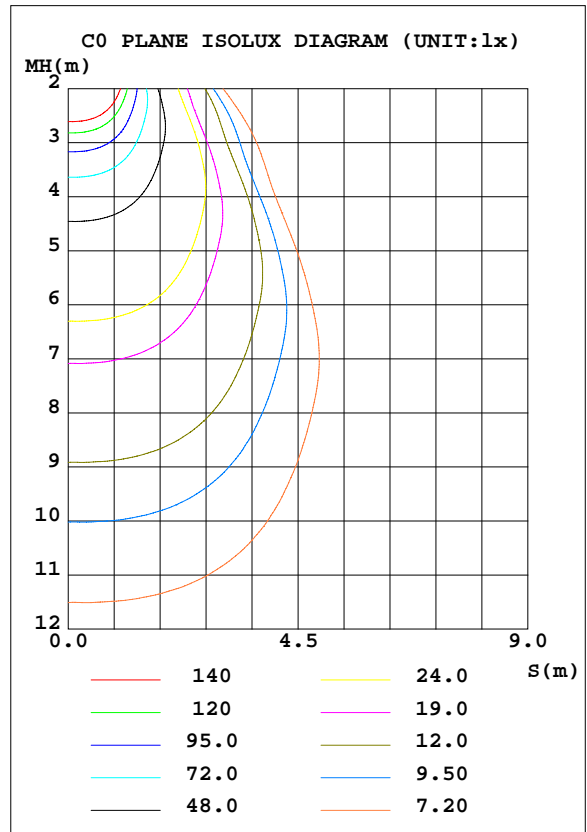
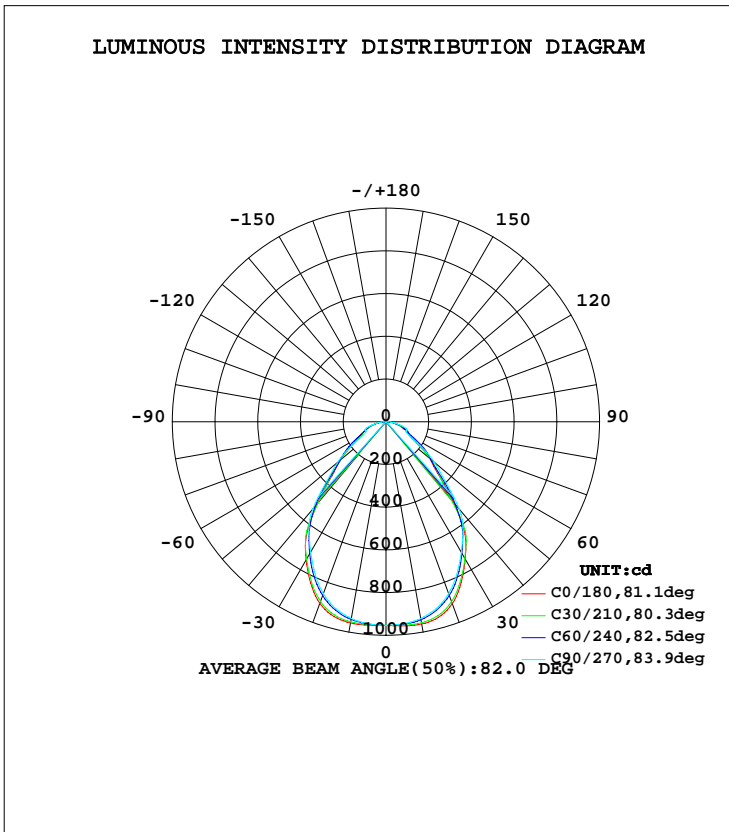


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 96.32 lm/W
MODEL	46010182	I _{max} (cd)	962.1	S/MH(C0/180)	1.17	
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.12	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1797.2	η UP, DN(C0-180)	0.1,49.8	
NOMINAL FLUX(lm)	1797.23	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.0	
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	220	η down(%)	99.8	CIBSE SHR MAX	1.15	



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	ℳlum,lamp
10	961.2	948.4	935.4	945.8	956.8	945.8	935.4	948.4	0- 10	90.81	90.81	5.05,5.05
20	906.5	880.9	857.5	880.8	905.3	880.8	857.5	880.9	10- 20	260.3	351.1	19.5,19.5
30	742.0	724.9	705.8	728.9	747.7	728.9	705.8	724.9	20- 30	371.9	723.0	40.2,40.2
40	494.9	489.8	533.5	503.5	500.1	503.5	533.5	489.8	30- 40	392.8	1116	62.1,62.1
50	268.9	271.9	296.3	279.1	278.6	279.1	296.3	271.9	40- 50	288.9	1405	78.2,78.2
60	131.1	136.1	123.5	148.9	146.9	148.9	123.5	136.1	50- 60	181.4	1586	88.3,88.3
70	84.35	90.56	103.5	93.24	93.42	93.24	103.5	90.56	60- 70	112.5	1699	94.5,94.5
80	44.24	43.69	46.21	44.34	47.02	44.34	46.21	43.69	70- 80	72.35	1771	98.5,98.5
90	0.1574	0.6690	0.5501	0.6213	0.2328	0.6213	0.5501	0.6690	80- 90	22.53	1794	99.8,99.8
100	0.1754	0.1586	0.1491	0.1563	0.1391	0.1563	0.1491	0.1586	90-100	0.2352	1794	99.8,99.8
110	0.2459	0.2358	0.2618	0.2281	0.1894	0.2281	0.2618	0.2358	100-110	0.2010	1794	99.8,99.8
120	0.3588	0.3998	0.4314	0.3977	0.3533	0.3977	0.4314	0.3998	110-120	0.3041	1794	99.8,99.8
130	0.5993	0.6406	0.6718	0.6408	0.6036	0.6408	0.6718	0.6406	120-130	0.4592	1795	99.9,99.9
140	0.8710	0.9021	0.9381	0.9198	0.8756	0.9198	0.9381	0.9021	130-140	0.5974	1795	99.9,99.9
150	1.137	1.171	1.210	1.189	1.143	1.189	1.210	1.171	140-150	0.6528	1796	99.9,99.9
160	1.399	1.448	1.492	1.458	1.420	1.458	1.492	1.448	150-160	0.6044	1797	100,100
170	1.671	1.702	1.733	1.697	1.681	1.697	1.733	1.702	160-170	0.4452	1797	100,100
180	1.799	1.784	1.789	1.781	1.809	1.781	1.789	1.784	170-180	0.1666	1797	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

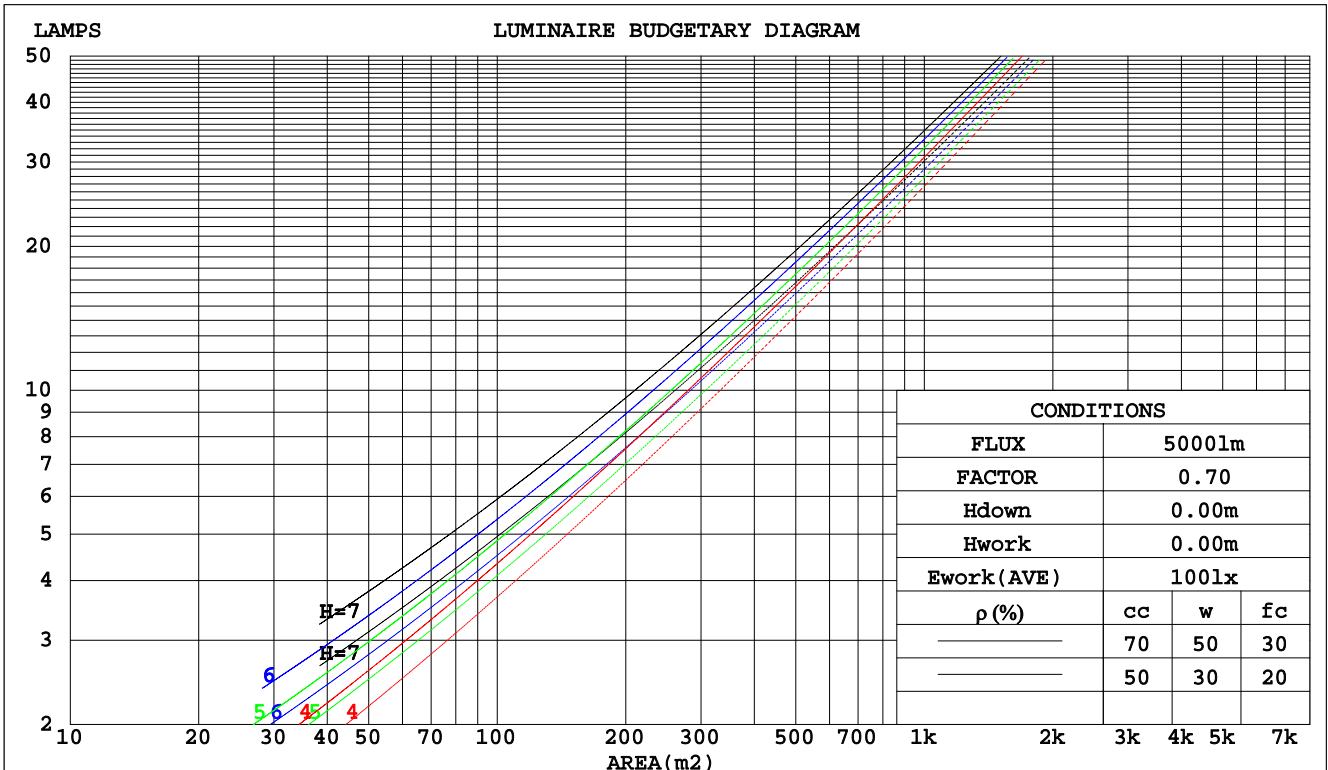
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
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	1.06	1.03	.00	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.85	.93	.88	.84	.90	.85	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.86	.79	.73	.84	.78	.72	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67
4.0	.77	.70	.64	.76	.69	.64	.74	.68	.63	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.63	.57	.69	.62	.56	.67	.61	.56	.65	.60	.55	.64	.59	.55	.53
6.0	.64	.56	.51	.63	.56	.50	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7.0	.59	.51	.46	.58	.51	.46	.57	.50	.45	.55	.49	.45	.54	.49	.45	.43
8.0	.54	.47	.42	.54	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.45	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LXF
Test Date:2021-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:25.0%
Test Distance:7.560m [K=1.0714]
Remarks:

WEC AND CCEC

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding 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	.259	.147	.047	.252	.144	.046	.239	.137	.044	.227	.131	.042	.216	.125	.040	
2.0	.245	.134	.041	.239	.132	.041	.228	.127	.039	.217	.122	.038	.208	.117	.037	
3.0	.230	.122	.037	.224	.120	.036	.214	.116	.035	.205	.112	.034	.197	.109	.034	
4.0	.215	.111	.033	.210	.110	.032	.201	.107	.032	.193	.104	.031	.185	.101	.031	
5.0	.201	.102	.030	.197	.101	.029	.189	.098	.029	.182	.096	.029	.175	.093	.028	
6.0	.188	.094	.027	.185	.093	.027	.178	.091	.026	.171	.089	.026	.165	.087	.026	
7.0	.177	.087	.025	.174	.087	.025	.167	.085	.024	.162	.083	.024	.156	.081	.024	
8.0	.167	.081	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	.148	.076	.022	
9.0	.158	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.072	.021	
10.0	.149	.072	.020	.147	.071	.020	.142	.070	.020	.138	.069	.019	.134	.067	.019	

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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.178	.158	.140	.153	.136	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.168	.134	.105	.144	.115	.091	.098	.080	.063	.057	.046	.037	.018	.015	.012	
3.0	.158	.116	.082	.136	.100	.071	.093	.069	.050	.054	.040	.029	.017	.013	.010	
4.0	.150	.102	.065	.129	.088	.057	.088	.061	.040	.051	.036	.024	.016	.012	.008	
5.0	.142	.091	.053	.122	.079	.046	.084	.055	.033	.049	.032	.019	.016	.011	.006	
6.0	.135	.082	.044	.116	.071	.039	.080	.050	.027	.047	.029	.016	.015	.010	.005	
7.0	.129	.075	.038	.111	.065	.033	.077	.046	.023	.044	.027	.014	.014	.009	.005	
8.0	.123	.069	.033	.106	.060	.029	.073	.042	.020	.043	.025	.012	.014	.008	.004	
9.0	.117	.064	.029	.101	.056	.025	.070	.039	.018	.041	.023	.011	.013	.008	.004	
10.0	.112	.060	.026	.097	.052	.022	.067	.037	.016	.039	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

UGR(Unified Glare Rating) Table

NAME:		TYPE:LED					WEIGHT:				
SPEC.:3030M		DIM.: 295*295					SERIAL No.:				
MFR.: JT		SUR.:0.295*0.295					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	11.3	12.6	11.6	12.8	13.0	11.6	12.9	11.9	13.1	13.3	
3H	12.3	13.5	12.6	13.7	13.9	12.6	13.8	12.9	14.0	14.3	
4H	12.7	13.8	13.0	14.1	14.3	13.2	14.3	13.5	14.6	14.8	
6H	13.1	14.1	13.4	14.4	14.7	13.6	14.7	14.0	15.0	15.2	
8H	13.3	14.3	13.6	14.6	14.9	13.8	14.9	14.1	15.1	15.4	
12H	13.4	14.4	13.7	14.7	15.0	13.9	14.9	14.3	15.2	15.5	
4H 2H	11.6	12.8	11.9	13.0	13.3	11.9	13.0	12.2	13.3	13.5	
3H	12.9	13.9	13.2	14.2	14.5	13.1	14.1	13.4	14.4	14.7	
4H	13.4	14.3	13.7	14.6	14.9	13.9	14.8	14.2	15.1	15.4	
6H	13.9	14.7	14.3	15.1	15.4	14.4	15.2	14.8	15.6	16.0	
8H	14.2	14.9	14.6	15.3	15.7	14.7	15.4	15.1	15.8	16.2	
12H	14.4	15.0	14.8	15.4	15.8	14.9	15.6	15.3	15.9	16.3	
8H 4H	13.6	14.3	14.0	14.7	15.1	14.0	14.8	14.4	15.2	15.5	
6H	14.3	14.9	14.7	15.3	15.8	14.8	15.4	15.2	15.8	16.2	
8H	14.7	15.2	15.1	15.6	16.1	15.1	15.7	15.6	16.1	16.5	
12H	14.9	15.4	15.4	15.8	16.3	15.4	15.8	15.8	16.3	16.8	
12H 4H	13.6	14.3	14.0	14.6	15.1	14.0	14.7	14.5	15.1	15.5	
6H	14.4	14.9	14.8	15.3	15.8	14.8	15.4	15.3	15.8	16.3	
8H	14.8	15.2	15.2	15.7	16.2	15.2	15.7	15.7	16.1	16.6	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.5					+ 0.3 / - 0.5					
1.5H	+ 0.4 / - 0.4					+ 0.3 / - 0.2					
2.0H	+ 0.9 / - 0.7					+ 0.9 / - 0.9					

CIE Pub.117 Corrected 1797 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	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	68	58	52	67	58	52	66	58	52	47
0.80	77	68	62	77	67	62	75	67	61	56
1.00	85	76	70	84	75	70	82	76	69	63
1.25	91	82	77	90	82	76	87	80	75	69
1.50	95	87	82	93	86	81	91	85	80	74
2.00	100	94	88	99	92	88	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

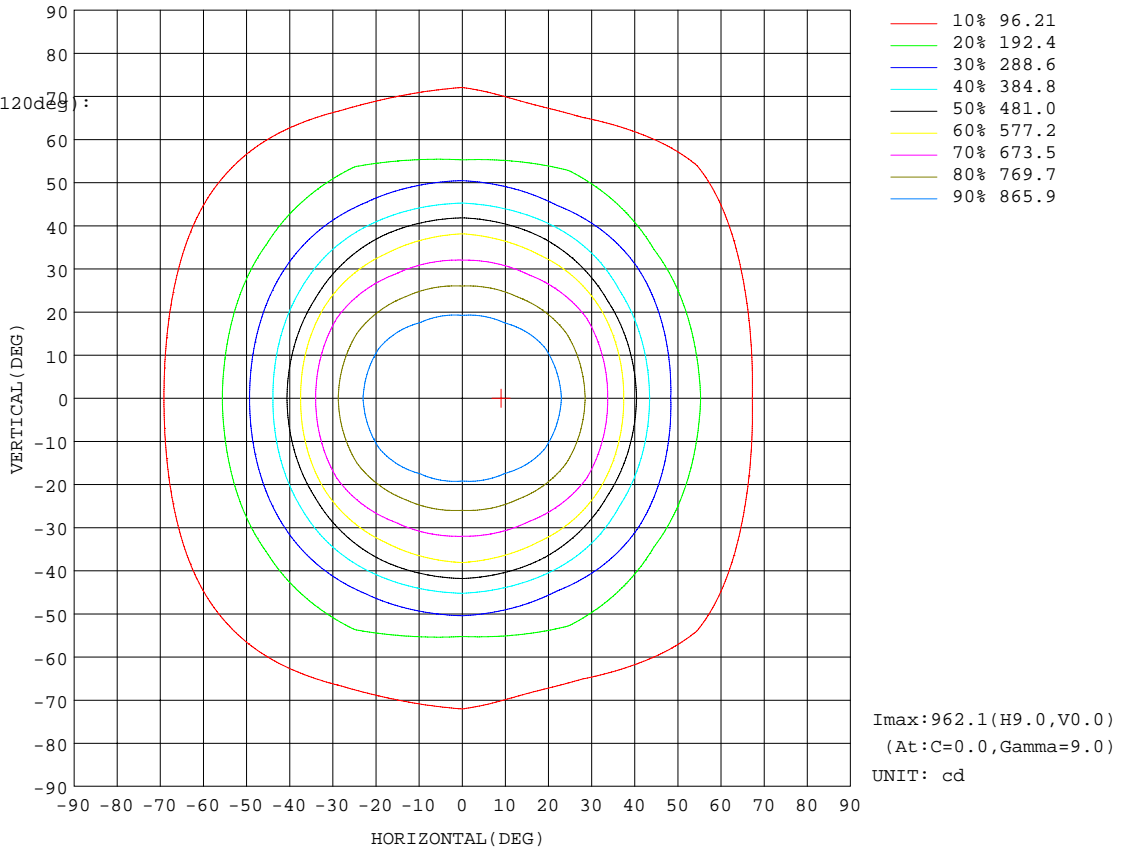
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

ISOCANDELA DIAGRAM

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:

Conical surface Flux(90deg):
 1275.7 lm
 %lum = 71.0%
 %lamp = 71.0%

Conical surface Flux(120deg):
 1586.2 lm
 %lum = 88.3%
 %lamp = 88.3%

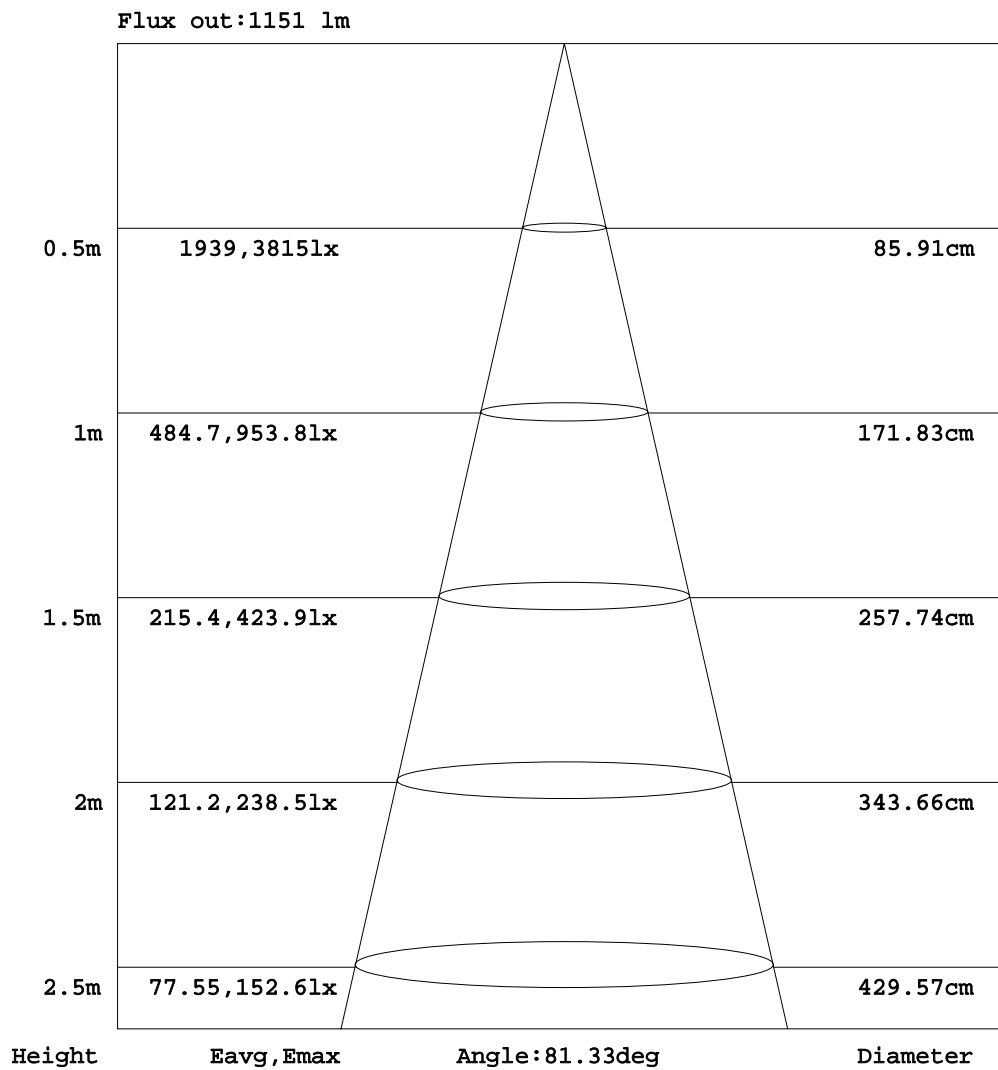


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LXF
 Test Date: 2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity: 25.0%
 Test Distance: 7.560m [K=1.0714]
 Remarks:

AAI Figure

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:



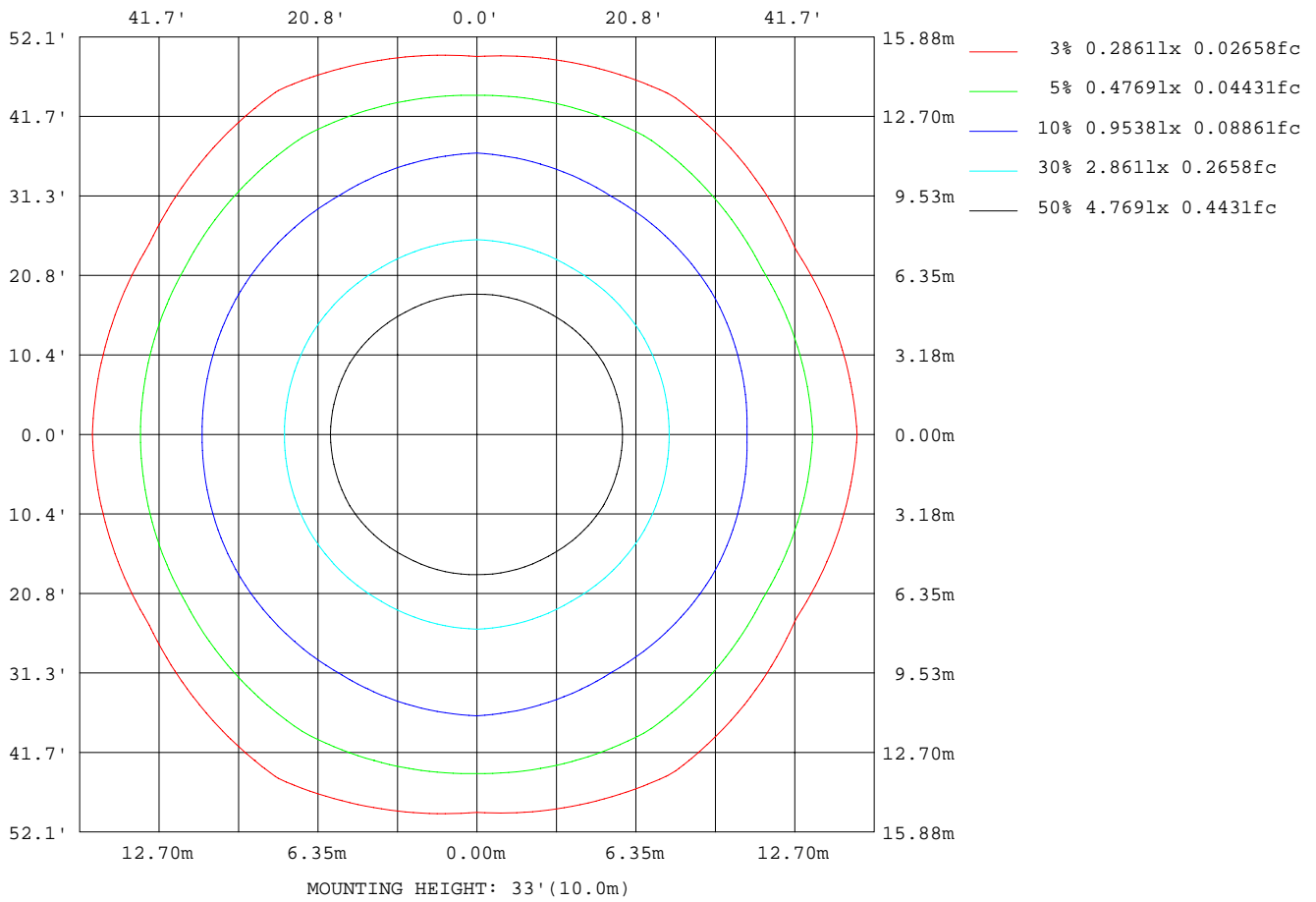
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

ISOLUX DIAGRAM

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

LED Avg.L Report

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:

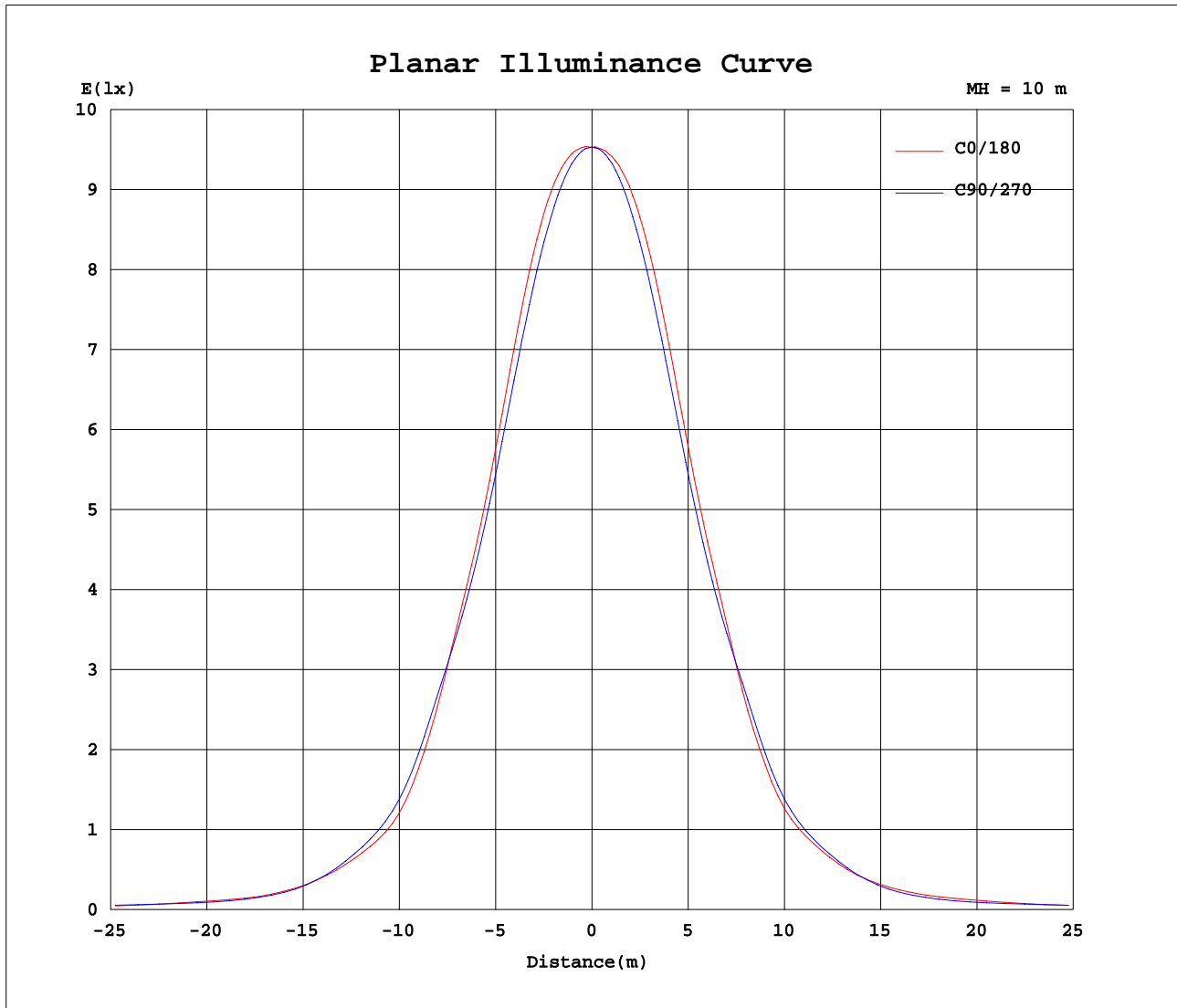
AvgL	cd/m2
L_0~180(65)av	733
L_0~180(75)av	645
L_0~180(85)av	670
L_90~270(65)av	642
L_90~270(75)av	793
L_90~270(85)av	690
L_45(65)av	719
L_45(75)av	675
L_45(85)av	548

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LXF
 Test Date: 2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity: 25.0%
 Test Distance: 7.560m [K=1.0714]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:LED	WEIGHT:
SPEC.:3030M	DIM.: 295*295	SERIAL No.:
MFR.: JT	SUR.:0.295*0.295	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	954	953	954	953	954	953	953	953	954	953	954	953							
5	959	956	951	949	951	954	955	954	951	949	951	956							
10	961	956	941	935	940	952	957	952	940	935	941	956							
15	948	940	914	906	913	936	944	936	913	906	914	940							
20	907	896	865	858	866	896	905	896	866	858	865	896							
25	832	824	795	786	798	826	834	826	798	786	795	824							
30	742	739	711	706	714	743	748	743	714	706	711	739							
35	645	653	626	629	626	654	650	654	626	629	626	653							
40	495	474	506	534	515	492	500	492	515	534	506	474							
45	343	353	367	391	377	368	358	368	377	391	367	353							
50	269	271	272	296	282	276	279	276	282	296	272	271							
55	197	174	216	198	223	196	201	196	223	198	216	174							
60	131	124	148	124	161	136	147	136	161	124	148	124							
65	113	113	113	103	117	118	122	118	117	103	113	113							
70	84.4	96.2	84.9	104	94.4	92.1	93.4	92.1	94.4	104	84.9	96.2							
75	59.4	53.4	70.5	78.0	74.6	69.0	67.5	69.0	74.6	78.0	70.5	53.4							
80	44.2	44.1	43.3	46.2	43.2	45.5	47.0	45.5	43.2	46.2	43.3	44.1							
85	20.2	17.2	17.1	22.8	18.7	21.6	24.2	21.6	18.7	22.8	17.1	17.2							
90	0.16	1.08	0.25	0.55	0.63	0.61	0.23	0.61	0.63	0.55	0.25	1.08							
95	0.16	0.42	0.14	0.12	0.15	0.13	0.13	0.13	0.15	0.12	0.14	0.42							
100	0.18	0.17	0.15	0.15	0.15	0.16	0.14	0.16	0.15	0.15	0.15	0.17							
105	0.25	0.21	0.16	0.21	0.16	0.20	0.15	0.20	0.16	0.21	0.16	0.21							
110	0.25	0.26	0.21	0.26	0.20	0.25	0.19	0.25	0.20	0.26	0.21	0.26							
115	0.27	0.33	0.28	0.34	0.29	0.32	0.26	0.32	0.29	0.34	0.28	0.33							
120	0.36	0.43	0.37	0.43	0.38	0.42	0.35	0.42	0.38	0.43	0.37	0.43							
125	0.48	0.54	0.49	0.55	0.49	0.54	0.48	0.54	0.49	0.55	0.49	0.54							
130	0.60	0.67	0.61	0.67	0.61	0.67	0.60	0.67	0.61	0.67	0.61	0.67							
135	0.74	0.79	0.75	0.80	0.75	0.81	0.74	0.81	0.75	0.80	0.75	0.79							
140	0.87	0.93	0.88	0.94	0.90	0.94	0.88	0.94	0.90	0.94	0.88	0.93							
145	1.01	1.07	1.01	1.07	1.03	1.08	1.01	1.08	1.03	1.07	1.01	1.07							
150	1.14	1.20	1.15	1.21	1.17	1.20	1.14	1.20	1.17	1.21	1.15	1.20							
155	1.27	1.34	1.29	1.35	1.31	1.33	1.28	1.33	1.31	1.35	1.29	1.34							
160	1.40	1.48	1.42	1.49	1.45	1.47	1.42	1.47	1.45	1.49	1.42	1.48							
165	1.55	1.61	1.56	1.62	1.58	1.59	1.56	1.59	1.58	1.62	1.56	1.61							
170	1.67	1.73	1.68	1.73	1.68	1.72	1.68	1.72	1.68	1.73	1.68	1.73							
175	1.75	1.80	1.73	1.78	1.73	1.78	1.77	1.78	1.73	1.78	1.73	1.80							
180	1.80	1.80	1.77	1.79	1.77	1.79	1.81	1.79	1.77	1.79	1.77	1.80							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LXF
 Test Date:2021-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:25.0%
 Test Distance:7.560m [K=1.0714]
 Remarks: