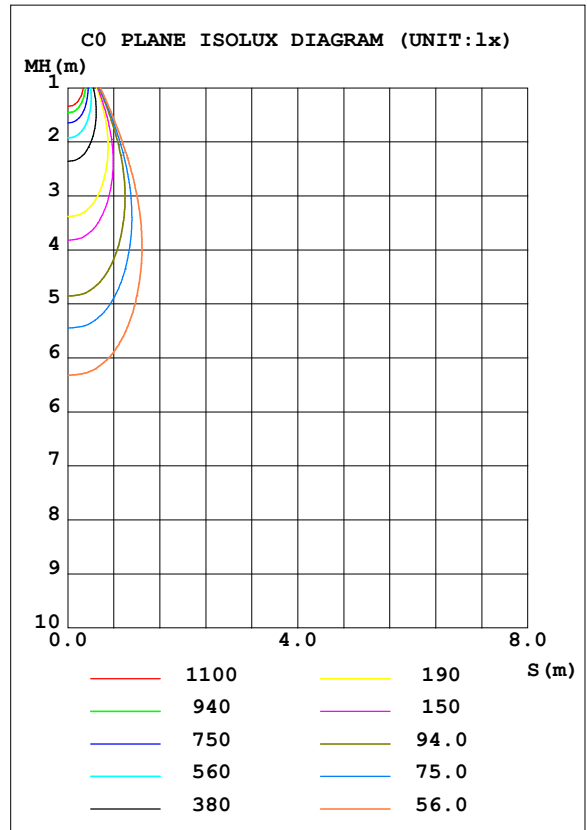
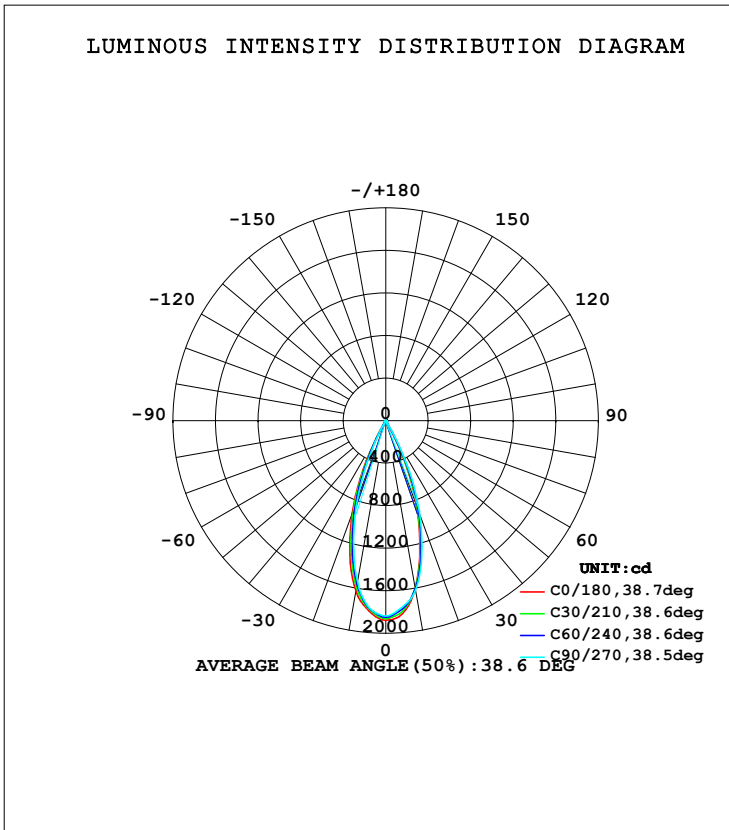


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.79 lm/W			
MODEL		I _{max} (cd)	1878	S/MH (C0/180)	0.63
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.58
RATED VOLTAGE (V)		TOTAL FLUX (lm)	729.99	η UP, DN (C0-180)	0.0, 53.1
NOMINAL FLUX (lm)	729.992	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.9
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	1596	1608	1616	1628	1626	1568	1537	1492	0- 10	163.2	163.2	22.4,22.4
20	843.4	894.4	936.3	991.4	926.7	850.8	780.6	729.2	10- 20	340.8	504.0	69,69
30	61.57	77.04	110.8	162.8	103.7	84.99	62.23	42.96	20- 30	200.9	704.9	96.6,96.6
40	10.28	10.23	10.76	12.02	11.65	11.79	10.93	9.500	30- 40	17.14	722.0	98.9,98.9
50	3.587	3.728	4.140	4.515	4.239	4.139	3.940	3.463	40- 50	5.168	727.2	99.6,99.6
60	0.8219	0.9009	1.267	1.460	1.105	1.150	1.365	1.081	50- 60	2.079	729.3	99.9,99.9
70	0.1436	0.0957	0.1367	0.1025	0.0889	0.1231	0.0889	0.0958	60- 70	0.4546	729.7	100,100
80	0.1094	0.0957	0.1162	0.1025	0.0547	0.0752	0.0887	0.0616	70- 80	0.1005	729.8	100,100
90	0.1025	0.1026	0.1094	0.1025	0.0410	0.0478	0.0615	0.0410	80- 90	0.0867	729.9	100,100
100	0.1025	0.1025	0.1094	0.1025	0.0684	0.0615	0.0615	0.0410	90-100	0.0856	730.0	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0045	730.0	100,100
120	0	0	0	0	0	0	0	0	110-120	0	730.0	100,100
130	0	0	0	0	0	0	0	0	120-130	0	730.0	100,100
140	0	0	0	0	0	0	0	0	130-140	0	730.0	100,100
150	0	0	0	0	0	0	0	0	140-150	0	730.0	100,100
160	0	0	0	0	0	0	0	0	150-160	0	730.0	100,100
170	0	0	0	0	0	0	0	0	160-170	0	730.0	100,100
180	0	0	0	0	0	0	0	0	170-180	0	730.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

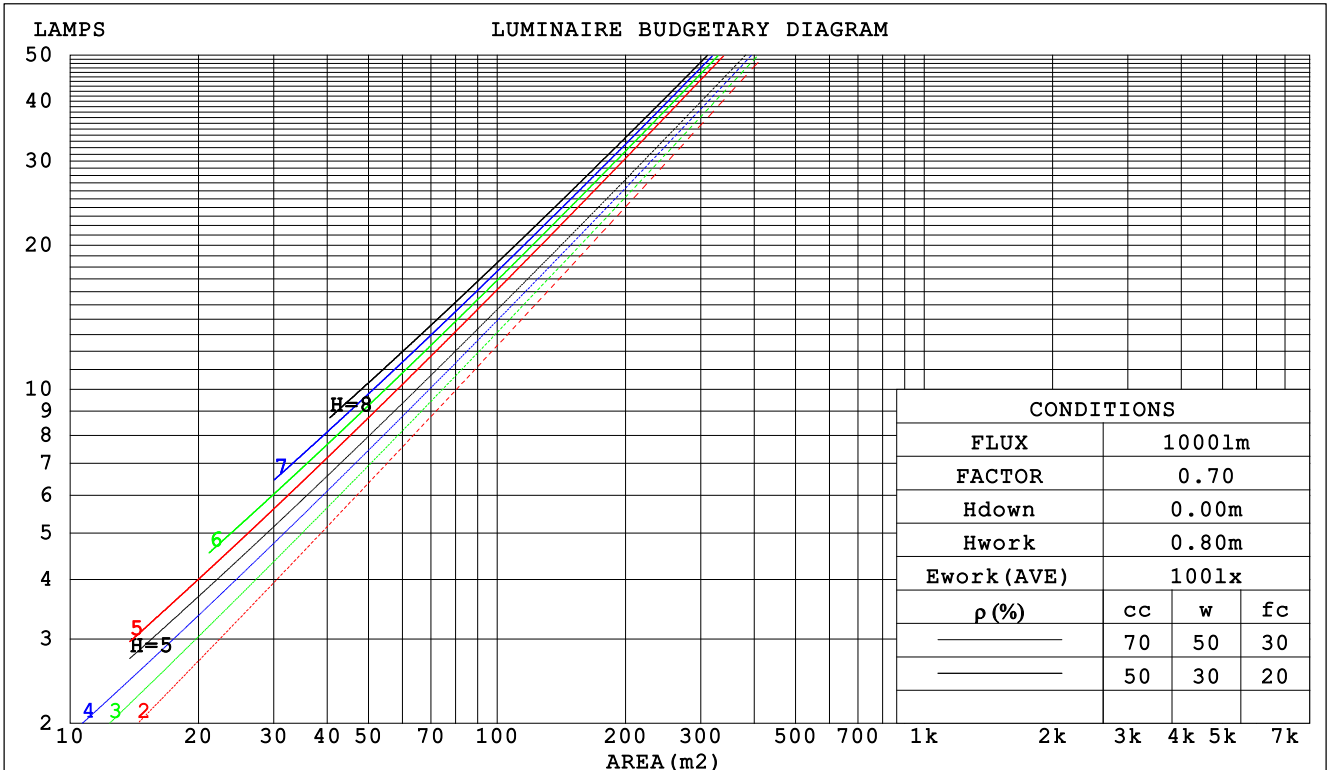
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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															
	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	.97	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.92	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.84
5.0	.93	.88	.85	.92	.88	.84	.90	.86	.84	.89	.85	.83	.87	.84	.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	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.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	.73	.71	.76	.73	.71	.70
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.69	.74	.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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm											
NAME: TOPAZ 940 4000K						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.:						SUR.:			PROTECTION 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	.147	.083	.026	.140	.080	.025	.128	.073	.023	.116	.067	.022	.106	.061	.020	
2.0	.137	.075	.023	.132	.072	.022	.121	.067	.021	.112	.063	.020	.103	.058	.018	
3.0	.129	.068	.021	.124	.066	.020	.115	.063	.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	.100	.053	.016	.094	.050	.015	
6.0	.109	.055	.016	.107	.054	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	
7.0	.104	.052	.015	.102	.051	.014	.097	.049	.014	.093	.048	.014	.088	.046	.014	
8.0	.100	.049	.014	.098	.048	.014	.094	.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	.091	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	

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	.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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm										
NAME: TOPAZ 940 4000K					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	3.7	4.4	3.9	4.6	4.7	4.5	5.3	4.8	5.4	5.6
3H	3.6	4.2	3.8	4.4	4.6	4.4	5.1	4.6	5.3	5.5
4H	3.5	4.1	3.8	4.3	4.5	4.3	5.0	4.6	5.2	5.4
6H	3.4	4.0	3.7	4.3	4.5	4.3	4.9	4.5	5.1	5.3
8H	3.4	4.0	3.7	4.2	4.5	4.2	4.8	4.5	5.0	5.3
12H	3.4	3.9	3.7	4.2	4.4	4.2	4.8	4.5	5.0	5.3
4H 2H	3.5	4.2	3.8	4.4	4.6	4.4	5.0	4.6	5.2	5.4
3H	3.4	3.9	3.7	4.2	4.5	4.2	4.7	4.5	5.0	5.3
4H	3.3	3.8	3.6	4.1	4.4	4.1	4.6	4.4	4.9	5.2
6H	3.2	3.7	3.6	4.0	4.3	4.0	4.5	4.4	4.8	5.1
8H	3.2	3.6	3.6	3.9	4.3	4.0	4.4	4.4	4.8	5.1
12H	3.2	3.6	3.6	3.9	4.3	4.0	4.4	4.4	4.7	5.1
8H 4H	3.1	3.6	3.5	3.9	4.3	4.0	4.4	4.3	4.7	5.1
6H	3.1	3.4	3.5	3.8	4.2	3.9	4.2	4.3	4.6	5.0
8H	3.0	3.4	3.5	3.8	4.2	3.9	4.2	4.3	4.6	5.0
12H	3.0	3.3	3.5	3.8	4.2	3.8	4.1	4.3	4.6	5.0
12H 4H	3.1	3.5	3.5	3.8	4.2	3.9	4.3	4.3	4.7	5.0
6H	3.0	3.3	3.5	3.7	4.2	3.8	4.1	4.3	4.5	5.0
8H	3.0	3.3	3.5	3.7	4.2	3.8	4.1	4.3	4.5	5.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 7.3					+ 2.6 / - 4.6				
1.5H	+ 3.9 / - 5.1					+ 3.7 / - 3.2				
2.0H	+ 4.9 / - 7.4					+ 4.1 / - 6.0				

CIE Pub.117 Corrected 730.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.1)

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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

725.13 lm

%lum = 99.3%

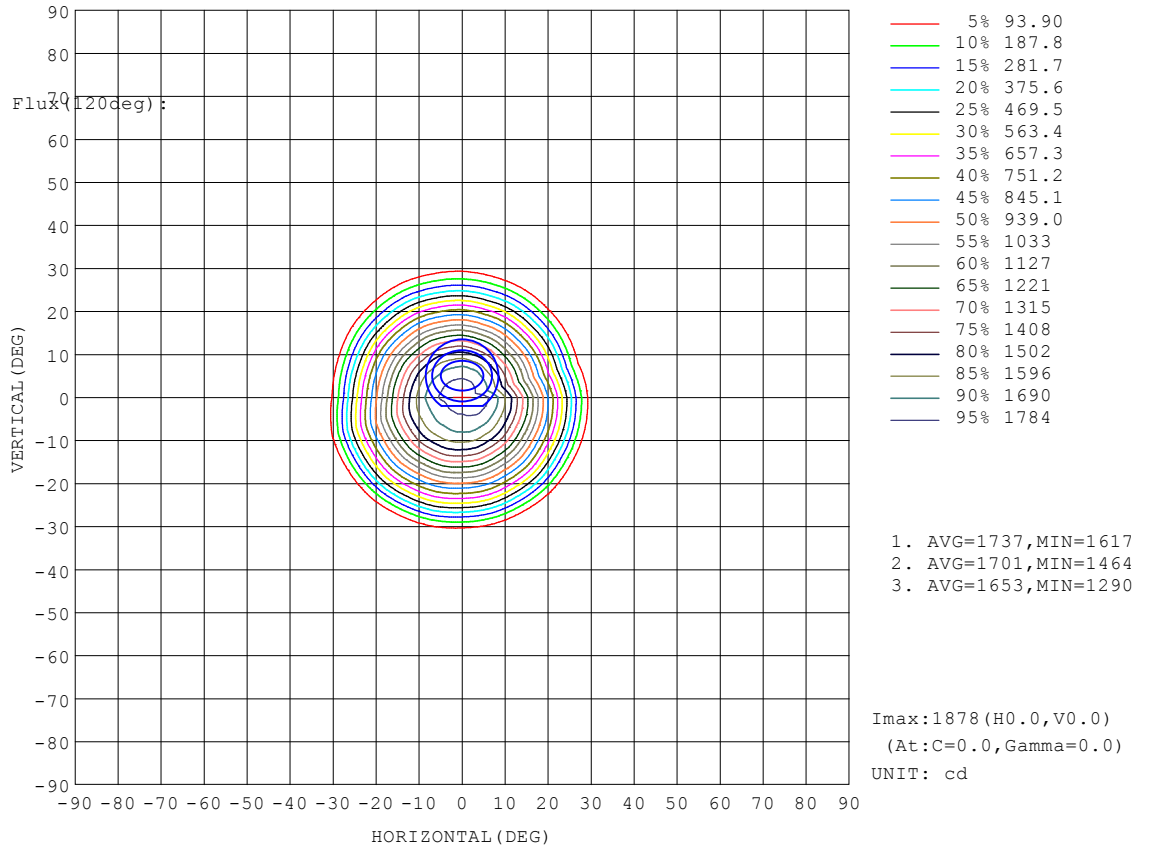
%lamp = 99.3%

Conical surface Flux(20deg):

729.26 lm

%lum = 99.9%

%lamp = 99.9%

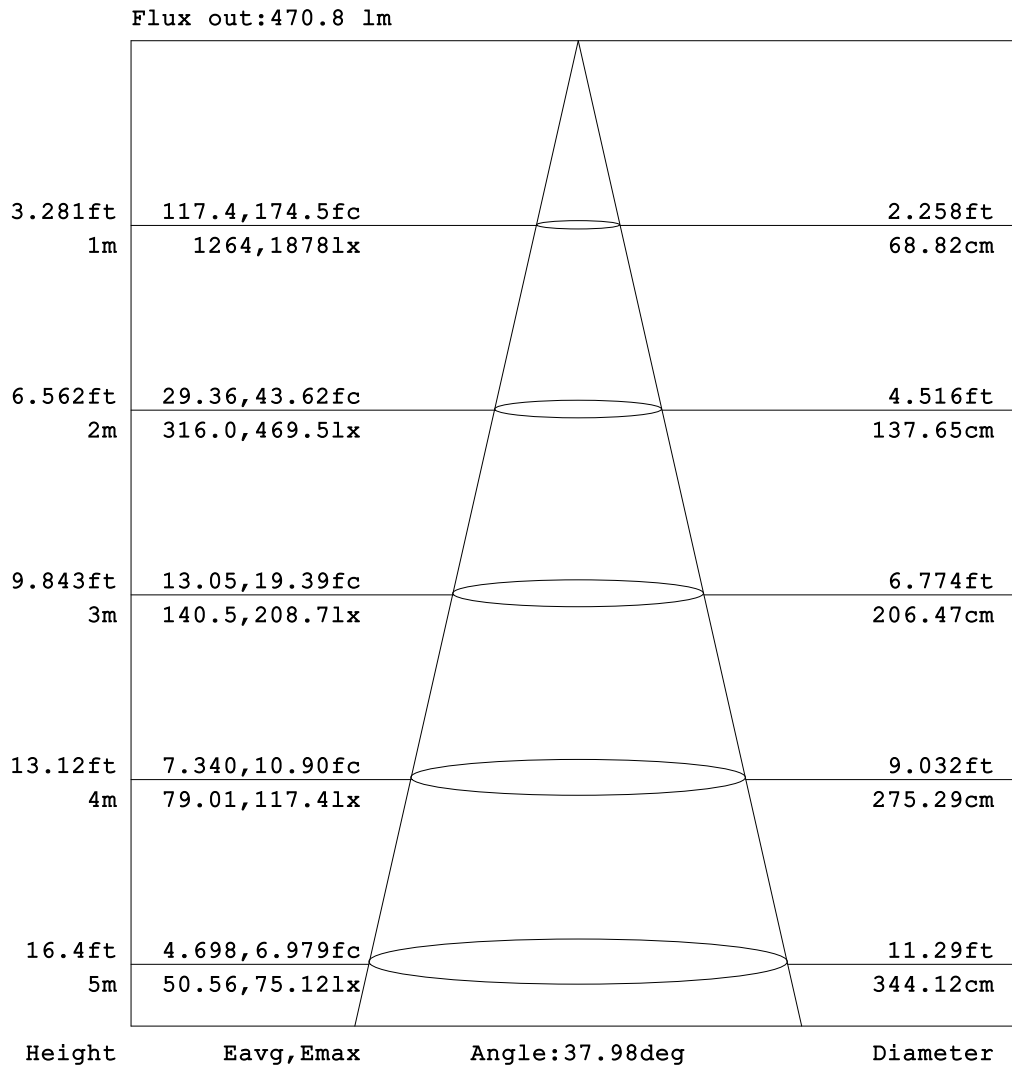


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yu
 Test Date:2018-10-17

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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



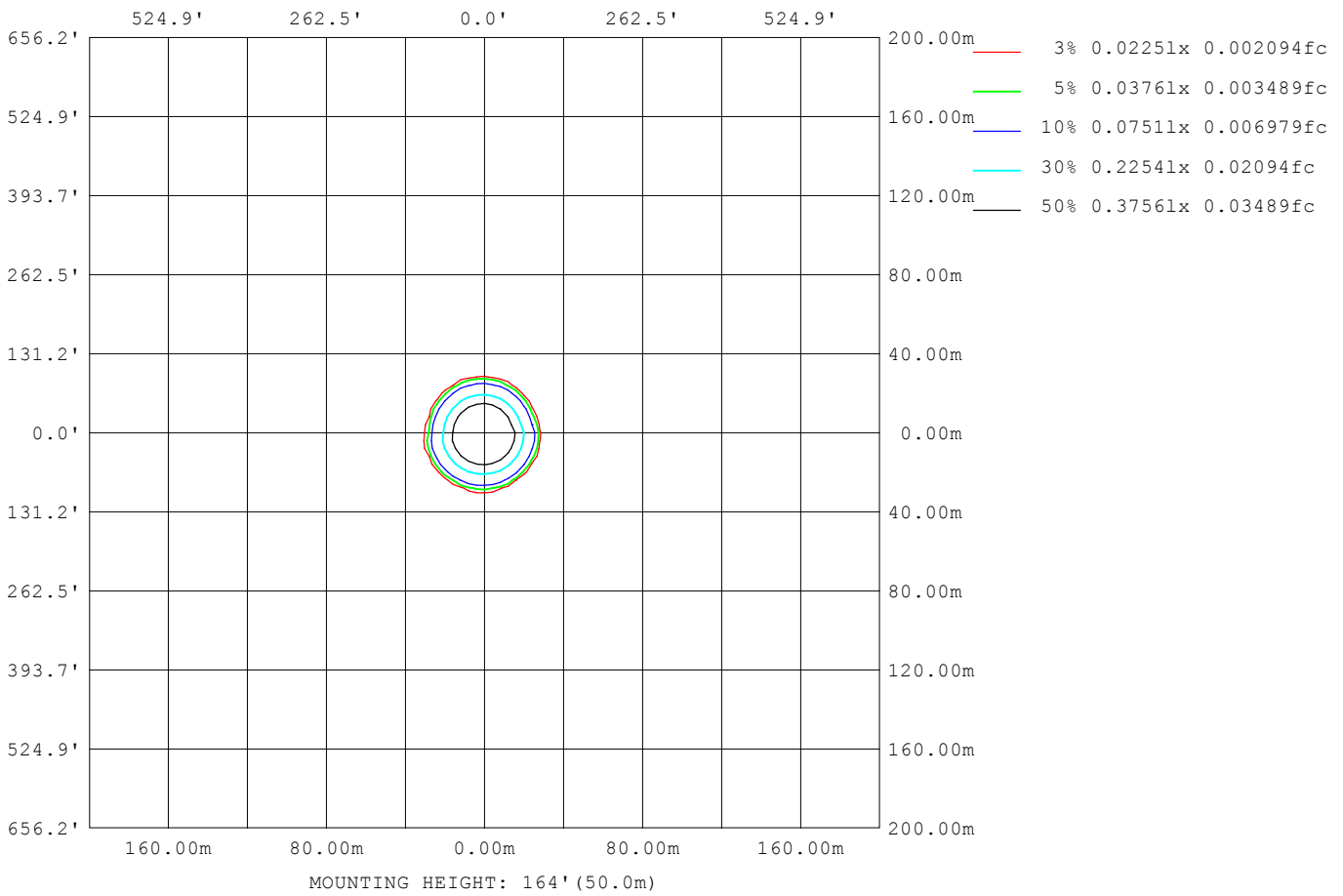
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

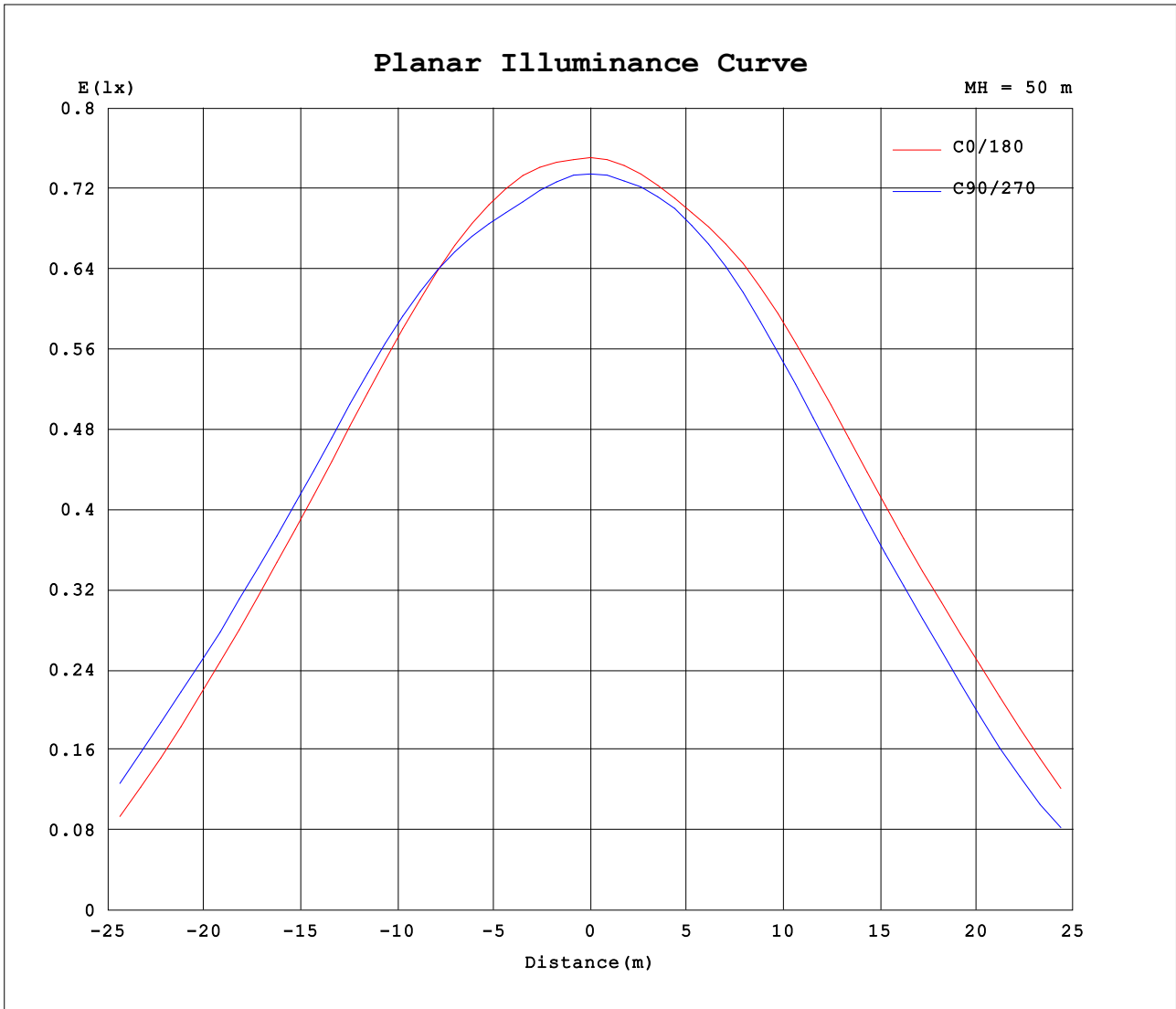
Test:U:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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
 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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	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	1878	1868	1862	1856	1849	1843	1837	1834	1829	1823	1818	1815	1878	1868	1862	1856	1849	1843	1837
5	1821	1814	1800	1795	1780	1772	1761	1760	1758	1763	1761	1765	1797	1785	1780	1775	1774	1768	1771
10	1596	1603	1596	1608	1606	1618	1616	1624	1620	1628	1624	1629	1626	1604	1595	1568	1561	1538	1537
15	1243	1260	1263	1282	1286	1307	1309	1332	1336	1354	1351	1358	1307	1278	1264	1231	1219	1185	1175
20	843	864	866	894	902	932	936	960	965	991	989	1000	927	901	886	851	835	794	781
25	413	433	438	471	485	519	529	563	574	600	596	607	510	476	462	424	412	370	355
30	61.6	65.9	65.1	77.0	83.4	104	111	134	141	163	172	177	104	94.5	97.6	85.0	83.6	67.7	62.2
35	19.5	19.5	19.0	19.6	19.8	21.0	21.2	22.9	23.7	25.8	26.4	28.2	23.4	23.0	23.4	22.5	21.9	20.8	20.2
40	10.3	10.3	10.0	10.2	10.3	10.6	10.8	11.3	11.5	12.0	12.2	12.7	11.7	11.8	12.0	11.8	11.7	11.1	10.9
45	6.10	6.09	6.01	6.21	6.29	6.50	6.59	6.86	6.97	7.23	7.27	7.45	6.96	6.90	6.96	6.79	6.77	6.41	6.36
50	3.59	3.26	3.33	3.73	3.89	4.01	4.14	4.32	4.41	4.51	4.59	4.64	4.24	3.90	3.89	4.14	4.17	4.06	3.94
55	1.92	1.48	1.58	2.01	2.27	2.31	2.42	2.57	2.67	2.70	2.79	2.81	2.38	2.01	2.02	2.39	2.54	2.49	2.42
60	0.82	0.41	0.54	0.90	1.12	1.15	1.27	1.37	1.44	1.46	1.51	1.52	1.11	0.71	0.65	1.15	1.39	1.42	1.37
65	0.29	0.19	0.24	0.28	0.40	0.39	0.49	0.50	0.57	0.55	0.63	0.59	0.37	0.29	0.22	0.50	0.57	0.61	0.54
70	0.14	0.10	0.13	0.10	0.13	0.11	0.14	0.10	0.12	0.10	0.12	0.10	0.09	0.12	0.05	0.12	0.09	0.12	0.09
75	0.12	0.10	0.11	0.10	0.12	0.11	0.12	0.10	0.13	0.10	0.12	0.10	0.07	0.08	0.03	0.10	0.05	0.09	0.08
80	0.11	0.10	0.10	0.10	0.11	0.11	0.12	0.10	0.11	0.10	0.11	0.10	0.05	0.07	0.03	0.08	0.05	0.08	0.09
85	0.12	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.11	0.10	0.10	0.10	0.04	0.05	0.03	0.05	0.05	0.07	0.07
90	0.10	0.11	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.04	0.05	0.03	0.05	0.05	0.05	0.06
95	0.10	0.11	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.10	0.11	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.06
100	0.10	0.11	0.10	0.10	0.10	0.10	0.11	0.11	0.12	0.10	0.11	0.10	0.07	0.05	0.05	0.06	0.08	0.04	0.06
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:230.8V I:0.0440A P:9.760W PF:0.9580 Lamp Flux:729.992x1 lm		
NAME: TOPAZ 940 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1834	1829	1823	1818	1815														
5	1762	1760	1753	1744	1731														
10	1517	1511	1492	1490	1475														
15	1145	1142	1121	1128	1115														
20	750	748	729	734	725														
25	329	328	309	308	296														
30	50.7	47.2	43.0	42.6	39.9														
35	19.0	18.6	17.7	17.3	16.4														
40	10.3	10.1	9.50	9.37	8.92														
45	6.14	5.93	5.66	5.56	5.30														
50	3.78	3.61	3.46	3.37	3.24														
55	2.34	2.16	2.07	1.94	1.86														
60	1.31	1.16	1.08	0.95	0.88														
65	0.48	0.36	0.32	0.20	0.23														
70	0.11	0.10	0.10	0.08	0.12														
75	0.09	0.10	0.08	0.08	0.09														
80	0.08	0.05	0.06	0.06	0.07														
85	0.05	0.05	0.04	0.04	0.05														
90	0.05	0.05	0.04	0.04	0.05														
95	0.03	0.05	0.04	0.05	0.05														
100	0.07	0.07	0.04	0.06	0.07														
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: