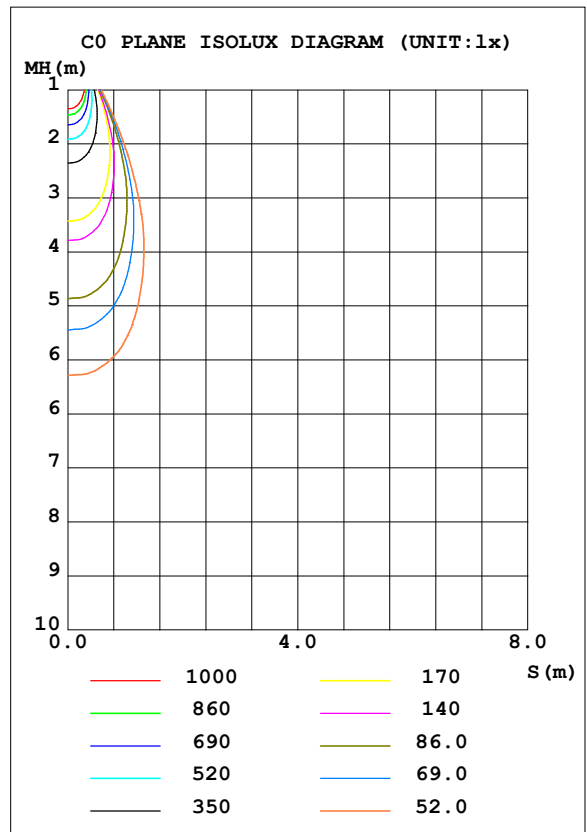
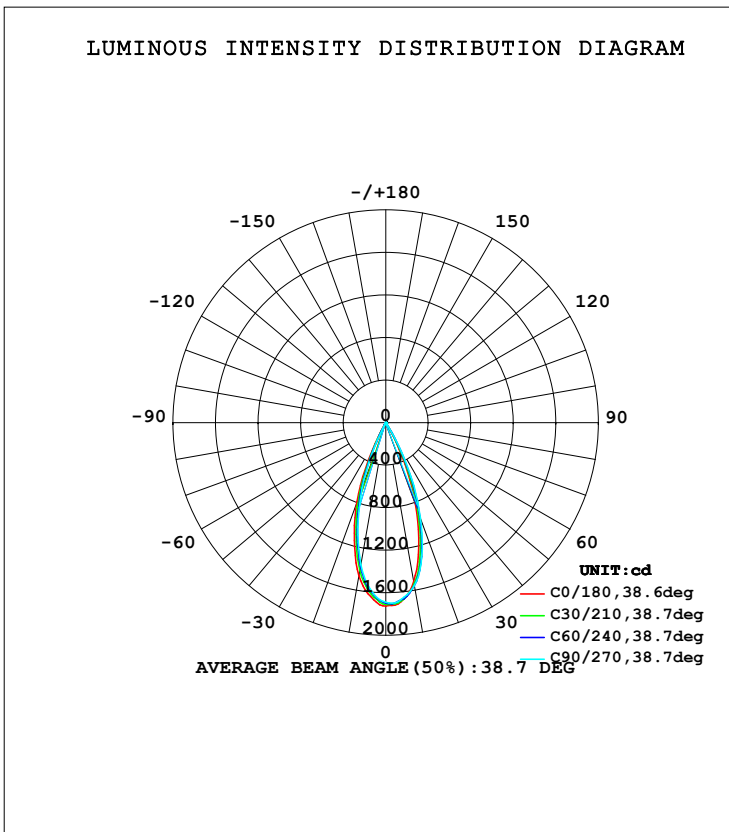


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.37 lm/W			
MODEL		I _{max} (cd)	1726	S/MH (C0/180)	0.60
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.56
RATED VOLTAGE (V)		TOTAL FLUX (lm)	673.76	η UP, DN (C0-180)	0.0, 56.8
NOMINAL FLUX (lm)	673.761	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 43.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX	0.65



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: yu
 Test Date: 2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [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	1520	1556	1555	1521	1460	1382	1354	1363	0- 10	150.5	150.5	22.3,22.3
20	824.5	923.1	951.8	935.8	792.4	691.9	654.0	656.5	10- 20	316.1	466.7	69.3,69.3
30	89.28	160.3	189.4	158.8	54.68	33.38	28.01	30.31	20- 30	184.1	650.7	96.6,96.6
40	9.144	10.38	11.20	11.39	9.086	7.596	6.992	7.061	30- 40	16.05	666.8	99,99
50	3.702	4.077	4.318	4.282	3.489	3.086	2.792	2.785	40- 50	4.431	671.2	99.6,99.6
60	0.9590	1.324	1.533	1.359	0.8665	0.8693	0.6681	0.6435	50- 60	1.872	673.1	99.9,99.9
70	0.1435	0.1094	0.1507	0.0957	0.0614	0.0889	0.0955	0.0821	60- 70	0.3986	673.5	100,100
80	0.1094	0.1094	0.1230	0.0958	0.0410	0.0751	0.0478	0.0547	70- 80	0.0950	673.6	100,100
90	0.1025	0.0958	0.1094	0.0957	0.0410	0.0478	0.0547	0.0478	80- 90	0.0825	673.7	100,100
100	0.1094	0.1025	0.1025	0.1162	0.0615	0.0547	0.0752	0.0615	90-100	0.0839	673.8	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0045	673.8	100,100
120	0	0	0	0	0	0	0	0	110-120	0	673.8	100,100
130	0	0	0	0	0	0	0	0	120-130	0	673.8	100,100
140	0	0	0	0	0	0	0	0	130-140	0	673.8	100,100
150	0	0	0	0	0	0	0	0	140-150	0	673.8	100,100
160	0	0	0	0	0	0	0	0	150-160	0	673.8	100,100
170	0	0	0	0	0	0	0	0	160-170	0	673.8	100,100
180	0	0	0	0	0	0	0	0	170-180	0	673.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

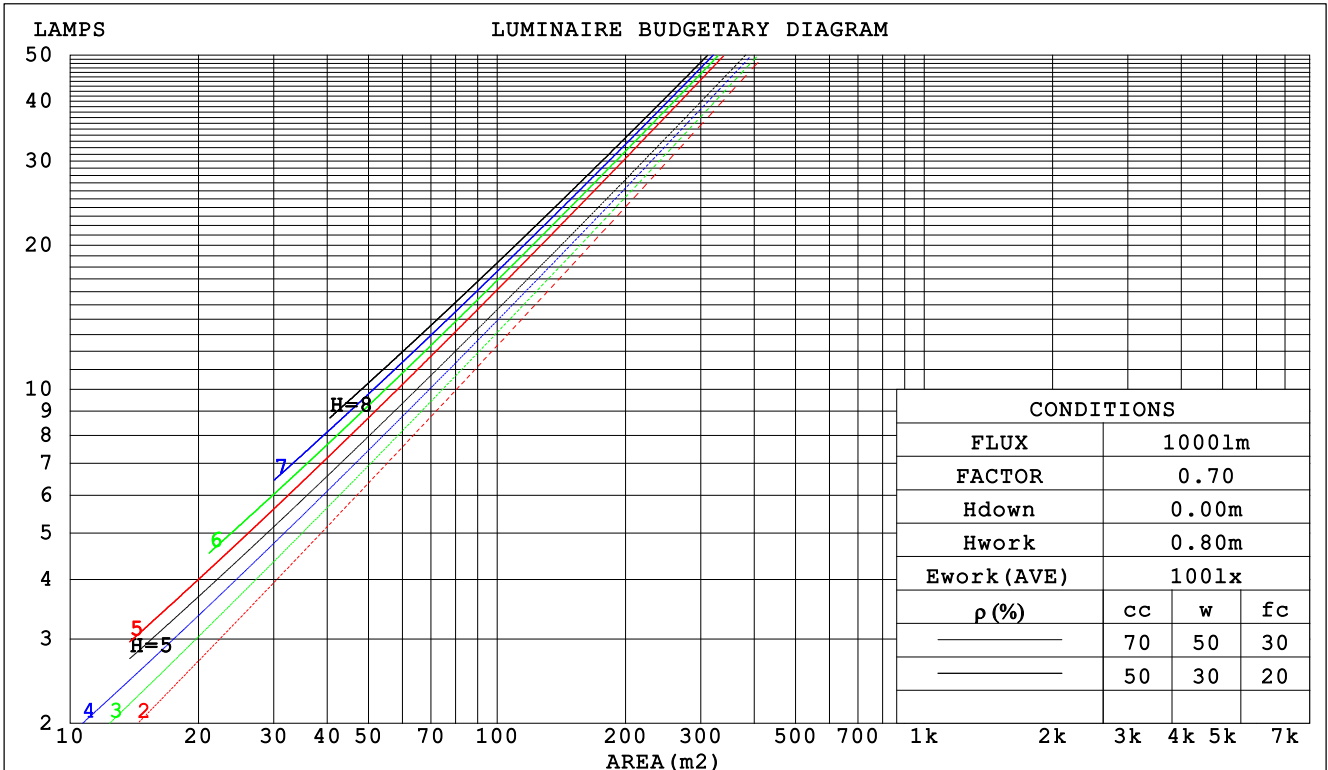
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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						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	.00
1.0	1.12	1.10	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.84	.90	.87	.84	.89	.85	.83	.87	.85	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.85	.82	.80	.84	.81	.79	.78
7.0	.85	.81	.77	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.78	.76	.75
8.0	.82	.78	.74	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72
9.0	.79	.75	.71	.79	.74	.71	.78	.74	.71	.77	.74	.71	.76	.73	.71	.70
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.69	.75	.71	.68	.74	.71	.68	.67



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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	.147	.083	.026	.140	.080	.025	.127	.073	.023	.116	.067	.021	.106	.061	.020	
2.0	.137	.075	.023	.131	.072	.022	.121	.067	.021	.112	.063	.020	.103	.058	.018	
3.0	.128	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.100	.055	.017	
4.0	.121	.063	.019	.117	.061	.018	.110	.058	.017	.103	.055	.017	.097	.053	.016	
5.0	.115	.059	.017	.112	.057	.017	.105	.055	.016	.099	.052	.016	.094	.050	.015	
6.0	.109	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	
7.0	.104	.052	.015	.102	.051	.014	.097	.049	.014	.093	.047	.014	.088	.046	.013	
8.0	.100	.049	.014	.098	.048	.014	.093	.047	.013	.090	.045	.013	.086	.044	.013	
9.0	.096	.046	.013	.094	.046	.013	.090	.045	.013	.087	.043	.012	.083	.042	.012	
10.0	.092	.044	.012	.090	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.042	.029	.034	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.054	.035	.056	.038	.025	.032	.022	.015	.011	.007	.005	
9.0	.088	.056	.035	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.019	.011	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm										
NAME: TOPAZ 930 3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			PROTECTION 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	4.4	5.1	4.6	5.3	5.4	6.6	7.4	6.9	7.5	7.7
3H	4.3	4.9	4.5	5.1	5.3	6.5	7.2	6.8	7.4	7.6
4H	4.2	4.8	4.5	5.0	5.2	6.4	7.1	6.7	7.3	7.5
6H	4.1	4.7	4.4	4.9	5.2	6.4	7.0	6.6	7.2	7.4
8H	4.1	4.7	4.4	4.9	5.2	6.3	6.9	6.6	7.1	7.4
12H	4.1	4.6	4.4	4.9	5.1	6.3	6.8	6.6	7.1	7.4
4H 2H	4.3	4.9	4.5	5.1	5.3	6.5	7.1	6.7	7.3	7.5
3H	4.1	4.7	4.4	4.9	5.2	6.3	6.9	6.6	7.1	7.4
4H	4.0	4.5	4.4	4.8	5.1	6.2	6.7	6.6	7.0	7.3
6H	4.0	4.4	4.3	4.7	5.1	6.1	6.6	6.5	6.9	7.3
8H	3.9	4.3	4.3	4.7	5.0	6.1	6.5	6.5	6.9	7.2
12H	3.9	4.3	4.3	4.6	5.0	6.1	6.4	6.5	6.8	7.2
8H 4H	3.9	4.3	4.3	4.7	5.0	6.1	6.5	6.5	6.8	7.2
6H	3.8	4.2	4.2	4.5	5.0	6.0	6.3	6.4	6.7	7.1
8H	3.8	4.1	4.2	4.5	4.9	5.9	6.2	6.4	6.7	7.1
12H	3.8	4.0	4.2	4.5	4.9	5.9	6.2	6.4	6.6	7.1
12H 4H	3.8	4.2	4.2	4.6	5.0	6.0	6.4	6.4	6.8	7.2
6H	3.8	4.1	4.2	4.5	4.9	5.9	6.2	6.4	6.6	7.1
8H	3.7	4.0	4.2	4.4	4.9	5.9	6.1	6.3	6.6	7.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 4.6					+ 2.8 / - 4.3				
1.5H	+ 2.8 / - 2.5					+ 4.0 / - 2.9				
2.0H	+ 3.6 / - 5.2					+ 3.6 / - 5.1				

CIE Pub.117 Corrected 673.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

669.42 lm

%lum = 99.4%

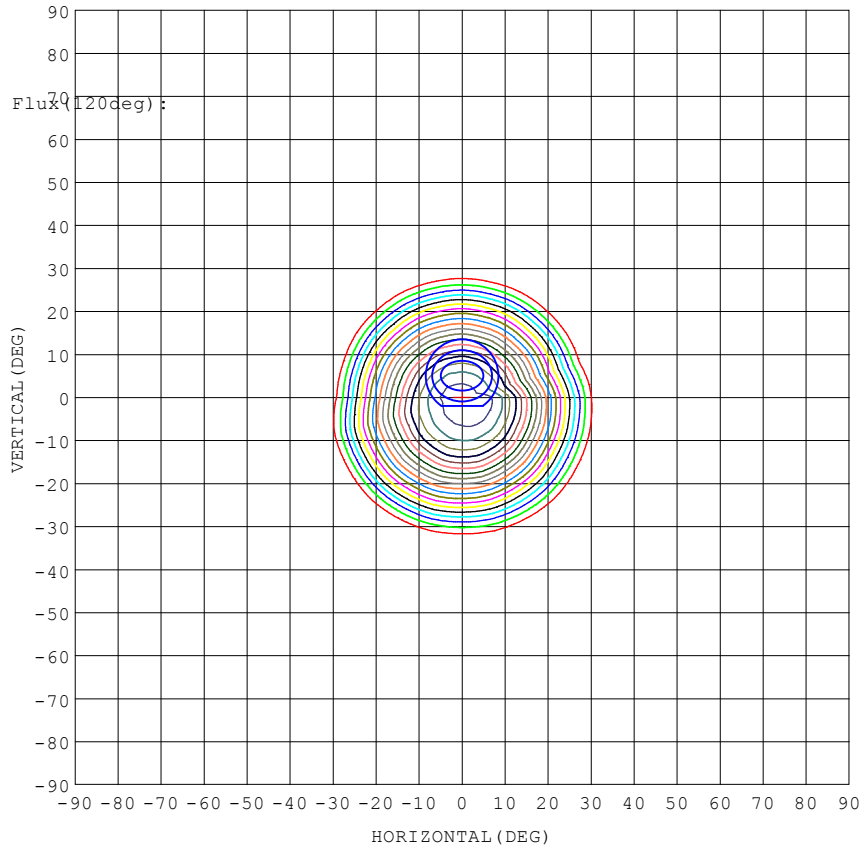
%lamp = 99.4%

Conical surface Flux(20deg):

673.1 lm

%lum = 99.9%

%lamp = 99.9%



- 5% 86.29
- 10% 172.6
- 15% 258.9
- 20% 345.2
- 25% 431.5
- 30% 517.8
- 35% 604.1
- 40% 690.4
- 45% 776.6
- 50% 862.9
- 55% 949.2
- 60% 1036
- 65% 1122
- 70% 1208
- 75% 1294
- 80% 1381
- 85% 1467
- 90% 1553
- 95% 1640

- 1. AVG=1562,MIN=1439
- 2. AVG=1533,MIN=1292
- 3. AVG=1491,MIN=1123

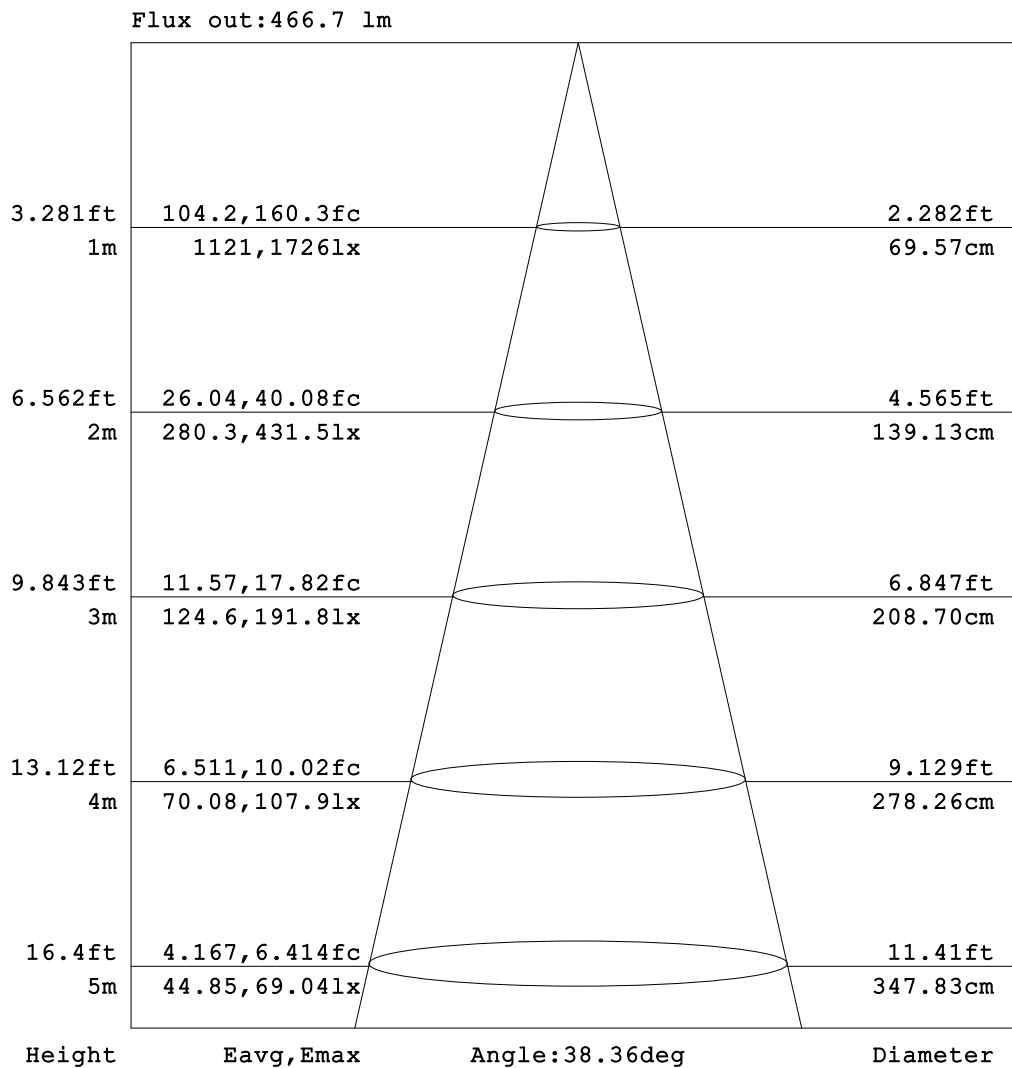
Imax:1726(H0.0,V0.0)
 (At:C=0.0,Gamma=0.0)
 UNIT: cd

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



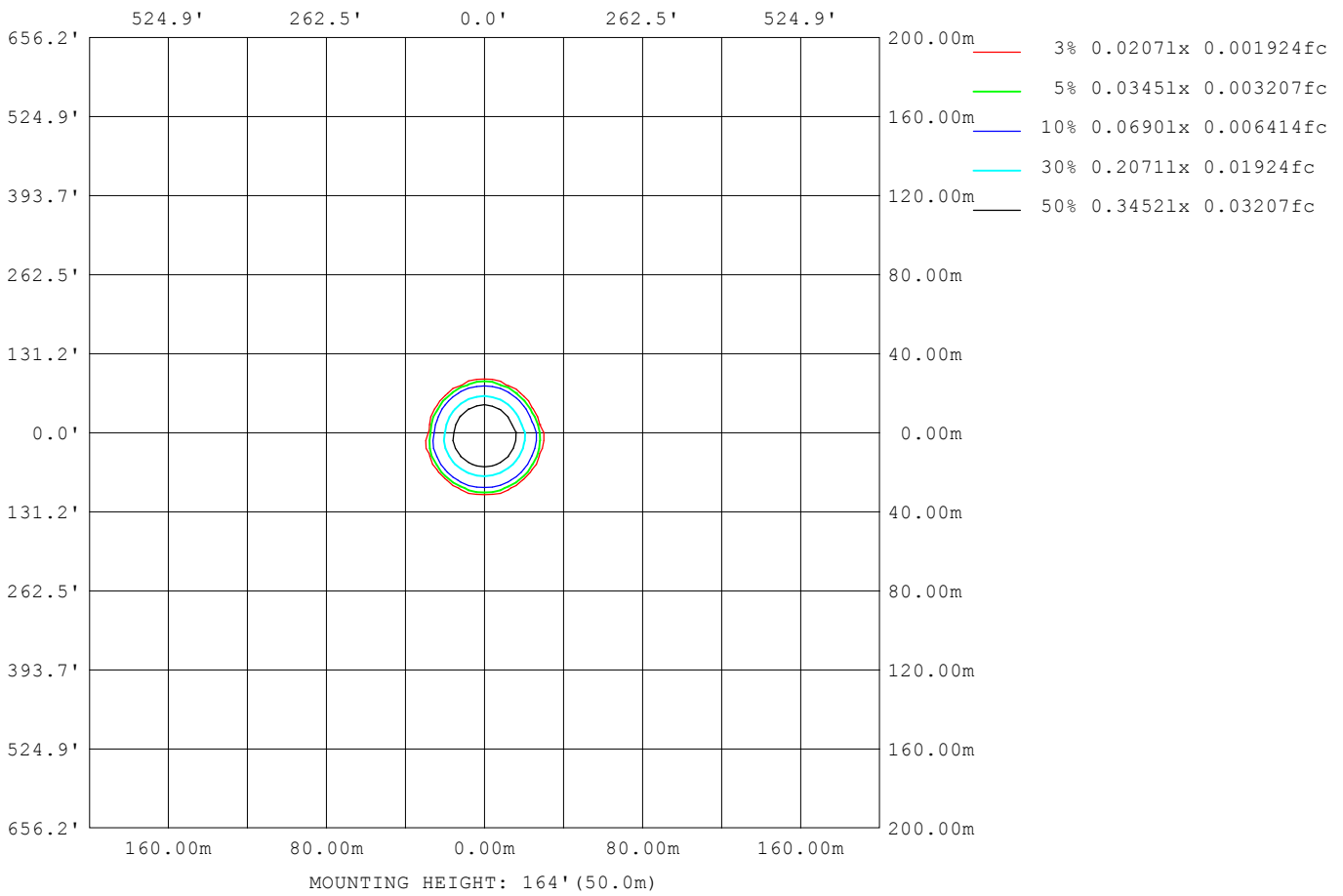
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: yu
 Test Date: 2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

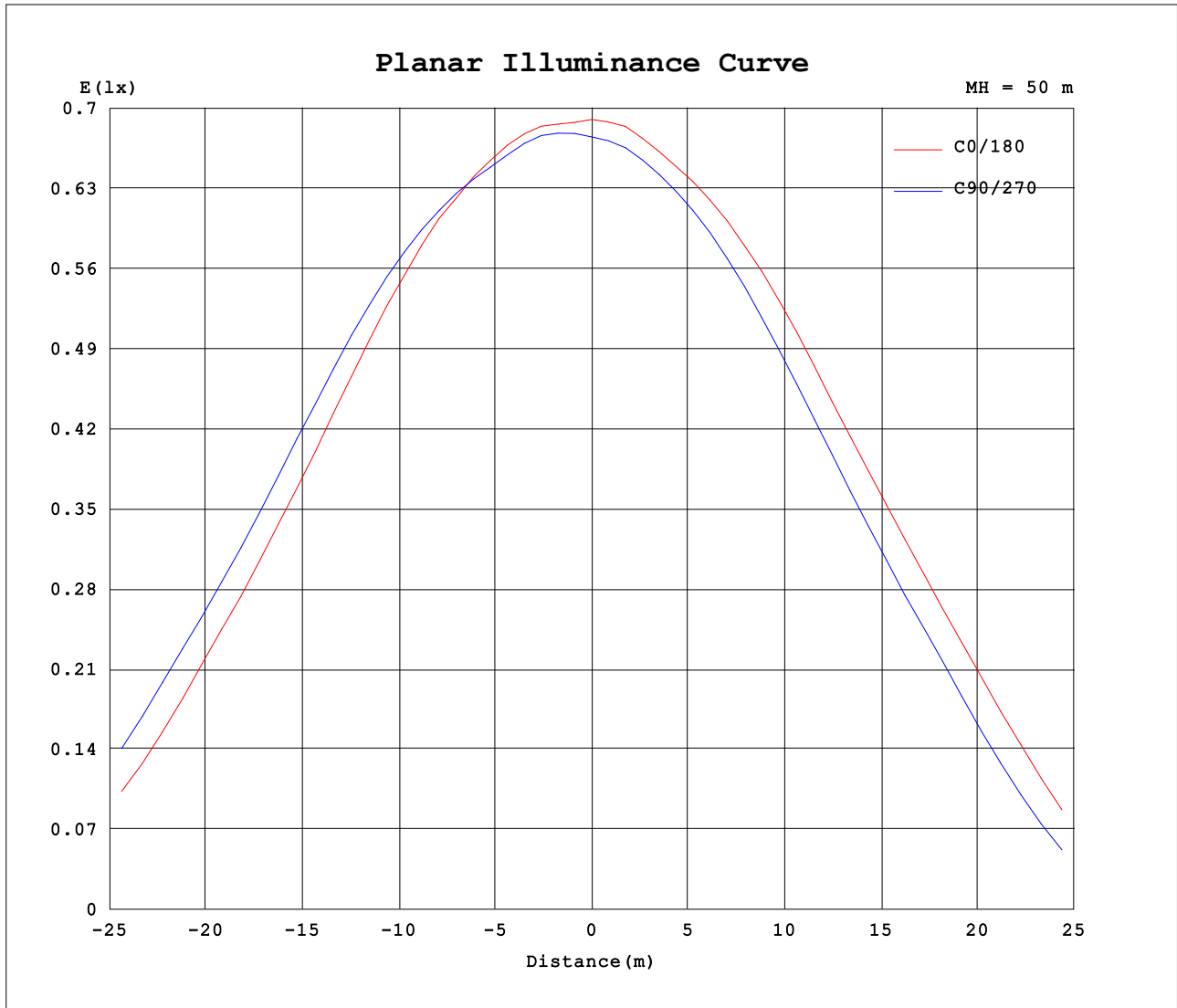
Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operator: yu
 Test Date: 2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1726	1715	1708	1703	1698	1691	1688	1679	1679	1677	1674	1673	1726	1715	1708	1703	1698	1691	1688
5	1689	1689	1684	1683	1673	1671	1668	1669	1662	1656	1641	1631	1642	1624	1617	1600	1593	1584	1587
10	1520	1539	1541	1556	1555	1561	1555	1549	1531	1521	1501	1490	1460	1429	1411	1382	1374	1352	1354
15	1204	1238	1259	1294	1303	1319	1311	1310	1282	1269	1239	1222	1148	1108	1089	1053	1038	1015	1015
20	825	862	884	923	935	958	952	961	942	936	904	890	792	756	732	692	678	654	654
25	429	465	484	523	542	567	567	581	567	563	531	510	386	346	322	285	271	250	251
30	89.3	117	133	160	175	191	189	189	175	159	134	123	54.7	43.2	38.8	33.4	31.2	27.8	28.0
35	17.4	19.0	20.0	22.3	23.4	25.5	25.7	26.1	24.5	23.7	21.8	21.0	16.9	15.4	14.7	13.6	13.0	12.3	12.1
40	9.14	9.64	9.84	10.4	10.5	11.1	11.2	11.6	11.5	11.4	10.9	10.6	9.09	8.42	8.12	7.60	7.33	7.02	6.99
45	5.82	6.04	6.16	6.35	6.44	6.62	6.68	6.73	6.65	6.63	6.38	6.22	5.53	5.23	5.05	4.77	4.60	4.48	4.44
50	3.70	3.83	3.96	4.08	4.15	4.25	4.32	4.35	4.37	4.28	3.98	3.83	3.49	3.37	3.20	3.09	2.94	2.86	2.79
55	2.05	2.34	2.40	2.47	2.55	2.60	2.69	2.70	2.74	2.59	2.22	2.10	1.96	2.01	1.87	1.80	1.70	1.63	1.55
60	0.96	1.21	1.29	1.32	1.42	1.43	1.53	1.54	1.55	1.36	0.94	0.84	0.87	1.01	0.91	0.87	0.75	0.73	0.67
65	0.38	0.40	0.51	0.50	0.57	0.54	0.64	0.62	0.68	0.57	0.28	0.24	0.28	0.29	0.18	0.19	0.11	0.16	0.10
70	0.14	0.10	0.14	0.11	0.14	0.11	0.15	0.10	0.14	0.10	0.13	0.10	0.06	0.10	0.11	0.09	0.08	0.10	0.10
75	0.12	0.10	0.13	0.11	0.13	0.11	0.13	0.10	0.10	0.10	0.12	0.10	0.05	0.09	0.08	0.08	0.05	0.08	0.08
80	0.11	0.10	0.12	0.11	0.12	0.11	0.12	0.10	0.11	0.10	0.10	0.10	0.04	0.08	0.05	0.08	0.05	0.06	0.05
85	0.10	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.09	0.10	0.11	0.10	0.04	0.07	0.04	0.06	0.05	0.06	0.05
90	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.09	0.10	0.10	0.10	0.04	0.05	0.04	0.05	0.05	0.05	0.05
95	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.09	0.11	0.10	0.10	0.05	0.05	0.05	0.05	0.06	0.05	0.05
100	0.11	0.10	0.11	0.10	0.11	0.11	0.10	0.10	0.11	0.12	0.11	0.10	0.06	0.05	0.07	0.05	0.06	0.08	0.08
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
175	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
180	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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.9V I:0.0420A P:9.310W PF:0.9550 Lamp Flux:673.761x1 lm		
NAME: TOPAZ 930 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1679	1679	1677	1674	1673														
5	1582	1589	1592	1600	1603														
10	1348	1359	1363	1380	1391														
15	1006	1019	1021	1044	1055														
20	643	655	656	679	690														
25	245	257	263	289	301														
30	27.6	29.4	30.3	34.3	36.6														
35	11.9	12.0	12.1	12.5	12.9														
40	6.90	6.99	7.06	7.27	7.43														
45	4.45	4.46	4.56	4.58	4.70														
50	2.78	2.79	2.79	2.58	2.68														
55	1.57	1.56	1.48	1.16	1.23														
60	0.67	0.65	0.64	0.31	0.37														
65	0.14	0.08	0.11	0.09	0.15														
70	0.10	0.04	0.08	0.08	0.08														
75	0.07	0.04	0.07	0.04	0.08														
80	0.05	0.04	0.05	0.03	0.06														
85	0.05	0.04	0.05	0.03	0.05														
90	0.05	0.05	0.05	0.04	0.05														
95	0.05	0.05	0.05	0.05	0.05														
100	0.07	0.04	0.06	0.06	0.04														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: