.030		
3.0	.193	.103	.031	.188	.101	.030	.178	.097	.029	.170	.093	.029	.162	.089	.028		
4.0	.183	.095	.028	.179	.094	.028	.171	.091	.027	.163	.088	.026	.156	.085	.026		
5.0	.174	.089	.026	.170	.087	.025	.163	.085	.025	.156	.082	.025	.150	.080	.024		
6.0	.165	.083	.024	.162	.082	.024	.156	.080	.023	.150	.078	.023	.144	.076	.023		
7.0	.157	.078	.022	.154	.077	.022	.149	.075	.022	.143	.073	.021	.138	.072	.021		
8.0	.150	.073	.021	.147	.072	.020	.142	.071	.020	.137	.069	.020	.133	.068	.020		
9.0	.143	.069	.019	.140	.068	.019	.136	.067	.019	.131	.066	.019	.127	.065	.019		
10.0	.136	.065	.018	.134	.065	.018	.130	.064	.018	.126	.063	.018	.122	.061	.018		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.173	.157	.142	.148	.135	.122	.101	.093	.085	.058	.054	.049	.019	.017	.016		
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.038	.017	.015	.013		
3.0	.150	.114	.085	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010		
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008		
5.0	.133	.088	.056	.114	.076	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007		
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006		
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005		
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.040	.024	.012	.013	.008	.004		
9.0	.109	.061	.029	.094	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004		
10.0	.104	.057	.025	.090	.049	.022	.062	.035	.016	.036	.021	.009	.012	.007	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm											
Name: DL25WCOB-IP54-CC						Type: 25W			Weight:		
SPEC.: 3000K						DIM.:			Instrument No.: HUP-IES-B3		
MFR.: EVERFINE						SUR.: 0.075			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		21.8	22.9	22.0	23.1	23.3	21.5	22.6	21.7	22.8	23.0
3H		21.7	22.8	22.0	23.0	23.2	21.5	22.5	21.7	22.7	22.9
4H		21.7	22.7	22.0	22.9	23.2	21.5	22.4	21.7	22.7	22.9
6H		21.8	22.7	22.1	22.9	23.2	21.5	22.4	21.8	22.6	22.9
8H		21.8	22.7	22.1	22.9	23.2	21.4	22.3	21.8	22.6	22.9
12H		21.8	22.6	22.1	22.9	23.2	21.4	22.3	21.7	22.5	22.8
4H 2H		21.6	22.5	21.9	22.8	23.0	21.3	22.3	21.6	22.5	22.7
3H		21.6	22.4	21.9	22.7	23.0	21.3	22.2	21.6	22.4	22.7
4H		21.6	22.4	22.0	22.7	23.0	21.4	22.1	21.7	22.4	22.7
6H		21.7	22.4	22.1	22.8	23.1	21.4	22.1	21.8	22.5	22.8
8H		21.8	22.4	22.2	22.8	23.2	21.5	22.1	21.9	22.4	22.8
12H		21.8	22.4	22.2	22.8	23.1	21.4	22.0	21.8	22.4	22.8
8H 4H		21.6	22.2	22.0	22.6	22.9	21.3	21.9	21.7	22.3	22.7
6H		21.8	22.3	22.2	22.7	23.1	21.5	22.0	21.9	22.4	22.8
8H		21.9	22.3	22.3	22.7	23.2	21.5	21.9	22.0	22.4	22.8
12H		21.9	22.3	22.4	22.7	23.2	21.5	21.9	21.9	22.3	22.8
12H 4H		21.6	22.1	22.0	22.5	22.9	21.3	21.9	21.7	22.2	22.6
6H		21.8	22.2	22.2	22.6	23.1	21.5	21.9	21.9	22.3	22.8
8H		21.9	22.2	22.3	22.7	23.2	21.5	21.9	22.0	22.3	22.8
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 2.1 / - 4.3					+ 2.2 / - 4.6				
1.5H		+ 2.4 / - 5.7					+ 2.5 / - 6.0				
2.0H		+ 6.0 / - 4.0					+ 6.3 / - 4.3				

CIE Pub.117, 2233 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.8)
Area: 0.01766 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

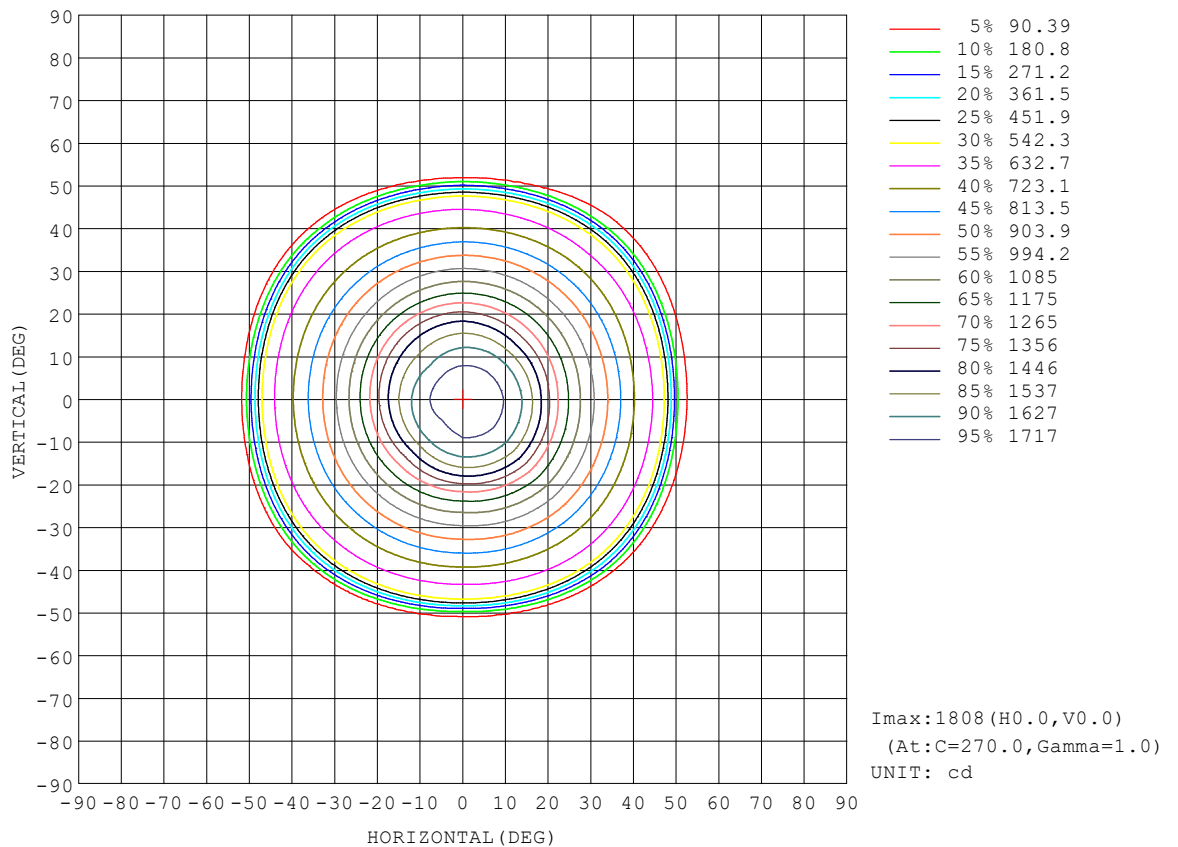
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	76	67	62	75	67	62	74	67	62	57
0.80	85	77	72	84	77	72	83	76	71	66
1.00	92	84	79	91	84	79	89	84	79	74
1.25	97	90	86	96	90	85	94	88	84	79
1.50	101	94	90	99	94	89	97	92	88	83
2.00	105	99	95	103	98	95	100	96	93	87
2.50	107	102	98	105	101	97	102	98	95	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	109	106	104	106	103	101	93
5.00	113	110	107	111	108	106	107	105	103	95
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Chen Songyu
Test Date: 2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.640m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

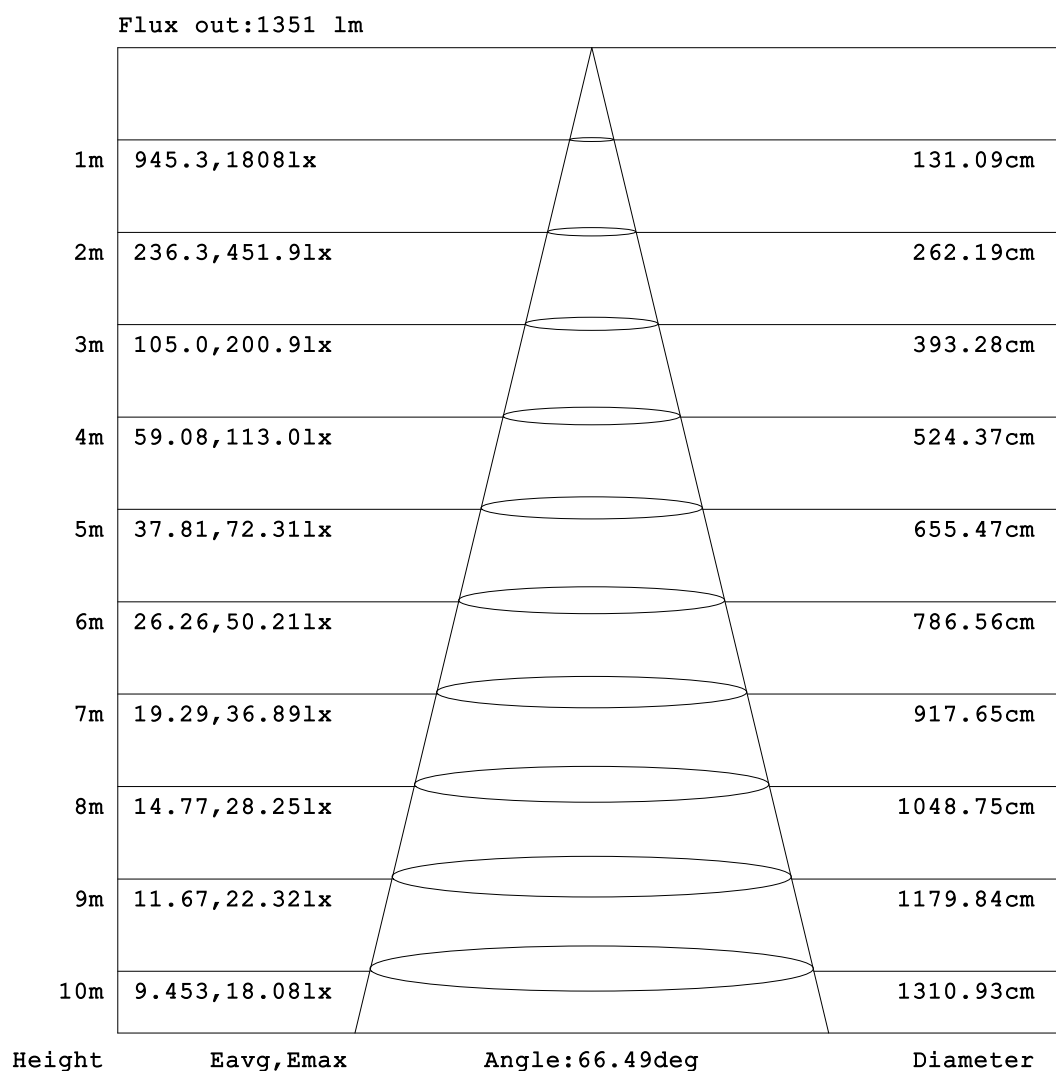


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:



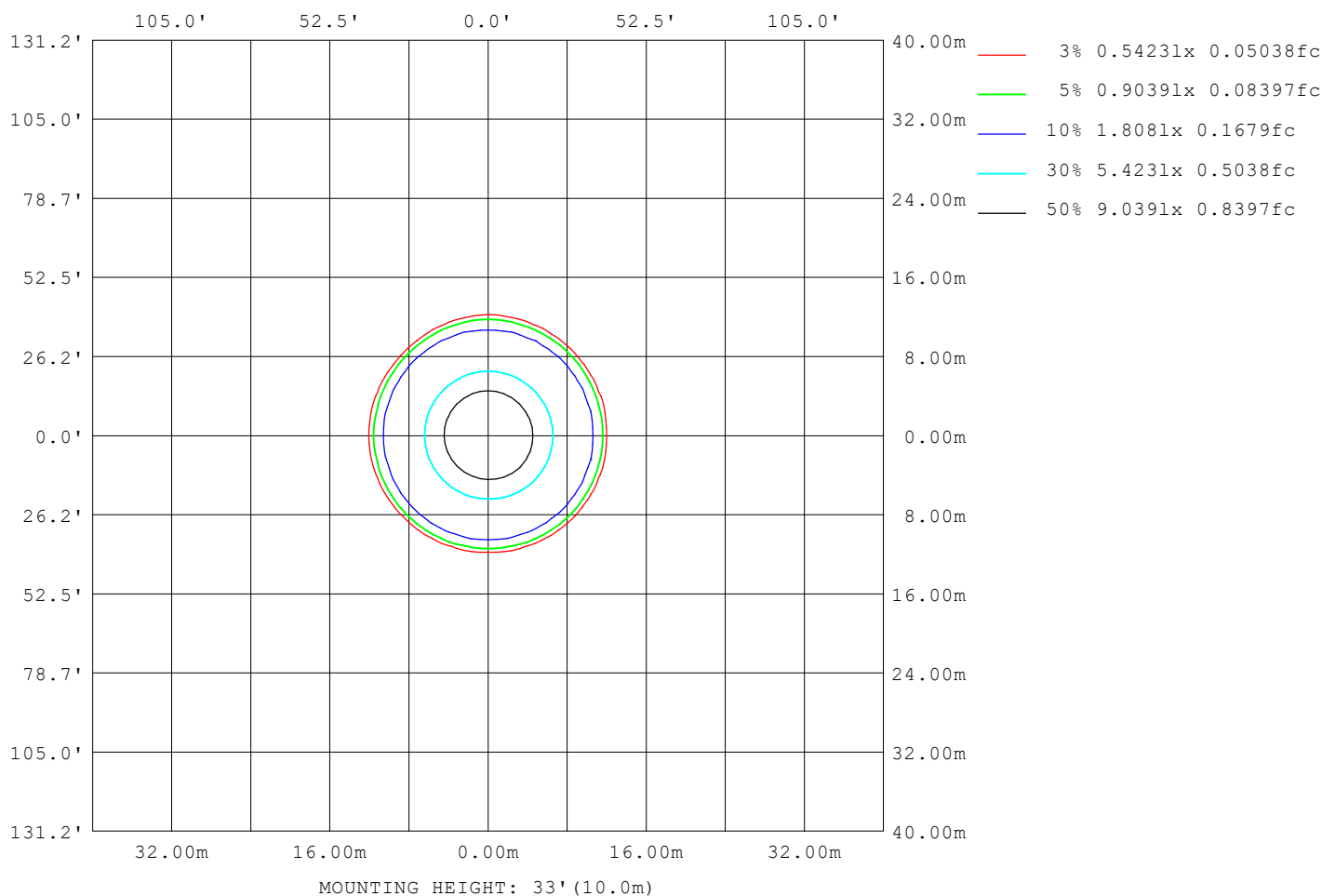
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Chen Songyu
Test Date: 2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.640m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

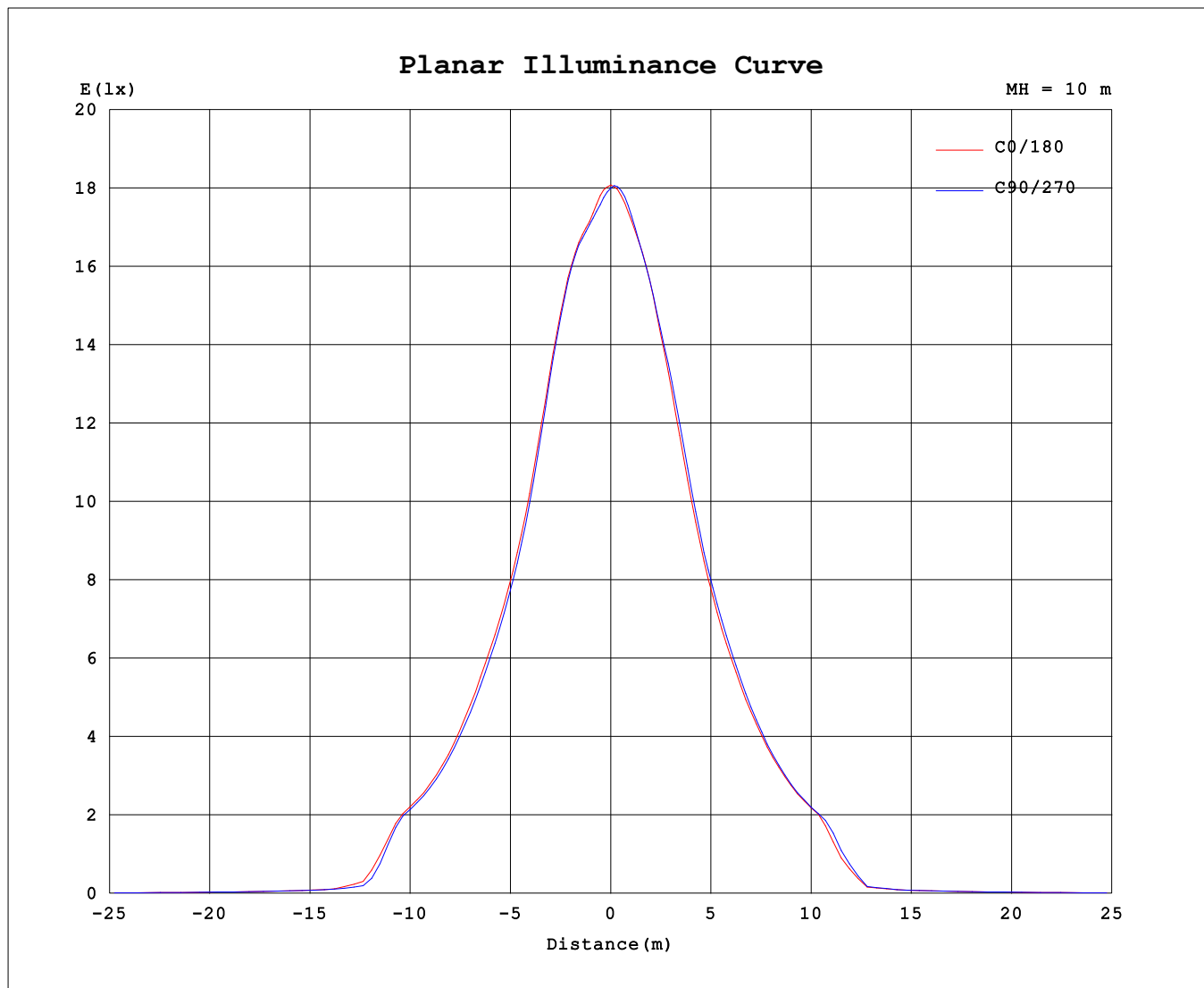
AvgL	cd/m2
L_0~180 (65) av	4980
L_0~180 (75) av	5342
L_0~180 (85) av	4006
L_90~270 (65) av	4888
L_90~270 (75) av	5103
L_90~270 (85) av	2131
L_45 (65) av	5012
L_45 (75) av	5250
L_45 (85) av	2674

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2024-04-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3℃
 Operators: Chen Songyu
 Test Date: 2024-04-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 9.640m [K=1.0000]
 Remarks:

Test:U:240.35V I:0.1085A P:25.173W PF:0.9652 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2232.97x1 lm		
Name: DL25WCOB-IP54-CC	Type: 25W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.075	shielding angle:

UNIT: cd

[illegible]

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

```