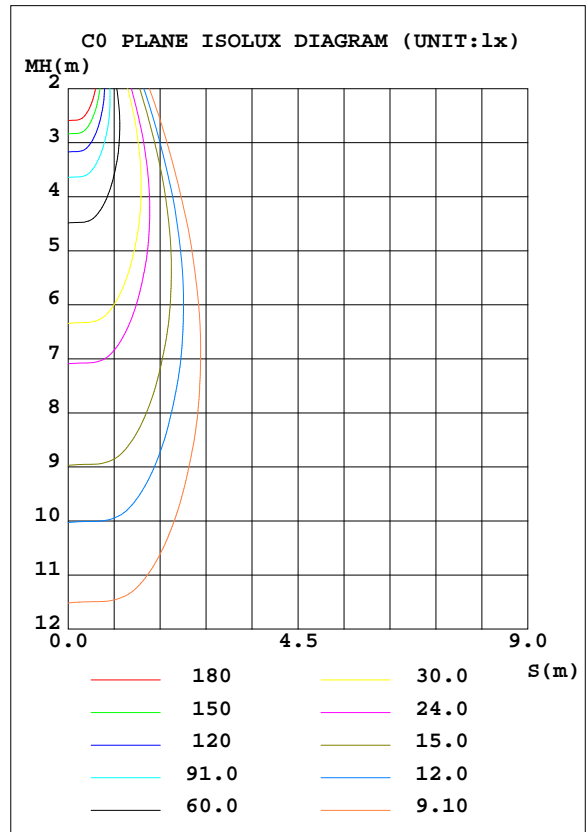
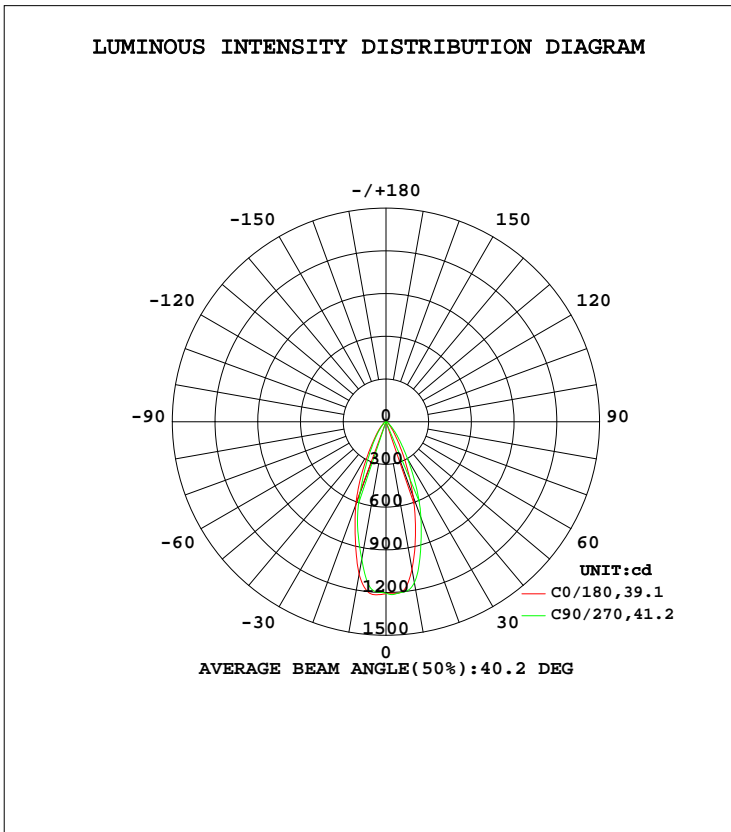


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.985V I:0.9208A P:7.4032W PF:0.6709 Freq:50.00Hz Lamp Flux:694.292x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bsA-M650ST	DIM.:	SERIAL No.: A2017008F001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.78 lm/W			
MODEL		I _{max} (cd)	1225	S/MH(C0/180)	0.65
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)		TOTAL FLUX(lm)	694.29	η UP, DN(C0-180)	0.1,55.3
NOMINAL FLUX(lm)	694.292	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,44.5
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)		η down(%)	99.8	CIBSE SHR MAX	0.65



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: LiHua

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1053	1105	1147	1174	1087	1037	982.0	958.5	0- 10	110.3	110.3	15.9,15.9
20	555.5	664.5	718.5	708.6	620.0	580.6	536.3	482.7	10- 20	231.2	341.5	49.2,49.2
30	191.1	265.0	311.0	295.3	232.5	208.6	189.2	167.0	20- 30	182.1	523.6	75.4,75.4
40	64.58	97.94	110.2	102.8	85.57	74.55	67.57	55.28	30- 40	89.15	612.8	88.3,88.3
50	26.86	32.67	39.43	36.12	34.13	27.81	27.15	23.85	40- 50	39.15	651.9	93.9,93.9
60	15.42	17.53	18.58	19.08	17.82	16.11	15.46	13.93	50- 60	20.46	672.4	96.8,96.8
70	8.401	9.477	9.810	9.934	8.995	8.261	7.994	7.648	60- 70	12.37	684.8	98.6,98.6
80	3.501	4.240	4.600	4.682	3.810	3.260	3.151	2.783	70- 80	6.536	691.3	99.6,99.6
90	0.0164	0.2539	0.4794	0.6188	0.1381	0.0098	0.0087	0.0091	80- 90	1.863	693.2	99.8,99.8
100	0.0187	0.0175	0.0168	0.0160	0.0111	0.0130	0.0140	0.0147	90-100	0.0382	693.2	99.8,99.8
110	0.0325	0.0293	0.0272	0.0243	0.0205	0.0240	0.0272	0.0281	100-110	0.0207	693.2	99.8,99.8
120	0.1065	0.0944	0.0872	0.0775	0.0449	0.0516	0.0575	0.0592	110-120	0.0438	693.3	99.9,99.9
130	0.2737	0.2487	0.2337	0.2159	0.0949	0.1053	0.1106	0.1134	120-130	0.1047	693.4	99.9,99.9
140	0.5153	0.4812	0.4617	0.4415	0.1638	0.1735	0.1775	0.1793	130-140	0.1878	693.6	99.9,99.9
150	0.7574	0.7280	0.7110	0.6953	0.2331	0.2427	0.2417	0.2416	140-150	0.2505	693.8	99.9,99.9
160	0.8814	0.8730	0.8698	0.8578	0.3033	0.3133	0.3080	0.3026	150-160	0.2471	694.1	100,100
170	0.7845	0.8113	0.8192	0.8156	0.3547	0.3606	0.3547	0.3467	160-170	0.1713	694.2	100,100
180	0.5113	0.5514	0.5609	0.5608	0.5122	0.5389	0.5604	0.5732	170-180	0.0540	694.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 636.25 lm

%lum = 91.6%
 %lamp = 91.6%

Conical surface Flux(120deg): 672.41 lm

%lum = 96.8%
 %lamp = 96.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

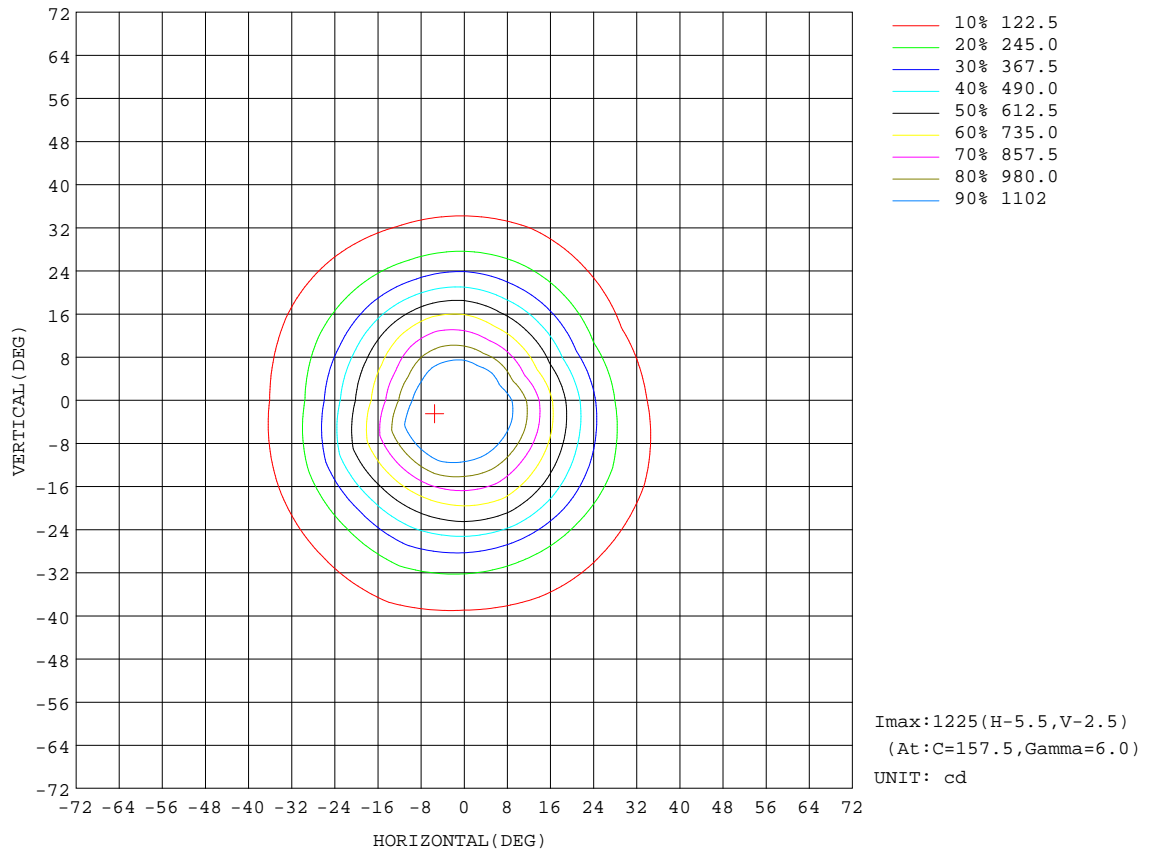
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: LiHua

ISOCANDELA DIAGRAM

Test:U:11.985V I:0.9208A P:7.4032W PF:0.6709 Freq:50.00Hz Lamp Flux:694.292x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bsA-M650ST	DIM.:	SERIAL No.: A2017008F001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

