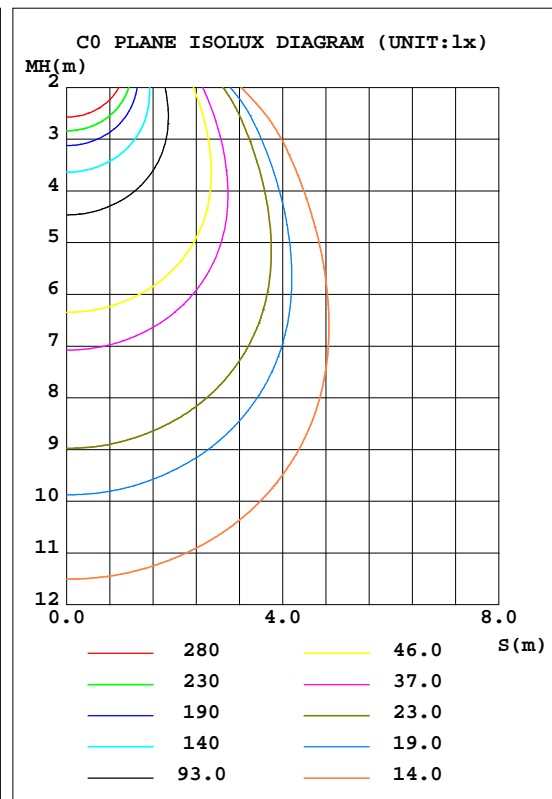
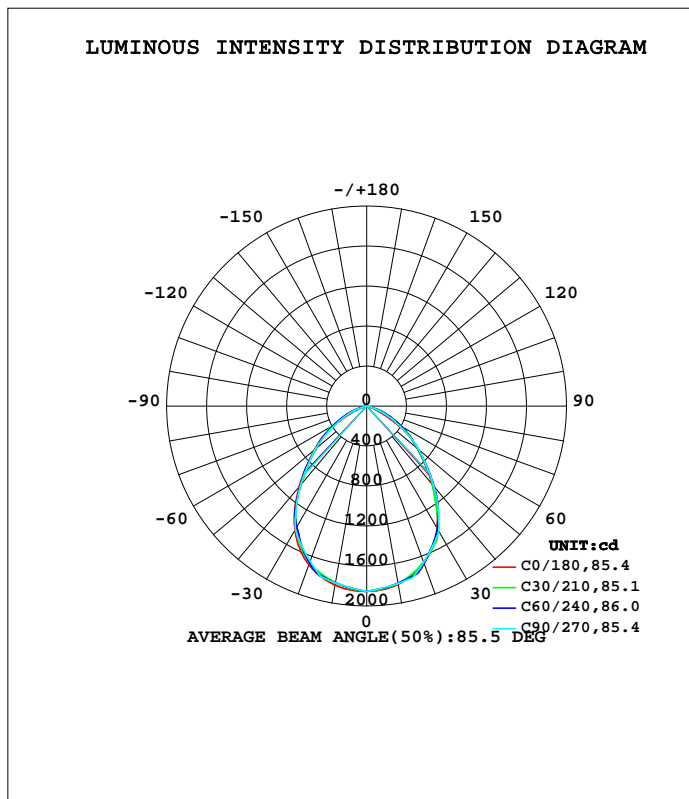


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.3V I:0.1184A P:24.94W PF:0.9520 Freq:0Hz Lamp Flux:3552.65x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.46 lm/W			
MODEL	ZMQ595595H-25W-4K	I <sub>max</sub> (cd)	1853	S/MH(C0/180)	1.16
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3552.7	η UP, DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	3552.65	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.0	η down(%)	100.0	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

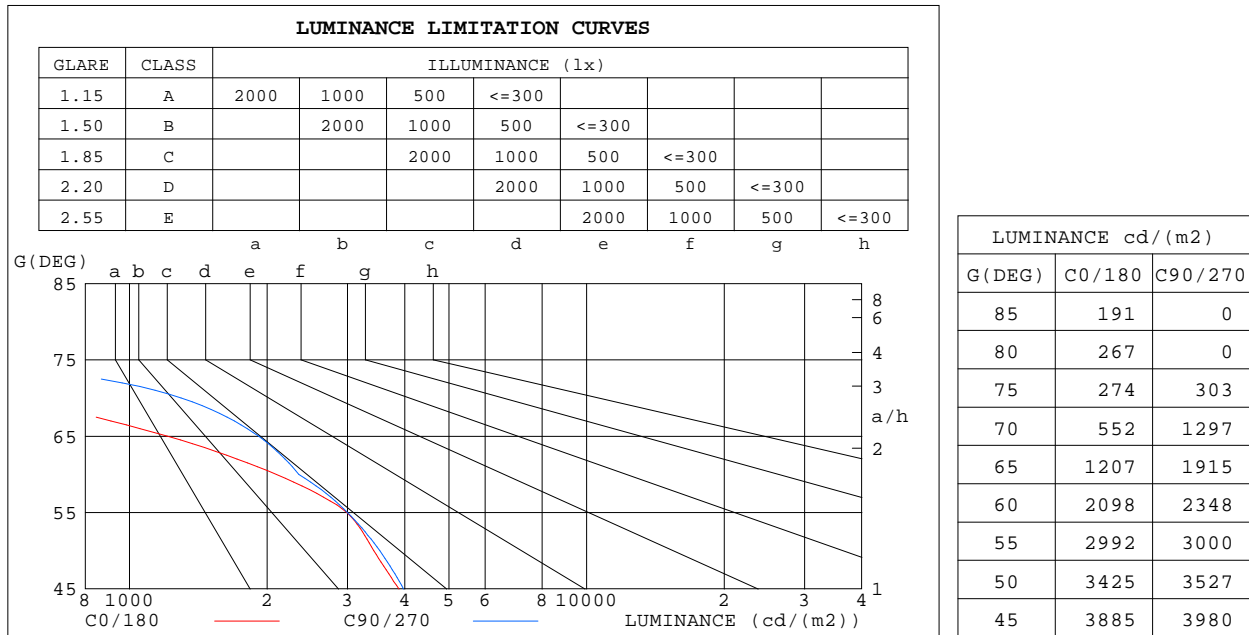
ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	\$lum,lamp
10	1811	1798	1802	1797	1818	1793	1796	1794	0- 10	173.8	173.8	4.89,4.89
20	1673	1696	1665	1686	1690	1680	1655	1686	10- 20	493.1	667.0	18.8,18.8
30	1407	1399	1445	1400	1436	1393	1429	1384	20- 30	712.3	1379	38.8,38.8
40	1017	1038	1044	1052	1052	1046	1027	1020	30- 40	765.4	2145	60.4,60.4
50	660.5	671.6	680.1	685.4	685.2	682.7	664.5	657.9	40- 50	648.2	2793	78.6,78.6
60	314.7	404.5	352.2	409.6	344.2	409.0	341.7	391.7	50- 60	466.1	3259	91.7,91.7
70	56.69	167.3	133.1	161.6	69.11	164.6	128.1	153.0	60- 70	236.7	3496	98.4,98.4
80	13.89	14.37	0	14.42	15.08	13.15	0	12.57	70- 80	53.97	3550	99.9,99.9
90	0.0631	0	0	0	0.2250	0	0	0	80- 90	3.008	3553	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		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

