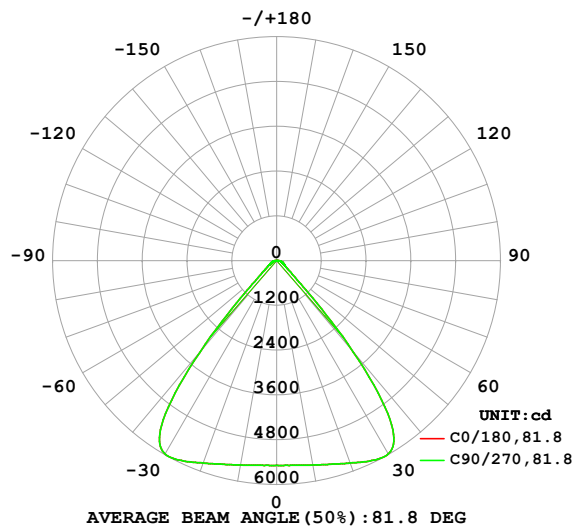


LUMINAIRE PHOTOMETRIC TEST REPORT

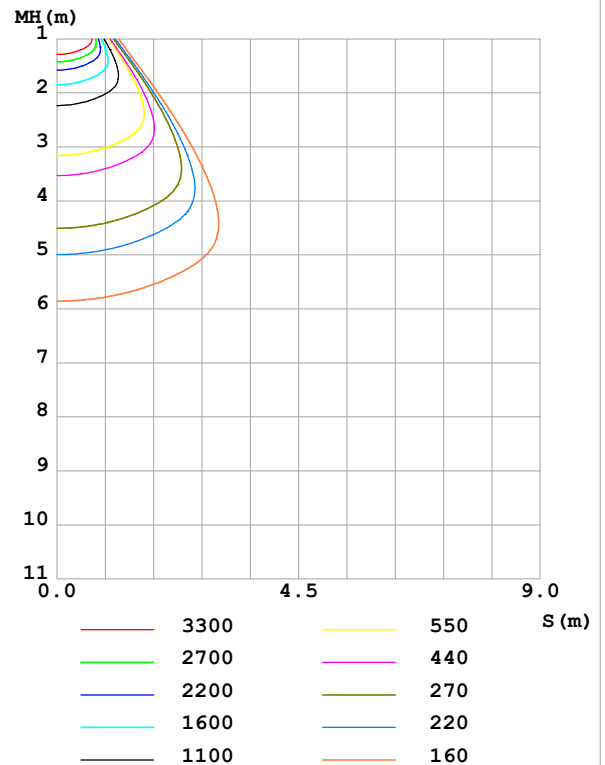
Test:U:230.13V I:0.2699A P:57.293W PF:0.9224 Freq:50.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:9752.67x1 lm		
NAME: HB74-100 (60W) -H27802	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 170.22 lm/W			
MODEL	/	I _{max} (cd)	5994	S/MH (C0/180)	1.20
NOMINAL POWER(W)	/	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE(V)	/	TOTAL FLUX(lm)	9752.7	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX(lm)	9752.67	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	/	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: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LYQ
Test Date:2026-07-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [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	5557	5557	5557	5557	5557	5557	5557	5557	0- 10	527.2	527.2	5.41,5.41
20	5772	5772	5772	5772	5772	5772	5772	5772	10- 20	1606	2133	21.9,21.9
30	5982	5982	5982	5982	5982	5982	5982	5982	20- 30	2738	4871	49.9,49.9
40	3213	3213	3213	3213	3213	3213	3213	3213	30- 40	3163	8034	82.4,82.4
50	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	40- 50	1046	9081	93.1,93.1
60	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	50- 60	300.1	9381	96.2,96.2
70	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	60- 70	188.9	9570	98.1,98.1
80	92.10	92.10	92.10	92.10	92.10	92.10	92.10	92.10	70- 80	134.7	9704	99.5,99.5
90	2.090	2.090	2.090	2.090	2.090	2.090	2.090	2.090	80- 90	48.38	9753	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): 8785 lm

%lum = 90.1%

%lamp = 90.1%

Conical surface Flux(120deg): 9380.7 lm

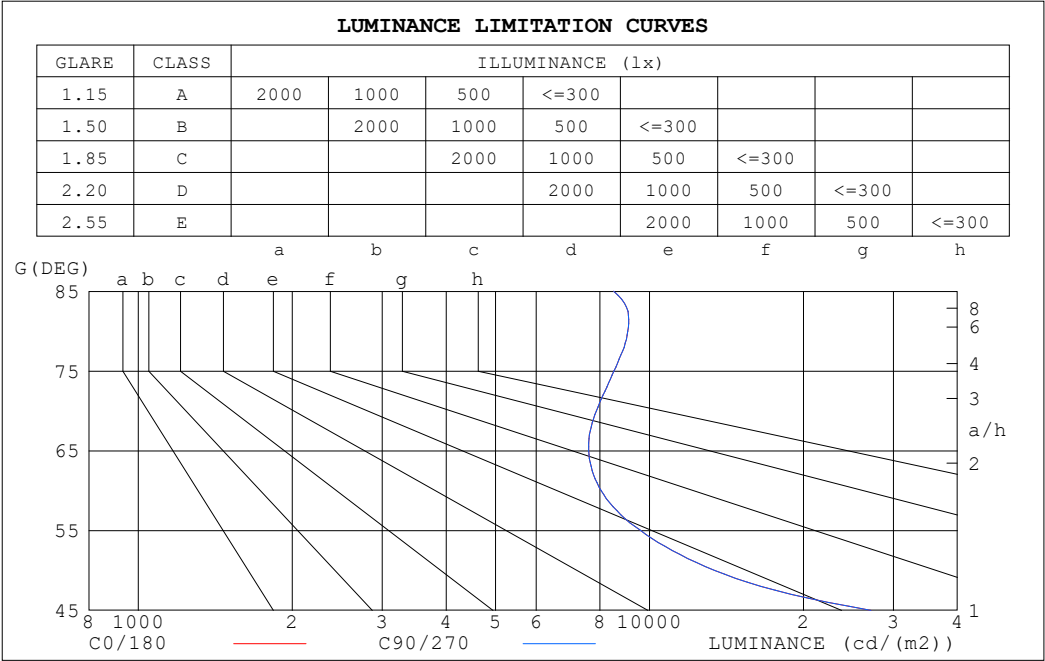
%lum = 96.2%

%lamp = 96.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:LYQ
 Test Date:2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
 Humidity:65.0%
 Test Distance:10.250m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



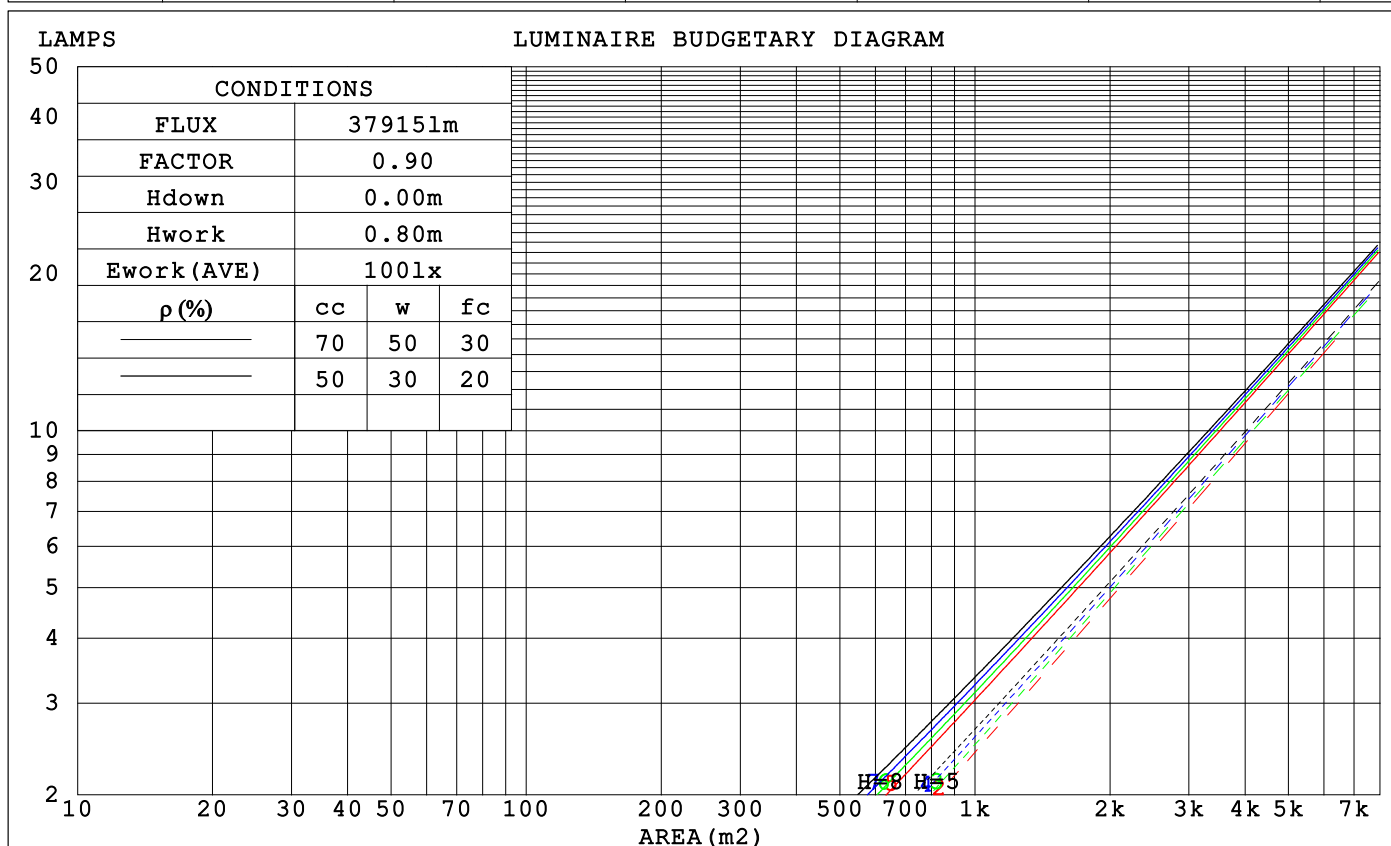
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8506	8506
80	9066	9066
75	8520	8520
70	7873	7873
65	7608	7608
60	8044	8044
55	9597	9597
50	13401	13401
45	27110	27110

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LYQ
Test Date:2026-07-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.03	1.07	1.04	1.02	1.03	1.00	.98	.99	.97	.95	.95	.94	.93	.91
2.0	.00	.95	.91	.98	.93	.90	.94	.91	.88	.91	.88	.86	.89	.86	.84	.82
3.0	.91	.85	.80	.90	.84	.80	.87	.82	.78	.84	.81	.77	.82	.79	.76	.74
4.0	.84	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.70	.76	.72	.69	.67
5.0	.77	.70	.65	.76	.70	.65	.74	.68	.64	.72	.67	.63	.71	.66	.63	.61
6.0	.71	.64	.59	.70	.64	.59	.69	.63	.58	.67	.62	.58	.66	.61	.57	.56
7.0	.66	.59	.54	.65	.58	.54	.64	.58	.53	.62	.57	.53	.61	.56	.53	.51
8.0	.61	.54	.49	.60	.54	.49	.59	.53	.49	.58	.53	.49	.57	.52	.48	.47
9.0	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.43
10.0	.53	.46	.42	.52	.46	.42	.51	.45	.41	.51	.45	.41	.50	.45	.41	.40



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYQ
Test Date: 2026-07-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity: 65.0%
Test Distance: 10.250m [K=1.0000]
Remarks:

WEC AND CCEC

pcc	80%			70%			50%			30%			10%			0	
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
p _{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.214	.121	.038	.207	.118	.037	.194	.111	.036	.182	.105	.034	.171	.099	.032		
2.0	.205	.112	.034	.199	.110	.034	.188	.105	.032	.178	.100	.031	.169	.095	.030		
3.0	.195	.104	.031	.190	.102	.031	.180	.098	.030	.171	.094	.029	.163	.090	.028		
4.0	.185	.096	.028	.180	.094	.028	.172	.091	.027	.164	.088	.027	.157	.085	.026		
5.0	.175	.089	.026	.172	.088	.026	.164	.086	.025	.158	.083	.025	.151	.081	.024		
6.0	.167	.084	.024	.163	.083	.024	.157	.080	.023	.151	.078	.023	.145	.076	.023		
7.0	.159	.078	.022	.156	.078	.022	.150	.076	.022	.145	.074	.022	.140	.072	.021		
8.0	.151	.074	.021	.149	.073	.021	.143	.072	.020	.139	.070	.020	.134	.069	.020		
9.0	.144	.070	.019	.142	.069	.019	.137	.068	.019	.133	.067	.019	.129	.065	.019		
10.0	.138	.066	.018	.136	.066	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018		

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	.174	.157	.142	.149	.135	.122	.102	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.161	.132	.109	.138	.114	.094	.094	.079	.065	.054	.046	.038	.017	.015	.013	
3.0	.150	.114	.085	.129	.098	.074	.088	.068	.052	.051	.040	.030	.016	.013	.010	
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.133	.088	.055	.114	.076	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.080	.046	.109	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.042	.026	.014	.013	.008	.005	
8.0	.115	.066	.033	.099	.058	.029	.068	.040	.020	.040	.024	.012	.013	.008	.004	
9.0	.110	.061	.029	.095	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.105	.057	.025	.091	.050	.022	.063	.035	.016	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYQ
 Test Date: 2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
 Humidity: 65.0%
 Test Distance: 10.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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	2H	14.1	15.2	14.4	15.5	15.8	14.1	15.2	14.4	15.5	15.8
	3H	15.8	16.8	16.2	17.1	17.5	15.8	16.8	16.2	17.1	17.5
	4H	16.7	17.6	17.1	18.0	18.3	16.7	17.6	17.1	18.0	18.3
	6H	17.5	18.3	17.9	18.7	19.1	17.5	18.3	17.9	18.7	19.1
	8H	17.8	18.6	18.2	19.0	19.4	17.8	18.6	18.2	19.0	19.4
	12H	18.0	18.8	18.4	19.1	19.6	18.0	18.8	18.4	19.1	19.6
	4H	2H	14.5	15.5	14.9	15.8	16.2	14.5	15.5	14.9	15.8
	3H	16.6	17.3	17.0	17.7	18.1	16.6	17.3	17.0	17.7	18.1
	4H	17.6	18.3	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.2
	6H	18.6	19.2	19.1	19.6	20.1	18.6	19.2	19.1	19.6	20.1
	8H	19.0	19.5	19.5	20.0	20.4	19.0	19.5	19.5	20.0	20.4
	12H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
	8H	4H	18.0	18.6	18.5	19.0	19.5	18.0	18.6	18.5	19.0
	6H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	8H	19.6	20.0	20.2	20.6	21.1	19.6	20.0	20.2	20.6	21.1
	12H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	12H	4H	18.1	18.5	18.5	19.0	19.5	18.1	18.5	18.5	19.0
	6H	19.3	19.7	19.8	20.1	20.7	19.3	19.7	19.8	20.1	20.7
	8H	19.8	20.2	20.3	20.7	21.2	19.8	20.2	20.3	20.7	21.2
CIE190: 2010											

CIE190: 2010

Area: 0.0585053 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3℃
 Operators: LYQ
 Test Date: 2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
 Humidity: 65.0%
 Test Distance: 10.250m [K=1.0000]
 Remarks:

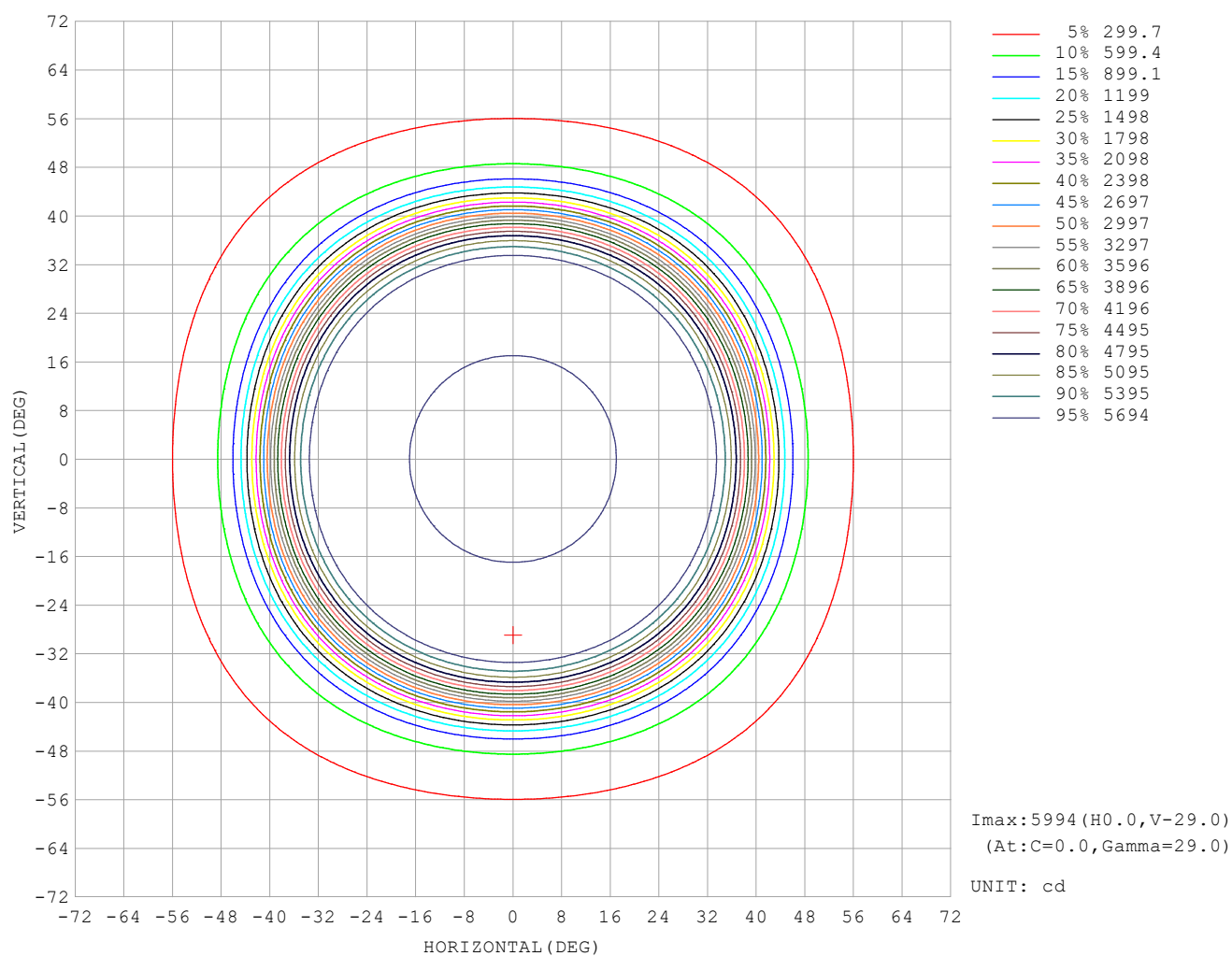
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	68	79	72	68	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	94	88	83	93	87	83	92	87	82	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	101	105	102	99	92
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	109	111	109	107	107	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: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYQ
 Test Date: 2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
 Humidity: 65.0%
 Test Distance: 10.250m [K=1.0000]
 Remarks:

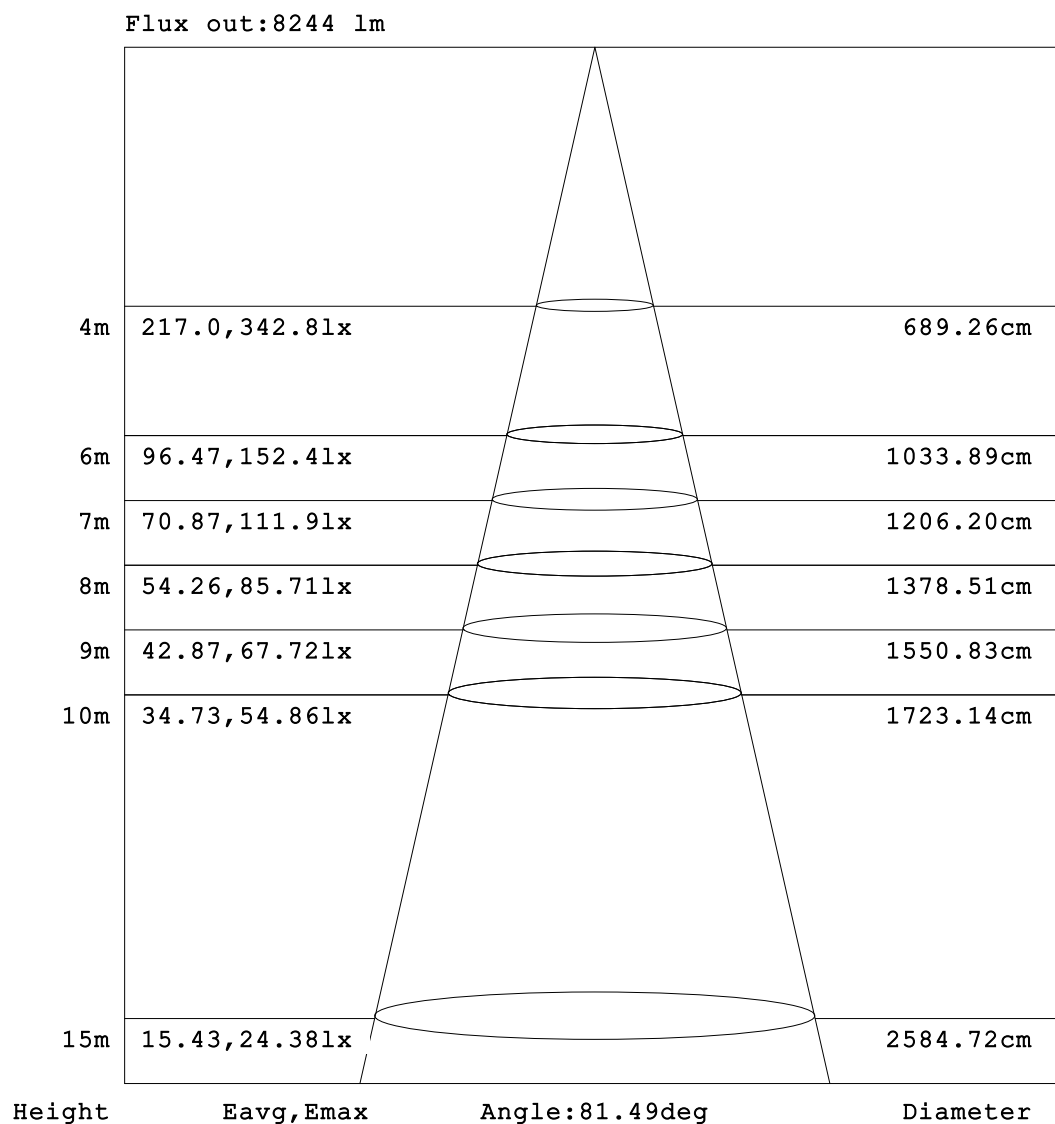
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYQ
Test Date: 2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity: 65.0%
Test Distance: 10.250m [K=1.0000]
Remarks:

AAI Figure

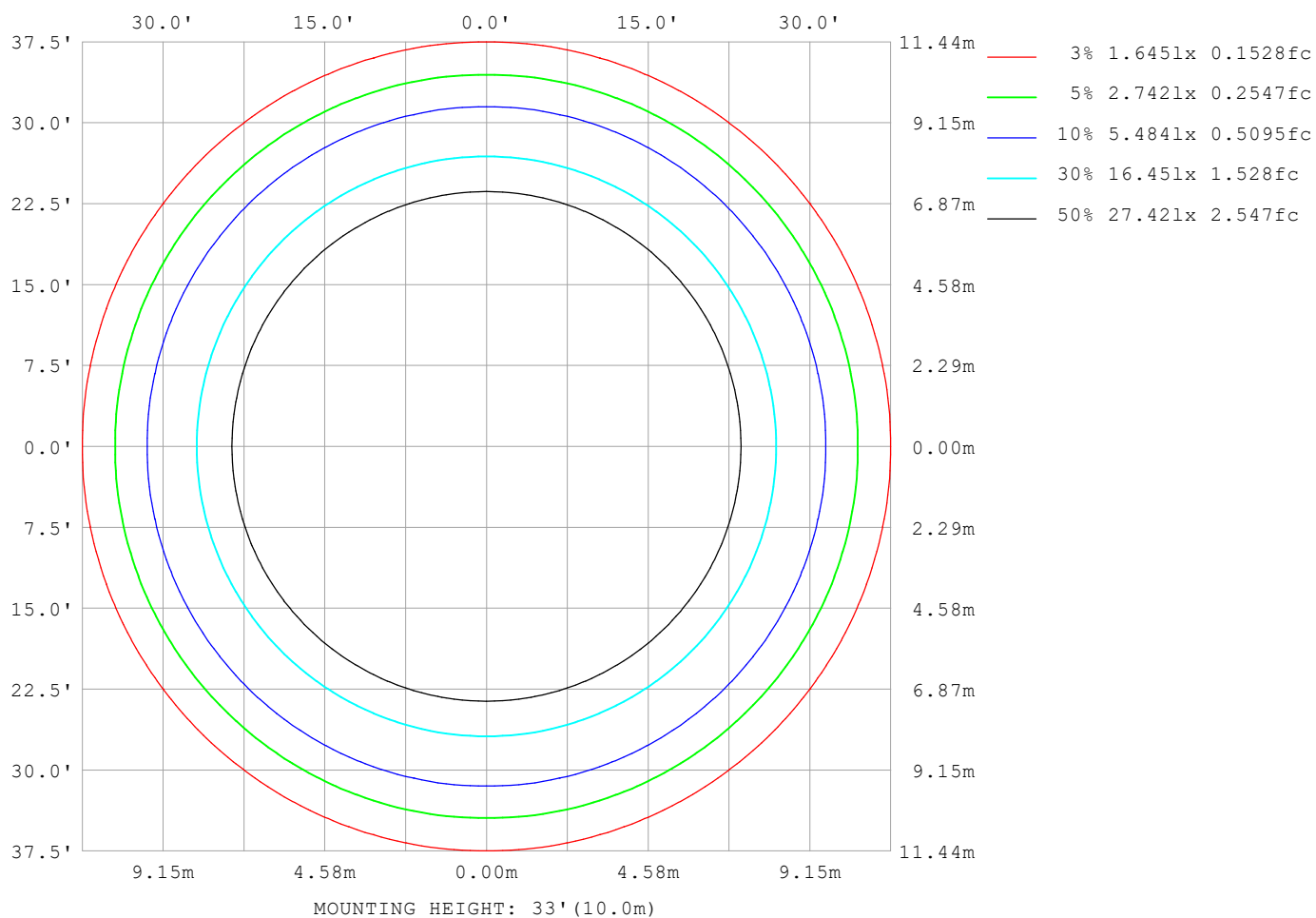


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYQ
 Test Date: 2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
 Humidity: 65.0%
 Test Distance: 10.250m [K=1.0000]
 Remarks:

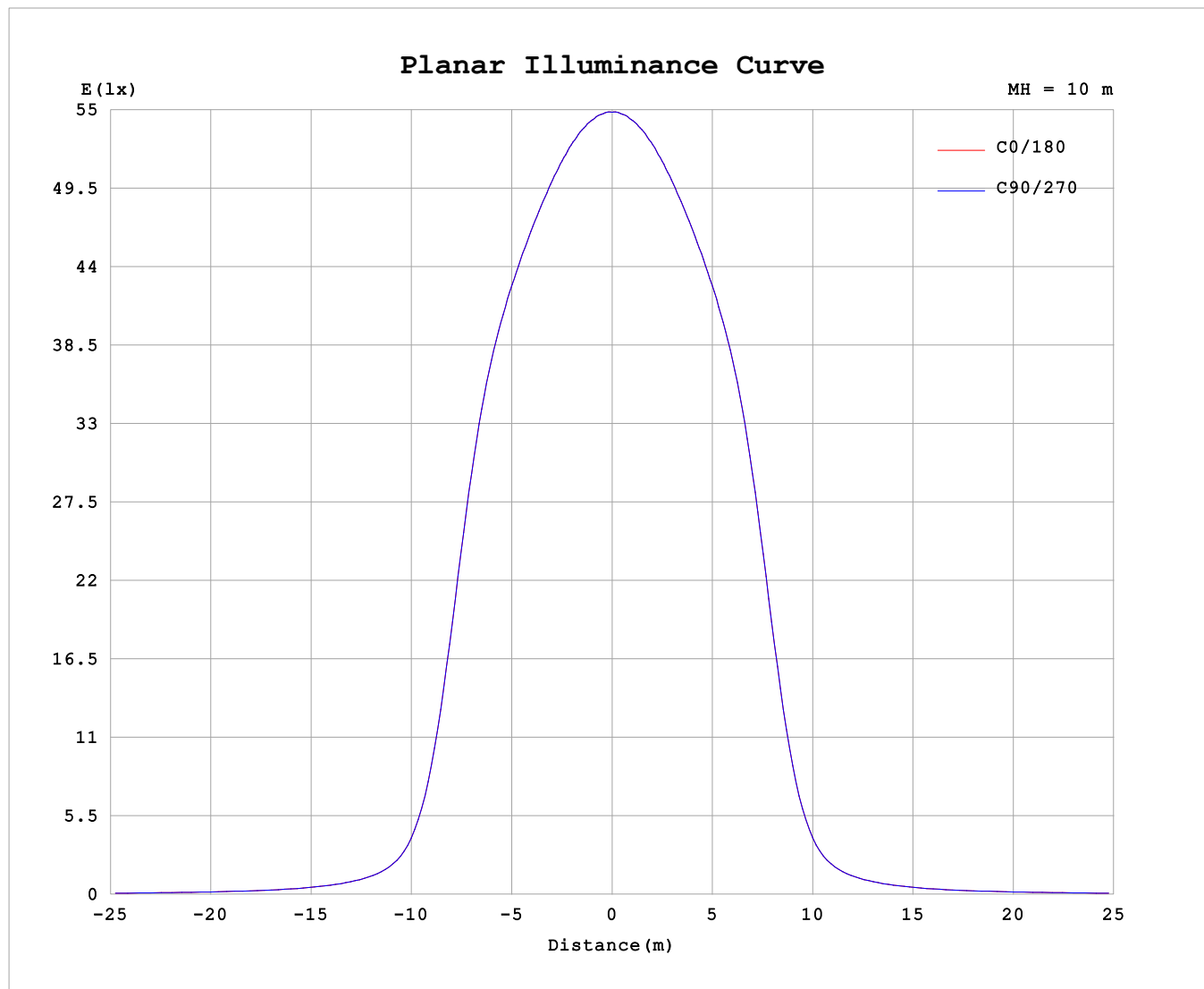
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYQ
Test Date: 2026-07-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity: 65.0%
Test Distance: 10.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYQ
Test Date: 2026-07-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity: 65.0%
Test Distance: 10.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

```