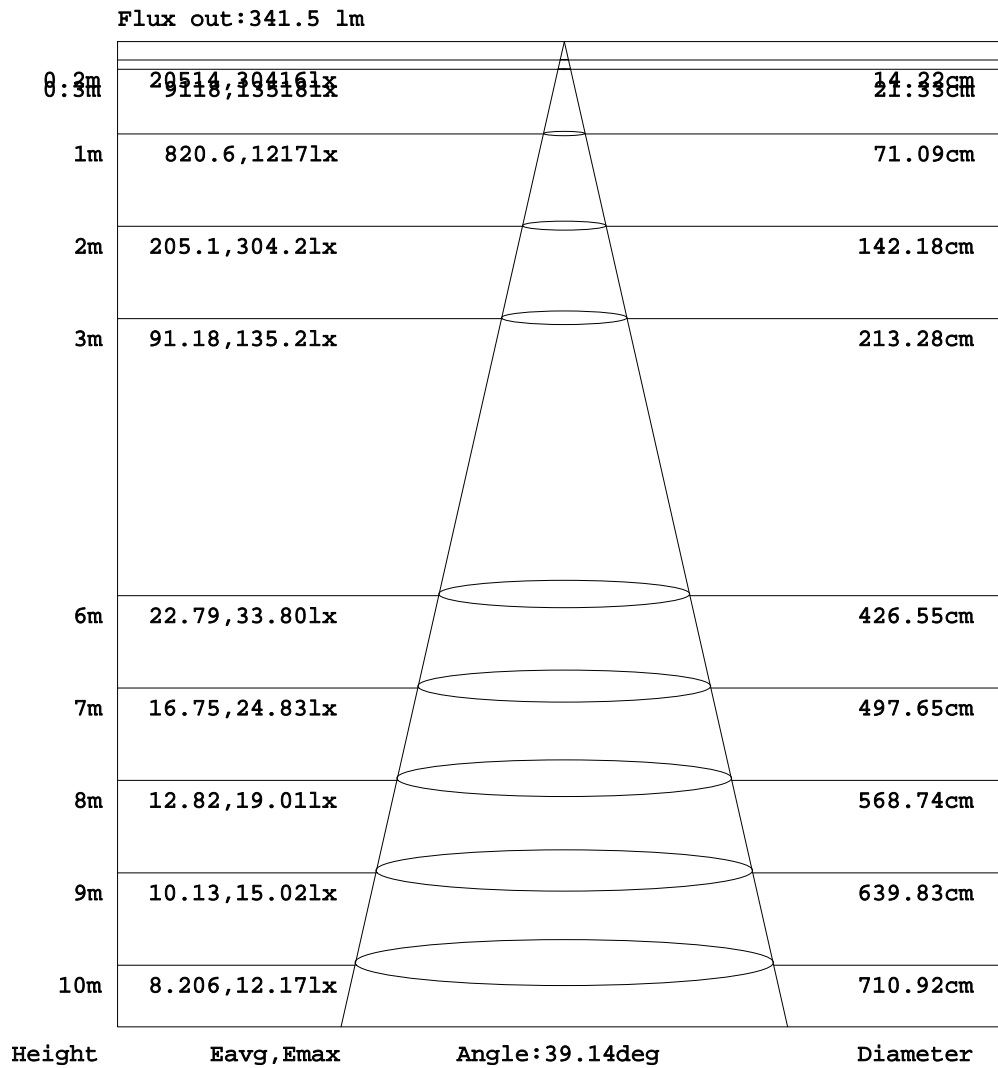
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: LiHua

AAI Figure

Test:U:11.985V I:0.9208A P:7.4032W PF:0.6709 Freq:50.00Hz Lamp Flux:694.292x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bsA-M650ST	DIM.:	SERIAL No.: A2017008F001
MFR.:	SUR.:	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: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

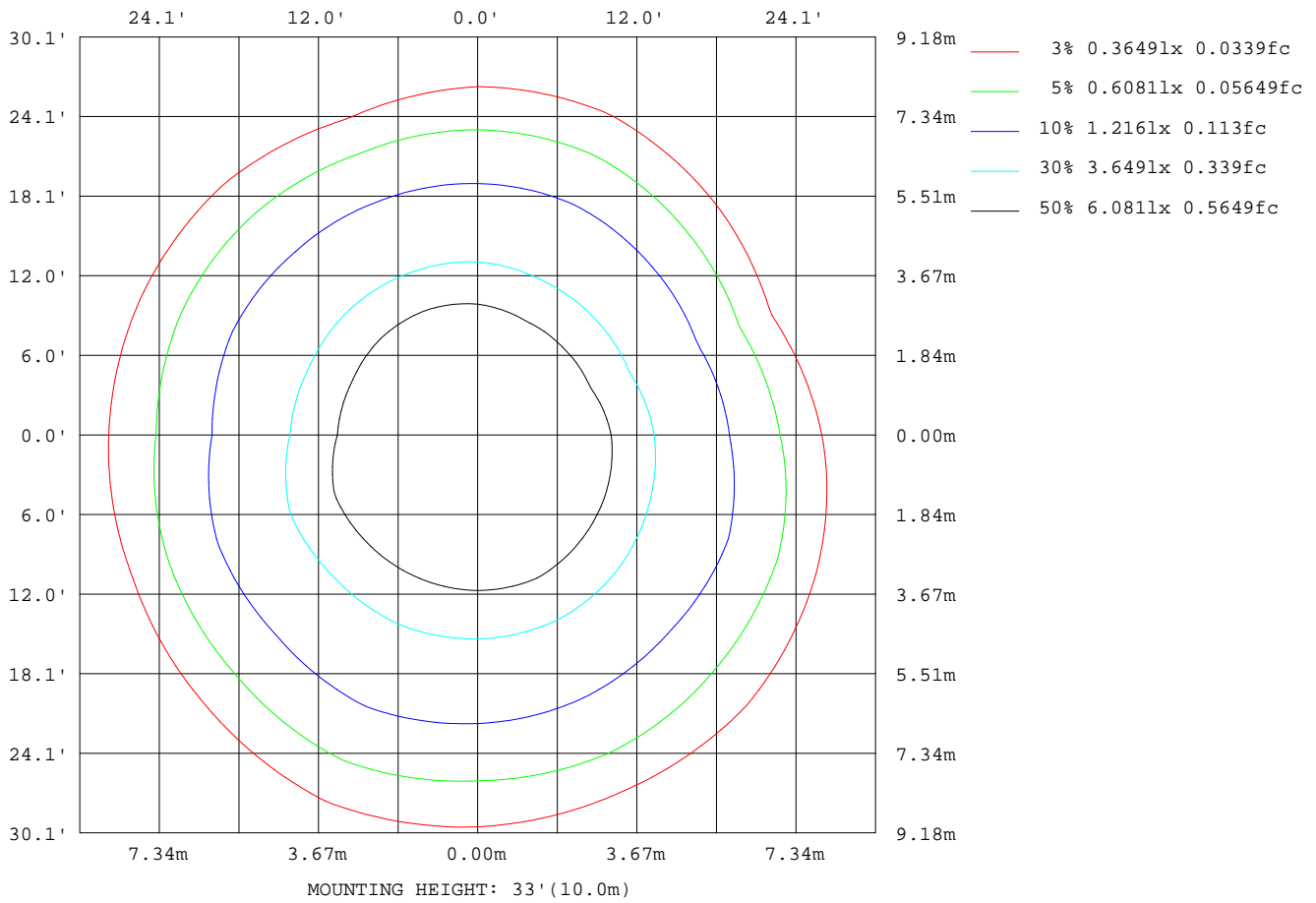
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: LiHua

ISOLUX DIAGRAM

Test:U:11.985V I:0.9208A P:7.4032W PF:0.6709 Freq:50.00Hz Lamp Flux:694.292x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bsA-M650ST	DIM.:	SERIAL No.: A2017008F001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: LSC
 Test Date: 2020-09-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.429
 Humidity: 48%
 Test Distance: 1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: LiHua

LED Avg.L Report

Test:U:11.985V I:0.9208A P:7.4032W PF:0.6709 Freq:50.00Hz Lamp Flux:694.292x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bSA-M650ST	DIM.:	SERIAL No.: A2017008F001
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	96
L_0~180(75)av	76
L_0~180(85)av	57
L_90~270(65)av	96
L_90~270(75)av	80
L_90~270(85)av	62
L_45(65)av	96
L_45(75)av	78
L_45(85)av	60

Standard: GB/T 29293-2012

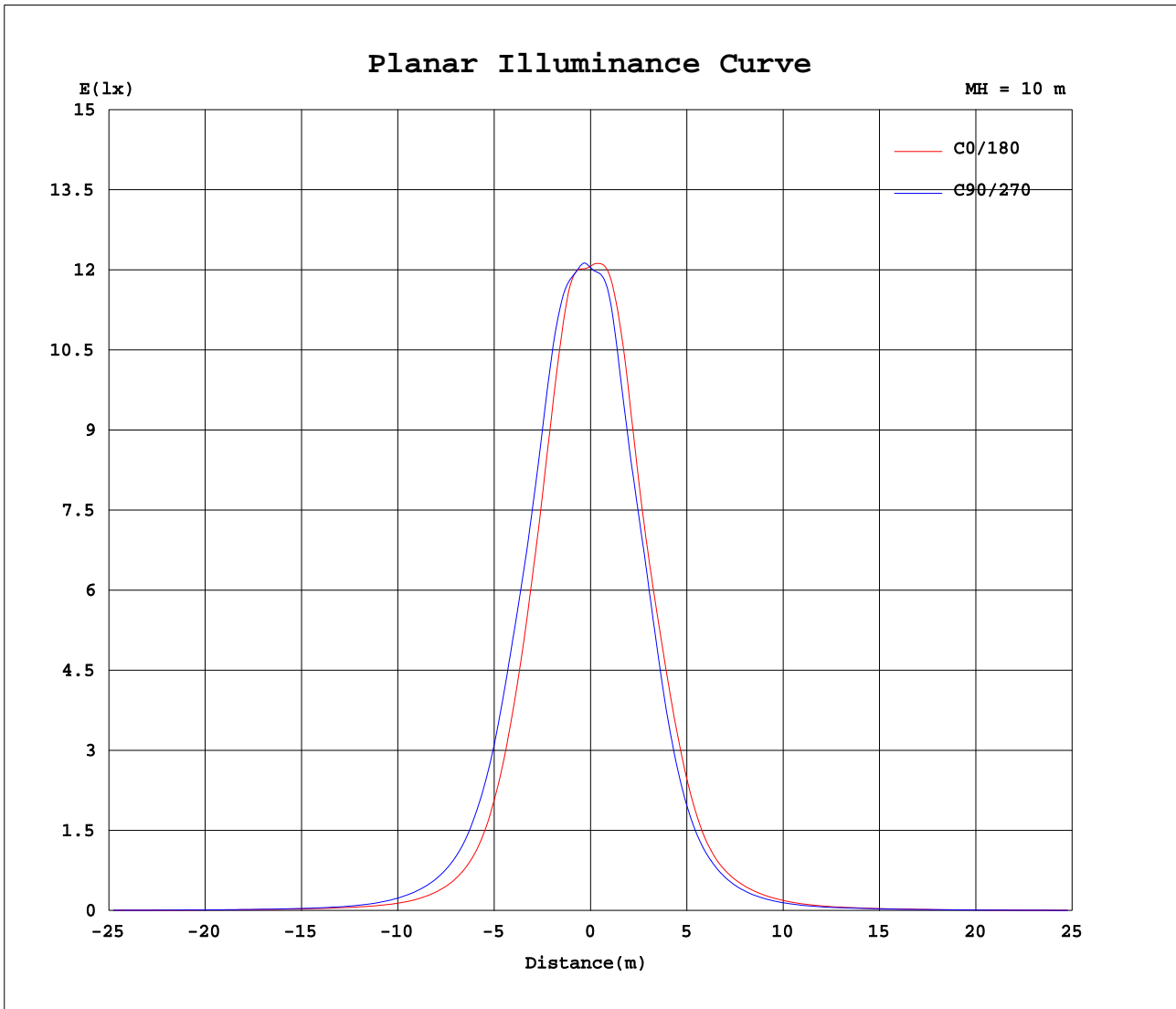
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: LiHua

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.7DEG
Operators: LSC
Test Date: 2020-09-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.429
Humidity: 48%
Test Distance: 1.533m [K=1.0000]
Remarks:

Checker:

Assessor: LiHua

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.985V I:0.9208A P:7.4032W PF:0.6709 Freq:50.00Hz Lamp Flux:694.292x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bsA-M650ST	DIM.:	SERIAL No.: A2017008F001
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1207	1208	1207	1206	1205	1202	1203	1205	1207	1208	1207	1206	1205	1202	1203	1205			
5	1203	1205	1204	1202	1205	1216	1221	1223	1214	1204	1199	1187	1179	1167	1176	1178			
10	1053	1086	1105	1127	1147	1178	1174	1168	1087	1043	1037	1013	982	950	959	961			
15	800	844	879	922	939	961	958	958	836	805	815	806	772	725	716	718			
20	555	609	665	715	719	712	709	714	620	592	581	560	536	499	483	480			
25	342	395	447	487	502	507	490	496	406	370	356	333	326	307	293	280			
30	191	246	265	289	311	326	295	294	232	228	209	195	189	185	167	155			
35	109	146	154	176	183	196	172	165	136	137	125	113	113	110	94.7	81.5			
40	64.6	83.1	97.9	106	110	118	103	91.6	85.6	80.8	74.5	59.6	67.6	66.5	55.3	43.6			
45	39.2	53.6	57.6	55.8	66.4	70.6	58.6	50.3	53.7	51.0	42.1	34.4	41.8	41.2	33.6	28.8			
50	26.9	35.5	32.7	31.6	39.4	44.0	36.1	31.9	34.1	33.6	27.8	25.0	27.1	26.8	23.9	22.4			
55	20.4	24.3	22.8	22.3	25.7	28.3	25.5	24.2	24.2	23.9	21.2	20.1	20.5	19.6	18.2	18.0			
60	15.4	17.5	17.5	17.4	18.6	19.9	19.1	19.0	17.8	17.2	16.1	15.3	15.5	14.6	13.9	13.9			
65	11.6	12.8	13.3	13.3	13.7	14.4	14.3	14.4	13.2	12.4	11.5	11.1	10.9	10.5	10.3	10.2			
70	8.40	9.04	9.48	9.69	9.81	10.2	9.93	9.96	8.99	8.44	8.26	8.03	7.99	7.66	7.65	7.48			
75	5.87	6.38	6.79	7.00	7.07	7.31	7.15	7.13	6.18	5.72	5.62	5.47	5.52	5.16	5.18	4.99			
80	3.50	3.97	4.24	4.46	4.60	4.75	4.68	4.63	3.81	3.40	3.26	3.17	3.15	2.83	2.78	2.74			
85	1.32	1.76	1.98	2.23	2.36	2.56	2.49	2.47	1.71	1.33	1.13	1.00	0.93	0.72	0.74	0.66			
90	0.02	0.09	0.25	0.39	0.48	0.65	0.62	0.65	0.14	0.03	0.01	0.01	0.01	0.01	0.01	0.01			
95	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
100	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
105	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
110	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03			
115	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04			
120	0.11	0.10	0.09	0.09	0.09	0.08	0.08	0.07	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06			
125	0.18	0.17	0.16	0.16	0.15	0.14	0.14	0.13	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09			
130	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.12			
135	0.39	0.37	0.36	0.35	0.34	0.32	0.32	0.31	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15			
140	0.52	0.49	0.48	0.47	0.46	0.44	0.44	0.43	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18			
145	0.65	0.62	0.61	0.60	0.59	0.57	0.57	0.56	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21			
150	0.76	0.74	0.73	0.72	0.71	0.69	0.70	0.69	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24			
155	0.83	0.82	0.81	0.81	0.80	0.79	0.79	0.78	0.27	0.27	0.28	0.28	0.27	0.28	0.27	0.27			
160	0.88	0.88	0.87	0.87	0.87	0.86	0.86	0.85	0.30	0.31	0.31	0.31	0.31	0.31	0.30	0.30			
165	0.89	0.90	0.90	0.91	0.91	0.90	0.90	0.89	0.33	0.34	0.34	0.34	0.34	0.33	0.33	0.33			
170	0.78	0.80	0.81	0.82	0.82	0.82	0.82	0.81	0.35	0.36	0.36	0.36	0.35	0.35	0.35	0.34			
175	0.67	0.70	0.71	0.72	0.72	0.73	0.72	0.72	0.38	0.39	0.40	0.40	0.40	0.41	0.40	0.41			
180	0.51	0.54	0.55	0.56	0.56	0.57	0.56	0.57	0.51	0.53	0.54	0.55	0.56	0.58	0.57	0.58			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.429
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 Remarks:

Checker:

Assessor: LiHua