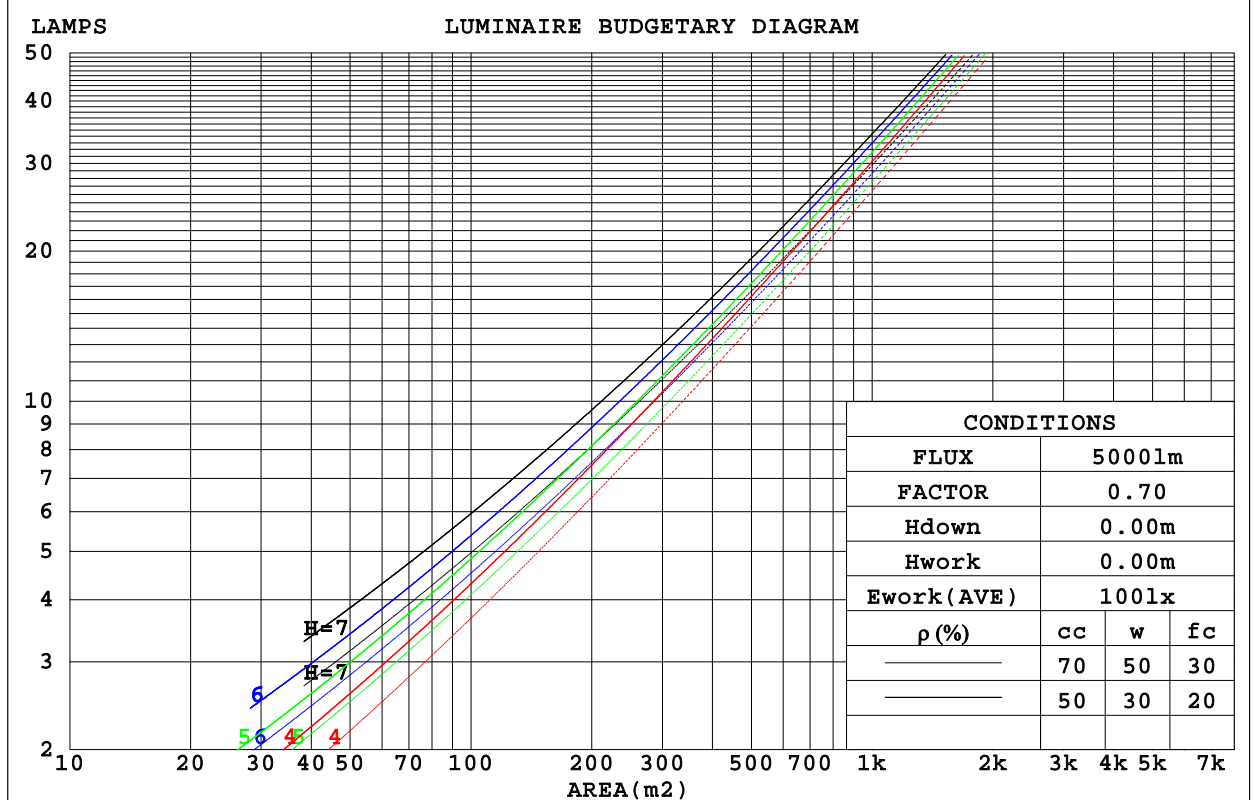


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.96	.91	.86	.95	.89	.85	.91	.87	.83	.88	.84	.81	.85	.82	.80	.78
3.0	.86	.80	.74	.85	.79	.74	.82	.77	.72	.80	.75	.71	.77	.73	.70	.68
4.0	.78	.70	.65	.77	.70	.64	.74	.68	.63	.72	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.57	.70	.62	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6.0	.64	.56	.51	.63	.56	.51	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7.0	.59	.51	.46	.58	.51	.45	.57	.50	.45	.55	.49	.45	.54	.49	.44	.43
8.0	.54	.46	.41	.54	.46	.41	.52	.46	.41	.51	.45	.41	.50	.44	.40	.39
9.0	.50	.43	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [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	.240	.136	.043	.233	.133	.042	.220	.126	.040	.208	.120	.039	.197	.114	.037	
2.0	.235	.129	.040	.229	.126	.039	.218	.121	.038	.208	.117	.036	.198	.112	.035	
3.0	.224	.119	.036	.219	.117	.035	.209	.113	.034	.200	.110	.034	.192	.106	.033	
4.0	.212	.110	.032	.208	.109	.032	.199	.105	.031	.191	.102	.031	.183	.100	.030	
5.0	.200	.102	.030	.196	.101	.029	.188	.098	.029	.181	.096	.028	.174	.093	.028	
6.0	.188	.094	.027	.185	.093	.027	.178	.091	.027	.172	.089	.026	.166	.087	.026	
7.0	.178	.088	.025	.174	.087	.025	.168	.085	.024	.163	.083	.024	.157	.082	.024	
8.0	.168	.082	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023	.149	.077	.022	
9.0	.159	.077	.021	.156	.076	.021	.151	.075	.021	.146	.073	.021	.142	.072	.021	
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.020	

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	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.081	.133	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.055	.087	.060	.039	.050	.035	.023	.016	.012	.008	
5.0	.140	.089	.052	.121	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.105	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [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	11.6	12.9	11.8	13.1	13.3	11.8	13.1	12.0	13.3	13.5
3H	11.6	12.8	11.9	13.1	13.3	12.2	13.4	12.5	13.7	13.9
4H	11.6	12.7	11.9	12.9	13.2	12.2	13.3	12.5	13.6	13.8
6H	11.5	12.5	11.8	12.8	13.1	12.1	13.2	12.4	13.4	13.7
8H	11.4	12.5	11.8	12.7	13.0	12.1	13.1	12.4	13.4	13.6
12H	11.4	12.4	11.7	12.6	12.9	12.0	13.0	12.4	13.3	13.6
4H 2H	11.9	13.1	12.2	13.3	13.6	12.1	13.3	12.4	13.5	13.7
3H	12.1	13.1	12.4	13.3	13.6	12.7	13.7	13.1	14.0	14.3
4H	12.0	12.9	12.4	13.2	13.5	12.7	13.6	13.1	13.9	14.2
6H	11.9	12.7	12.3	13.1	13.4	12.6	13.4	13.0	13.8	14.1
8H	11.9	12.6	12.3	13.0	13.4	12.6	13.3	13.0	13.7	14.0
12H	11.9	12.5	12.3	12.9	13.3	12.5	13.2	13.0	13.6	14.0
8H 4H	12.0	12.7	12.4	13.1	13.5	12.7	13.4	13.1	13.7	14.1
6H	12.0	12.6	12.4	13.0	13.4	12.6	13.2	13.0	13.6	14.0
8H	11.9	12.5	12.4	12.9	13.3	12.5	13.1	13.0	13.5	13.9
12H	11.9	12.3	12.4	12.8	13.3	12.5	12.9	13.0	13.4	13.9
12H 4H	12.0	12.6	12.4	13.0	13.4	12.6	13.3	13.0	13.7	14.1
6H	11.9	12.4	12.4	12.9	13.3	12.5	13.1	13.0	13.5	13.9
8H	11.9	12.3	12.4	12.8	13.3	12.5	12.9	13.0	13.4	13.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 0.3 / - 0.6					+ 0.2 / - 0.4				
2.0H	+ 1.0 / - 1.7					+ 1.0 / - 1.5				

CIE Pub.117, 3553 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.4)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [K=1.0000]  
 Remarks:

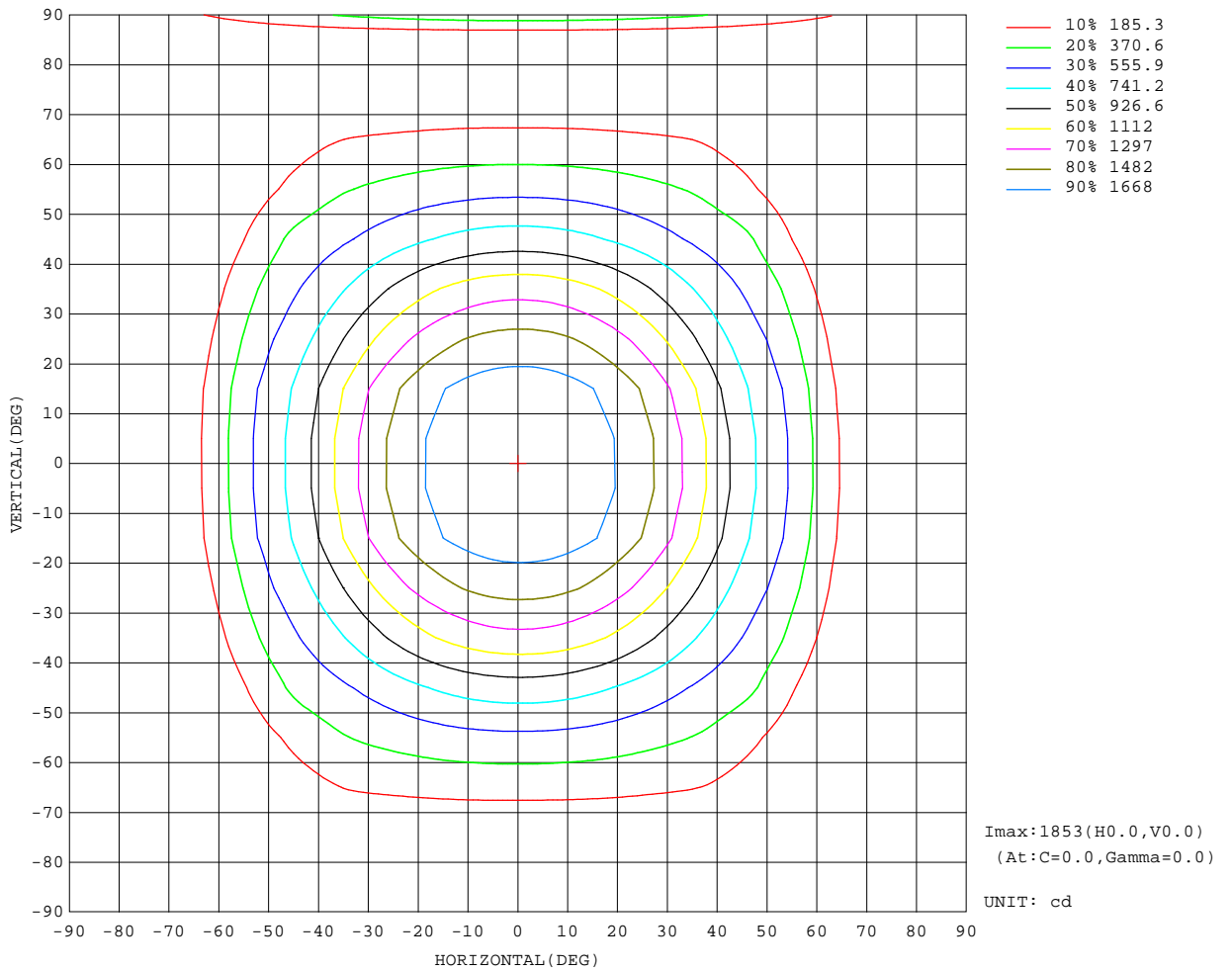
## UTILIZATION FACTORS TABLE

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	66	56	50	66	56	50	65	56	50	44
0.80	76	67	61	76	66	60	74	66	60	54
1.00	85	75	69	83	75	69	81	76	69	63
1.25	91	83	77	90	82	77	87	81	76	70
1.50	95	88	82	94	87	82	91	85	81	74
2.00	101	94	89	99	93	89	96	91	87	81
2.50	104	98	93	102	97	92	99	94	91	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	108	104	100	104	100	98	90
5.00	112	108	105	109	106	103	105	102	100	92
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: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

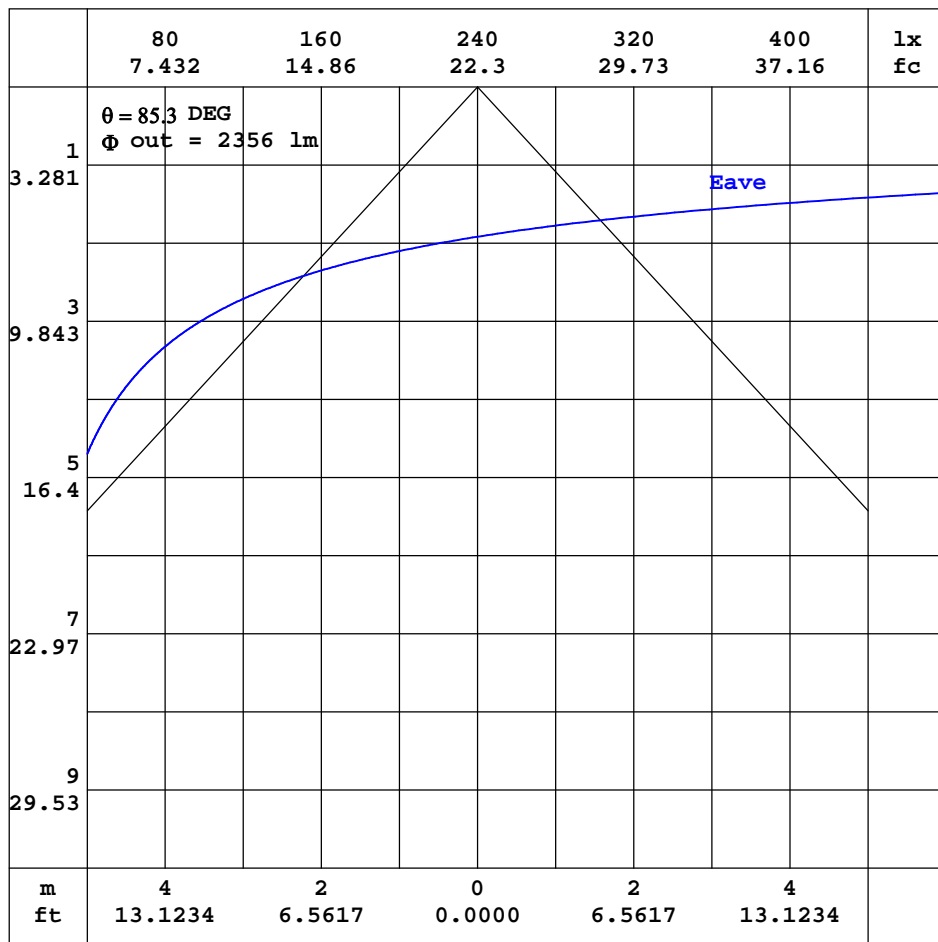


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [K=1.0000]  
 Remarks:



AAI CURVES

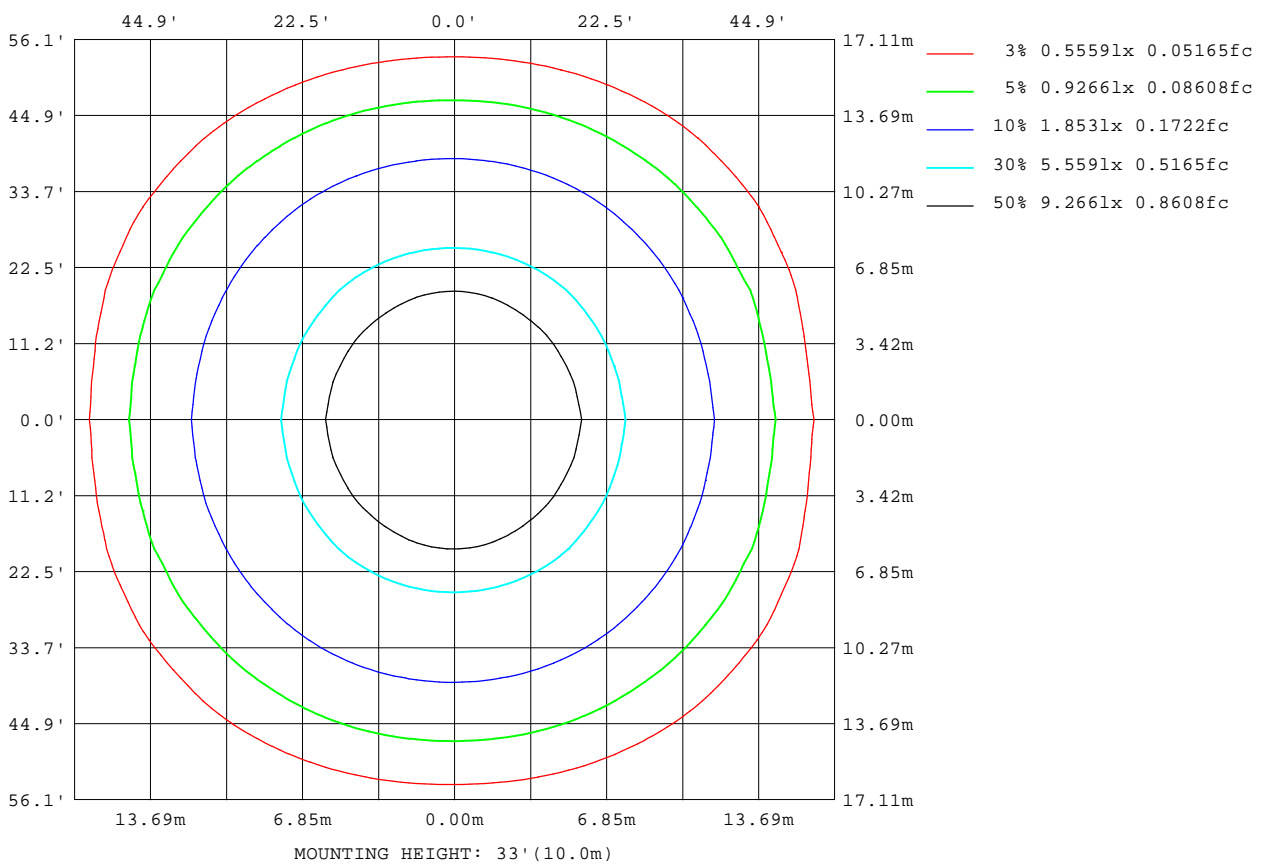


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:221.3V I:0.1184A P:24.94W PF:0.9520 Freq:0Hz Lamp Flux:3552.65x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:	Shielding Angle:

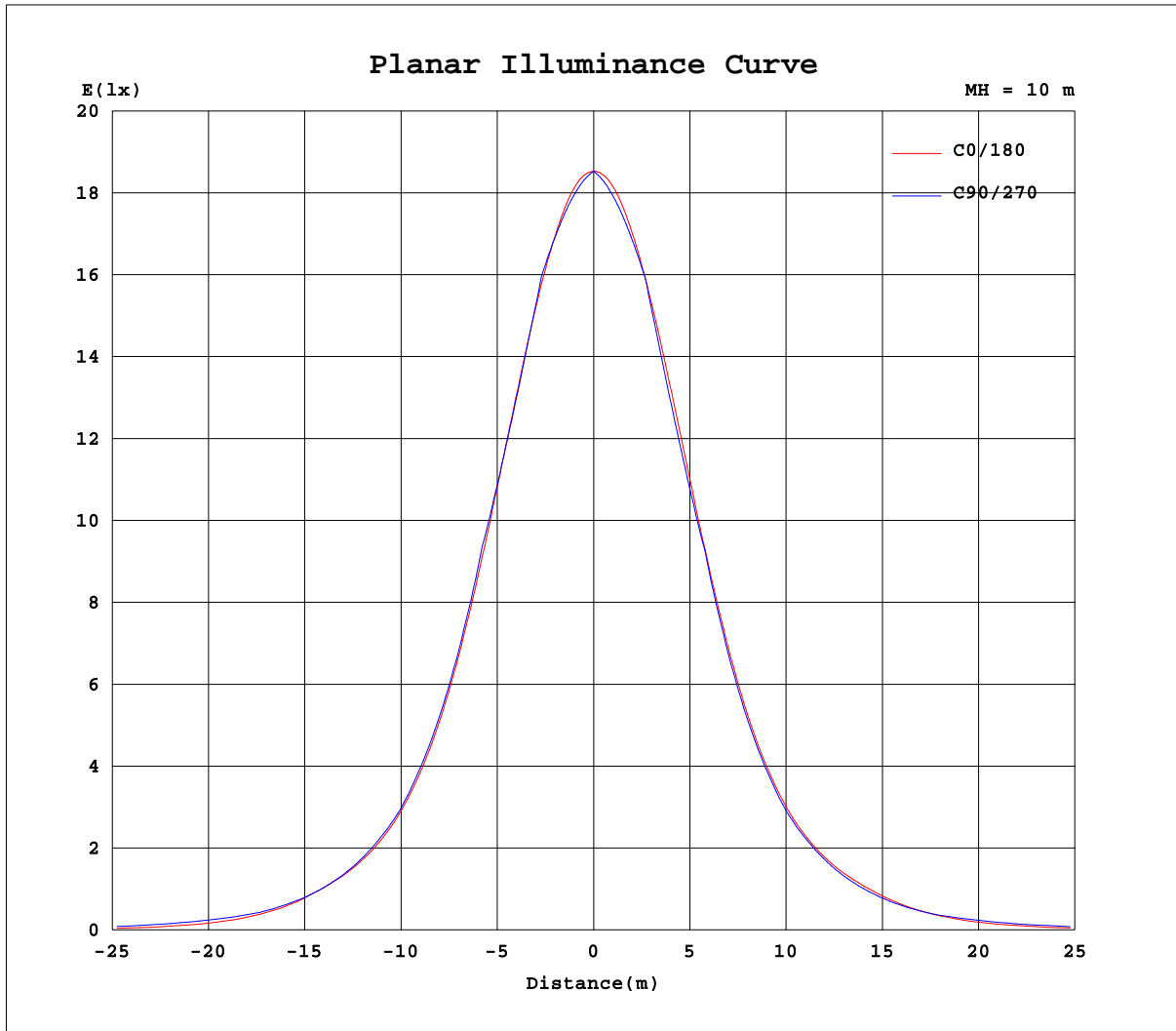
AvgL	cd/m2
L_0~180(65)av	1290
L_0~180(75)av	285
L_0~180(85)av	200
L_90~270(65)av	1884
L_90~270(75)av	289
L_90~270(85)av	0
L_45(65)av	2192
L_45(75)av	994
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853
5	1844	1842	1840	1838	1837	1836	1834	1833	1833	1832	1831	1830	1829	1829	1828	1828	1828	1827	1827
10	1811	1807	1805	1803	1802	1802	1800	1799	1798	1798	1798	1799	1799	1799	1800	1800	1801	1801	1802
15	1756	1752	1750	1749	1749	1745	1742	1742	1743	1747	1753	1759	1764	1768	1772	1774	1775	1776	1776
20	1673	1669	1669	1669	1661	1657	1659	1671	1683	1696	1695	1684	1677	1672	1669	1667	1665	1665	1665
25	1557	1555	1558	1547	1538	1547	1567	1589	1570	1556	1546	1546	1548	1551	1553	1555	1556	1556	1555
30	1407	1408	1408	1389	1394	1423	1427	1404	1392	1399	1407	1414	1415	1420	1426	1433	1438	1443	1445
35	1221	1229	1218	1200	1237	1241	1214	1217	1232	1235	1236	1244	1248	1250	1251	1250	1248	1246	1245
40	1017	1032	1009	1021	1045	1012	1026	1040	1034	1038	1049	1058	1055	1050	1047	1044	1044	1044	1044
45	824	845	809	852	825	834	843	833	850	864	857	850	850	851	850	849	847	846	844
50	660	673	661	672	664	673	666	685	681	672	677	678	678	679	679	679	679	679	680
55	515	523	538	515	539	530	543	533	535	536	532	528	528	528	527	524	520	518	516
60	315	320	347	362	362	393	391	427	408	404	409	406	397	388	378	368	359	354	352
65	153	154	161	180	209	215	246	257	278	286	292	283	272	264	258	252	247	244	243
70	56.7	66.1	73.3	81.3	82.9	93.0	115	122	128	167	188	180	168	158	149	143	137	134	133
75	21.2	21.9	22.6	24.1	28.0	33.5	32.5	53.3	68.4	79.1	82.0	74.5	62.2	51.2	41.8	34.1	28.3	24.7	23.6
80	13.9	12.8	13.0	14.2	14.8	16.1	17.0	20.0	18.3	14.4	11.5	8.90	6.60	4.59	2.92	1.63	0.71	0.18	0.00
85	4.99	6.42	6.17	6.89	7.29	3.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:7.280m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853
5	1827	1827	1827	1828	1828	1828	1829	1829	1830	1831	1833	1834	1835	1837	1839	1842	1844	1846	1844
10	1802	1802	1802	1802	1801	1801	1800	1798	1797	1796	1795	1794	1796	1799	1802	1807	1812	1818	1812
15	1775	1774	1772	1770	1766	1763	1759	1757	1754	1752	1747	1743	1739	1737	1741	1748	1757	1767	1756
20	1667	1668	1671	1672	1675	1678	1681	1686	1686	1680	1676	1674	1667	1659	1652	1660	1673	1690	1673
25	1554	1552	1550	1549	1548	1550	1554	1560	1562	1565	1570	1563	1561	1555	1541	1536	1555	1581	1555
30	1445	1442	1437	1428	1419	1408	1397	1395	1400	1412	1413	1413	1411	1411	1401	1383	1400	1436	1400
35	1244	1243	1244	1246	1249	1254	1258	1239	1220	1211	1223	1234	1226	1223	1232	1206	1209	1255	1209
40	1046	1047	1048	1048	1046	1042	1040	1045	1052	1036	1013	1021	1038	1021	1023	1017	1001	1052	1001
45	844	843	845	848	853	858	859	851	839	844	852	826	828	840	824	840	805	854	805
50	681	682	682	680	676	670	669	678	685	674	665	677	660	666	667	670	651	685	651
55	517	520	524	528	532	535	536	530	523	534	540	522	535	519	533	518	512	540	513
60	355	362	371	380	389	397	403	409	410	408	405	396	366	372	329	329	329	344	332
65	244	248	253	260	268	278	291	296	276	263	261	230	212	186	185	180	172	174	174
70	135	139	144	151	159	170	181	179	162	132	114	104	96.9	77.5	64.3	57.7	60.1	69.1	62.3
75	24.9	28.6	34.4	42.3	52.0	63.5	76.4	84.0	78.8	62.9	45.2	31.2	30.8	28.3	22.4	20.8	21.5	23.1	22.8
80	0.18	0.72	1.64	2.93	4.60	6.60	8.90	11.5	14.4	18.6	20.9	17.8	16.1	14.8	12.9	11.3	10.8	15.1	14.5
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	7.33	7.20	5.79	4.62	5.45	6.40
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2019.10.16  
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:7.280m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853
5	1841	1839	1836	1834	1832	1831	1830	1828	1827	1827	1826	1825	1825	1825	1825	1825	1825	1825	1825
10	1806	1801	1797	1794	1791	1792	1792	1793	1794	1795	1796	1796	1797	1797	1796	1796	1796	1796	1796
15	1747	1739	1735	1737	1740	1743	1747	1749	1751	1753	1756	1759	1762	1764	1766	1767	1768	1768	1768
20	1658	1651	1656	1664	1670	1671	1674	1680	1679	1674	1669	1666	1663	1661	1658	1656	1655	1655	1655
25	1534	1539	1552	1557	1559	1565	1559	1555	1552	1546	1540	1538	1538	1539	1540	1541	1542	1543	1543
30	1382	1400	1409	1408	1408	1408	1406	1393	1387	1388	1398	1408	1416	1423	1428	1429	1429	1426	1422
35	1205	1231	1222	1224	1231	1219	1206	1213	1230	1249	1244	1238	1233	1231	1229	1228	1228	1229	1231
40	1016	1023	1020	1036	1018	1010	1031	1046	1038	1031	1033	1035	1035	1034	1032	1029	1027	1026	1025
45	839	823	839	827	824	849	841	835	846	852	850	843	836	832	829	827	826	827	828
50	669	665	665	659	676	664	672	683	674	664	663	667	669	669	668	666	665	663	662
55	520	534	520	535	523	539	534	522	527	530	527	522	517	512	507	505	503	504	507
60	334	335	378	373	402	410	409	409	405	396	387	378	369	360	351	344	342	343	349
65	184	191	193	221	239	269	267	278	291	281	268	258	251	244	240	236	235	236	239
70	61.9	69.1	83.6	103	110	120	138	165	178	175	163	153	145	138	133	129	128	129	132
75	23.1	24.8	32.0	32.5	34.5	47.5	64.9	79.6	82.9	73.2	60.3	49.0	39.6	31.9	26.2	22.6	21.3	22.5	26.0
80	15.1	15.5	15.8	15.8	17.5	20.2	17.2	13.2	10.5	8.12	6.02	4.18	2.66	1.48	0.65	0.16	0.00	0.16	0.65
85	6.70	6.46	5.92	3.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853	1853				
5	1826	1826	1827	1827	1828	1829	1830	1831	1832	1833	1834	1836	1838	1840	1842				
10	1795	1795	1794	1794	1794	1794	1794	1795	1797	1799	1799	1800	1802	1804	1807				
15	1766	1764	1761	1757	1752	1746	1741	1736	1736	1737	1740	1745	1747	1748	1751				
20	1656	1658	1661	1666	1674	1685	1686	1674	1663	1652	1651	1656	1665	1666	1668				
25	1542	1540	1537	1534	1532	1533	1543	1559	1579	1558	1539	1532	1542	1555	1554				
30	1416	1409	1402	1398	1397	1391	1384	1378	1391	1415	1413	1386	1382	1403	1406				
35	1232	1232	1231	1228	1224	1218	1218	1216	1203	1200	1229	1226	1192	1212	1226				
40	1026	1028	1031	1036	1039	1031	1020	1017	1025	1012	1000	1034	1012	1003	1030				
45	830	832	832	832	833	840	847	835	819	831	823	816	843	804	842				
50	662	662	661	661	662	662	658	668	672	654	664	655	665	656	670				
55	510	512	514	514	515	519	523	524	522	532	521	531	506	532	519				
60	356	365	375	386	395	398	392	397	415	375	378	347	350	339	315				
65	243	249	255	263	274	280	271	264	241	229	200	196	170	154	151				
70	137	143	151	162	174	177	153	114	110	103	84.0	74.7	74.4	68.6	63.6				
75	31.5	39.0	48.0	58.8	70.4	75.6	71.3	60.5	46.3	27.3	31.1	25.3	23.3	22.4	21.7				
80	1.47	2.63	4.11	5.87	7.87	10.1	12.6	15.9	17.3	15.0	14.8	14.8	15.2	14.9	14.7				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	5.72	5.30	6.35	7.53				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019.10.16

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 7.280m [K=1.0000]  
 Remarks: