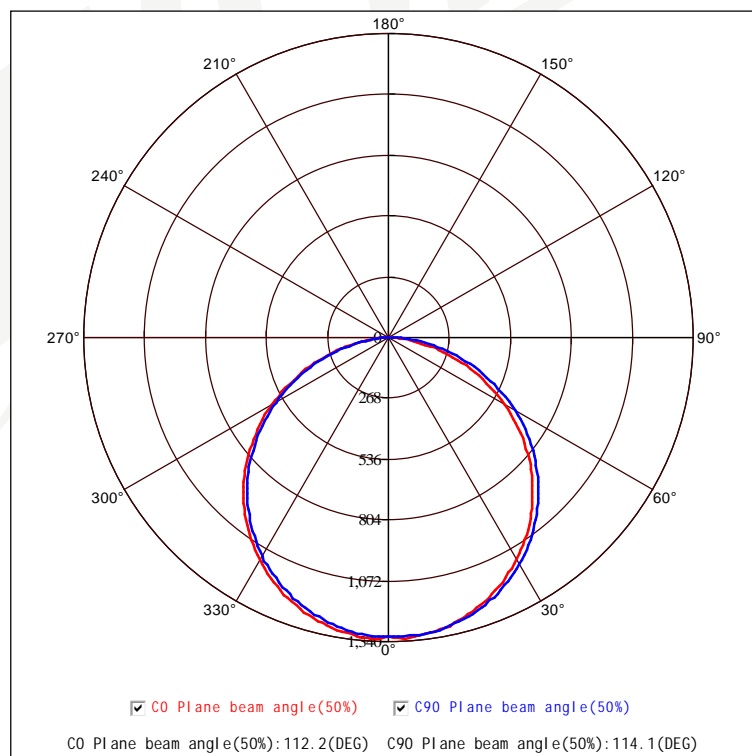


Goniophotometer Test Report

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm						
Lamp Name: 直下式1203			Lamp Type: LED LIGHT		Weight(kg):	
Lamp ID:			Lamp Spec:		Shape Size: 1195*295	
Manufactory:			Sur(m^2): 0.29		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model			Peak Value(cd)	1333.2	Efficiency(lm/w)	98.7
Nominal P(w)	40.0		Position	180.0, 2.0	UP(C0-C180)	0.0
Rated Volt(v)	230.0		Total Flux(lm)	3799.210	Down(C0-C180)	52.0
Rated Flux(lm)	1.0		Up Flux Rate(%)	0.0	UP(C180-C360)	0.0
Illuminant QTY	1		Dw Flux Rate(%)	100.0	Down(C180-C360)	48.0

Planar Intensity Distribution Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

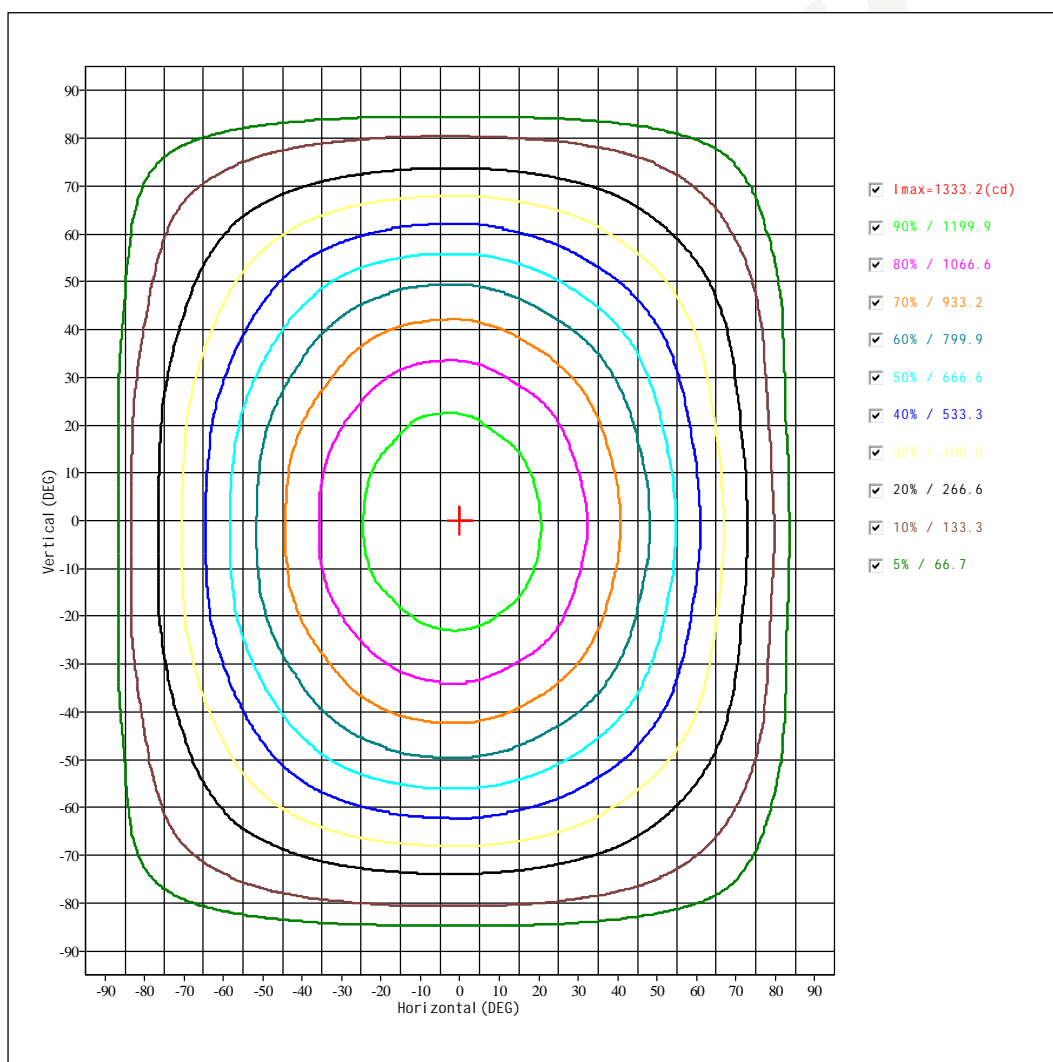
Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Size: 1195*295
Manufactory:	Sur(m ²): 0.29	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

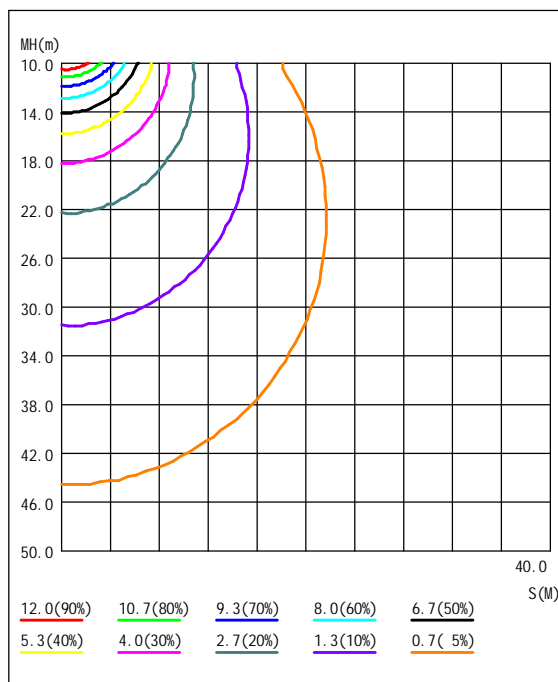
Humidity(%): 60

Date: 2019-12-06

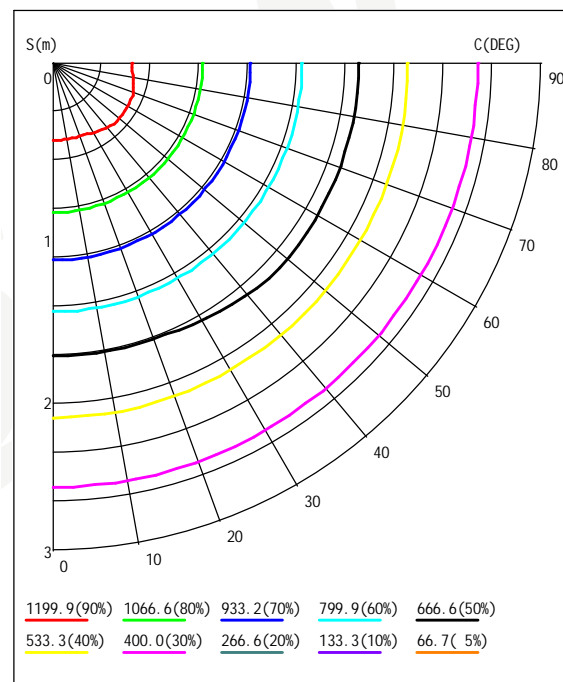
Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze: 1195*295
Manufactory:	Sur(m^2): 0.29	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

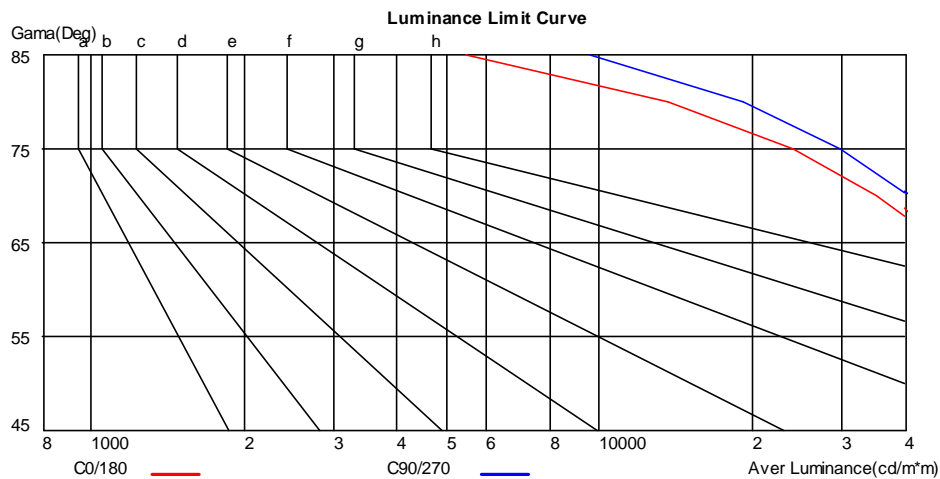
Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze: 1195*295
Manufactory:	Sur(m^2): 0.29	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m²)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	88896.0	79056.0	68576.0	57951.0	46786.0	35194.0	24057.0	13678.0	5452.0
C90	92447.0	83292.0	73714.0	63147.0	52070.0	41052.0	29931.0	19186.0	9609.0

Glare									
Glare	Class	Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

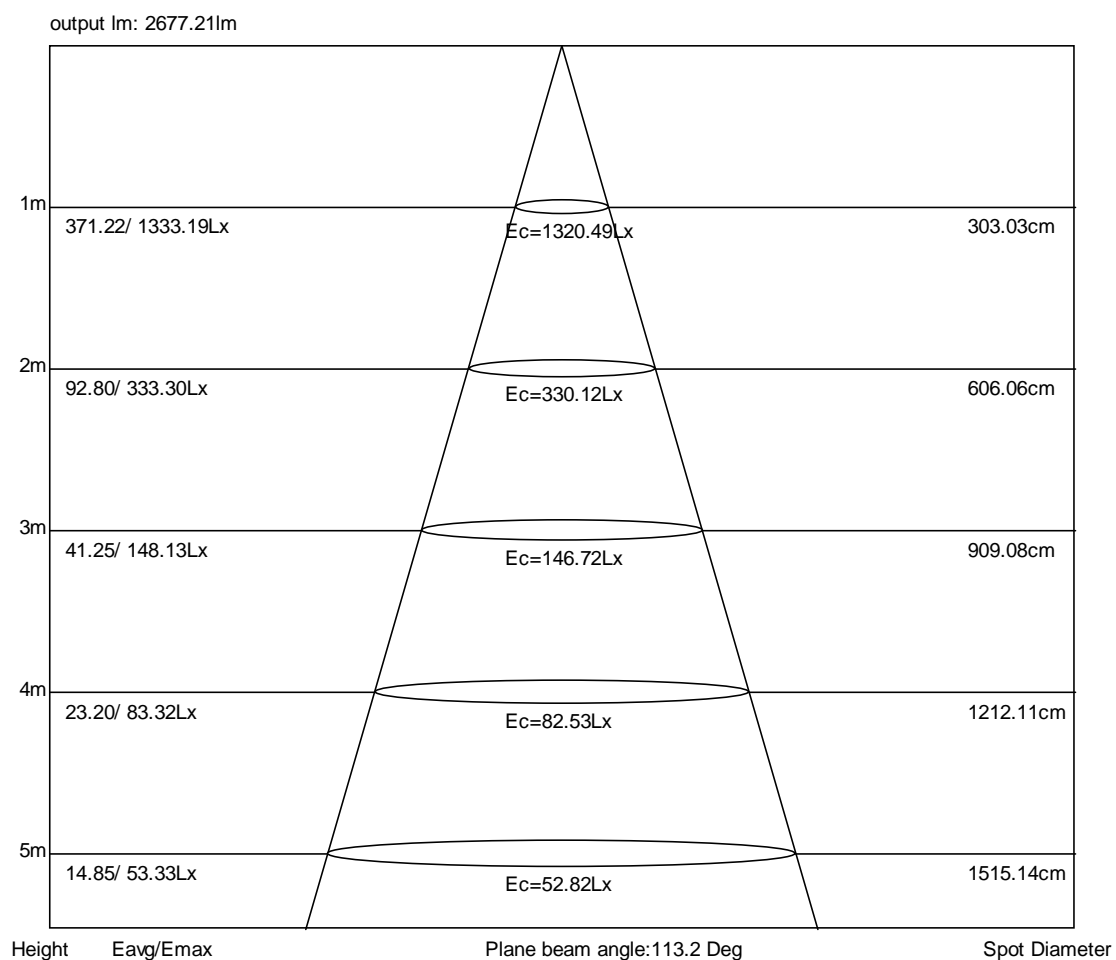
Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Size: 1195*295
Manufactory:	Sur(m ²): 0.29	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

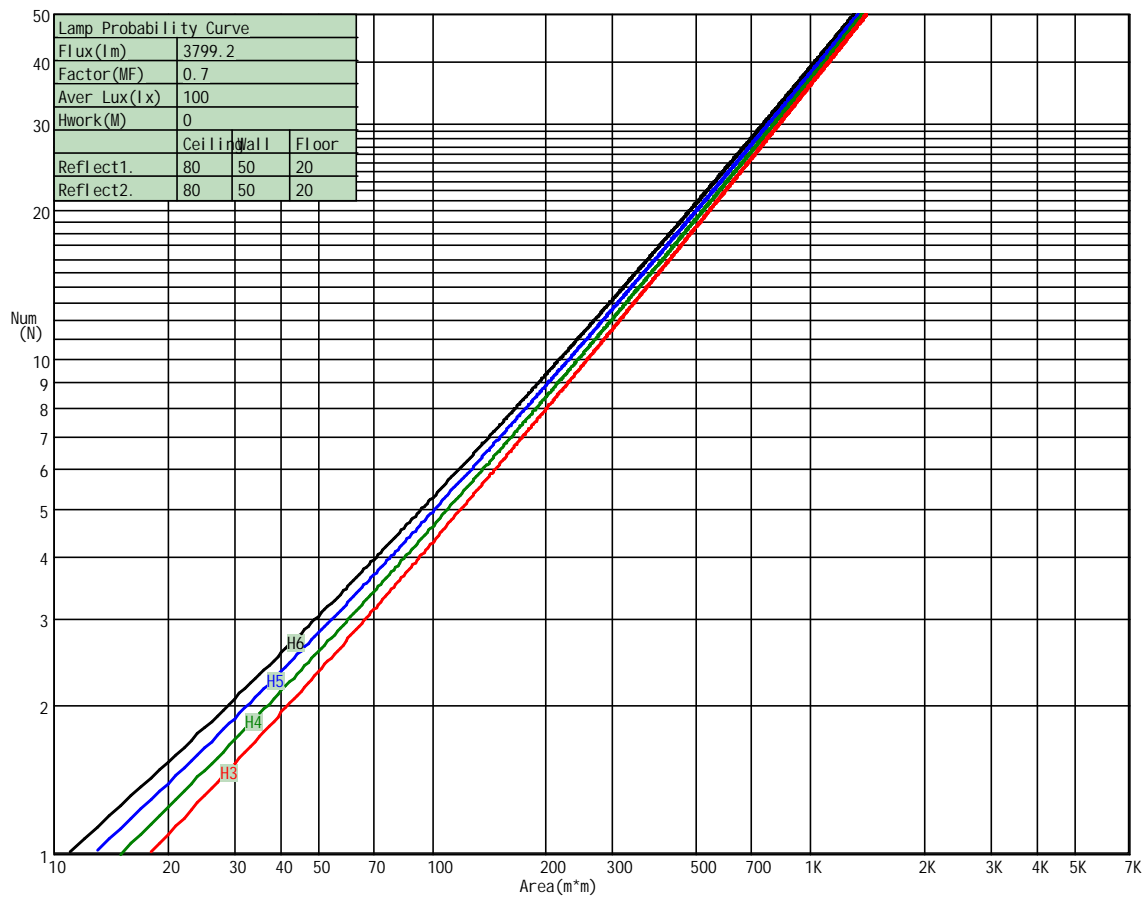
Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.2lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Size: 1195*295
Manufactory:	Sur(m ²): 0.29	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze: 1195*295
Manufactory:	Sur(m^2): 0.29	Protect Angle(Deg):

UF Table

Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5
Wall	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.60	53	38	29	51	37	28	48	36	28
0.80	57	41	30	55	40	29	51	38	29
1.00	60	43	31	58	42	31	53	39	29
1.25	63	45	32	60	43	31	55	41	30
1.50	65	47	32	62	45	32	56	41	30
2.00	68	49	33	64	46	32	57	42	30
2.50	69	49	33	65	47	32	57	42	30
3.00	70	50	33	66	48	32	58	43	29
4.00	71	51	34	67	48	32	58	43	29
5.00	72	52	34	67	49	32	59	43	29

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			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	1.04	0.99	0.96	1.01	0.98	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.9	0.88	0.86
2	0.9	0.83	0.78	0.88	0.82	0.77	0.85	0.79	0.75	0.82	0.77	0.73	0.79	0.75	0.72
3	0.79	0.71	0.64	0.78	0.7	0.64	0.75	0.68	0.63	0.72	0.66	0.62	0.69	0.65	0.6
4	0.7	0.61	0.54	0.69	0.6	0.54	0.66	0.59	0.53	0.64	0.58	0.53	0.62	0.56	0.52
5	0.63	0.53	0.47	0.61	0.53	0.47	0.59	0.52	0.46	0.57	0.51	0.45	0.55	0.5	0.45
6	0.56	0.47	0.41	0.55	0.47	0.41	0.54	0.46	0.4	0.52	0.45	0.4	0.5	0.44	0.4
7	0.51	0.42	0.36	0.5	0.42	0.36	0.49	0.41	0.36	0.47	0.4	0.35	0.46	0.4	0.35
8	0.47	0.38	0.32	0.46	0.38	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.42	0.36	0.31
9	0.43	0.34	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.4	0.33	0.28	0.39	0.33	0.28
10	0.39	0.31	0.26	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.3	0.26	0.36	0.3	0.26

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Si ze: 1195*295
Manufactory:	Sur(m^2): 0.29	Protect Angle(Deg):

Wall Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.31	0.18	0.06	0.3	0.17	0.06	0.29	0.17	0.05	0.28	0.16	0.05	0.27	0.16	0.05
2	0.29	0.16	0.05	0.29	0.16	0.05	0.28	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.05
3	0.27	0.14	0.04	0.27	0.14	0.04	0.26	0.14	0.04	0.25	0.13	0.04	0.24	0.13	0.04
4	0.25	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
5	0.23	0.12	0.03	0.23	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03
6	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03
7	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.02
9	0.17	0.08	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02
10	0.16	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02

Ceiling Cavity Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0.19	0.19	0.19	0.16	0.16	0.16	0.11	0.11	0.11	0.06	0.06	0.06	0.02	0.02	0.02
1	0.18	0.16	0.13	0.15	0.13	0.12	0.11	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.17	0.13	0.1	0.15	0.11	0.08	0.1	0.08	0.06	0.06	0.05	0.03	0.02	0.01	0.01
3	0.16	0.11	0.07	0.14	0.1	0.06	0.1	0.07	0.05	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.13	0.09	0.05	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.15	0.09	0.05	0.13	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.14	0.08	0.03	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.02	0.08	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.11	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.12	0.06	0.02	0.1	0.05	0.02	0.07	0.04	0.01	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Size: 1195*295
Manufactory:	Sur(m^2): 0.29	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	1321	1320	1320	1312	1329	1316	1311	1312	0-5	31.5	31.5
10	1303	1302	1306	1305	1303	1296	1290	1290	5-10	93.5	125
15	1271	1276	1278	1278	1273	1263	1260	1252	10-15	152	277
20	1236	1238	1245	1242	1233	1222	1219	1209	15-20	206	483
25	1184	1189	1201	1187	1187	1172	1164	1155	20-25	253	736
30	1119	1132	1148	1132	1128	1108	1102	1098	25-30	291	1027
35	1051	1063	1082	1069	1052	1037	1032	1027	30-35	320	1346
40	973	986	1005	992	973	956	954	942	35-40	337	1683
45	889	900	924	908	891	866	866	853	40-45	344	2027
50	791	808	833	812	796	773	768	758	45-50	339	2366
55	686	712	737	713	693	669	667	661	50-55	322	2688
60	580	606	631	616	581	565	559	555	55-60	295	2984
65	468	498	521	506	468	455	448	445	60-65	258	3241
70	352	386	411	394	357	345	337	332	65-70	212	3453
75	241	276	299	285	243	229	224	228	70-75	161	3615
80	137	172	192	181	141	136	127	128	75-80	108	3723
85	54.5	80.5	96.1	88.7	57.6	51.2	41.9	45.7	80-85	58.5	3781
90	2.72	13.3	23.4	18.3	2.04	1.91	1.82	1.93	85-90	18	3799
95									90-95		
100									95-100		
105									100-105		
110									105-110		
115									110-115		
120									115-120		
125									120-125		
130									125-130		
135									130-135		
140									135-140		
145									140-145		
150									145-150		
155									150-155		
160									155-160		
165									160-165		
170									165-170		
175									170-175		
180									175-180		

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight (kg):
Lamp ID:	Lamp Spec:	Shape Size: 1195*295
Manufactory:	Sur(m ²): 0.29	Protect Angle(Deg):

CD Table

Gm\C(Deg)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340
5.0	1321	1324	1321	1318	1319	1320	1317	1312	1313	1329	1318	1316	1311	1309	1309	1309	1311	1310
10.0	1303	1309	1304	1308	1308	1306	1306	1304	1299	1303	1296	1296	1294	1291	1287	1286	1289	1286
15.0	1271	1276	1276	1283	1282	1280	1280	1277	1274	1273	1270	1264	1261	1260	1256	1252	1252	1254
20.0	1236	1238	1238	1242	1245	1248	1248	1240	1235	1233	1225	1223	1214	1215	1214	1208	1208	1209
25.0	1184	1188	1189	1196	1201	1203	1199	1187	1188	1187	1168	1170	1163	1162	1159	1153	1155	1156
30.0	1119	1134	1133	1144	1149	1149	1144	1131	1129	1128	1108	1108	1097	1098	1096	1092	1097	1097
35.0	1051	1066	1064	1077	1083	1084	1080	1068	1063	1052	1040	1037	1029	1029	1024	1019	1025	1023
40.0	973	986	986	1002	1007	1007	1004	991	987	973	958	956	948	949	945	937	941	942
45.0	889	900	900	915	924	928	924	907	903	891	869	866	856	859	858	849	852	853
50.0	791	810	809	826	834	837	832	812	811	796	768	771	761	763	761	754	757	756
55.0	686	708	712	731	739	741	735	713	710	693	667	668	657	660	659	654	659	656
60.0	580	603	606	626	634	636	634	614	603	581	559	563	553	554	550	544	552	548
65.0	468	490	497	518	524	527	525	505	496	468	444	452	443	443	439	434	442	438
70.0	352	378	385	406	413	416	414	393	383	357	333	342	330	330	328	323	330	326
75.0	241	269	275	296	302	305	303	284	277	243	224	228	219	219	217	216	225	219
80.0	137	166	172	190	195	197	196	180	174	141	128	134	123	122	120	118	127	123
85.0	54.5	78.4	80.8	95.6	99.4	102	102	88.8	85.3	57.6	47.6	50.1	41.7	39.6	38.3	37.8	44.6	42.3
90.0	2.72	9.8	12.7	19.8	23.3	24.8	23.7	17.5	13.2	2.04	1.75	1.87	1.79	1.78	1.74	1.74	1.86	1.73
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
135.0																		
140.0																		
145.0																		
150.0																		
155.0																		
160.0																		
165.0																		
170.0																		
175.0																		
180.0																		

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

Remark:

Measured Para U: 230.3V I: 172.0mA P: 38.51W PF: 0.969 Test LM: 3799.21lm		
Lamp Name: 直下式1203	Lamp Type: LED LIGHT	Weight(kg):
Lamp ID:	Lamp Spec:	Shape Size: 1195*295
Manufactory:	Sur(m ²): 0.29	Protect Angle(Deg):

UGR

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	17.8	19.1	18.0	19.3	19.5	18.0	19.4	18.2	19.5	19.7
3H	18.6	19.8	18.8	20.1	20.3	18.9	20.2	19.2	20.4	20.6
4H	18.9	20.1	19.2	20.4	20.6	19.4	20.6	19.7	20.8	21.0
6H	19.2	20.3	19.5	20.5	20.8	19.7	20.9	20.0	21.1	21.4
8H	19.2	20.3	19.5	20.6	20.8	19.9	21.0	20.2	21.2	21.5
12H	19.2	20.3	19.6	20.6	20.8	20.0	21.0	20.3	21.3	21.6
4H 2H	18.1	19.2	18.4	19.5	19.7	18.3	19.4	18.6	19.6	19.9
3H	19.1	20.1	19.5	20.4	20.7	19.5	20.4	19.8	20.7	21.0
4H	19.6	20.5	20.0	20.8	21.2	20.1	20.9	20.4	21.3	21.6
6H	20.0	20.8	20.4	21.1	21.5	20.6	21.4	20.9	21.7	22.1
8H	20.1	20.9	20.5	21.2	21.6	20.8	21.5	21.2	21.9	22.2
12H	20.2	20.9	20.6	21.3	21.7	21.0	21.7	21.3	22.0	22.4
8H 4H	20.9	21.6	21.4	22.0	22.4	21.3	22.0	21.7	22.4	22.8
6H	21.5	22.1	21.9	22.5	22.9	22.0	22.6	22.5	23.0	23.5
8H	21.7	22.2	22.2	22.7	23.1	22.4	22.9	22.8	23.3	23.8
12H	21.9	22.3	22.3	22.8	23.3	22.7	23.1	23.1	23.6	24.0
12H 4H	20.9	21.5	21.4	21.9	22.4	21.3	21.9	21.8	22.3	22.8
6H	21.6	22.0	22.0	22.5	22.9	22.1	22.6	22.5	23.0	23.5
8H	21.8	22.2	22.3	22.7	23.2	22.5	22.9	22.9	23.3	23.8
Variations with the observer position at spacings:										
S = 1.0H	0.4/-0.5					0.3/-0.4				
1.5H	0.5/-0.5					0.4/-0.4				
2.0H	0.2/-0.4					0.1/-0.3				

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 26

Tester: 01

Distance(m): 8.97

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 360(Deg)

C interval (Deg): 22.5

Humidity(%): 60

Date: 2019-12-06

Remark: