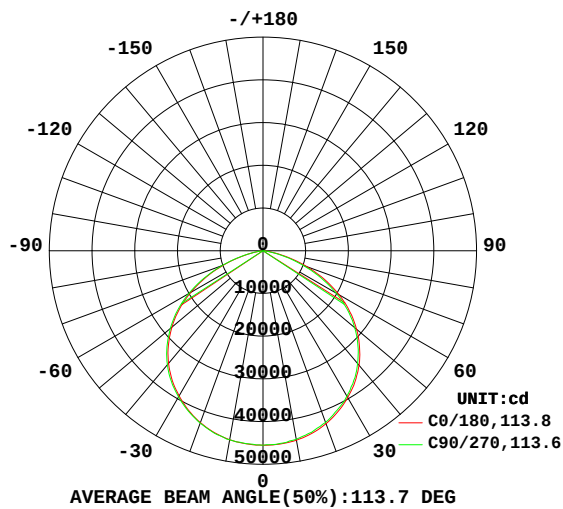


LUMINAIRE PHOTOMETRIC TEST REPORT

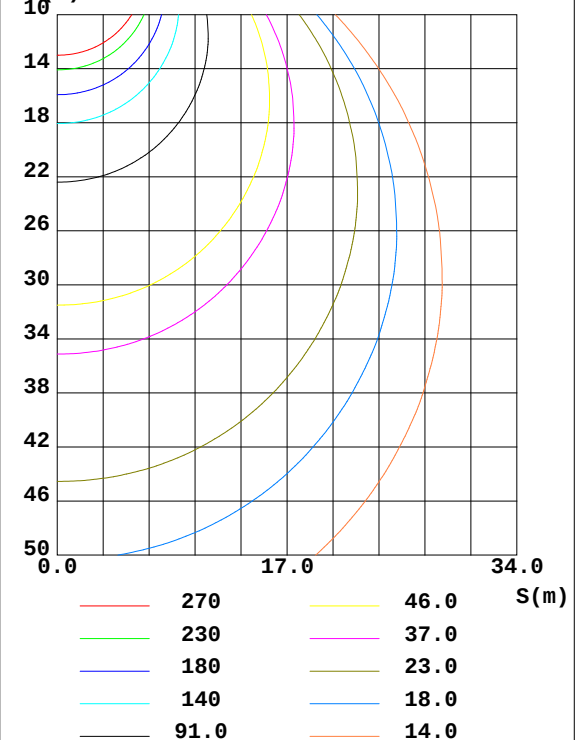
Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.60 lm/W			
MODEL	1000W	I _{max} (cd)	45600	S/MH(C0/180)	1.28
NOMINAL POWER(W)	1000	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	127334	η UP, DN(C0-180)	0.1, 49.8
NOMINAL FLUX(lm)	127334	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 50.0
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	99.7	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:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4503	4494	4480	4485	4492	4493	4493	4505	0- 10	4319	4319	3.39, 3.39
20	4309	4294	4280	4276	4284	4289	4293	4311	10- 20	12460	16779	13.2, 13.2
30	3968	3950	3929	3921	3926	3944	3953	3970	20- 30	19074	35853	28.2, 28.2
40	3499	3478	3448	3432	3441	3467	3484	3505	30- 40	23323	59176	46.5, 46.5
50	2857	2839	2805	2785	2784	2808	2831	2858	40- 50	24394	83569	65.6, 65.6
60	2052	2028	1970	1952	1953	1982	2008	2050	50- 60	21712	105281	82.7, 82.7
70	1097	1065	1001	983.0	989.3	1008	1017	1093	60- 70	15038	120319	94.5, 94.5
80	241.7	220.1	177.7	168.4	172.6	179.5	183.5	229.4	70- 80	6110	126429	99.3, 99.3
90	3.778	3.535	3.324	2.856	2.632	2.889	3.502	3.600	80- 90	561.1	126990	99.7, 99.7
100	2.089	1.959	1.647	1.763	2.130	2.114	2.321	2.188	90-100	24.02	127014	99.7, 99.7
110	2.854	2.791	2.713	2.628	3.562	3.585	3.779	3.566	100-110	26.50	127041	99.8, 99.8
120	4.128	4.148	4.086	3.920	5.092	5.025	5.303	5.363	110-120	38.60	127080	99.8, 99.8
130	6.384	6.061	6.433	5.582	6.095	5.311	5.729	6.011	120-130	47.00	127127	99.8, 99.8
140	8.582	8.222	9.137	7.792	7.027	6.141	7.100	7.203	130-140	52.34	127179	99.9, 99.9
150	10.46	10.54	11.04	10.61	9.096	8.359	9.252	9.621	140-150	55.46	127234	99.9, 99.9
160	11.69	12.02	12.23	11.45	11.96	11.80	12.25	12.69	150-160	50.83	127285	100, 100
170	13.74	13.73	14.33	13.74	12.45	12.73	13.04	13.77	160-170	35.71	127321	100, 100
180	15.17	15.17	14.76	14.61	15.17	14.99	14.81	15.10	170-180	13.56	127334	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT: lm		

Conical surface Flux(90deg): 71468 lm

%lum = 56.1%

%lamp = 56.1%

Conical surface Flux(120deg): 1.0528e+005 lm

%lum = 82.7%

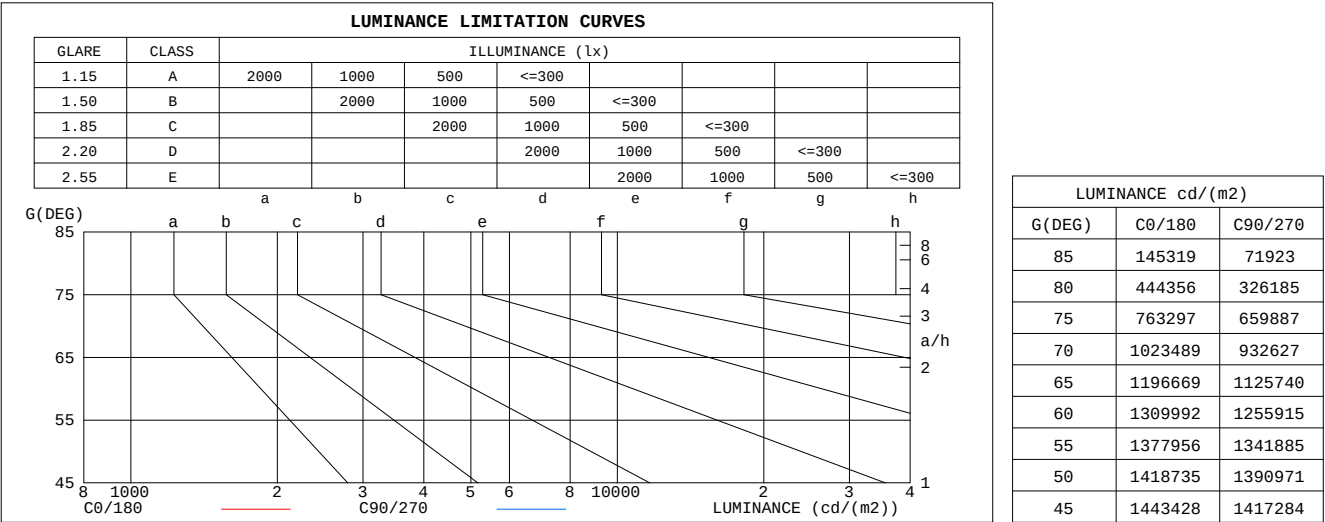
%lamp = 82.7%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

WEC AND CCEC

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm														
NAME:					TYPE:LED					WEIGHT:N/A				
SPEC.:N/A					DIM.:					SERIAL No.:N/A				
MFR.:					SUR.:					Shielding Angle:N/A				

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	.283	.161	.051	.276	.158	.050	.263	.151	.048	.251	.145	.046	.240	.139	.045	
2.0	.275	.151	.046	.269	.148	.046	.257	.143	.044	.246	.138	.043	.236	.134	.042	
3.0	.258	.138	.041	.253	.135	.041	.243	.131	.040	.233	.128	.039	.224	.124	.038	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.218	.117	.035	.211	.114	.035	
5.0	.224	.114	.033	.220	.113	.033	.212	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.209	.105	.030	.205	.104	.030	.198	.101	.030	.191	.099	.029	.185	.097	.029	
7.0	.195	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.174	.090	.027	
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.162	.078	.022	.159	.077	.021	.155	.076	.021	.150	.075	.021	.146	.073	.021	

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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021		
1.0	.181	.158	.139	.154	.136	.119	.106	.094	.082	.061	.054	.048	.019	.017	.016		
2.0	.172	.134	.102	.147	.115	.088	.101	.080	.062	.058	.046	.036	.019	.015	.012		
3.0	.164	.116	.078	.141	.100	.068	.097	.070	.047	.056	.041	.028	.018	.013	.009		
4.0	.157	.103	.062	.135	.089	.054	.093	.062	.038	.054	.036	.022	.017	.012	.007		
5.0	.150	.092	.050	.129	.080	.044	.089	.056	.031	.051	.033	.018	.017	.011	.006		
6.0	.143	.084	.042	.123	.073	.036	.085	.051	.026	.049	.030	.015	.016	.010	.005		
7.0	.136	.077	.036	.117	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004		
8.0	.130	.071	.031	.112	.062	.027	.077	.043	.019	.045	.026	.011	.015	.008	.004		
9.0	.124	.066	.028	.107	.058	.024	.074	.041	.017	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.025	.102	.054	.022	.071	.038	.015	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm											
NAME:					TYPE:LED			WEIGHT:N/A			
SPEC.:N/A					DIM.:			SERIAL No.:N/A			
MFR.:					SUR.:			Shielding Angle:N/A			
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		38.1	39.6	38.4	39.8	40.0	38.0	39.5	38.3	39.7	39.9
	3H	39.3	40.7	39.6	40.9	41.2	39.1	40.5	39.4	40.7	40.9
	4H	39.7	41.0	40.0	41.2	41.5	39.4	40.7	39.7	40.9	41.2
	6H	39.7	41.0	40.1	41.2	41.5	39.4	40.6	39.7	40.9	41.2
	8H	39.7	40.9	40.1	41.2	41.5	39.4	40.5	39.7	40.8	41.1
	12H	39.7	40.8	40.0	41.1	41.4	39.3	40.4	39.7	40.7	41.0
4H	2H	38.7	39.9	39.0	40.2	40.5	38.5	39.8	38.9	40.1	40.3
	3H	40.0	41.1	40.4	41.4	41.7	39.8	40.9	40.1	41.2	41.5
	4H	40.4	41.4	40.8	41.7	42.1	40.1	41.1	40.5	41.5	41.8
	6H	40.5	41.4	40.9	41.8	42.2	40.2	41.1	40.6	41.5	41.8
	8H	40.5	41.4	40.9	41.7	42.1	40.2	41.0	40.6	41.4	41.8
	12H	40.5	41.3	40.9	41.6	42.1	40.1	40.9	40.6	41.3	41.7
8H	4H	40.5	41.3	40.9	41.7	42.1	40.2	41.1	40.6	41.4	41.8
	6H	40.7	41.4	41.1	41.8	42.2	40.4	41.0	40.8	41.5	41.9
	8H	40.7	41.3	41.1	41.7	42.2	40.3	41.0	40.8	41.4	41.8
	12H	40.7	41.2	41.1	41.6	42.1	40.3	40.8	40.8	41.3	41.8
12H	4H	40.4	41.2	40.9	41.6	42.0	40.2	41.0	40.6	41.3	41.8
	6H	40.6	41.3	41.1	41.7	42.1	40.3	40.9	40.8	41.4	41.8
	8H	40.7	41.2	41.1	41.6	42.1	40.3	40.8	40.8	41.3	41.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5					
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4					

CIE Pub.117, 127334 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 16.8$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

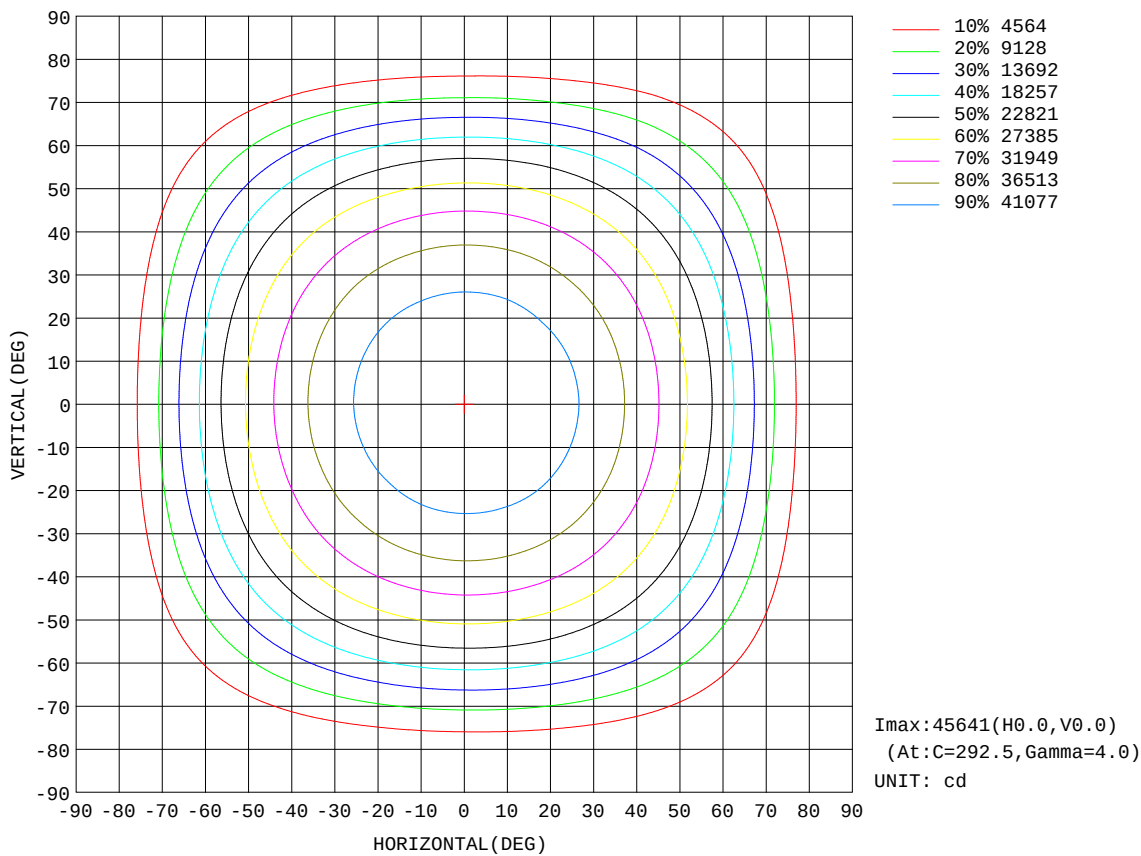
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	49	43
1.00	77	67	59	76	66	59	74	67	59	52
1.25	85	75	68	83	74	67	80	72	66	59
1.50	90	80	73	88	79	73	85	77	72	65
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	92	86	94	89	84	76
3.00	103	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
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:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

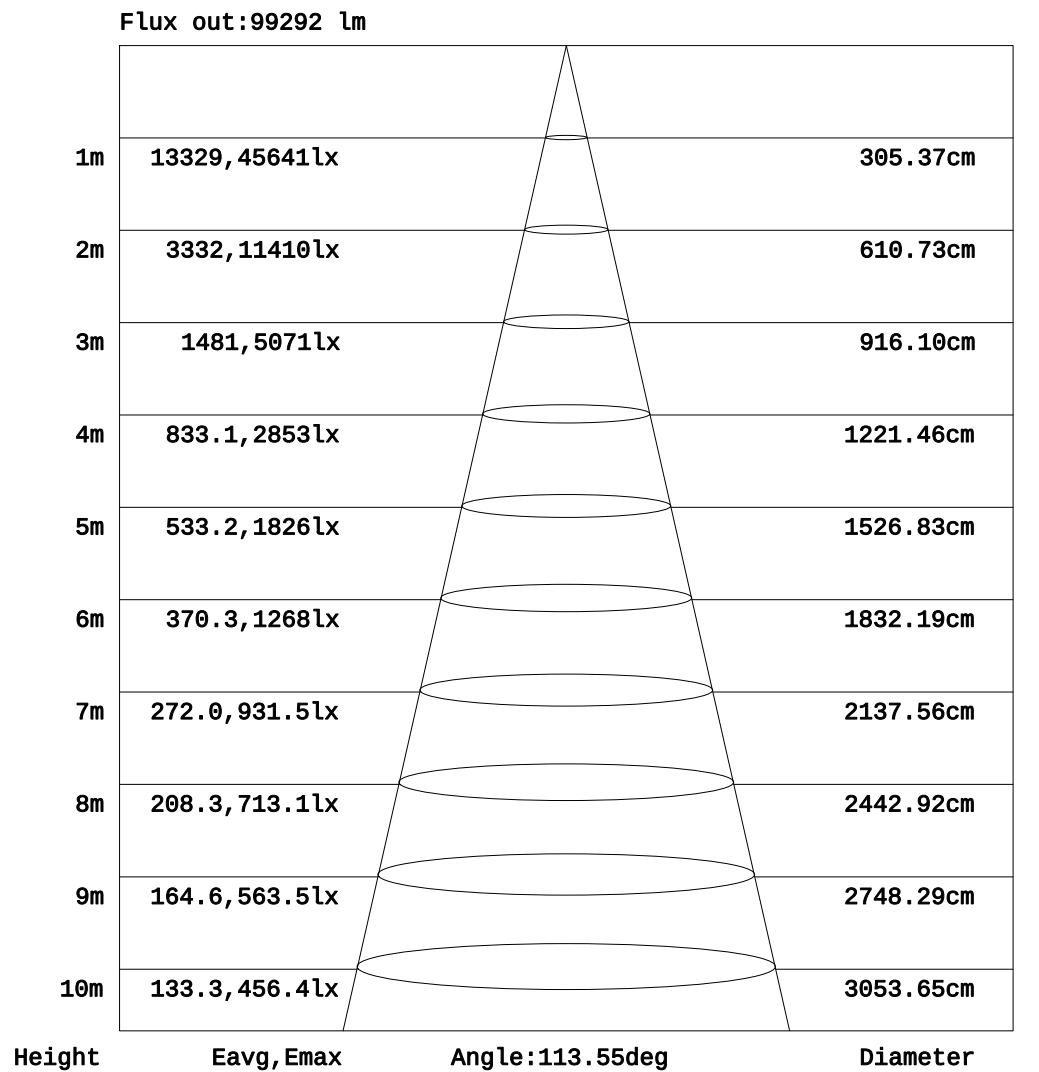


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Zero huang
Test Date: 2025-04-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity: 60%
Test Distance: 26.000m [K=1.5559]
Remarks:

AAI Figure

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

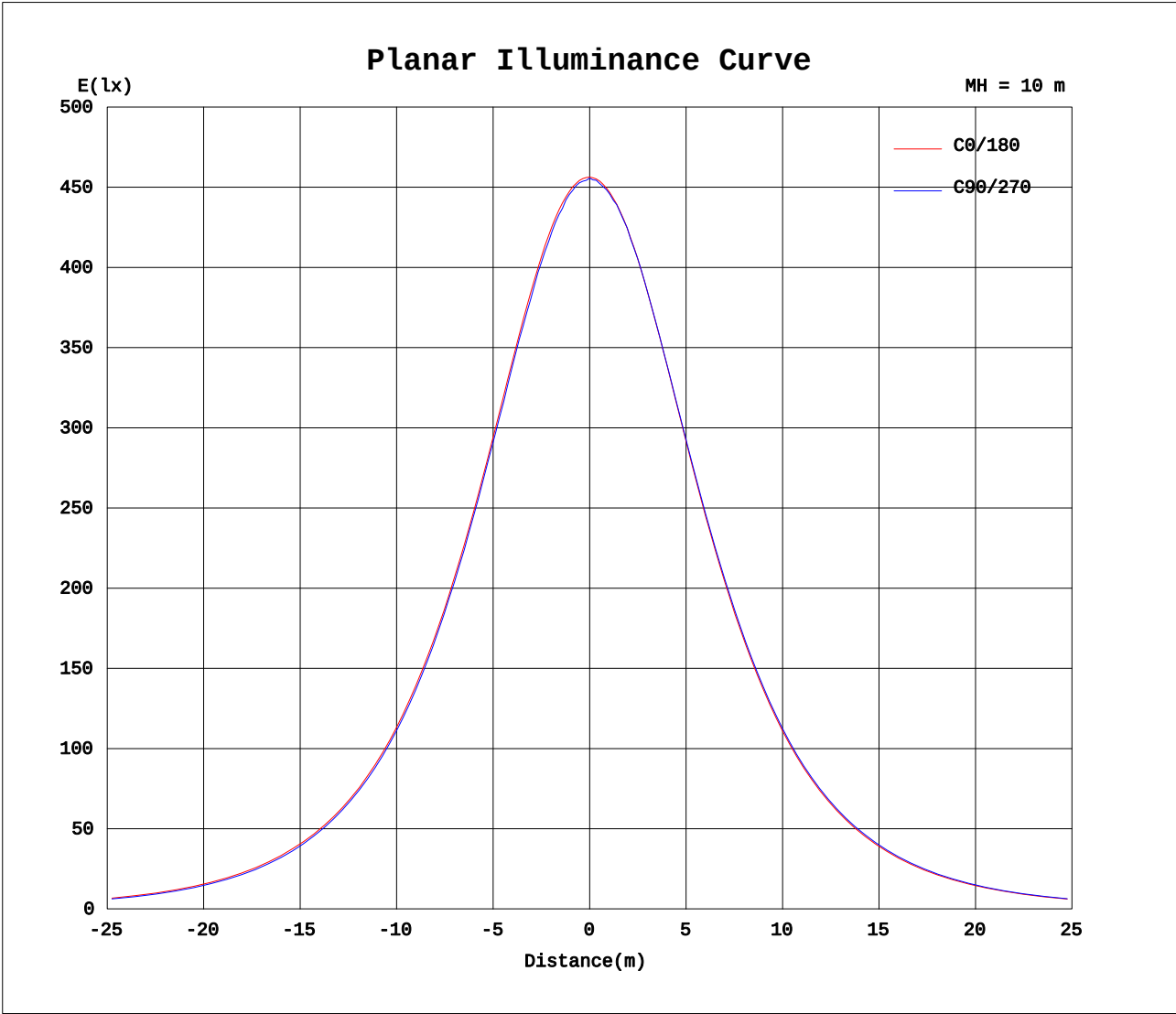


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Zero huang
 Test Date:2025-04-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.5559]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Zero huang
Test Date:2025-04-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.5559]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.04V I:4.5069A P:982.48W PF:0.9907 Freq:50.01Hz Lamp Flux:127334x1 lm																		
NAME:									TYPE:LED					WEIGHT:N/A				
SPEC.:N/A									DIM.:					SERIAL No.:N/A				
MFR.:									SUR.:					Shielding Angle:N/A				

Table--1

UNIT: ×10cd

γ (DEG)	C(DEG)																	
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5		
0	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553	4553		
5	4544	4544	4539	4539	4528	4545	4534	4537	4536	4540	4538	4542	4532	4545	4544	4546		
10	4503	4501	4494	4493	4480	4492	4485	4489	4492	4492	4493	4499	4493	4500	4505	4506		
15	4425	4421	4410	4410	4400	4403	4399	4405	4408	4409	4410	4416	4417	4429	4423	4428		
20	4309	4304	4294	4289	4280	4283	4276	4285	4284	4287	4289	4296	4293	4298	4311	4315		
25	4154	4150	4150	4129	4116	4125	4116	4120	4122	4130	4133	4138	4139	4156	4158	4160		
30	3968	3965	3950	3944	3929	3937	3921	3923	3926	3937	3944	3952	3953	3972	3970	3972		
35	3753	3748	3733	3729	3706	3714	3699	3701	3704	3714	3727	3736	3740	3755	3757	3761		
40	3499	3496	3478	3463	3448	3444	3432	3437	3441	3453	3467	3480	3484	3503	3505	3509		
45	3197	3197	3175	3161	3144	3140	3128	3123	3131	3143	3155	3168	3178	3198	3202	3207		
50	2857	2856	2839	2823	2805	2799	2785	2776	2784	2798	2808	2817	2831	2854	2858	2859		
55	2476	2477	2459	2442	2415	2411	2394	2387	2395	2408	2419	2433	2449	2474	2478	2488		
60	2052	2048	2028	2001	1970	1962	1952	1948	1953	1967	1982	1996	2008	2036	2050	2054		
65	1584	1577	1557	1525	1493	1480	1474	1473	1477	1488	1504	1516	1521	1550	1584	1586		
70	1097	1088	1065	1031	1001	985	983	986	989	997	1008	1018	1017	1050	1093	1100		
75	619	613	596	563	536	524	522	528	526	535	545	552	550	579	622	631		
80	242	234	220	204	178	169	168	173	173	172	179	180	184	201	229	242		
85	39.7	37.1	30.3	24.8	19.7	18.2	18.2	18.9	19.8	20.5	20.0	20.1	20.3	24.8	32.5	38.3		
90	3.78	3.37	3.54	3.47	3.32	2.93	2.86	2.87	2.63	2.86	2.89	3.10	3.50	3.53	3.60	3.30		
95	2.59	2.24	2.06	1.82	1.60	1.65	1.73	1.76	1.97	2.15	1.79	1.80	1.81	1.98	2.30	2.14		
100	2.09	2.15	1.96	1.71	1.65	1.67	1.76	1.75	2.13	2.28	2.11	2.09	2.32	2.28	2.19	2.20		
105	2.14	2.14	2.21	2.05	2.03	2.01	2.13	2.20	2.85	2.83	2.73	2.70	2.99	3.08	2.73	2.59		
110	2.85	2.73	2.79	2.79	2.71	2.60	2.63	2.80	3.56	3.48	3.59	3.55	3.78	3.78	3.57	3.48		
115	3.33	3.42	3.37	3.45	3.50	3.32	3.27	3.30	4.44	4.37	4.32	4.33	4.56	4.59	4.49	4.39		
120	4.13	4.08	4.15	4.02	4.09	3.81	3.92	3.94	5.09	5.14	5.02	4.86	5.30	5.27	5.36	5.18		
125	5.35	5.20	5.05	5.15	5.52	5.01	4.80	4.97	5.43	5.45	5.07	4.85	5.64	5.07	5.61	5.62		
130	6.38	6.18	6.06	6.39	6.43	5.86	5.58	5.82	6.09	5.74	5.31	5.49	5.73	5.89	6.01	6.08		
135	7.33	7.16	7.09	7.68	7.57	7.17	6.42	6.83	6.51	6.00	5.74	6.16	6.56	6.74	6.48	6.59		
140	8.58	8.46	8.22	9.29	9.14	8.88	7.79	8.42	7.03	6.78	6.14	7.16	7.10	7.32	7.20	7.39		
145	9.58	9.50	9.27	10.1	10.0	9.98	9.15	9.18	7.95	7.58	7.30	8.35	8.12	8.60	8.30	8.35		
150	10.5	10.8	10.5	11.0	11.0	10.8	10.6	9.92	9.10	8.82	8.36	9.60	9.25	9.79	9.62	9.55		
155	11.3	11.8	11.5	11.7	11.6	11.5	11.2	10.8	10.6	10.3	10.3	11.0	11.1	11.0	10.7	11.1		
160	11.7	12.2	12.0	12.1	12.2	12.0	11.5	11.6	12.0	11.8	11.8	12.0	12.3	12.5	12.7	12.1		
165	12.8	12.8	12.6	13.0	13.1	12.6	12.6	12.8	12.2	12.2	12.1	12.6	12.5	12.8	13.0	12.4		
170	13.7	13.7	13.7	14.2	14.3	13.9	13.7	13.9	12.5	12.5	12.7	13.2	13.0	13.4	13.8	13.0		
175	14.8	14.7	15.0	15.3	15.4	15.3	14.9	15.0	13.8	13.7	13.9	14.4	14.1	14.7	14.9	14.0		
180	15.2	14.9	15.2	14.8	14.8	15.1	14.6	15.0	15.2	15.2	15.0	15.2	14.8	14.9	15.1	14.7		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Zero huang
 Test Date:2025-04-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.5559]
 Remarks: