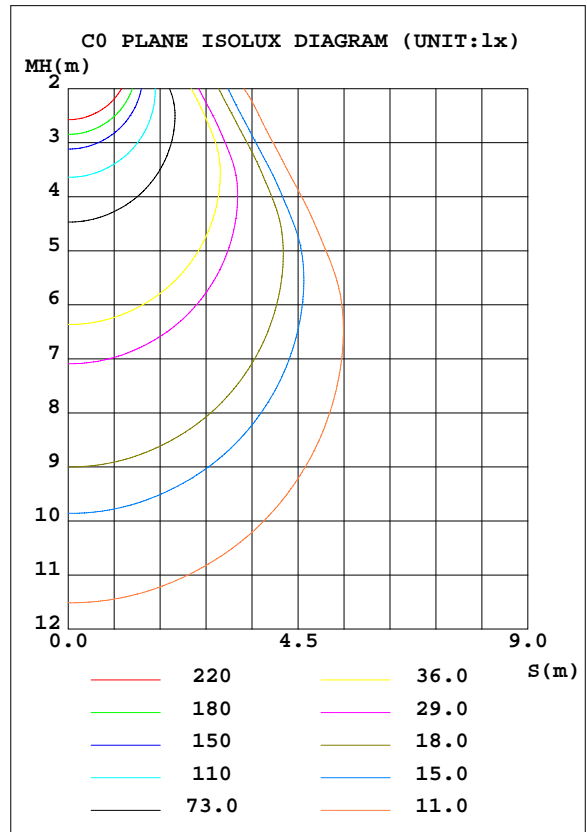
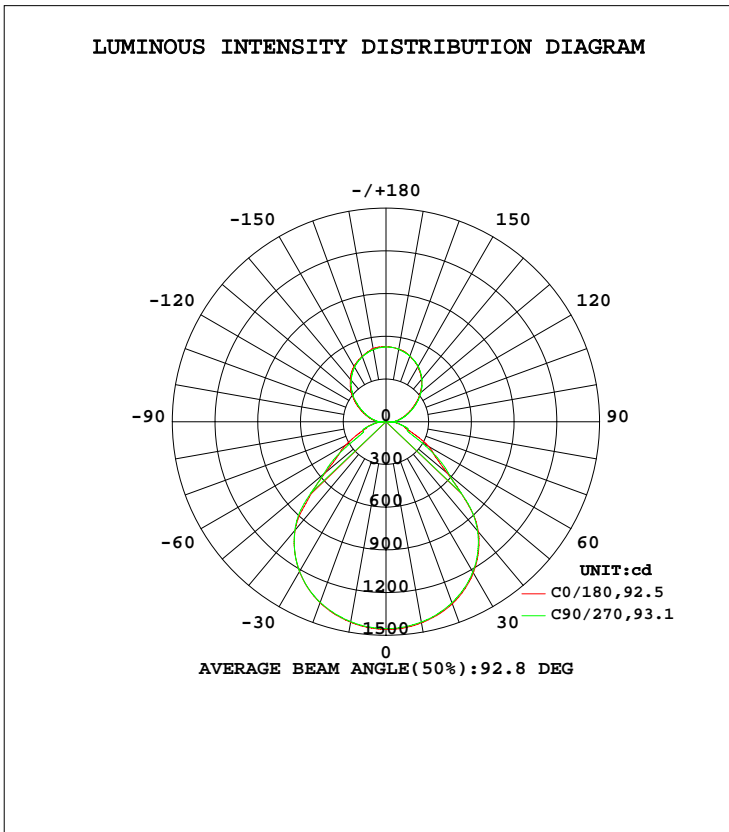


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.26 lm/W			
MODEL		I <sub>max</sub> (cd)	1458	S/MH(C0/180)	1.24
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	4822.4	η UP, DN(C0-180)	16.7,33.7
NOMINAL FLUX(lm)	4822.37	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	16.3,33.3
LAMPS INSIDE	1	η up(%)	33.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	67.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

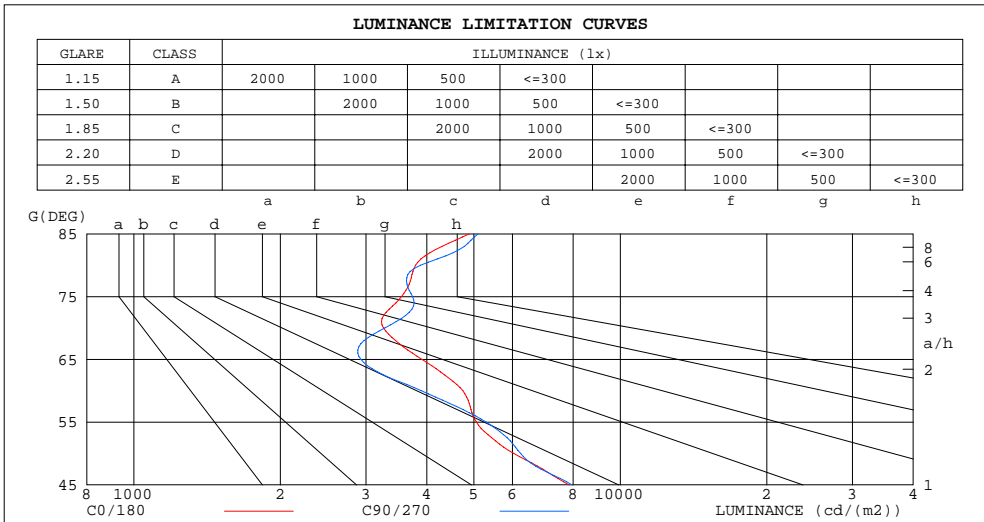
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φlum, lamp
10	1434	1432	1428	1425	1429	1427	1426	1426	0- 10	137.5	137.5	2.85,2.85
20	1361	1357	1353	1347	1353	1349	1350	1351	10- 20	394.1	531.6	11,11
30	1226	1222	1219	1212	1215	1210	1214	1218	20- 30	595.1	1127	23.4,23.4
40	1009	1001	1001	995.9	992.8	986.7	996.3	1007	30- 40	698.1	1825	37.8,37.8
50	562.6	549.4	581.2	599.2	559.8	521.1	573.1	613.2	40- 50	610.0	2435	50.5,50.5
60	343.9	321.0	282.5	303.9	325.0	305.7	257.9	292.9	50- 60	383.3	2818	58.4,58.4
70	161.6	169.0	162.7	167.6	163.1	150.3	171.9	175.6	60- 70	214.7	3033	62.9,62.9
80	95.53	96.60	97.80	92.68	87.09	85.95	91.15	90.81	70- 80	137.6	3170	65.7,65.7
90	13.43	13.03	10.42	8.093	5.816	4.974	6.177	9.081	80- 90	61.51	3232	67,67
100	96.44	99.15	101.4	101.2	97.74	92.34	91.45	92.49	90-100	77.38	3309	68.6,68.6
110	155.3	161.5	164.2	162.2	158.5	153.2	149.0	151.5	100-110	132.7	3442	71.4,71.4
120	230.7	237.7	240.1	239.1	234.5	227.4	223.8	225.5	110-120	191.6	3634	75.3,75.3
130	314.1	317.2	320.1	320.3	317.0	311.5	307.7	310.2	120-130	245.0	3879	80.4,80.4
140	388.7	389.1	392.4	394.4	389.4	387.2	381.4	383.2	130-140	272.0	4151	86.1,86.1
150	447.3	448.4	450.7	450.2	449.8	446.6	442.6	444.5	140-150	262.6	4413	91.5,91.5
160	490.6	491.0	491.3	491.5	489.5	487.1	486.2	490.3	150-160	216.8	4630	96,96
170	517.6	514.9	517.0	521.0	521.9	517.6	514.6	514.6	160-170	142.6	4773	99,99
180	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	170-180	49.80	4822	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4894	5098
80	3794	3884
75	3550	3740
70	3259	3280
65	3908	2927
60	4744	3897
55	5060	5297
50	6036	6236
45	7845	7954

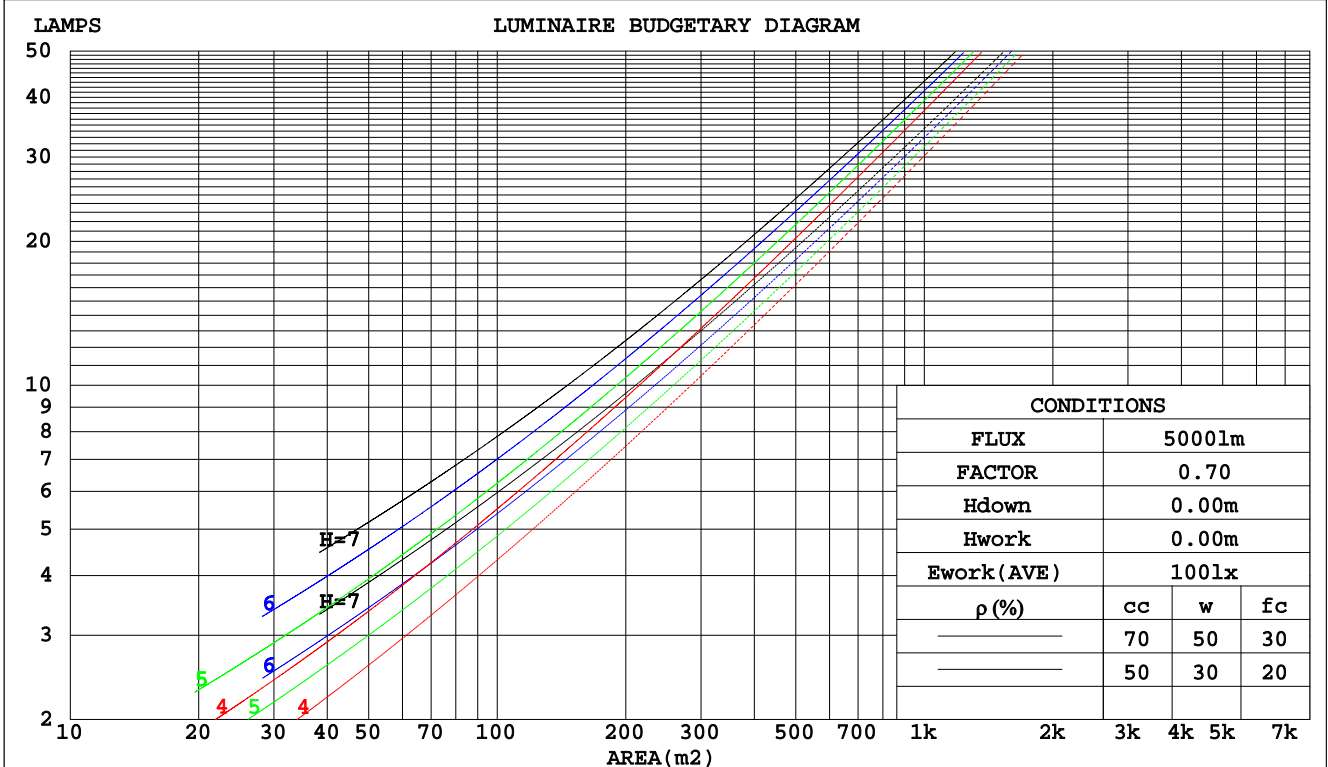
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio      Coefficients of Utilization(CU)															
0.0	1.11	1.11	1.11	1.05	1.05	1.05	.93	.93	.93	.82	.82	.82	.72	.72	.72	.67
1.0	.98	.94	.91	.93	.89	.86	.82	.80	.78	.73	.71	.70	.65	.63	.62	.58
2.0	.87	.81	.76	.82	.77	.72	.73	.69	.66	.65	.62	.60	.58	.56	.54	.50
3.0	.77	.70	.64	.73	.67	.62	.66	.61	.56	.59	.55	.51	.52	.49	.47	.43
4.0	.69	.61	.55	.65	.59	.53	.59	.53	.49	.53	.48	.45	.47	.44	.41	.38
5.0	.62	.54	.48	.59	.52	.46	.53	.47	.43	.48	.43	.40	.43	.39	.36	.34
6.0	.56	.48	.42	.53	.46	.41	.48	.42	.38	.44	.39	.35	.39	.35	.32	.30
7.0	.51	.43	.38	.49	.41	.36	.44	.38	.34	.40	.35	.31	.36	.32	.29	.27
8.0	.46	.39	.34	.44	.37	.32	.40	.35	.30	.37	.32	.28	.33	.29	.26	.24
9.0	.43	.35	.30	.41	.34	.29	.37	.31	.27	.34	.29	.26	.31	.27	.24	.22
10.0	.39	.32	.27	.38	.31	.26	.34	.29	.25	.31	.27	.23	.29	.25	.22	.20



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

WEC AND CCEC

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.269	.153	.048	.252	.144	.046	.220	.126	.040	.191	.110	.035	.164	.095	.031	
2.0	.251	.137	.042	.236	.130	.040	.207	.115	.036	.180	.101	.032	.156	.088	.028	
3.0	.233	.124	.037	.219	.117	.035	.193	.105	.032	.169	.093	.028	.147	.081	.025	
4.0	.217	.113	.033	.204	.107	.032	.181	.096	.029	.159	.085	.026	.138	.075	.023	
5.0	.202	.103	.030	.191	.098	.029	.169	.088	.026	.149	.078	.023	.130	.069	.021	
6.0	.189	.095	.027	.179	.090	.026	.158	.081	.024	.140	.073	.021	.122	.064	.019	
7.0	.177	.088	.025	.168	.083	.024	.149	.075	.022	.132	.067	.020	.115	.060	.018	
8.0	.167	.081	.023	.158	.078	.022	.140	.070	.020	.124	.063	.018	.109	.056	.016	
9.0	.157	.076	.021	.149	.072	.020	.133	.066	.019	.118	.059	.017	.103	.053	.015	
10.0	.148	.071	.020	.140	.068	.019	.126	.062	.017	.112	.055	.016	.098	.049	.014	

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	.442	.442	.442	.378	.378	.378	.258	.258	.258	.148	.148	.148	.047	.047	.047	
1.0	.431	.410	.391	.369	.352	.337	.252	.242	.233	.145	.140	.135	.046	.045	.044	
2.0	.422	.387	.358	.361	.333	.309	.248	.231	.216	.143	.134	.127	.046	.043	.041	
3.0	.414	.370	.336	.355	.320	.291	.244	.222	.204	.141	.130	.120	.045	.042	.039	
4.0	.406	.358	.321	.349	.309	.279	.240	.215	.196	.139	.126	.116	.045	.041	.038	
5.0	.400	.348	.310	.343	.301	.270	.236	.210	.190	.137	.123	.113	.044	.040	.037	
6.0	.393	.340	.302	.338	.294	.263	.233	.206	.186	.135	.121	.111	.044	.040	.037	
7.0	.387	.334	.296	.333	.289	.258	.230	.203	.183	.134	.119	.109	.043	.039	.036	
8.0	.381	.328	.292	.328	.285	.254	.227	.200	.180	.132	.118	.107	.043	.039	.036	
9.0	.376	.324	.288	.324	.281	.251	.225	.197	.178	.131	.117	.106	.042	.038	.035	
10.0	.371	.320	.285	.320	.278	.249	.222	.195	.177	.129	.115	.106	.042	.038	.035	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 450*82			SERIAL No.:				
MFR.:			SUR.:3.14*0.215*0.215			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	16.2	17.2	16.8	17.9	18.6	16.0	17.0	16.6	17.7	18.5
3H	16.6	17.6	17.4	18.3	19.1	16.6	17.6	17.4	18.3	19.1
4H	17.1	18.0	17.8	18.7	19.5	17.1	18.0	17.8	18.7	19.5
6H	17.5	18.3	18.3	19.1	20.0	17.5	18.3	18.2	19.0	19.9
8H	17.7	18.5	18.5	19.3	20.2	17.7	18.5	18.5	19.2	20.1
12H	17.9	18.7	18.7	19.4	20.3	17.9	18.7	18.7	19.4	20.3
4H 2H	16.2	17.1	17.0	17.8	18.7	16.1	17.0	16.8	17.7	18.6
3H	17.0	17.7	17.7	18.5	19.4	17.0	17.8	17.8	18.5	19.5
4H	17.7	18.3	18.4	19.1	20.0	17.6	18.3	18.4	19.1	20.0
6H	18.3	18.9	19.1	19.7	20.6	18.1	18.7	19.0	19.5	20.5
8H	18.6	19.1	19.4	19.9	20.9	18.5	19.0	19.3	19.8	20.8
12H	18.9	19.4	19.7	20.2	21.2	18.8	19.3	19.7	20.1	21.1
8H 4H	17.8	18.4	18.6	19.2	20.2	17.8	18.3	18.6	19.1	20.1
6H	18.6	19.1	19.5	19.9	21.0	18.5	18.9	19.3	19.8	20.8
8H	19.1	19.5	19.9	20.3	21.4	18.9	19.3	19.8	20.2	21.2
12H	19.5	19.9	20.4	20.7	21.8	19.4	19.7	20.3	20.6	21.7
12H 4H	17.8	18.3	18.6	19.1	20.1	17.8	18.3	18.6	19.1	20.1
6H	18.7	19.1	19.6	19.9	21.0	18.5	18.9	19.4	19.8	20.8
8H	19.2	19.5	20.1	20.4	21.5	19.1	19.4	19.9	20.3	21.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.2				
2.0H	+ 0.8 / - 0.8					+ 0.8 / - 0.7				

CIE Pub.117, 4822 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.5)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

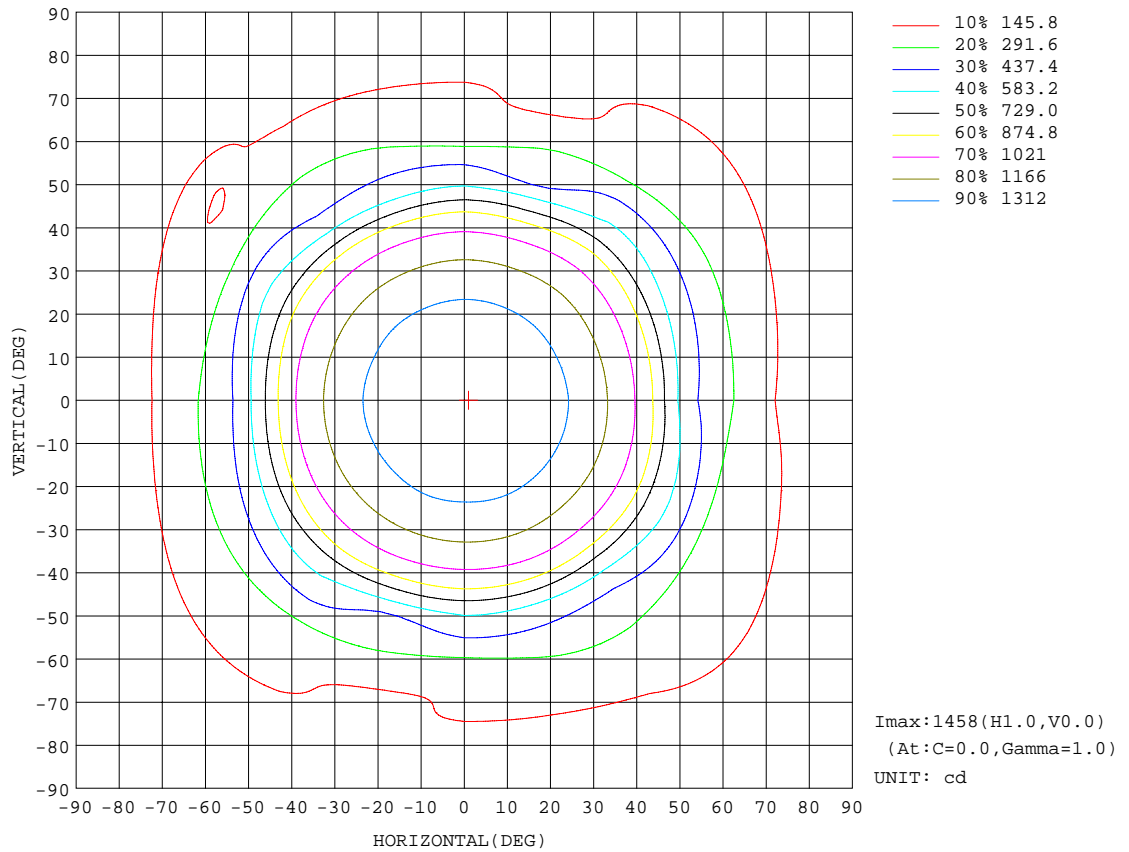
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	43	36	51	42	36	48	40	35	28
0.80	63	52	45	60	50	44	56	48	42	34
1.00	70	60	53	67	58	52	62	56	49	40
1.25	77	67	60	73	65	58	67	60	55	44
1.50	82	72	65	78	69	63	71	64	60	47
2.00	88	80	73	84	76	71	76	70	66	52
2.50	92	84	78	87	80	75	78	73	69	54
3.00	95	88	82	90	84	79	81	76	73	56
4.00	98	93	88	93	88	84	83	80	77	58
5.00	101	96	92	95	91	87	85	82	79	60
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

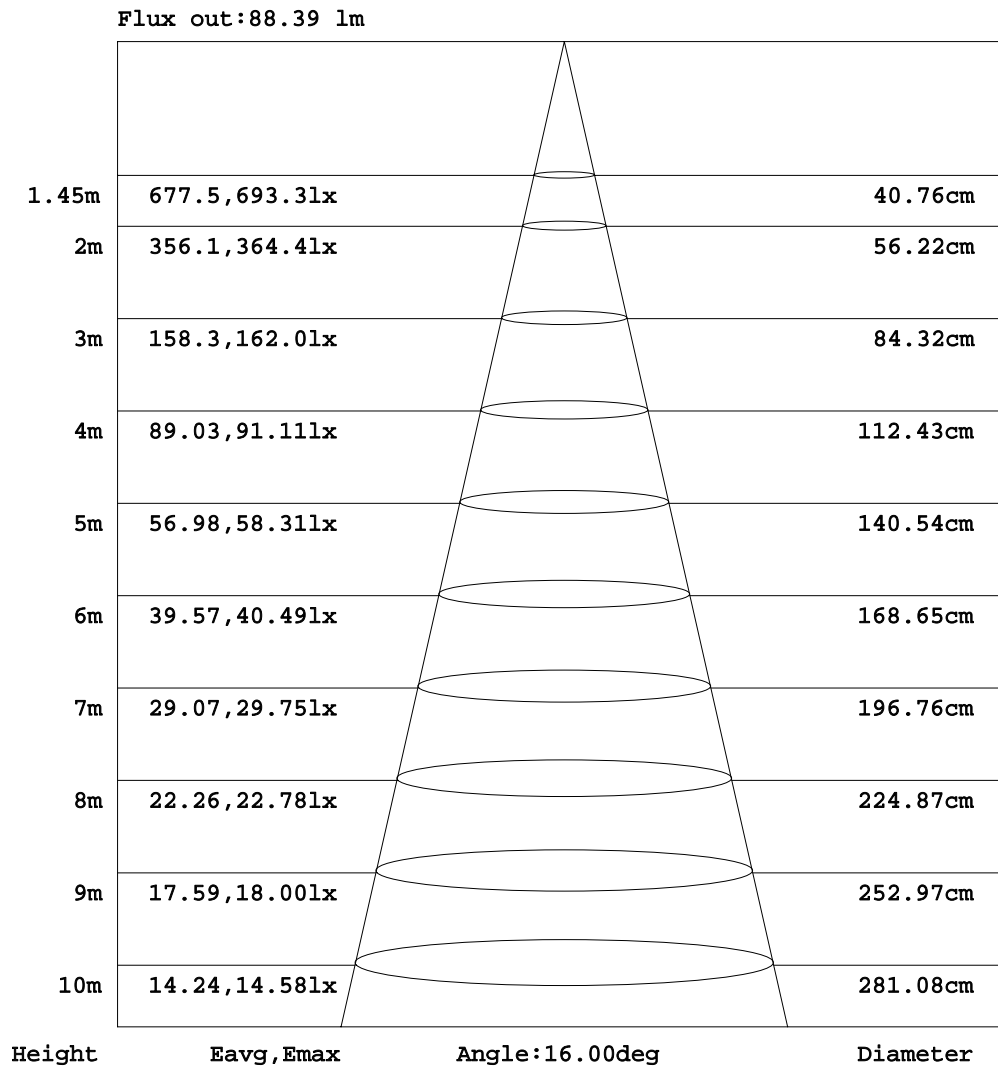


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=0.8547]  
 Remarks:

AAI Figure

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



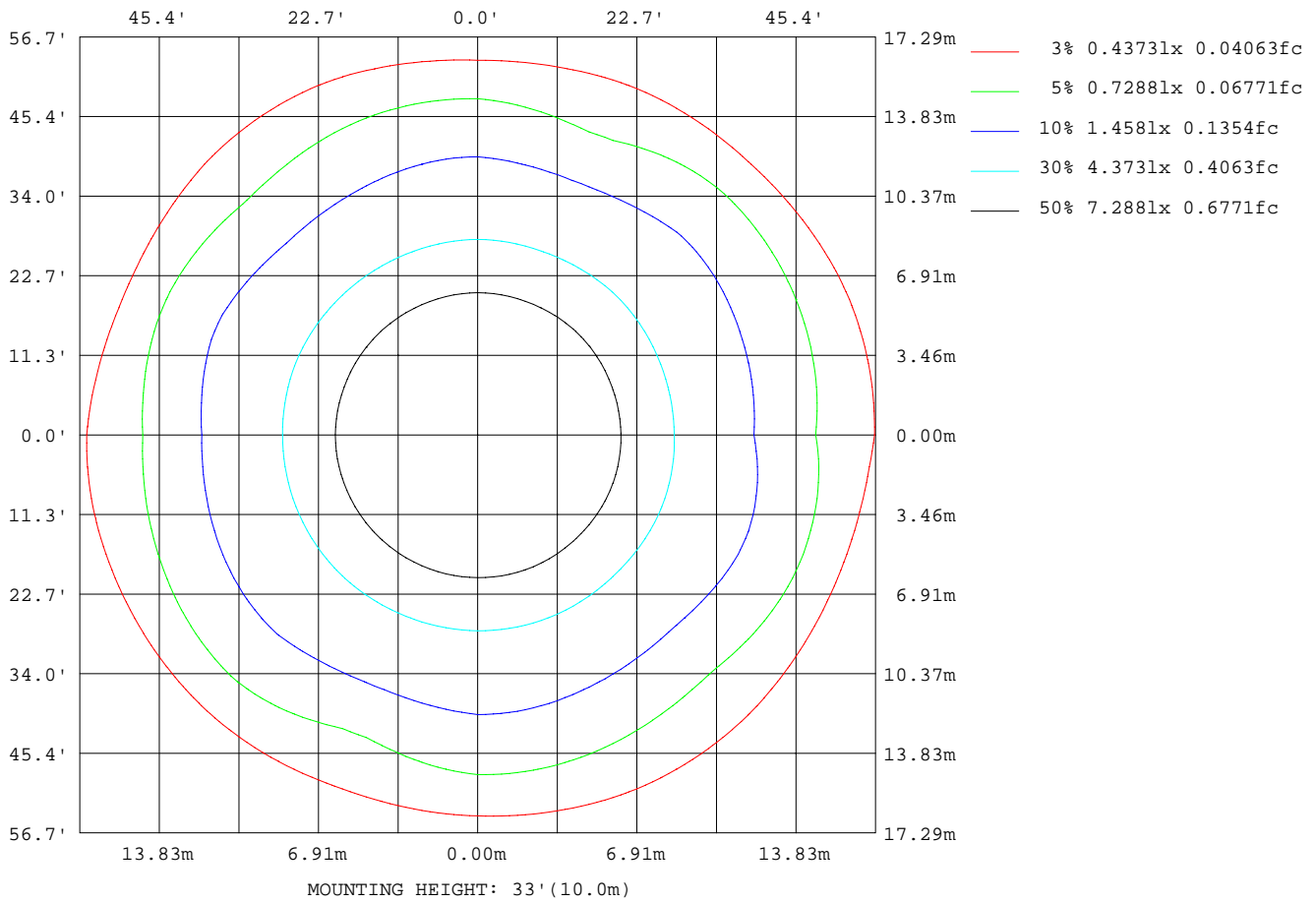
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

ISOLUX DIAGRAM

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

**LED Avg.L Report**

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

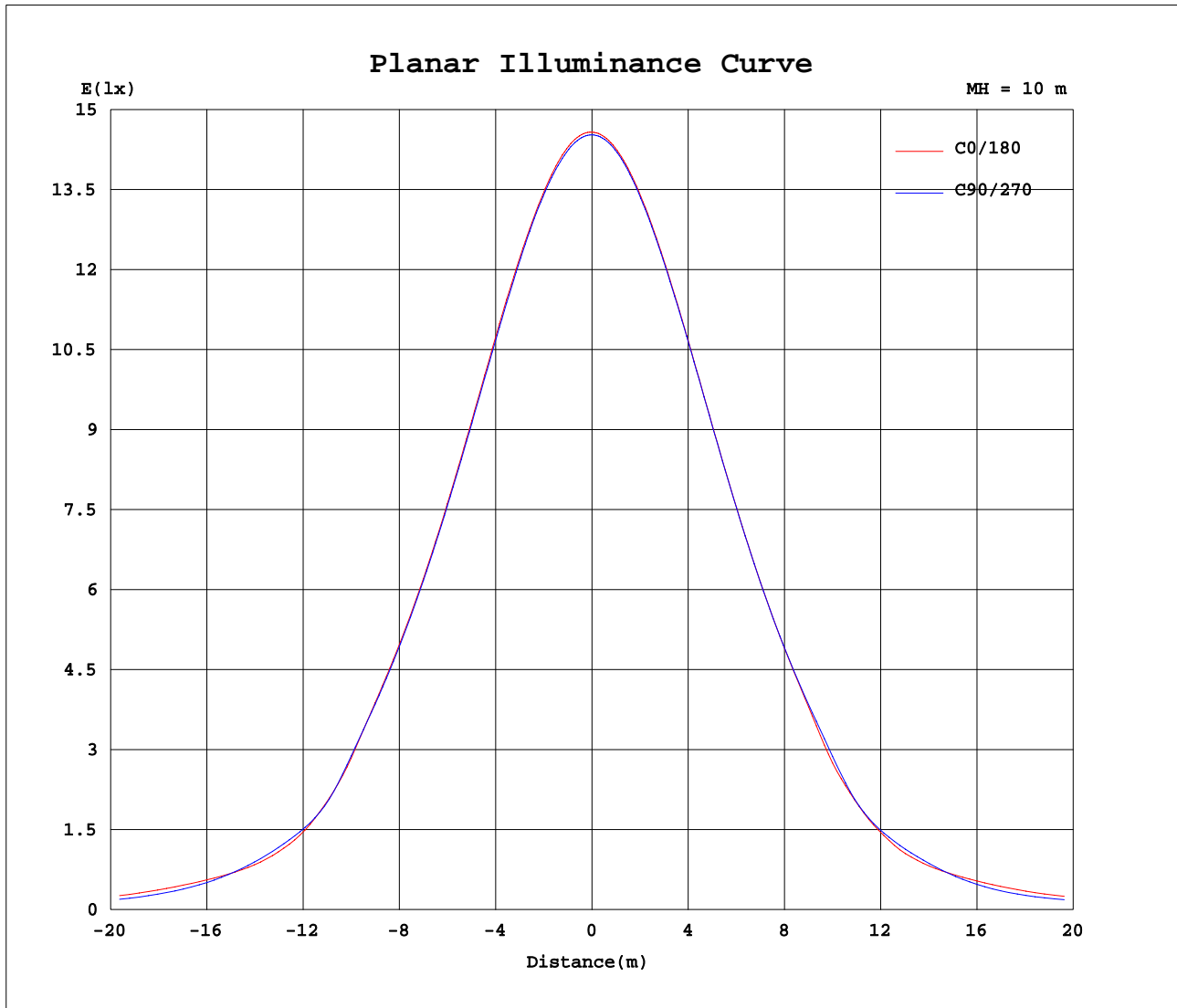
AvgL	cd/m2
L_0~180(65)av	3855
L_0~180(75)av	3566
L_0~180(85)av	4676
L_90~270(65)av	2928
L_90~270(75)av	3605
L_90~270(85)av	4693
L_45(65)av	3419
L_45(75)av	3538
L_45(85)av	4647

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1458	1457	1457	1457	1456	1456	1456	1456	1455	1455	1455	1455	1454	1454	1454	1454	1453	1453	1453
5	1453	1453	1452	1452	1452	1451	1451	1451	1450	1450	1450	1449	1449	1449	1448	1448	1448	1447	1447
10	1434	1434	1434	1434	1434	1434	1433	1433	1432	1432	1431	1431	1431	1431	1430	1430	1429	1429	1428
15	1403	1403	1403	1403	1403	1403	1402	1401	1401	1400	1401	1401	1401	1401	1401	1400	1399	1399	1398
20	1361	1361	1360	1360	1359	1359	1358	1358	1357	1357	1357	1357	1357	1357	1357	1356	1355	1354	1353
25	1302	1301	1301	1301	1301	1300	1300	1299	1299	1298	1298	1299	1299	1299	1298	1297	1296	1295	1294
30	1226	1227	1227	1227	1227	1226	1225	1224	1223	1222	1222	1222	1222	1222	1223	1223	1222	1221	1220
35	1130	1132	1133	1134	1134	1133	1131	1129	1127	1125	1125	1125	1126	1127	1127	1126	1125	1124	1123
40	1009	1013	1017	1018	1019	1017	1014	1009	1005	1001	1001	1001	1002	1003	1004	1003	1003	1002	1001
45	804	822	836	844	847	842	830	816	802	790	789	792	796	802	807	811	814	815	816
50	563	592	613	627	633	627	611	590	569	549	546	547	550	555	562	569	576	580	581
55	421	445	462	473	477	471	455	437	419	402	402	406	412	420	427	434	440	442	441
60	344	329	317	308	302	302	305	310	316	321	322	322	321	318	312	304	296	289	283
65	240	211	190	176	168	170	182	197	214	230	238	243	245	243	235	221	206	191	179
70	162	160	160	159	160	160	162	164	166	169	174	178	182	185	184	181	176	170	163
75	133	142	149	153	156	156	153	149	145	140	138	137	136	136	137	138	139	140	140
80	95.5	98.8	101	103	104	104	102	101	98.6	96.6	95.2	94.1	93.2	92.7	93.0	94.0	95.2	96.5	97.8
85	61.9	63.6	64.9	65.7	66.0	65.6	64.6	63.3	62.1	61.1	61.4	61.9	62.6	63.4	64.0	64.3	64.5	64.6	64.4
90	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.0	12.9	12.7	12.4	12.1	11.8	11.5	11.1	10.8	10.4
95	71.8	71.9	72.1	72.2	72.4	72.6	72.9	73.2	73.4	73.7	73.9	74.1	74.2	74.4	74.6	74.8	75.1	75.3	75.5
100	96.4	96.6	96.8	97.0	97.3	97.6	98.0	98.4	98.8	99.2	99.4	99.6	99.8	100	100	101	101	101	101
105	125	125	125	126	126	126	127	128	128	129	129	129	129	130	130	130	131	131	131
110	155	156	157	157	158	159	159	160	161	161	162	162	162	162	163	163	164	164	164
115	191	191	192	193	194	195	196	197	197	198	198	199	199	199	199	200	200	200	200
120	231	231	232	232	233	234	235	236	237	238	238	239	239	239	239	240	240	240	240
125	274	274	274	274	275	275	276	277	278	279	279	280	280	281	281	281	281	281	281
130	314	315	315	316	316	317	317	317	317	317	318	319	320	321	321	321	321	320	320
135	355	354	353	353	352	353	353	354	355	356	357	357	358	358	358	358	358	358	358
140	389	389	389	389	389	389	389	389	389	389	390	391	392	393	393	393	393	393	392
145	420	420	420	420	420	420	420	420	420	421	421	422	423	423	424	424	424	424	423
150	447	447	447	447	447	447	447	448	448	448	449	450	450	451	451	451	451	451	451
155	471	471	471	471	471	471	470	470	470	471	471	472	473	474	474	474	473	473	473
160	491	490	490	490	490	490	490	491	491	491	491	492	492	492	492	492	491	491	491
165	509	509	508	507	507	507	506	506	506	505	506	506	507	507	507	506	506	505	505
170	518	517	516	516	516	515	515	515	515	515	515	516	516	517	517	517	517	517	517
175	524	523	522	522	522	522	522	522	523	523	523	523	523	523	523	523	524	524	524
180	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--2

UNIT: cd

C( DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1453	1452	1452	1452	1452	1452	1452	1452	1451	1451	1451	1451	1451	1452	1453	1455	1456	1458	1458
5	1447	1446	1446	1446	1446	1445	1445	1445	1444	1444	1444	1444	1444	1445	1446	1447	1449	1450	1450
10	1428	1428	1428	1427	1427	1426	1426	1425	1425	1424	1424	1424	1424	1425	1426	1427	1428	1429	1429
15	1398	1397	1397	1397	1396	1395	1395	1394	1393	1393	1392	1392	1392	1393	1394	1395	1396	1397	1397
20	1353	1353	1353	1353	1353	1351	1350	1348	1347	1347	1347	1347	1347	1348	1349	1351	1352	1353	1352
25	1294	1294	1294	1294	1293	1291	1290	1288	1287	1287	1287	1288	1288	1289	1290	1291	1292	1292	1291
30	1218	1217	1217	1216	1215	1214	1213	1212	1212	1212	1212	1212	1212	1213	1213	1214	1214	1215	1214
35	1122	1121	1119	1118	1118	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117
40	998	996	994	992	992	992	993	995	996	996	996	996	995	995	994	994	993	993	994
45	809	801	794	788	787	792	798	804	810	810	809	806	802	797	791	785	781	778	784
50	566	550	534	521	523	540	560	580	599	603	604	601	596	588	579	571	564	560	571
55	420	399	378	363	366	389	417	445	469	472	469	462	452	442	431	422	414	409	416
60	283	285	288	292	295	297	299	302	304	307	311	314	317	321	324	327	327	325	313
65	182	188	196	204	208	206	204	202	202	210	219	228	236	242	244	243	240	233	214
70	152	142	134	128	128	136	146	157	168	174	178	181	183	182	178	174	168	163	159
75	137	132	128	124	123	124	126	129	131	130	128	127	126	126	128	130	132	134	136
80	98.6	99.2	99.4	99.4	98.7	97.5	96.0	94.4	92.7	91.3	90.0	88.9	87.9	87.2	86.8	86.6	86.7	87.1	88.5
85	63.7	62.7	61.8	60.9	60.3	60.1	60.0	59.9	59.9	59.8	59.6	59.4	59.2	58.7	58.1	57.5	56.9	56.3	56.1
90	10.2	9.92	9.69	9.46	9.22	8.95	8.68	8.39	8.09	7.74	7.39	7.04	6.72	6.46	6.27	6.10	5.95	5.82	5.66
95	75.6	75.7	75.7	75.7	75.8	75.9	75.9	75.9	75.9	75.6	75.3	75.0	74.6	74.3	74.0	73.7	73.4	73.0	72.6
100	101	101	101	101	101	101	101	101	101	101	100	100	99.5	99.1	98.8	98.5	98.1	97.7	97.2
105	131	131	131	131	131	131	130	130	130	130	130	129	129	128	128	127	127	127	126
110	164	164	164	163	163	163	163	162	162	162	161	161	161	160	160	159	159	159	158
115	200	200	200	200	199	199	199	199	199	199	198	198	197	197	196	196	195	195	194
120	240	240	240	239	239	239	239	239	239	239	238	238	237	237	236	236	235	234	234
125	281	281	281	281	281	281	281	281	281	280	280	279	279	278	277	277	276	275	274
130	320	321	321	321	321	321	321	321	320	320	320	320	320	320	319	319	318	317	316
135	358	358	358	358	358	358	358	358	358	358	358	358	358	357	357	356	356	355	354
140	393	393	393	393	394	394	394	394	394	394	394	394	393	392	392	391	390	389	389
145	424	424	425	425	426	425	425	425	425	425	425	426	426	426	425	425	424	423	422
150	451	452	452	453	452	452	451	451	450	451	451	452	452	452	452	452	451	450	448
155	474	475	476	477	477	476	475	473	472	473	473	473	474	474	473	472	471	471	471
160	492	493	494	495	495	495	494	492	491	492	492	492	493	492	492	491	490	489	489
165	506	507	509	510	510	510	509	508	508	508	508	508	509	509	508	508	507	506	505
170	518	518	519	520	520	521	521	521	521	521	521	521	521	521	521	522	522	522	520
175	524	524	524	524	525	525	525	526	526	526	526	526	526	526	527	527	527	527	527
180	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--3

UNIT: cd

C( DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1457	1457	1456	1456	1456	1456	1455	1455	1455	1455	1454	1454	1454	1454	1453	1453	1453	1453	1452
5	1450	1449	1449	1448	1448	1448	1448	1448	1447	1447	1447	1447	1446	1446	1446	1446	1446	1446	1446
10	1429	1428	1428	1427	1427	1427	1427	1427	1427	1427	1426	1426	1426	1426	1426	1426	1426	1426	1425
15	1396	1394	1393	1393	1393	1393	1394	1394	1394	1394	1394	1393	1393	1393	1393	1393	1394	1394	1394
20	1350	1349	1347	1347	1347	1348	1348	1349	1349	1349	1349	1348	1348	1349	1349	1349	1350	1350	1350
25	1290	1288	1287	1286	1287	1287	1288	1288	1288	1288	1287	1287	1288	1288	1289	1290	1291	1291	1291
30	1213	1211	1210	1210	1210	1210	1210	1210	1210	1210	1209	1209	1210	1211	1212	1213	1214	1213	1213
35	1116	1115	1114	1114	1113	1112	1112	1111	1111	1110	1110	1110	1111	1112	1114	1115	1117	1116	1114
40	996	997	998	997	995	992	989	987	985	984	984	984	986	989	992	994	996	994	992
45	792	800	806	805	796	786	775	765	763	762	764	767	775	786	796	806	812	804	794
50	584	596	605	601	582	561	540	521	520	522	528	536	545	555	563	570	573	560	546
55	425	435	442	439	427	412	398	387	389	395	402	411	418	423	426	427	425	408	391
60	301	288	277	275	281	289	297	306	308	309	307	304	297	285	274	265	258	264	272
65	193	174	158	156	166	181	198	214	222	228	231	231	225	214	201	190	179	180	183
70	156	152	150	148	147	147	148	150	157	164	171	178	182	182	181	177	172	158	144
75	137	137	137	135	132	129	126	124	123	122	123	123	124	126	128	129	130	128	125
80	90.1	91.5	92.6	92.5	91.1	89.4	87.6	85.9	85.4	85.2	85.4	85.8	86.6	87.7	88.9	90.1	91.1	91.3	91.3
85	55.9	55.8	55.7	55.4	55.1	54.7	54.5	54.5	55.2	55.9	56.7	57.3	57.2	56.6	55.8	54.9	54.2	54.1	54.1
90	5.51	5.37	5.25	5.15	5.07	5.01	4.98	4.97	5.02	5.10	5.20	5.33	5.46	5.60	5.76	5.95	6.18	6.48	6.81
95	72.2	71.8	71.3	70.7	70.1	69.4	68.8	68.3	68.1	67.9	67.9	67.9	67.9	67.9	67.9	68.0	68.1	68.2	68.3
100	96.7	96.1	95.4	94.8	94.1	93.5	92.9	92.3	92.0	91.8	91.7	91.6	91.5	91.4	91.4	91.4	91.5	91.6	91.8
105	125	124	124	123	122	122	121	121	120	120	120	120	119	119	119	119	119	119	119
110	157	156	155	154	154	154	153	153	153	153	153	153	152	151	151	150	149	149	149
115	193	192	191	191	190	189	189	189	189	189	189	189	189	188	187	186	185	184	185
120	234	233	232	232	231	229	228	227	227	227	227	227	227	226	225	224	224	224	224
125	274	273	273	272	272	272	271	271	270	269	268	267	266	266	266	266	266	266	266
130	316	315	314	314	313	313	312	311	310	309	308	307	307	307	307	307	308	308	308
135	353	351	350	350	349	349	349	349	348	347	346	345	345	345	345	346	346	346	347
140	389	388	388	388	388	388	388	387	386	385	383	382	381	381	381	381	381	382	382
145	420	419	418	418	419	419	420	420	419	418	417	415	415	414	414	414	414	414	414
150	447	446	445	444	445	445	446	447	446	446	445	444	444	443	443	443	443	442	442
155	470	470	470	470	470	469	469	468	468	468	468	468	468	467	467	467	466	465	465
160	489	490	490	489	489	488	488	487	487	487	488	488	488	487	487	487	486	486	485
165	504	503	502	502	502	503	504	504	504	504	504	504	503	503	503	502	502	501	501
170	517	515	513	512	513	515	516	518	517	517	516	515	515	515	515	515	515	514	513
175	526	526	526	525	525	525	525	525	524	524	523	523	523	523	522	522	522	522	522
180	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.1653A P:37.021W PF:0.9750 Freq:49.99Hz Lamp Flux:4822.37x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--4

UNIT: cd

C( DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1452	1452	1452	1452	1452	1452	1451	1451	1451	1451	1451	1452	1453	1454	1456				
5	1446	1446	1446	1446	1446	1446	1446	1445	1445	1445	1445	1446	1447	1449	1451				
10	1425	1425	1425	1426	1426	1426	1426	1426	1426	1426	1427	1427	1428	1430	1432				
15	1394	1394	1394	1394	1394	1394	1395	1395	1395	1395	1395	1396	1397	1399	1401				
20	1350	1350	1350	1351	1351	1351	1351	1351	1351	1351	1352	1353	1354	1356	1358				
25	1290	1290	1290	1291	1291	1292	1293	1293	1293	1293	1293	1294	1295	1297	1299				
30	1212	1212	1212	1213	1215	1217	1218	1218	1218	1218	1218	1219	1220	1221	1223				
35	1113	1112	1113	1116	1118	1121	1124	1124	1124	1124	1124	1124	1125	1126	1128				
40	989	987	988	993	998	1002	1007	1007	1007	1006	1005	1004	1005	1006	1007				
45	784	776	778	791	805	820	833	832	829	824	817	812	810	808	806				
50	532	522	527	547	570	593	613	616	615	610	602	595	589	581	572				
55	375	364	370	393	419	446	471	476	477	474	467	460	453	444	433				
60	282	291	296	295	294	293	293	301	311	322	332	339	343	345	345				
65	188	193	194	192	191	191	192	202	213	225	236	243	246	246	244				
70	132	122	122	133	146	161	176	183	189	192	193	192	188	182	173				
75	123	121	122	125	129	133	136	137	137	137	136	135	135	134	134				
80	91.1	90.8	90.8	91.1	91.2	91.1	90.8	88.9	86.9	85.1	83.8	83.9	85.4	87.8	91.2				
85	54.4	54.9	55.5	56.4	57.4	58.4	59.5	60.6	61.7	62.7	63.5	63.8	63.8	63.5	62.8				
90	7.16	7.51	7.83	8.12	8.42	8.74	9.08	9.51	9.97	10.4	10.9	11.4	11.9	12.4	12.9				
95	68.4	68.6	68.6	68.5	68.5	68.6	68.7	69.2	69.7	70.3	70.9	71.3	71.6	71.8	71.8				
100	92.0	92.2	92.3	92.3	92.3	92.3	92.5	93.0	93.6	94.3	94.9	95.4	95.8	96.1	96.3				
105	120	121	121	121	121	121	121	121	121	122	122	123	123	124	124				
110	150	150	151	151	151	151	151	152	152	152	153	153	154	154	155				
115	185	186	186	186	186	186	186	187	188	188	189	189	190	190	190				
120	225	225	225	225	225	225	226	226	227	228	229	229	230	230	231				
125	266	266	267	267	267	267	267	267	268	269	269	270	271	272	273				
130	308	308	308	309	309	310	310	311	311	311	312	312	313	313	314				
135	347	347	347	347	347	346	346	347	347	348	349	350	351	352	353				
140	382	383	383	383	383	383	383	384	384	385	385	386	387	387	388				
145	414	415	415	415	415	415	416	416	416	416	416	416	417	418	419				
150	441	441	442	442	443	444	444	444	444	444	444	444	445	445	446				
155	464	464	465	466	468	469	470	470	469	468	467	467	468	469	470				
160	485	485	485	486	488	489	490	490	490	490	489	489	489	490	490				
165	500	500	500	501	502	503	504	504	504	504	504	504	505	506	508				
170	513	512	512	513	513	514	515	515	515	515	515	515	516	516	517				
175	522	522	522	522	522	523	523	523	523	524	524	524	524	524	524				
180	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks: