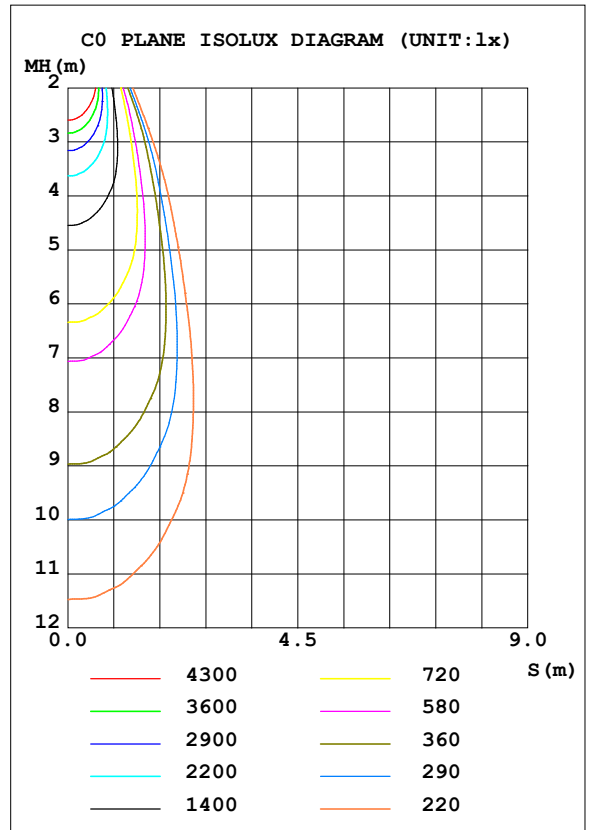
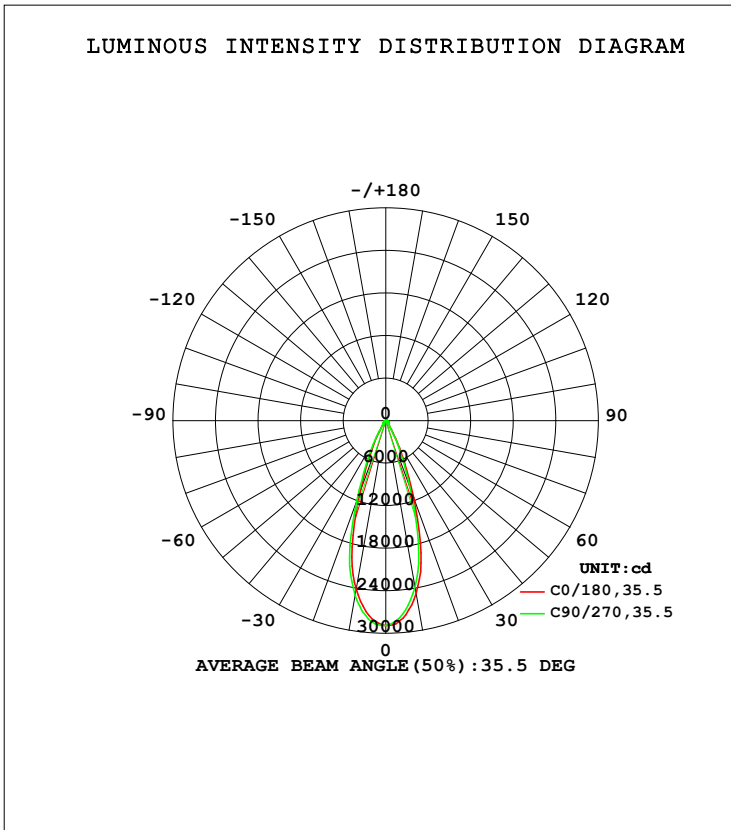


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:226.02V I:0.4431A P:99.135W PF:0.9899 Freq:49.98Hz Lamp Flux:11988.6x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: Ledmada	SUR.:1500*70*76	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.93 lm/W			
MODEL	Lumileds	Imax (cd)	28913	S/MH (C0/180)	0.55
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	0.57
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	11989	<input type="checkbox"/> UP, DN (C0-180)	0.5, 48.8
NOMINAL FLUX (lm)	11988.6	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.4, 50.3
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.9	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	230.0	<input type="checkbox"/> down (%)	99.1	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LYH
 Test Date: 2020.8.5

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.350m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

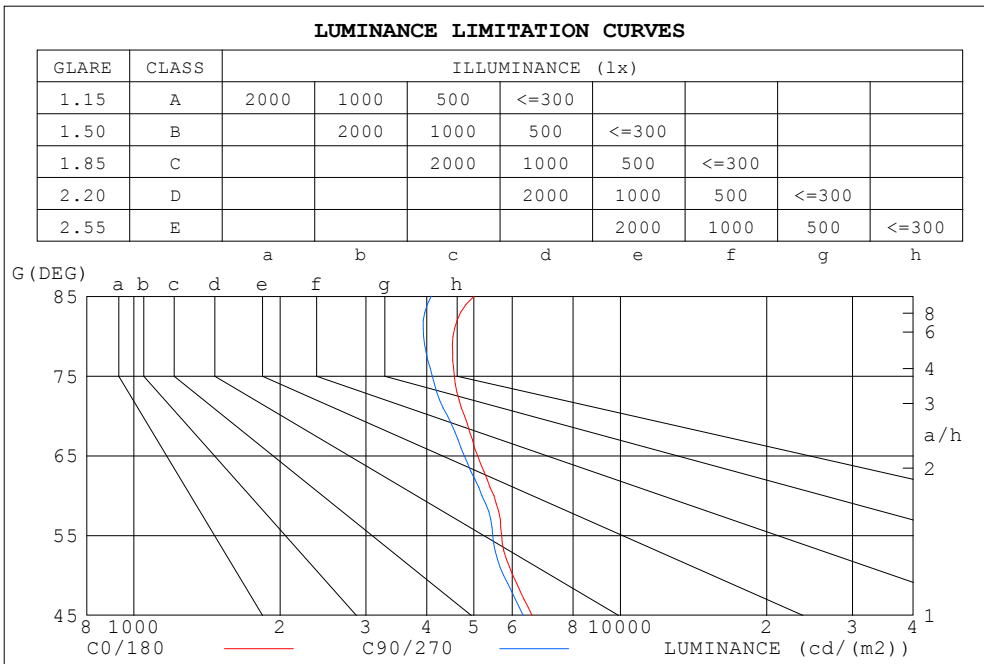
ZONAL FLUX DIAGRAM:

°	C0	C90	C180	C270				°	□ zone	□ total	%lum,lamp
10	2473	2387	2415	2501				0- 10	2541	2541	21.2,21.2
20	1148	1000	1052	1198				10- 20	5000	7542	62.9,62.9
30	243.3	195.4	208.6	261.9				20- 30	2596	10138	84.6,84.6
40	62.85	59.85	61.38	64.26				30- 40	668.2	10806	90.1,90.1
50	40.52	38.92	39.64	41.26				40- 50	380.0	11186	93.3,93.3
60	28.82	27.31	27.97	29.11				50- 60	304.1	11490	95.8,95.8
70	17.16	15.88	16.62	17.34				60- 70	220.5	11711	97.7,97.7
80	8.241	7.201	7.760	8.257				70- 80	127.2	11838	98.7,98.7
90	1.503	1.058	1.254	1.324				80- 90	47.14	11885	99.1,99.1
100	0.8861	0.6544	0.8432	0.6791				90-100	10.39	11896	99.2,99.2
110	0.5829	0.4590	0.5400	0.4643				100-110	6.640	11902	99.3,99.3
120	0.5105	0.4781	0.4523	0.3800				110-120	4.568	11907	99.3,99.3
130	1.015	1.088	0.8610	0.7326				120-130	5.572	11912	99.4,99.4
140	2.507	2.566	2.206	1.848				130-140	11.70	11924	99.5,99.5
150	4.566	4.434	4.148	3.539				140-150	19.99	11944	99.6,99.6
160	5.979	5.715	5.532	4.964				150-160	22.70	11967	99.8,99.8
170	6.189	5.878	5.919	5.483				160-170	16.31	11983	100,100
180	6.094	5.736	6.120	5.724				170-180	5.607	11989	100,100
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5010	4089
80	4529	3941
75	4559	4105
70	4787	4413
65	5093	4775
60	5502	5192
55	5704	5464
50	6016	5754
45	6592	6317

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LYH
 Test Date: 2020.8.5

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.350m [K=1.0000]
 Remarks:

WEC AND CCEC

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.171	.097	.031	.164	.094	.030	.151	.087	.028	.139	.080	.026	.128	.074	.024	
2.0	.159	.087	.027	.154	.085	.026	.143	.079	.025	.133	.074	.023	.123	.070	.022	
3.0	.149	.079	.024	.144	.077	.023	.134	.073	.022	.126	.069	.021	.118	.065	.020	
4.0	.139	.072	.021	.135	.071	.021	.127	.067	.020	.120	.064	.019	.113	.061	.019	
5.0	.131	.067	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.108	.058	.017	
6.0	.124	.062	.018	.120	.061	.018	.114	.059	.017	.109	.057	.017	.103	.054	.016	
7.0	.117	.058	.016	.114	.057	.016	.109	.055	.016	.104	.053	.016	.099	.052	.015	
8.0	.111	.054	.015	.109	.054	.015	.104	.052	.015	.100	.051	.015	.096	.049	.014	
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.092	.047	.014	
10.0	.101	.049	.014	.099	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.013	

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.177	.164	.152	.152	.141	.131	.104	.097	.090	.060	.056	.053	.019	.018	.017	
2.0	.161	.139	.121	.138	.120	.104	.095	.083	.073	.055	.048	.043	.018	.016	.014	
3.0	.148	.120	.098	.127	.104	.085	.087	.072	.060	.050	.042	.035	.016	.014	.012	
4.0	.137	.105	.081	.117	.091	.071	.081	.063	.050	.047	.037	.029	.015	.012	.010	
5.0	.127	.093	.069	.109	.081	.060	.075	.056	.042	.043	.033	.025	.014	.011	.008	
6.0	.119	.084	.059	.102	.073	.051	.070	.051	.036	.041	.030	.022	.013	.010	.007	
7.0	.111	.076	.051	.096	.066	.045	.066	.046	.032	.038	.027	.019	.012	.009	.006	
8.0	.105	.069	.045	.090	.060	.039	.063	.042	.028	.036	.025	.017	.012	.008	.005	
9.0	.100	.064	.040	.086	.056	.035	.059	.039	.025	.035	.023	.015	.011	.008	.005	
10.0	.095	.059	.036	.082	.052	.031	.057	.036	.022	.033	.021	.013	.011	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [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	4.5	5.3	4.7	5.4	5.6	4.2	5.0	4.4	5.2	5.3
3H	5.7	6.5	6.0	6.7	6.9	5.4	6.2	5.7	6.4	6.6
4H	6.3	7.0	6.5	7.2	7.4	5.9	6.6	6.2	6.9	7.1
6H	6.7	7.4	7.0	7.7	7.9	6.3	7.0	6.6	7.2	7.5
8H	6.9	7.6	7.2	7.8	8.1	6.5	7.1	6.8	7.4	7.7
12H	7.1	7.7	7.4	8.0	8.3	6.6	7.2	6.9	7.5	7.8
4H 2H	5.0	5.7	5.2	5.9	6.1	4.7	5.5	5.0	5.7	5.9
3H	6.4	7.0	6.7	7.3	7.6	6.1	6.8	6.5	7.0	7.3
4H	7.1	7.6	7.4	8.0	8.3	6.8	7.3	7.1	7.7	8.0
6H	7.7	8.2	8.0	8.5	8.9	7.3	7.8	7.7	8.2	8.5
8H	7.9	8.4	8.3	8.8	9.1	7.5	8.0	7.9	8.3	8.7
12H	8.1	8.6	8.6	9.0	9.4	7.7	8.1	8.1	8.5	8.9
8H 4H	7.3	7.8	7.7	8.1	8.5	7.0	7.5	7.4	7.9	8.2
6H	8.0	8.4	8.5	8.8	9.3	7.7	8.1	8.1	8.5	8.9
8H	8.4	8.7	8.8	9.2	9.6	8.0	8.3	8.5	8.8	9.2
12H	8.7	9.0	9.2	9.5	9.9	8.3	8.6	8.7	9.0	9.5
12H 4H	7.3	7.7	7.7	8.1	8.5	7.0	7.5	7.4	7.8	8.3
6H	8.1	8.4	8.5	8.9	9.3	7.8	8.1	8.2	8.5	9.0
8H	8.5	8.8	9.0	9.2	9.7	8.1	8.4	8.6	8.9	9.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 11989 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.6)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [K=1.0000]
 Remarks:

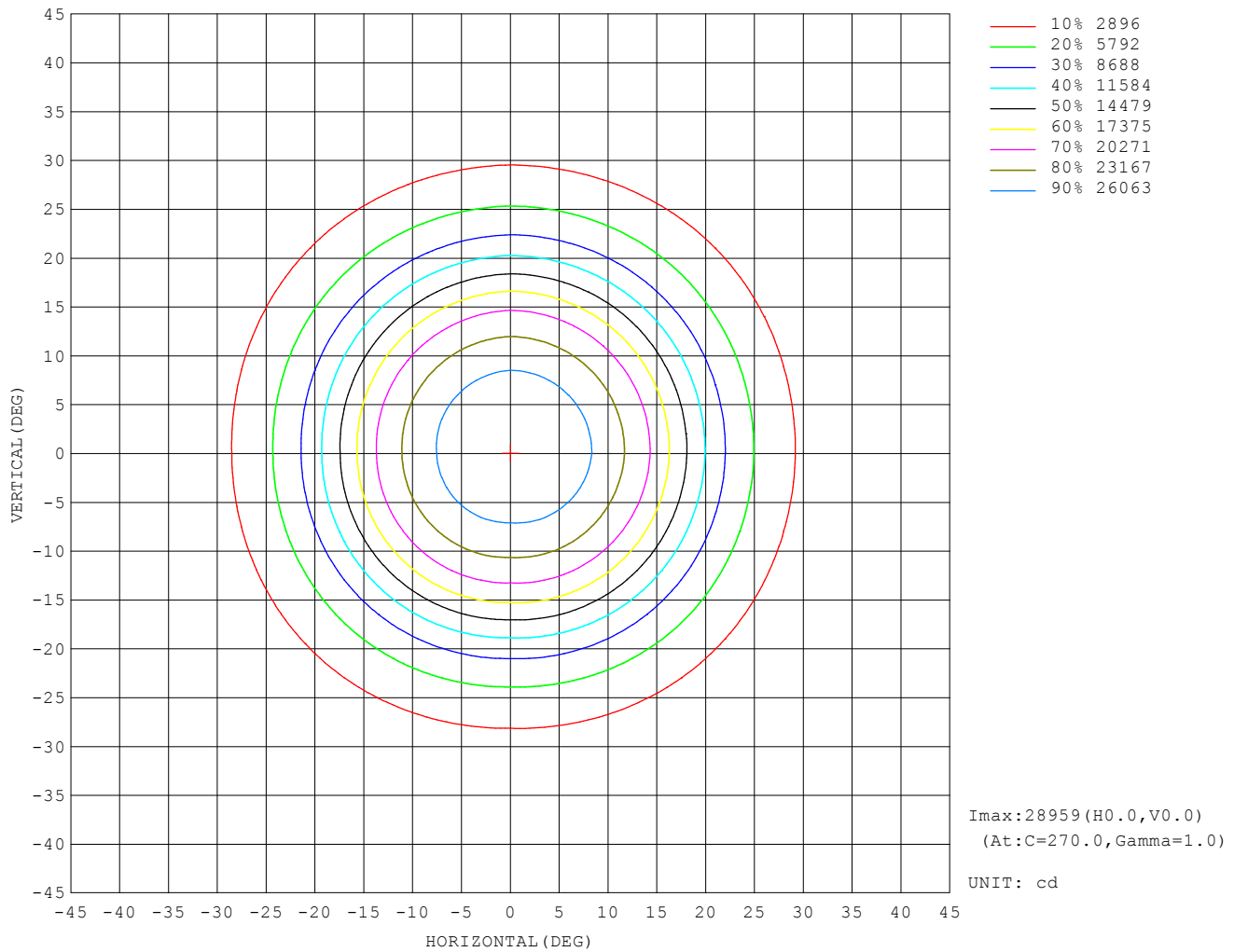
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	97	91	88	96	91	87	95	91	87	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	98	95	101	97	94	89
2.00	107	103	99	106	102	98	103	99	97	91
2.50	109	105	102	107	104	101	104	101	99	92
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LYH
 Test Date: 2020.8.5

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.350m [K=1.0000]
 Remarks:

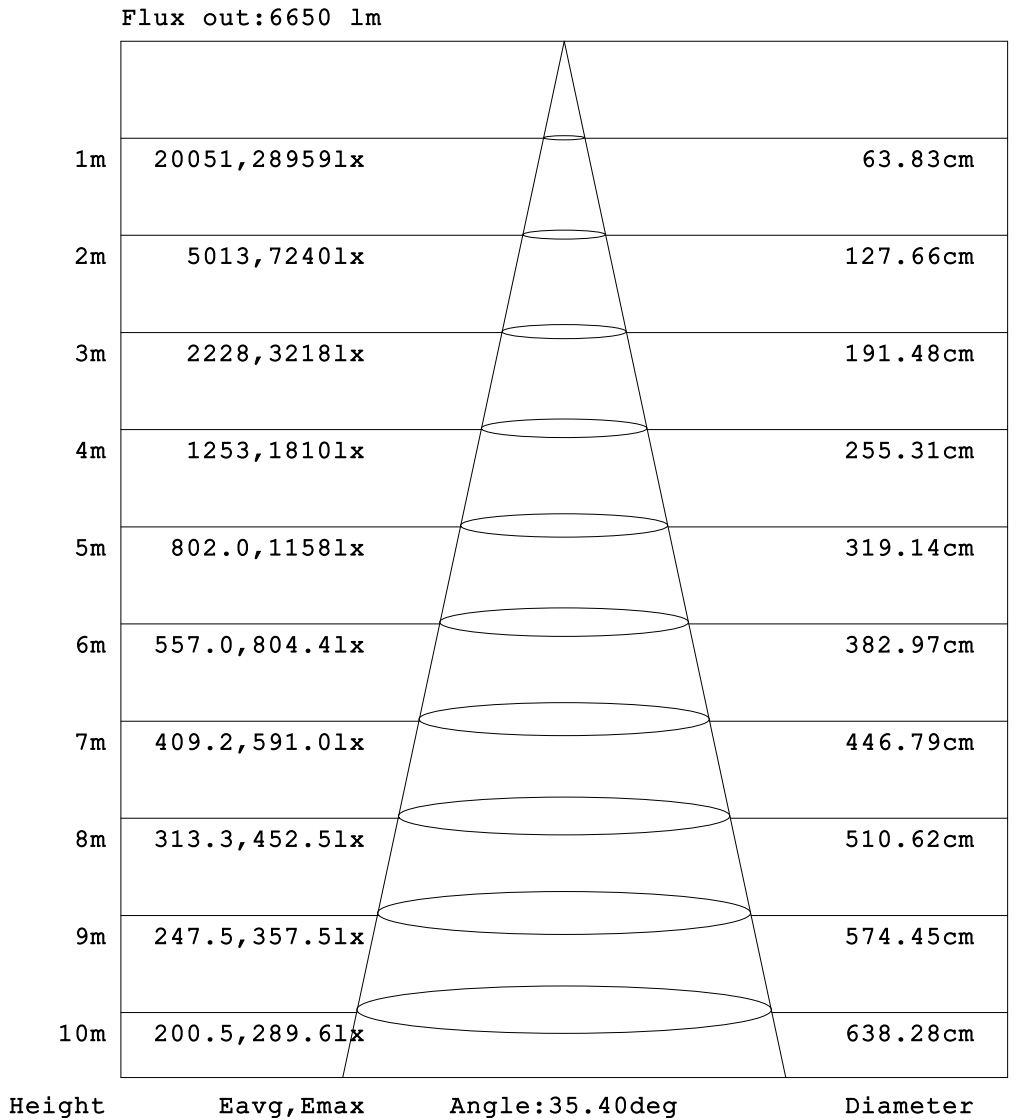
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LYH
 Test Date: 2020.8.5

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.350m [K=1.0000]
 Remarks:

AAI Figure

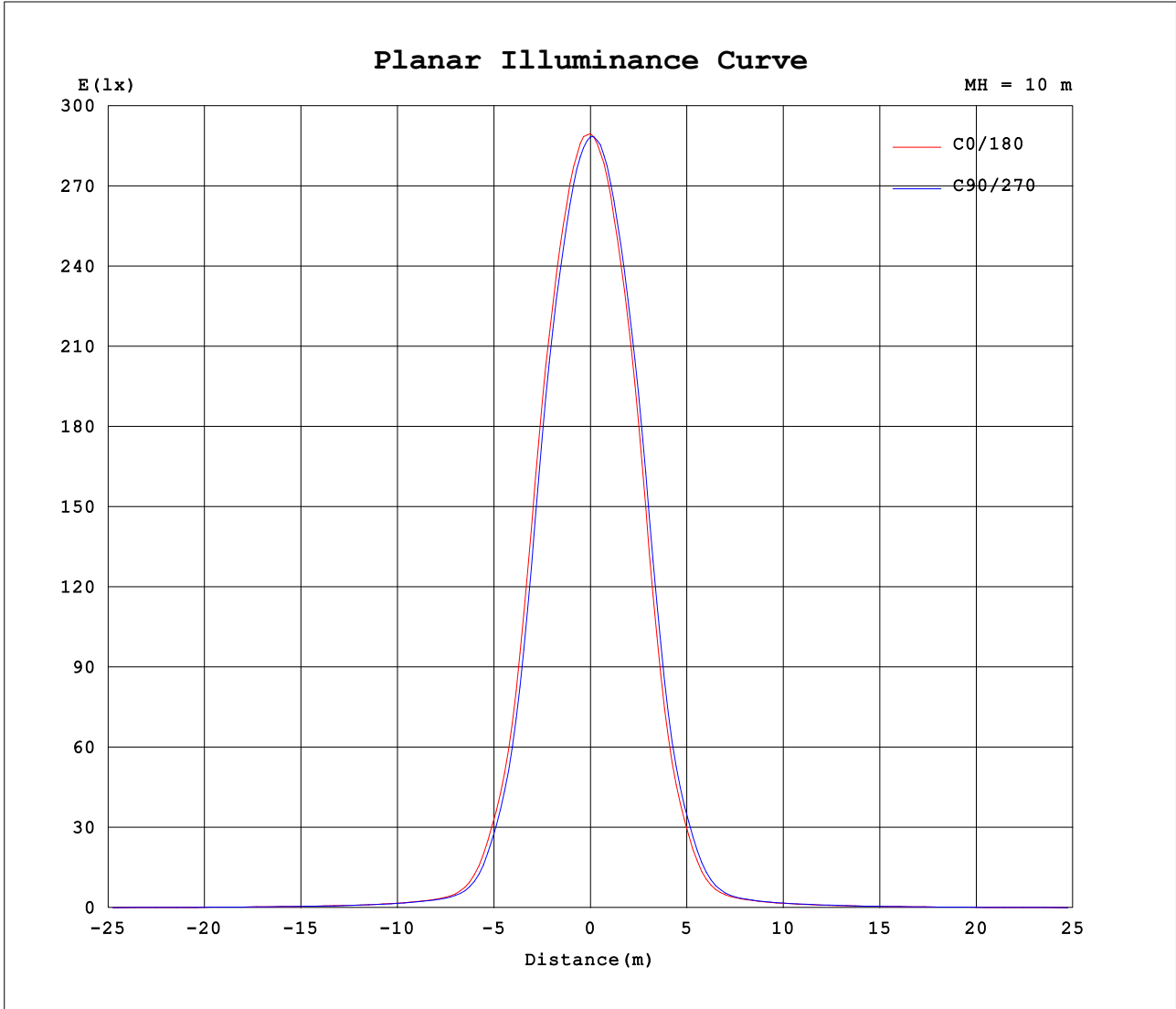


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2020.8.5

Range: 0 - 180DEG
 Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	90	180	270																
0	2890	2890	2890	2890																
5	2798	2742	2757	2811																
10	2473	2387	2415	2501																
15	1932	1788	1844	1984																
20	1148	1000	1052	1198																
25	573	495	523	605																
30	243	195	209	262																
35	95.1	84.1	88.2	99.9																
40	62.9	59.9	61.4	64.3																
45	48.8	47.0	47.8	49.7																
50	40.5	38.9	39.6	41.3																
55	34.3	33.0	33.7	34.8																
60	28.8	27.3	28.0	29.1																
65	22.6	21.2	21.9	22.9																
70	17.2	15.9	16.6	17.3																
75	12.4	11.2	11.9	12.4																
80	8.24	7.20	7.76	8.26																
85	4.58	3.75	4.12	4.30																
90	1.50	1.06	1.25	1.32																
95	1.08	0.80	1.05	0.81																
100	0.89	0.65	0.84	0.68																
105	0.71	0.54	0.66	0.56																
110	0.58	0.46	0.54	0.46																
115	0.51	0.43	0.46	0.40																
120	0.51	0.48	0.45	0.38																
125	0.66	0.68	0.56	0.48																
130	1.02	1.09	0.86	0.73																
135	1.64	1.73	1.41	1.18																
140	2.51	2.57	2.21	1.85																
145	3.53	3.51	3.16	2.66																
150	4.57	4.43	4.15	3.54																
155	5.43	5.22	4.98	4.34																
160	5.98	5.72	5.53	4.96																
165	6.19	5.90	5.80	5.31																
170	6.19	5.88	5.92	5.48																
175	6.12	5.78	6.01	5.59																
180	6.09	5.74	6.12	5.72																

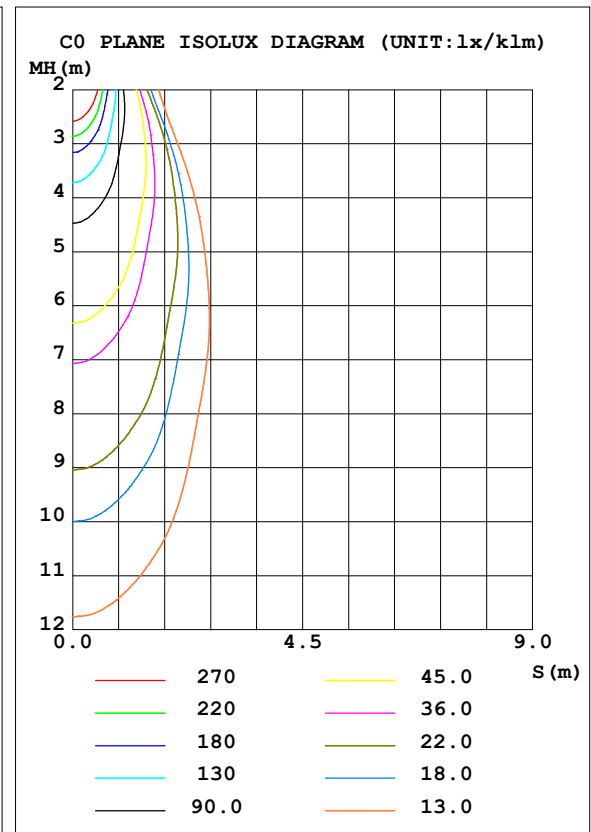
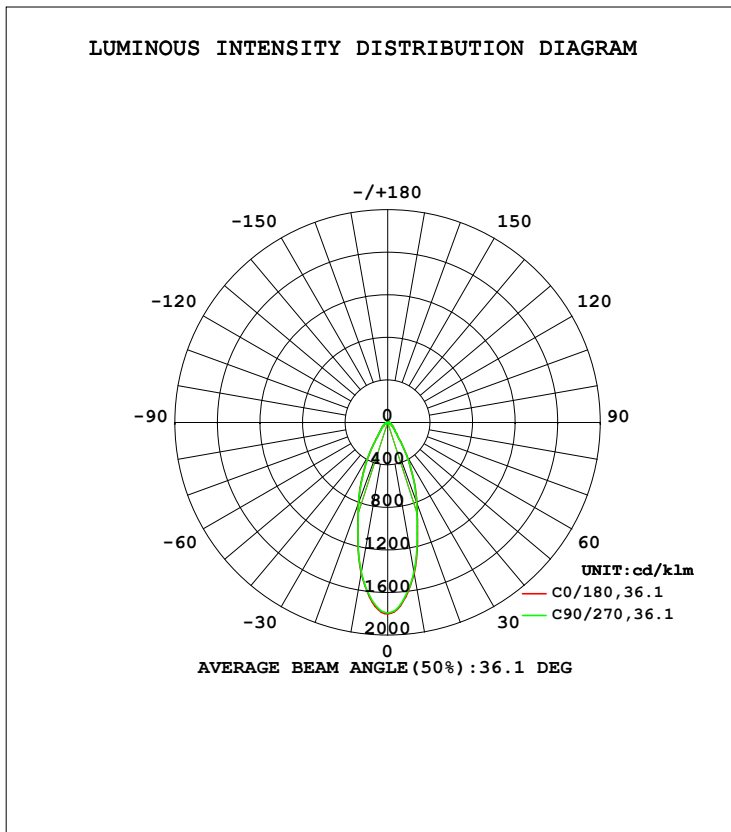
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Lumileds with lens 120	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDMADA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.79 lm/W			
MODEL		I _{max} (cd/klm)	1799	S/MH (C0/180)	0.58
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.58
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm/klm)	1000.0	η UP, DN (C0-180)	0.4, 49.5
NOMINAL FLUX (lm)	11395.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 49.7
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	230.0	η down (%)	99.2	CIBSE SHR MAX	0.65



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZG
 Test Date: 2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.330m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

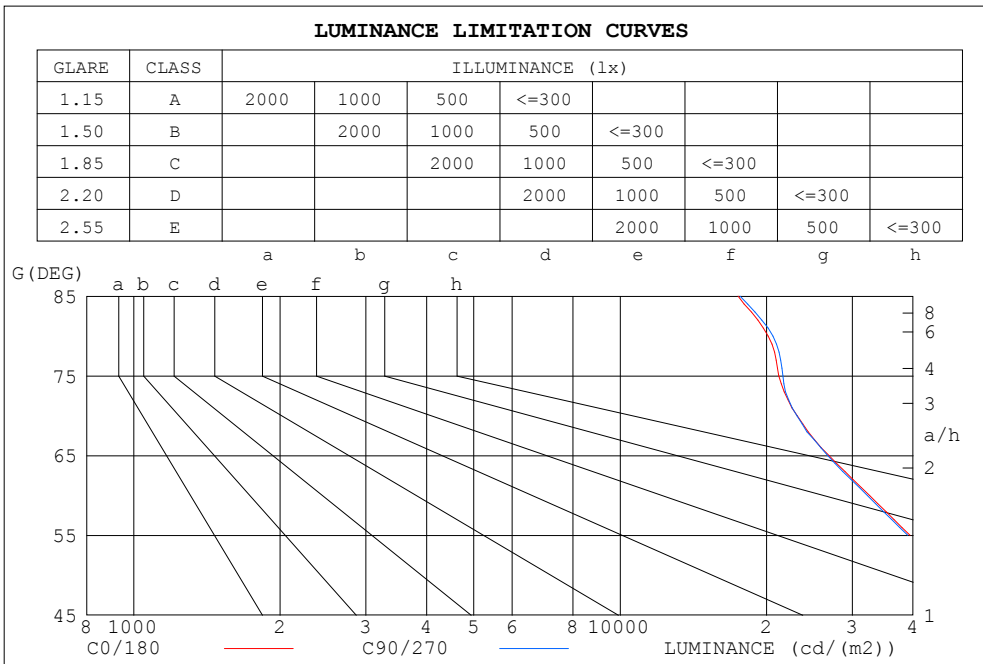
ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1440	1428	1439	1434				0- 10	152.8	152.8	15.3,15.3
20	803.6	797.7	804.8	802.2				10- 20	301.2	454.0	45.4,45.4
30	361.2	356.9	359.8	362.5				20- 30	258.1	712.1	71.2,71.2
40	116.0	115.6	118.4	115.9				30- 40	128.0	840.2	84,84
50	64.77	63.85	64.65	64.53				40- 50	65.87	906.0	90.6,90.6
60	35.73	35.36	35.90	35.81				50- 60	44.30	950.3	95,95
70	17.37	17.34	17.48	17.53				60- 70	25.22	975.5	97.6,97.6
80	7.672	7.855	7.663	7.512				70- 80	12.97	988.5	98.9,98.9
90	0.6030	0.5866	0.5674	0.5330				80- 90	3.864	992.4	99.2,99.2
100	0.3670	0.3326	0.3322	0.3196				90-100	0.4449	992.8	99.3,99.3
110	0.3541	0.3280	0.3199	0.3191				100-110	0.3451	993.2	99.3,99.3
120	0.5234	0.5062	0.4602	0.4750				110-120	0.3858	993.6	99.4,99.4
130	1.051	1.014	0.9252	0.9408				120-130	0.6283	994.2	99.4,99.4
140	2.043	1.918	1.832	1.778				130-140	1.077	995.3	99.5,99.5
150	3.260	3.035	3.007	2.823				140-150	1.532	996.8	99.7,99.7
160	4.127	3.894	3.911	3.662				150-160	1.610	998.4	99.8,99.8
170	4.526	4.307	4.411	4.157				160-170	1.170	999.6	100,100
180	4.646	4.449	4.680	4.432				170-180	0.4235	1000	100,100
DEG	LUMINOUS INTENSITY:cd/klm								UNIT: lm/klm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZG
 Test Date:2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.330m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17476	17627
80	20138	20619
75	21197	21610
70	23144	23108
65	26867	26710
60	32573	32236
55	39400	39028
50	45930	45281
45	54142	53413

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZG
 Test Date: 2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.330m [K=1.0000]
 Remarks:

WEC AND CCEC

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	.192	.109	.035	.185	.105	.033	.171	.098	.031	.159	.092	.030	.148	.086	.028	
2.0	.181	.099	.030	.175	.097	.030	.164	.091	.028	.154	.086	.027	.145	.082	.026	
3.0	.171	.091	.027	.166	.089	.027	.156	.085	.026	.147	.081	.025	.139	.077	.024	
4.0	.161	.083	.025	.156	.082	.024	.148	.078	.023	.140	.075	.023	.133	.072	.022	
5.0	.151	.077	.022	.148	.076	.022	.140	.073	.022	.134	.071	.021	.127	.068	.020	
6.0	.143	.072	.021	.140	.071	.020	.133	.068	.020	.128	.066	.019	.122	.064	.019	
7.0	.136	.067	.019	.133	.066	.019	.127	.064	.019	.122	.062	.018	.117	.061	.018	
8.0	.129	.063	.018	.126	.062	.018	.121	.061	.017	.116	.059	.017	.112	.058	.017	
9.0	.123	.059	.017	.120	.059	.016	.116	.057	.016	.112	.056	.016	.108	.055	.016	
10.0	.117	.056	.016	.115	.056	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	

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	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.178	.163	.150	.152	.140	.129	.104	.096	.089	.060	.056	.052	.019	.018	.017	
2.0	.163	.138	.117	.140	.119	.101	.096	.082	.071	.055	.048	.041	.018	.016	.014	
3.0	.151	.120	.094	.130	.103	.082	.089	.072	.057	.051	.042	.034	.017	.014	.011	
4.0	.141	.105	.077	.121	.091	.067	.083	.063	.047	.048	.037	.028	.015	.012	.009	
5.0	.132	.093	.065	.113	.081	.056	.078	.056	.040	.045	.033	.024	.015	.011	.008	
6.0	.124	.084	.055	.107	.073	.048	.074	.051	.034	.043	.030	.020	.014	.010	.007	
7.0	.118	.077	.048	.101	.066	.042	.070	.047	.030	.041	.027	.018	.013	.009	.006	
8.0	.112	.070	.042	.096	.061	.037	.066	.043	.026	.039	.025	.015	.013	.008	.005	
9.0	.106	.065	.037	.091	.056	.033	.063	.040	.023	.037	.023	.014	.012	.008	.005	
10.0	.101	.061	.033	.087	.053	.029	.061	.037	.021	.035	.022	.012	.011	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZG
 Test Date:2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.330m [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	13.6	14.6	13.9	14.8	15.0	13.6	14.5	13.8	14.7	14.9
3H	14.2	15.1	14.5	15.3	15.5	14.2	15.0	14.4	15.3	15.5
4H	14.4	15.3	14.7	15.5	15.8	14.4	15.2	14.7	15.5	15.7
6H	14.6	15.4	15.0	15.7	16.0	14.6	15.4	14.9	15.7	15.9
8H	14.7	15.5	15.0	15.8	16.0	14.7	15.5	15.0	15.7	16.0
12H	14.8	15.5	15.1	15.8	16.1	14.7	15.5	15.1	15.8	16.1
4H 2H	13.8	14.7	14.1	14.9	15.2	13.8	14.6	14.1	14.9	15.1
3H	14.6	15.3	14.9	15.6	15.9	14.5	15.3	14.9	15.6	15.8
4H	14.9	15.6	15.3	15.9	16.2	14.9	15.6	15.3	15.9	16.2
6H	15.2	15.8	15.6	16.2	16.5	15.2	15.8	15.6	16.2	16.5
8H	15.4	15.9	15.8	16.3	16.7	15.4	15.9	15.8	16.3	16.7
12H	15.4	15.9	15.9	16.3	16.7	15.4	15.9	15.9	16.3	16.7
8H 4H	15.0	15.6	15.4	15.9	16.3	15.0	15.5	15.4	15.9	16.3
6H	15.5	15.9	15.9	16.3	16.8	15.5	15.9	15.9	16.3	16.8
8H	15.6	16.0	16.1	16.5	16.9	15.6	16.0	16.1	16.5	16.9
12H	15.8	16.1	16.2	16.6	17.0	15.8	16.1	16.3	16.6	17.1
12H 4H	15.0	15.5	15.4	15.9	16.3	15.0	15.5	15.4	15.9	16.3
6H	15.5	15.9	15.9	16.3	16.8	15.5	15.9	15.9	16.3	16.8
8H	15.7	16.0	16.2	16.5	17.0	15.7	16.0	16.2	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.5 / - 0.7				
1.5H	+ 0.7 / - 0.4					+ 0.7 / - 0.4				
2.0H	+ 0.8 / - 0.7					+ 0.8 / - 0.7				

CIE Pub.117, 11396 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.5)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZG
 Test Date:2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.330m [K=1.0000]
 Remarks:

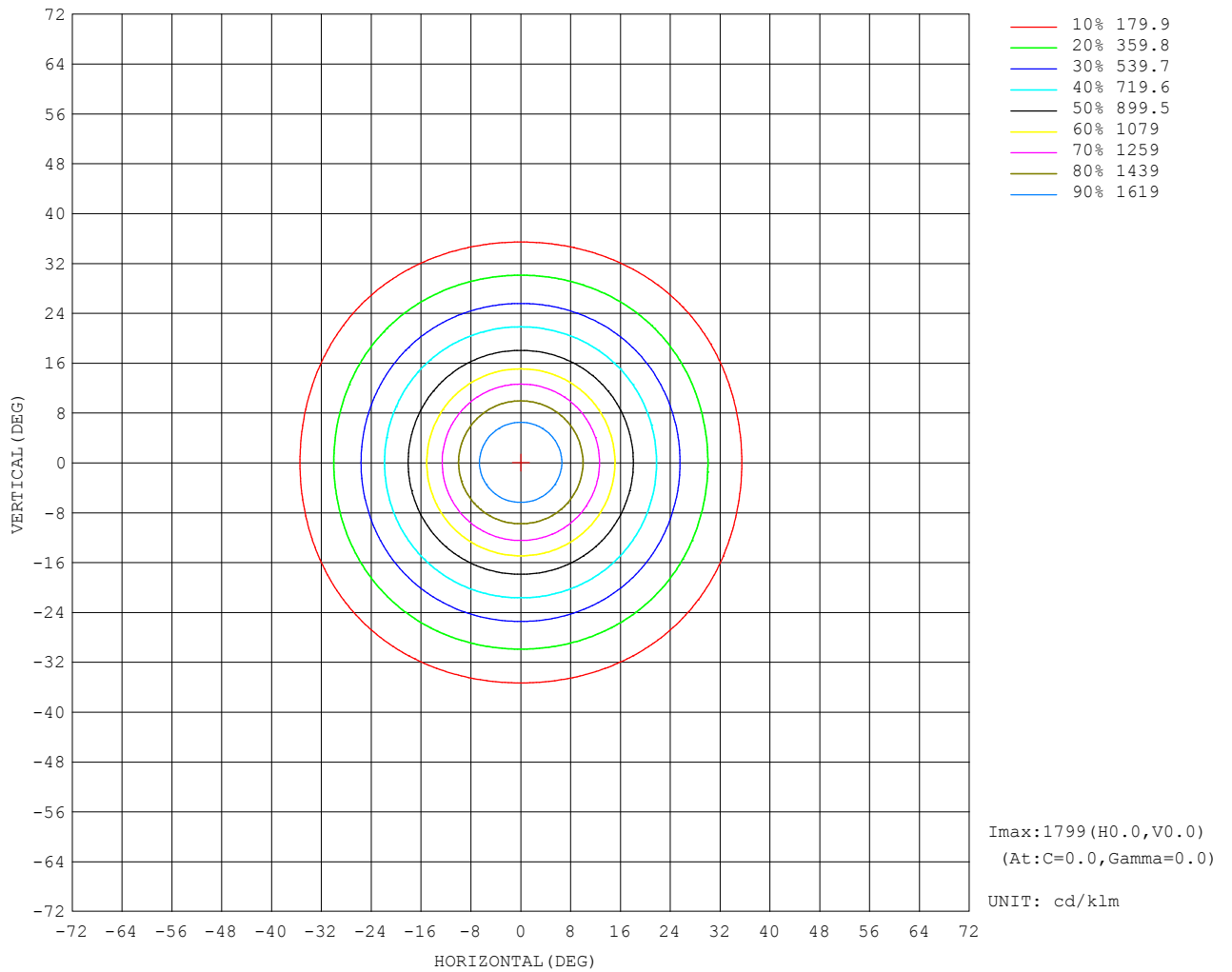
UTILIZATION FACTORS TABLE

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	82	74	70	81	74	70	80	74	70	65
0.80	90	83	78	89	82	78	87	82	78	73
1.00	95	88	84	94	88	84	92	88	83	78
1.25	99	93	89	98	93	89	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	101	98	95	89
2.50	108	103	100	106	102	99	103	100	97	90
3.00	110	106	103	108	104	101	104	102	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	96
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZG
 Test Date: 2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.330m [K=1.0000]
 Remarks:

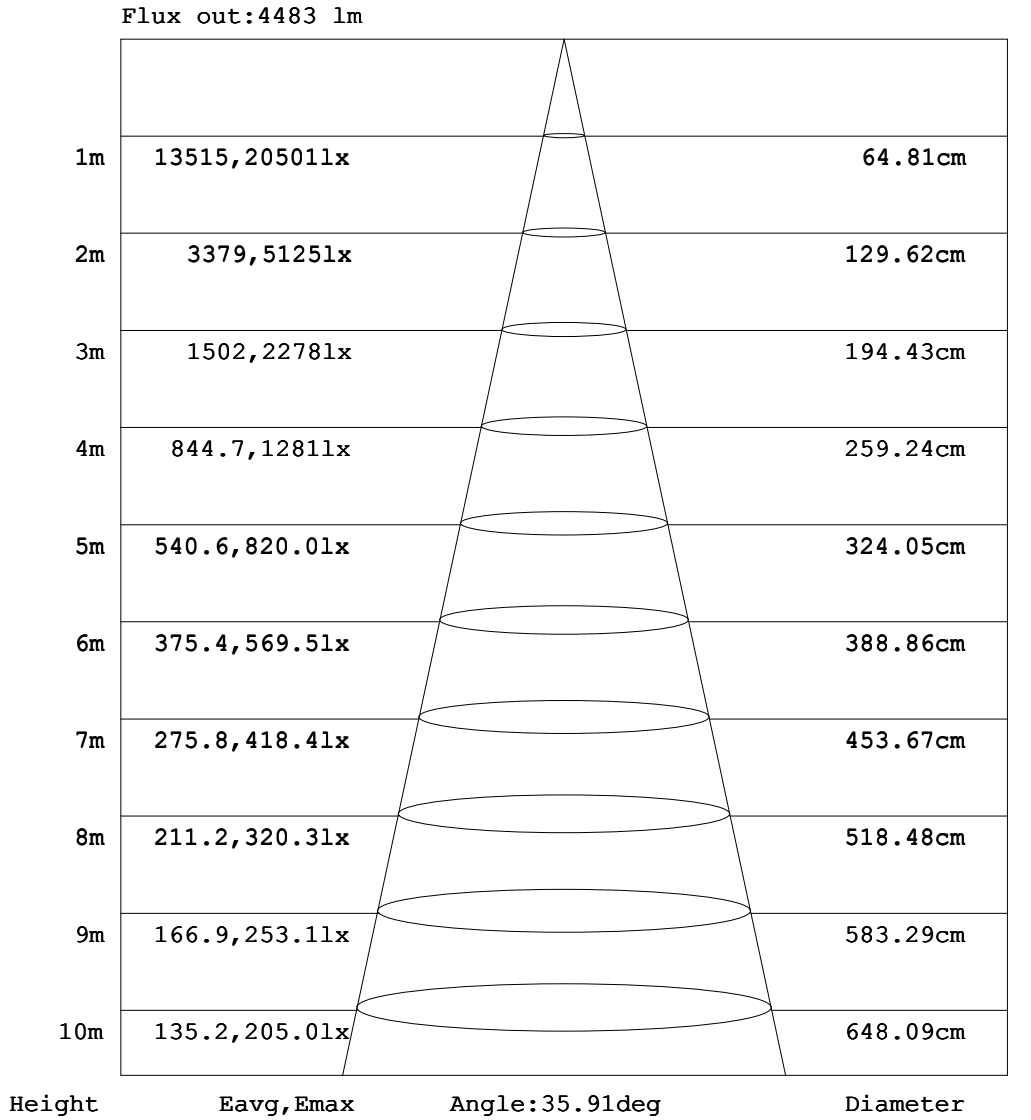
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZG
Test Date: 2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 8.330m [K=1.0000]
Remarks:

AAI Figure

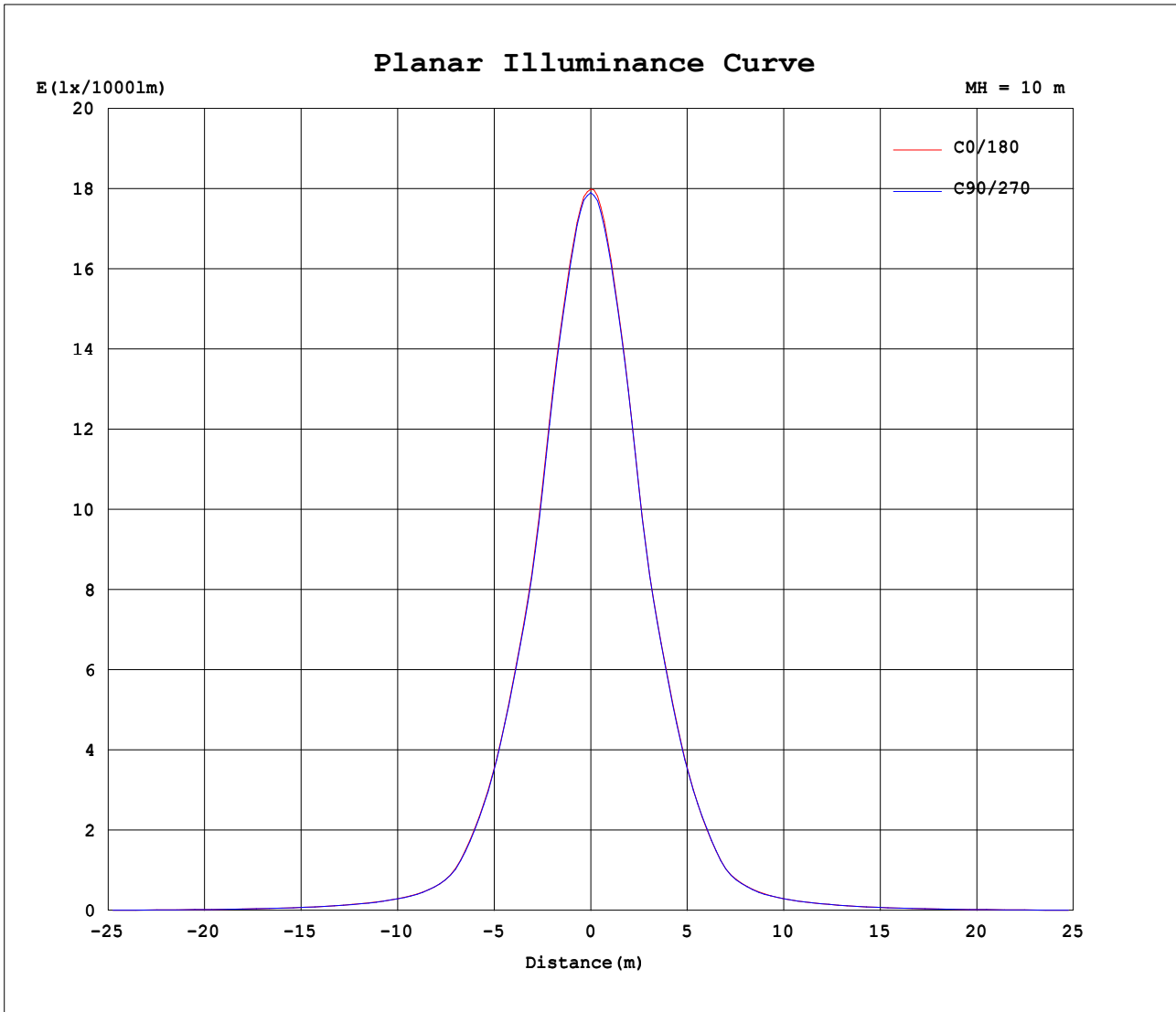


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZG
 Test Date:2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.330m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZG
Test Date: 2020-08-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 8.330m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd/klm

C (DEG) γ (DEG)	0	90	180	270																
0	1799	1791	1799	1791																
5	1690	1680	1692	1682																
10	1440	1428	1439	1434																
15	1088	1076	1085	1082																
20	804	798	805	802																
25	566	562	569	565																
30	361	357	360	362																
35	191	187	189	189																
40	116	116	118	116																
45	84.0	82.9	84.5	83.7																
50	64.8	63.9	64.7	64.5																
55	49.6	49.1	49.7	49.6																
60	35.7	35.4	35.9	35.8																
65	24.9	24.8	25.1	25.1																
70	17.4	17.3	17.5	17.5																
75	12.0	12.3	12.1	12.2																
80	7.67	7.85	7.66	7.51																
85	3.34	3.37	3.30	2.83																
90	0.60	0.59	0.57	0.53																
95	0.42	0.40	0.40	0.37																
100	0.37	0.33	0.33	0.32																
105	0.35	0.31	0.31	0.31																
110	0.35	0.33	0.32	0.32																
115	0.40	0.38	0.36	0.37																
120	0.52	0.51	0.46	0.48																
125	0.73	0.71	0.64	0.66																
130	1.05	1.01	0.93	0.94																
135	1.49	1.42	1.32	1.31																
140	2.04	1.92	1.83	1.78																
145	2.66	2.47	2.41	2.30																
150	3.26	3.03	3.01	2.82																
155	3.77	3.53	3.52	3.29																
160	4.13	3.89	3.91	3.66																
165	4.37	4.14	4.20	3.94																
170	4.53	4.31	4.41	4.16																
175	4.62	4.41	4.58	4.32																
180	4.65	4.45	4.68	4.43																

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
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γ Range: 0 - 180DEG
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