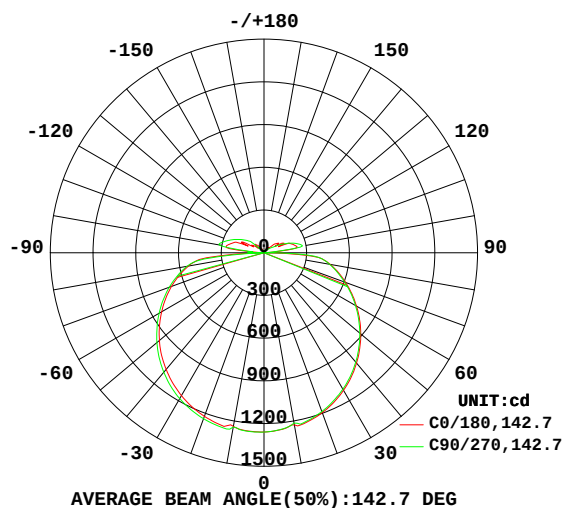


LUMINAIRE PHOTOMETRIC TEST REPORT

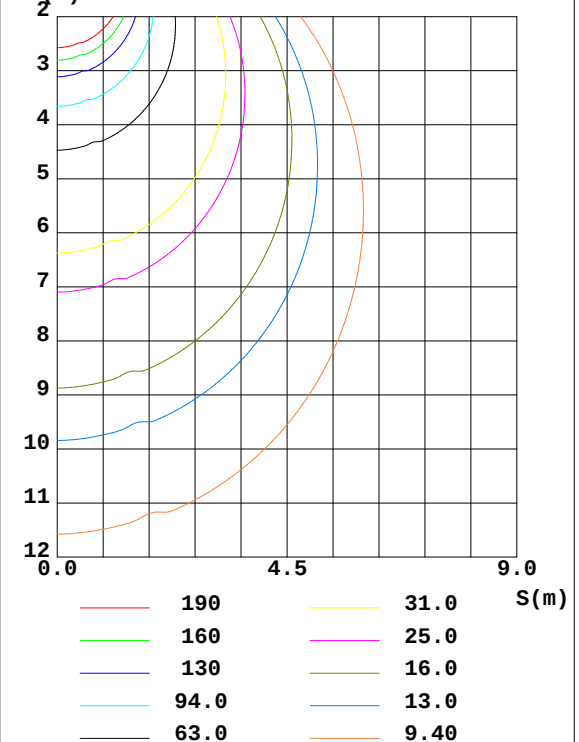
Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.52 lm/W			
MODEL	--	I _{max} (cd)	1267	S/MH(C0/180)	1.37
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.40
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	5633.1	η UP, DN(C0-180)	5.5, 42.3
NOMINAL FLUX(lm)	5633.1	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	7.3, 44.9
LAMPS INSIDE	1	η up(%)	12.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	--	η down(%)	87.2	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.6DEG
Operators: huangjunchang
Test Date: 2023-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 49%
Test Distance: 30.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

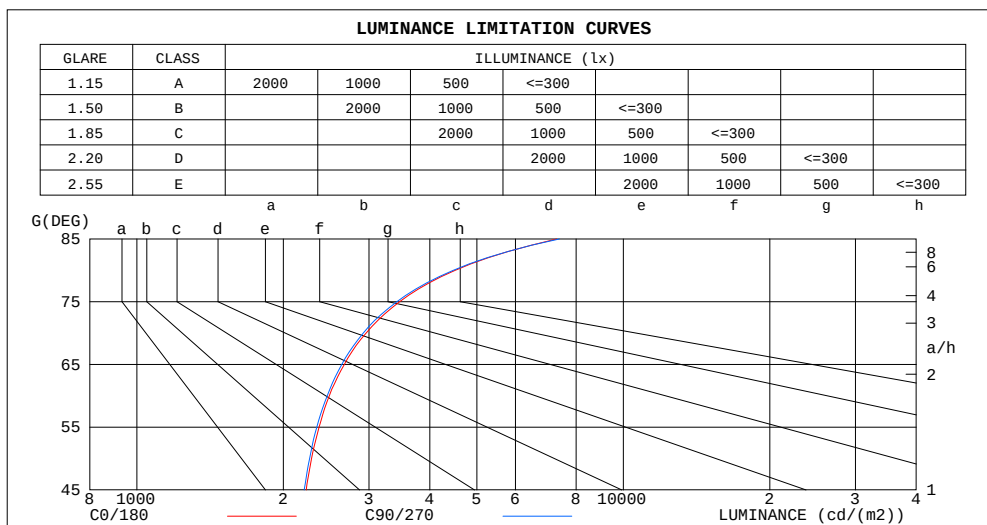
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1227	1211	1215	1228	1239	1237	1243	1230	0- 10	119.0	119.0	2.11, 2.11
20	1195	1181	1187	1206	1223	1241	1241	1217	10- 20	348.8	467.7	8.3, 8.3
30	1116	1098	1107	1133	1159	1186	1183	1148	20- 30	544.5	1012	18, 18
40	1012	991.4	1003	1033	1069	1102	1095	1052	30- 40	686.6	1699	30.2, 30.2
50	886.8	866.7	878.6	912.5	959.0	991.2	981.6	933.1	40- 50	762.9	2462	43.7, 43.7
60	750.3	731.7	742.6	778.3	830.3	863.3	850.5	798.8	50- 60	770.6	3232	57.4, 57.4
70	610.9	593.0	602.5	635.9	691.7	722.3	708.2	656.8	60- 70	716.9	3949	70.1, 70.1
80	472.7	460.7	468.4	495.8	539.1	564.1	548.7	505.0	70- 80	613.0	4562	81, 81
90	17.84	57.64	60.35	39.12	6.626	49.28	51.78	30.25	80- 90	350.4	4913	87.2, 87.2
100	236.9	237.7	274.8	262.4	268.6	306.5	319.9	264.7	90-100	128.4	5041	89.5, 89.5
110	193.6	170.1	198.8	182.3	217.3	262.4	258.5	231.7	100-110	262.7	5304	94.2, 94.2
120	87.68	100.8	91.80	105.5	84.93	189.1	186.9	161.1	110-120	167.5	5471	97.1, 97.1
130	93.46	44.45	41.98	57.52	54.64	89.56	121.6	85.50	120-130	88.69	5560	98.7, 98.7
140	39.16	48.08	17.79	33.92	67.82	46.69	44.37	36.65	130-140	41.57	5602	99.4, 99.4
150	33.39	30.81	28.19	37.64	25.49	26.47	16.91	11.07	140-150	20.51	5622	99.8, 99.8
160	7.161	8.838	10.98	18.56	11.01	7.233	7.633	4.497	150-160	8.183	5630	99.9, 99.9
170	4.210	9.881	12.70	12.20	4.887	4.793	4.593	4.399	160-170	2.229	5633	100, 100
180	3.423	4.297	4.578	4.275	3.427	4.696	4.593	4.399	170-180	0.5891	5633	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.6DEG
Operators: huangjunchang
Test Date: 2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 49%
Test Distance: 30.000m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7292	7383
80	4510	4469
75	3468	3423
70	2959	2919
65	2669	2637
60	2486	2461
55	2369	2343
50	2286	2265
45	2229	2207

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

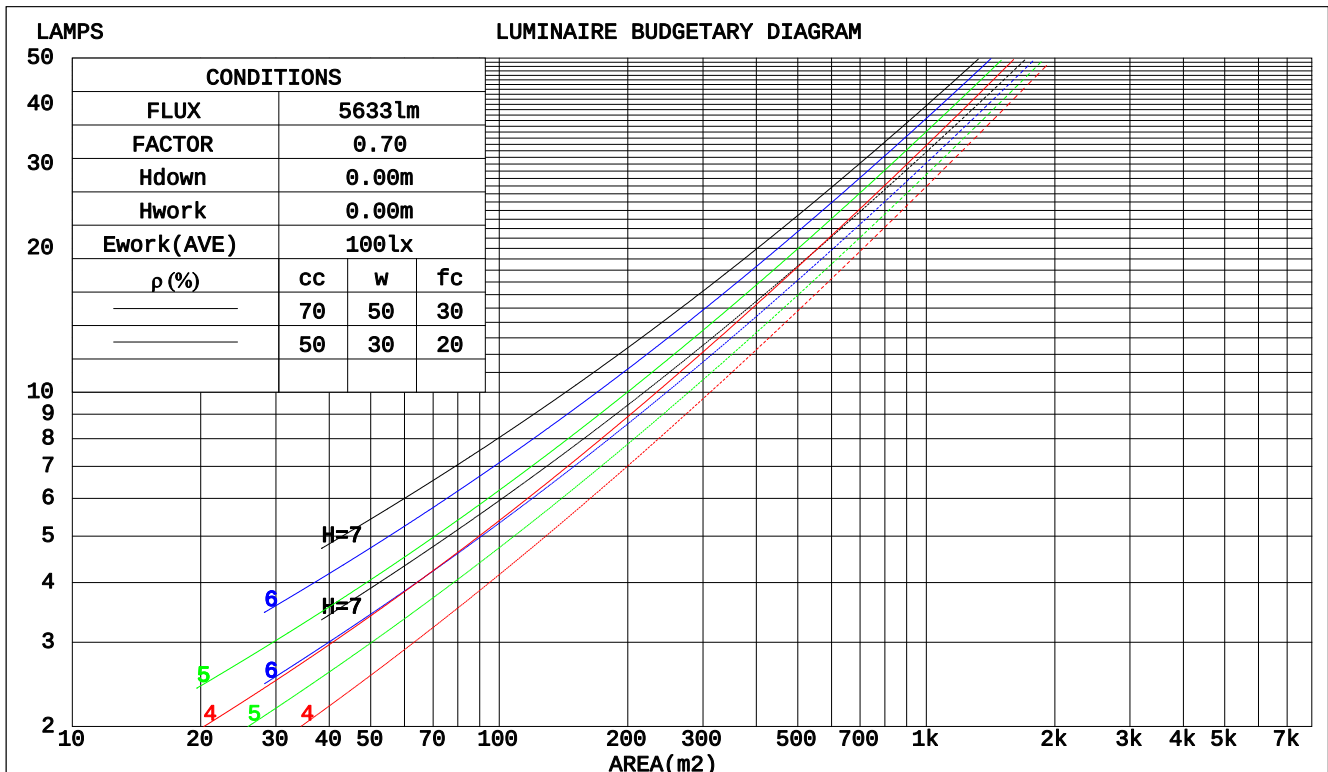
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MANtra	SUR.: 877*877mm	Shielding 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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.87
1.0	.97	.92	.87	.93	.89	.84	.87	.83	.79	.81	.77	.75	.75	.72	.70	.67
2.0	.83	.75	.68	.80	.73	.66	.74	.68	.63	.69	.64	.59	.64	.60	.56	.53
3.0	.72	.62	.55	.69	.61	.54	.64	.57	.51	.60	.54	.49	.55	.50	.46	.43
4.0	.63	.53	.46	.61	.52	.45	.56	.49	.43	.52	.46	.41	.49	.43	.39	.36
5.0	.56	.46	.39	.54	.45	.38	.50	.42	.36	.47	.40	.35	.44	.38	.33	.31
6.0	.50	.40	.33	.48	.39	.33	.45	.37	.31	.42	.35	.30	.39	.33	.29	.26
7.0	.45	.36	.29	.43	.35	.29	.41	.33	.28	.38	.31	.26	.36	.30	.25	.23
8.0	.41	.32	.26	.39	.31	.25	.37	.30	.24	.35	.28	.23	.33	.27	.23	.20
9.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.21	.30	.24	.20	.18
10.0	.34	.26	.21	.33	.26	.20	.31	.24	.20	.30	.23	.19	.28	.22	.18	.16



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.6DEG
Operators: huangjunchang
Test Date: 2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 49%
Test Distance: 30.000m [K=1.0000]
Remarks:



WEC AND CCEC

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm									
NAME: --				TYPE: 8645			WEIGHT: --		
SPEC.: --				DIM.: 898*898mm			SERIAL No.: 20231212003		
MFR.: MAntra				SUR.: 877*877mm			Shielding 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	.382	.217	.069	.370	.211	.067	.350	.201	.064	.330	.191	.061	.313	.181	.058	
2.0	.336	.184	.056	.326	.179	.055	.307	.171	.053	.290	.162	.051	.274	.155	.049	
3.0	.300	.160	.048	.291	.156	.047	.274	.148	.045	.258	.141	.043	.244	.135	.042	
4.0	.270	.140	.041	.262	.137	.041	.247	.131	.039	.233	.125	.038	.219	.119	.036	
5.0	.246	.125	.036	.238	.122	.036	.225	.117	.034	.212	.112	.033	.200	.107	.032	
6.0	.225	.113	.032	.219	.110	.032	.206	.106	.031	.194	.101	.030	.183	.096	.029	
7.0	.208	.103	.029	.202	.100	.029	.190	.096	.028	.179	.092	.027	.169	.088	.026	
8.0	.193	.094	.026	.187	.092	.026	.177	.088	.025	.167	.084	.024	.157	.081	.024	
9.0	.179	.087	.024	.174	.085	.024	.165	.081	.023	.156	.078	.022	.147	.075	.022	
10.0	.168	.080	.022	.163	.079	.022	.154	.076	.021	.146	.072	.021	.138	.069	.020	

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	.288	.288	.288	.246	.246	.246	.168	.168	.168	.096	.096	.096	.031	.031	.031	
1.0	.284	.254	.227	.243	.218	.195	.166	.150	.135	.096	.087	.079	.031	.028	.025	
2.0	.277	.231	.192	.237	.199	.166	.163	.137	.116	.094	.080	.068	.030	.026	.022	
3.0	.270	.214	.170	.231	.185	.147	.159	.128	.103	.092	.075	.061	.029	.024	.020	
4.0	.262	.201	.155	.225	.174	.135	.155	.121	.095	.089	.071	.056	.029	.023	.018	
5.0	.254	.191	.145	.218	.166	.126	.150	.116	.089	.087	.068	.053	.028	.022	.017	
6.0	.247	.183	.138	.212	.159	.120	.146	.111	.085	.085	.065	.051	.027	.021	.017	
7.0	.240	.177	.133	.206	.153	.116	.142	.107	.082	.083	.063	.049	.027	.021	.016	
8.0	.233	.171	.129	.200	.148	.112	.139	.104	.080	.081	.061	.047	.026	.020	.016	
9.0	.226	.166	.126	.195	.144	.110	.135	.101	.078	.079	.060	.046	.025	.020	.015	
10.0	.220	.162	.123	.190	.141	.108	.132	.099	.076	.077	.059	.046	.025	.019	.015	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:huangjunchang
 Test Date:2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity:49%
 Test Distance:30.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm										
NAME: --			TYPE: 8645			WEIGHT: --				
SPEC.: --			DIM.: 898*898mm			SERIAL No.: 20231212003				
MFR.: MAntra			SUR.: 877*877mm			Shielding 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	14.9	16.4	15.4	16.8	17.3	14.9	16.4	15.3	16.8	17.3
3H	17.3	18.6	17.7	19.1	19.6	17.2	18.6	17.7	19.0	19.5
4H	18.5	19.8	19.0	20.3	20.8	18.5	19.8	19.0	20.2	20.8
6H	19.9	21.1	20.4	21.6	22.1	19.8	21.0	20.3	21.5	22.1
8H	20.6	21.8	21.1	22.3	22.8	20.6	21.7	21.1	22.2	22.8
12H	21.4	22.6	22.0	23.1	23.7	21.4	22.5	21.9	23.0	23.6
4H 2H	15.7	17.0	16.2	17.5	18.0	15.7	17.0	16.2	17.4	18.0
3H	18.2	19.4	18.8	19.9	20.5	18.2	19.3	18.7	19.8	20.4
4H	19.7	20.7	20.2	21.2	21.8	19.6	20.6	20.2	21.2	21.8
6H	21.2	22.1	21.8	22.7	23.3	21.2	22.1	21.7	22.7	23.3
8H	22.0	22.9	22.6	23.5	24.1	22.0	22.9	22.6	23.4	24.1
12H	23.0	23.8	23.6	24.4	25.1	22.9	23.7	23.6	24.3	25.0
8H 4H	20.2	21.1	20.8	21.6	22.3	20.2	21.0	20.8	21.6	22.3
6H	22.0	22.7	22.6	23.4	24.1	22.0	22.7	22.6	23.3	24.0
8H	23.0	23.7	23.7	24.3	25.0	23.0	23.7	23.6	24.3	25.0
12H	24.2	24.8	24.8	25.4	26.2	24.2	24.7	24.8	25.4	26.1
12H 4H	20.3	21.1	20.9	21.7	22.4	20.3	21.1	20.9	21.7	22.4
6H	22.2	22.9	22.9	23.5	24.3	22.2	22.9	22.9	23.5	24.2
8H	23.4	23.9	24.0	24.6	25.3	23.3	23.9	24.0	24.6	25.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 5633 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.0$)
Area: 0.603766 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --

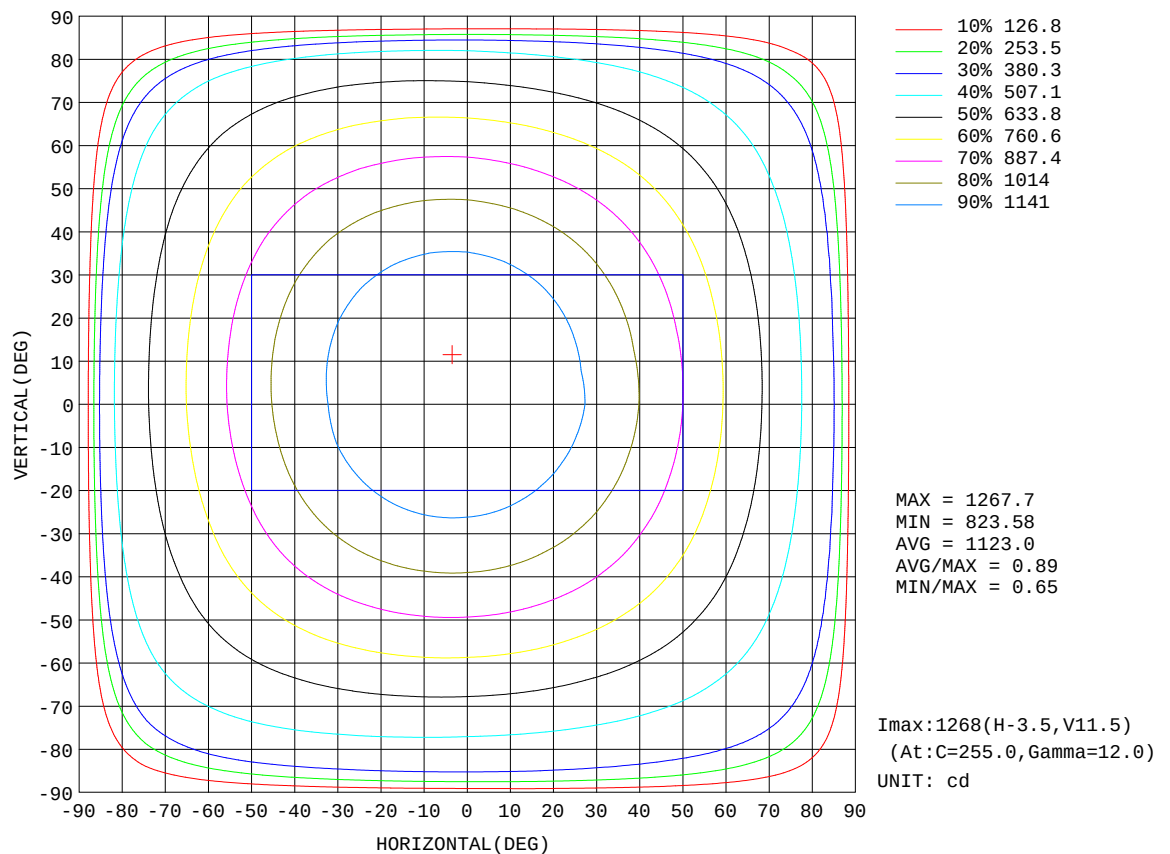
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	36	29	48	36	29	46	35	29	22
0.80	58	45	37	57	45	37	54	43	36	28
1.00	66	53	45	64	52	44	61	53	43	35
1.25	73	61	52	71	60	52	67	57	50	41
1.50	78	66	58	76	65	57	71	62	55	45
2.00	86	75	67	83	73	66	78	70	63	52
2.50	90	80	73	87	78	71	82	74	68	56
3.00	94	85	78	91	83	76	85	78	73	60
4.00	99	91	85	95	89	83	89	83	79	65
5.00	102	95	90	98	92	87	91	87	83	69
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:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --

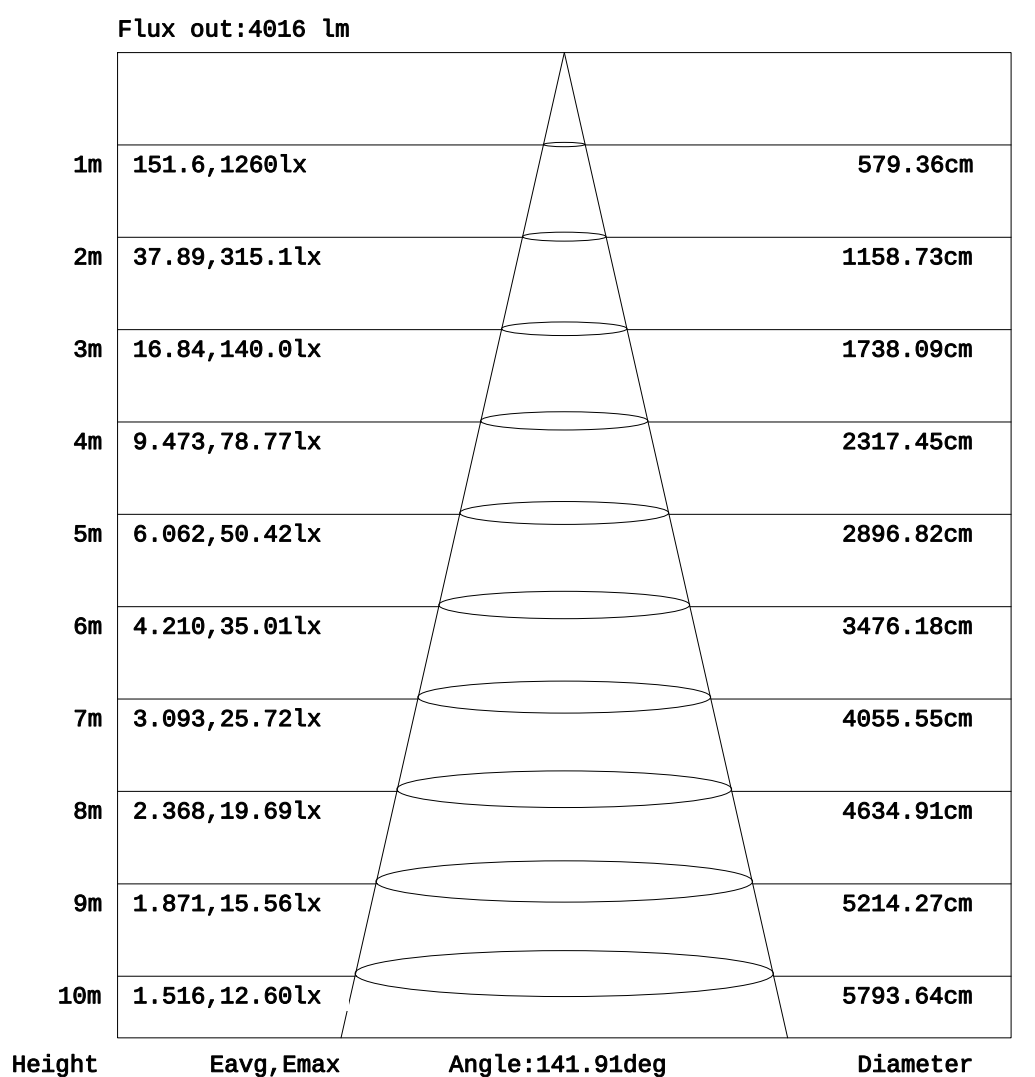


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --



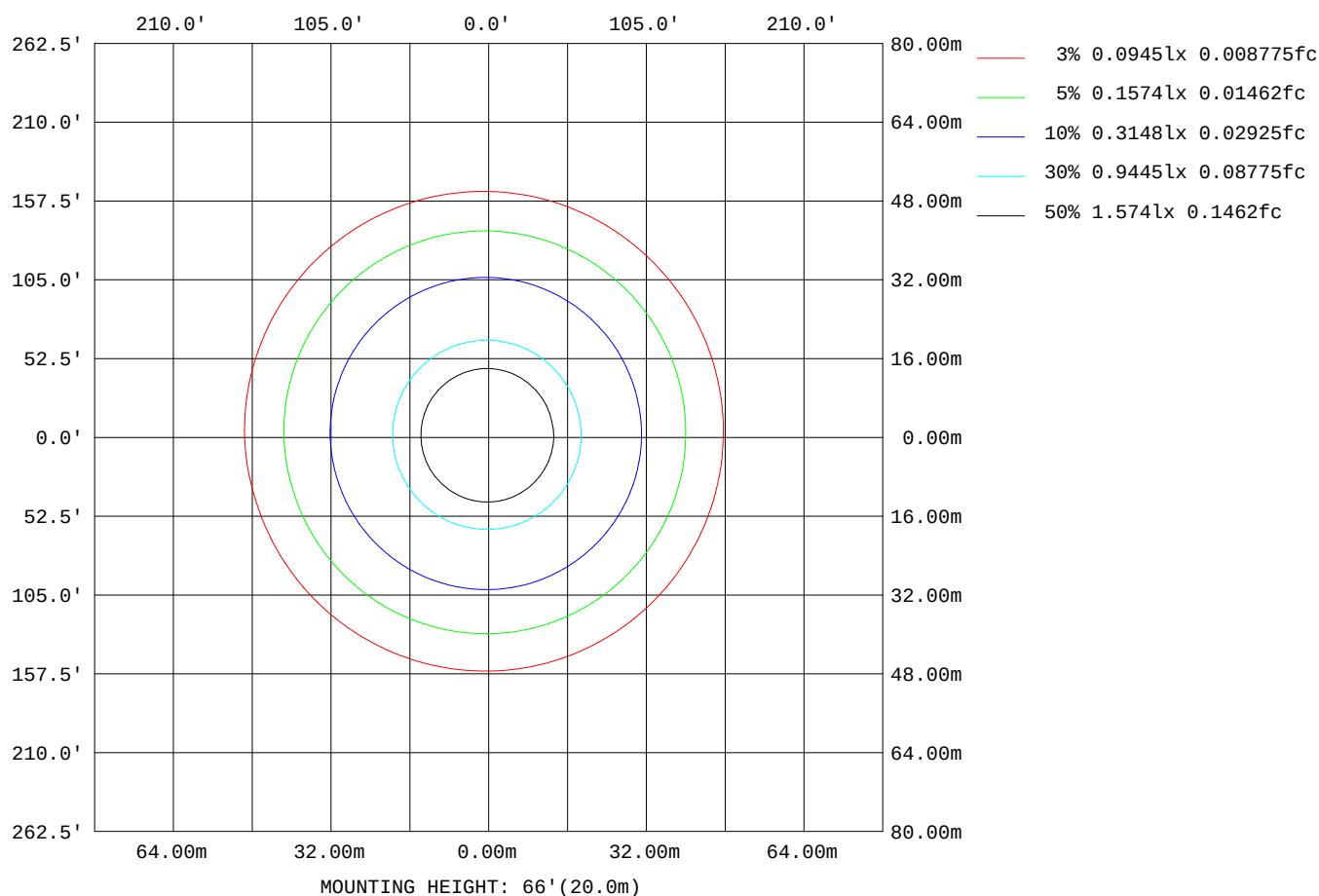
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

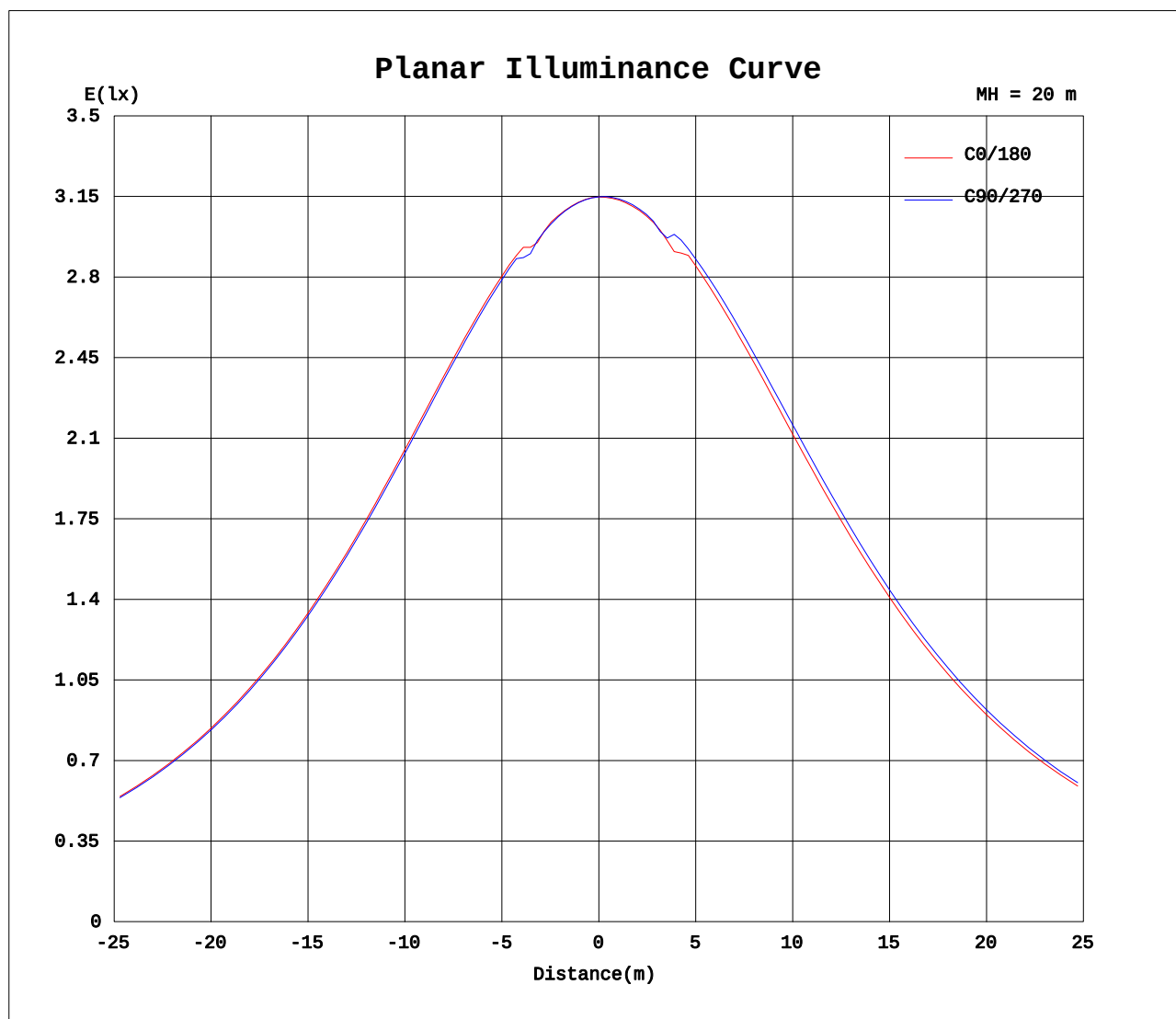
Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: huangjunchang
 Test Date: 2023-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 49%
 Test Distance: 30.000m [K=1.0000]
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm																		
NAME: --									TYPE: 8645					WEIGHT: --				
SPEC.: --									DIM.: 898*898mm					SERIAL No.: 20231212003				
MFR.: MANtra									SUR.: 877*877mm					Shielding 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	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259	1259
5	1249	1248	1247	1246	1247	1248	1248	1250	1253	1256	1257	1258	1257	1258	1259	1260	1260	1261	1260
10	1227	1218	1213	1211	1213	1214	1215	1217	1221	1228	1235	1245	1239	1237	1236	1237	1240	1243	1243
15	1224	1218	1214	1212	1212	1214	1216	1220	1226	1232	1237	1243	1244	1250	1256	1259	1261	1261	1258
20	1195	1188	1184	1181	1181	1184	1187	1192	1199	1206	1212	1221	1223	1230	1237	1241	1244	1244	1241
25	1160	1151	1146	1143	1144	1147	1150	1156	1164	1173	1181	1191	1194	1203	1212	1217	1221	1221	1216
30	1116	1107	1102	1098	1099	1103	1107	1114	1124	1133	1143	1155	1159	1170	1180	1186	1190	1189	1183
35	1068	1057	1052	1048	1049	1053	1058	1066	1075	1086	1098	1111	1118	1130	1141	1148	1151	1149	1143
40	1012	1001	994	991	992	997	1003	1011	1022	1033	1046	1060	1069	1083	1094	1102	1104	1102	1095
45	951	940	933	931	932	936	942	951	962	975	989	1004	1017	1031	1042	1050	1052	1049	1041
50	887	876	869	867	868	873	879	887	899	913	927	943	959	973	985	991	993	990	982
55	820	810	802	800	801	806	811	820	833	847	862	878	896	910	922	928	931	927	917
60	750	740	734	732	733	737	743	751	764	778	794	810	830	845	857	863	865	860	851
65	681	671	664	662	663	667	673	682	694	708	723	740	762	777	788	794	795	791	781
70	611	601	595	593	594	598	602	611	623	636	651	668	692	706	717	722	723	718	708
75	542	533	528	527	527	531	535	542	553	565	580	596	617	630	640	646	646	641	630
80	473	466	461	461	462	465	468	475	485	496	509	524	539	551	560	564	563	557	549
85	384	381	379	379	383	387	388	390	392	398	408	420	404	393	380	363	345	332	328
90	17.8	32.6	45.7	57.6	63.2	64.8	60.4	55.5	47.5	39.1	26.2	11.4	6.63	17.1	33.7	49.3	57.6	57.1	51.8
95	50.2	45.7	46.3	34.9	24.7	11.7	9.04	17.2	37.0	59.3	79.0	83.3	108	131	137	128	110	91.1	79.6
100	237	221	216	238	251	269	275	277	272	262	244	251	269	293	289	307	309	320	320
105	217	202	199	221	237	243	246	248	248	237	222	229	245	267	270	296	302	302	296
110	194	182	164	170	185	193	199	199	195	182	182	207	217	232	239	262	266	263	258
115	157	135	125	126	131	140	145	145	140	136	134	153	177	168	196	226	229	227	222
120	87.7	98.5	89.4	101	91.8	90.4	91.8	95.7	98.6	106	83.4	86.0	84.9	117	147	189	192	191	187
125	117	114	99.5	69.6	65.2	60.5	64.0	69.6	73.5	63.6	66.5	79.0	86.5	92.4	119	107	158	157	154
130	93.5	85.3	64.7	44.4	38.2	34.2	42.0	40.0	42.0	57.5	68.3	64.6	54.6	55.3	65.4	89.6	69.1	103	122
135	51.8	48.5	36.8	58.8	37.8	31.0	23.9	28.6	33.8	62.9	59.4	81.4	84.6	64.8	62.0	70.8	75.3	63.6	48.9
140	39.2	37.8	40.3	48.1	50.7	28.7	17.8	24.4	35.6	33.9	58.2	67.4	67.8	58.7	55.6	46.7	36.5	41.3	44.4
145	42.5	41.5	42.1	23.8	25.3	19.5	26.5	34.0	44.3	24.5	38.2	42.3	42.8	37.6	31.6	21.9	20.6	23.5	26.1
150	33.4	33.5	34.5	30.8	14.5	21.4	28.2	23.7	23.2	37.6	35.2	27.0	25.5	28.3	28.3	26.5	20.5	15.9	16.9
155	16.9	16.8	17.7	19.5	18.5	11.5	10.3	20.9	27.8	25.9	23.5	25.7	20.8	20.2	18.0	19.0	15.2	12.0	12.5
160	7.16	8.64	8.60	8.84	8.92	7.35	11.0	14.4	17.8	18.6	17.1	15.5	11.0	11.5	9.32	7.23	5.78	6.56	7.63
165	4.99	6.27	7.33	9.96	12.7	15.7	16.6	16.6	15.8	13.7	10.4	9.09	6.75	6.36	5.97	5.19	4.89	4.89	4.59
170	4.21	5.29	7.53	9.88	11.1	12.4	12.7	13.0	12.7	12.2	9.98	8.78	4.89	4.80	4.22	4.79	4.49	4.40	4.59
175	4.21	4.60	6.56	7.35	7.62	8.22	8.09	8.29	8.10	7.92	7.23	6.53	3.72	3.82	3.42	4.40	4.21	4.30	4.59
180	3.42	2.73	3.90	4.30	3.99	4.04	4.58	4.60	4.20	4.27	4.57	4.28	3.43	3.82	3.42	4.70	4.60	4.40	4.59

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.04V I:0.3304A P:71.740W PF:0.9868 Freq:50.00Hz Lamp Flux:5633.1x1 lm		
NAME: --	TYPE: 8645	WEIGHT: --
SPEC.: --	DIM.: 898*898mm	SERIAL No.: 20231212003
MFR.: MAntra	SUR.: 877*877mm	Shielding Angle: --

Table--2

UNIT: cd

C(°) γ (°)	285	300	315	330	345													
0	1259	1259	1259	1259	1259													
5	1258	1257	1256	1253	1251													
10	1241	1236	1230	1222	1223													
15	1253	1248	1240	1232	1225													
20	1234	1226	1217	1206	1196													
25	1208	1198	1186	1173	1162													
30	1174	1162	1148	1132	1119													
35	1132	1119	1103	1085	1070													
40	1083	1068	1052	1033	1018													
45	1029	1013	995	977	960													
50	967	951	933	915	898													
55	903	885	867	848	831													
60	836	818	799	779	763													
65	766	748	729	710	695													
70	693	676	657	639	625													
75	616	599	582	565	553													
80	535	521	505	490	479													
85	328	336	346	357	369													
90	45.9	42.0	30.2	19.1	10.6													
95	82.9	91.9	101	103	89.0													
100	303	277	265	245	249													
105	288	276	261	233	230													
110	252	242	232	205	200													
115	216	207	197	165	147													
120	180	172	161	129	109													
125	147	136	94.4	101	105													
130	92.2	60.2	85.5	71.3	83.7													
135	57.1	55.4	42.0	54.6	51.8													
140	51.1	38.6	36.7	41.7	37.9													
145	20.9	21.3	26.6	26.7	33.9													
150	15.7	12.7	11.1	21.7	26.6													
155	13.2	12.3	11.0	9.16	11.3													
160	8.33	5.97	4.50	5.26	7.23													
165	4.59	4.89	4.40	4.59	4.40													
170	4.59	4.89	4.40	4.59	4.40													
175	4.69	4.89	4.50	4.59	4.40													
180	4.59	4.59	4.40	4.49	4.30													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:huangjunchang
Test Date:2023-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:49%
Test Distance:30.000m [K=1.0000]
Remarks: