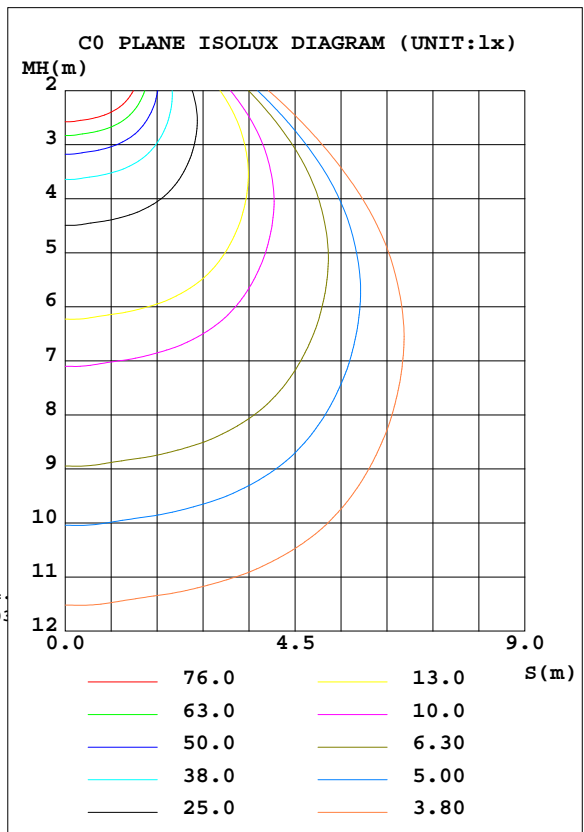
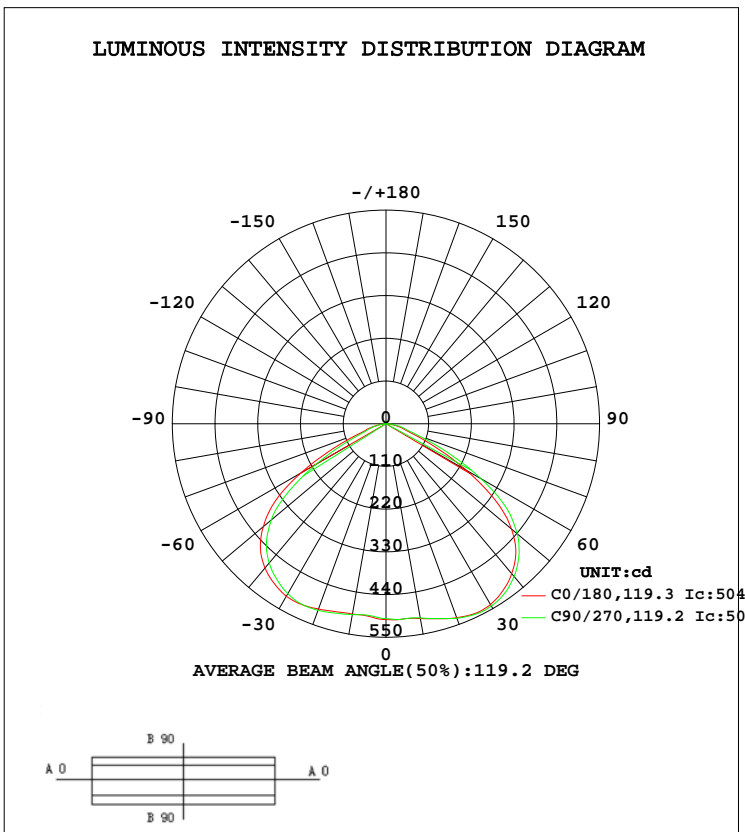


LUMINAIRE PHOTOMETRIC TEST REPORT

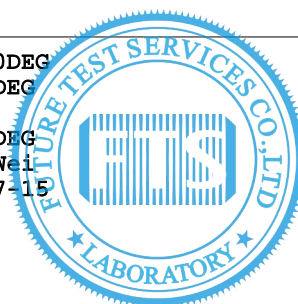
Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.29 lm/W			
MODEL	--	I _{max} (cd)	546.6	S/MH(C0/180)	1.51
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	1629.1	η UP, DN(C0-180)	0.5,51.9
NOMINAL FLUX(lm)	1629.12	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4,47.2
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	--	η down(%)	99.1	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --



ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

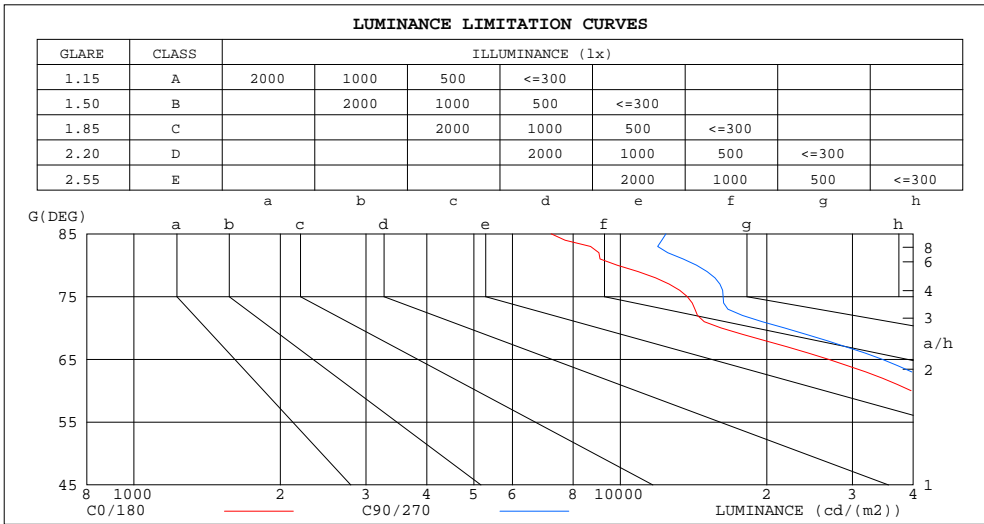
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	509.5	509.0	507.8	503.1	497.5	494.0	499.1	505.0	0- 10	47.82	47.82	2.94,2.94
20	531.5	533.1	532.7	521.4	507.7	500.4	511.3	523.8	10- 20	145.2	193.0	11.8,11.8
30	537.7	543.4	541.9	529.6	513.0	499.2	505.5	520.4	20- 30	242.9	435.9	26.8,26.8
40	503.6	514.0	513.2	500.4	484.7	468.8	468.0	481.2	30- 40	320.2	756.1	46.4,46.4
50	421.7	439.5	441.5	430.4	412.4	394.8	385.7	392.9	40- 50	354.3	1110	68.2,68.2
60	237.6	270.7	281.2	271.9	252.0	228.6	205.8	205.3	50- 60	302.5	1413	86.7,86.7
70	66.13	81.47	89.23	84.66	69.93	60.00	55.42	56.36	60- 70	145.1	1558	95.6,95.6
80	20.53	26.74	29.89	28.45	20.40	18.09	16.19	16.79	70- 80	46.22	1604	98.5,98.5
90	0.6922	2.238	3.111	2.278	0.1996	0.1878	0.1873	0.1874	80- 90	10.07	1614	99.1,99.1
100	1.098	0.9867	0.9378	0.9934	0.6123	0.6990	0.6993	0.6676	90-100	0.6900	1615	99.1,99.1
110	1.836	1.681	1.624	1.693	1.315	1.437	1.424	1.380	100-110	1.250	1616	99.2,99.2
120	2.621	2.454	2.375	2.460	2.112	2.205	2.221	2.155	110-120	1.918	1618	99.3,99.3
130	3.297	3.117	3.075	3.130	2.800	2.892	2.884	2.842	120-130	2.392	1621	99.5,99.5
140	3.746	3.659	3.611	3.667	3.324	3.436	3.422	3.385	130-140	2.526	1623	99.6,99.6
150	4.147	4.122	4.049	4.147	3.836	3.935	3.935	3.885	140-150	2.359	1625	99.8,99.8
160	4.472	4.460	4.472	4.491	4.298	4.335	4.384	4.285	150-160	1.942	1627	99.9,99.9
170	4.697	4.685	4.660	4.672	4.647	4.666	4.697	4.622	160-170	1.287	1629	100,100
180	4.797	4.791	4.785	4.785	4.810	4.803	4.785	4.772	170-180	0.4511	1629	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

LUMINANCE LIMITATION CURVES

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7207	12412
80	9853	14345
75	13730	16267
70	16113	21740
65	26771	34547
60	39606	46873
55	50037	55042
50	54676	57241
45	55753	57005

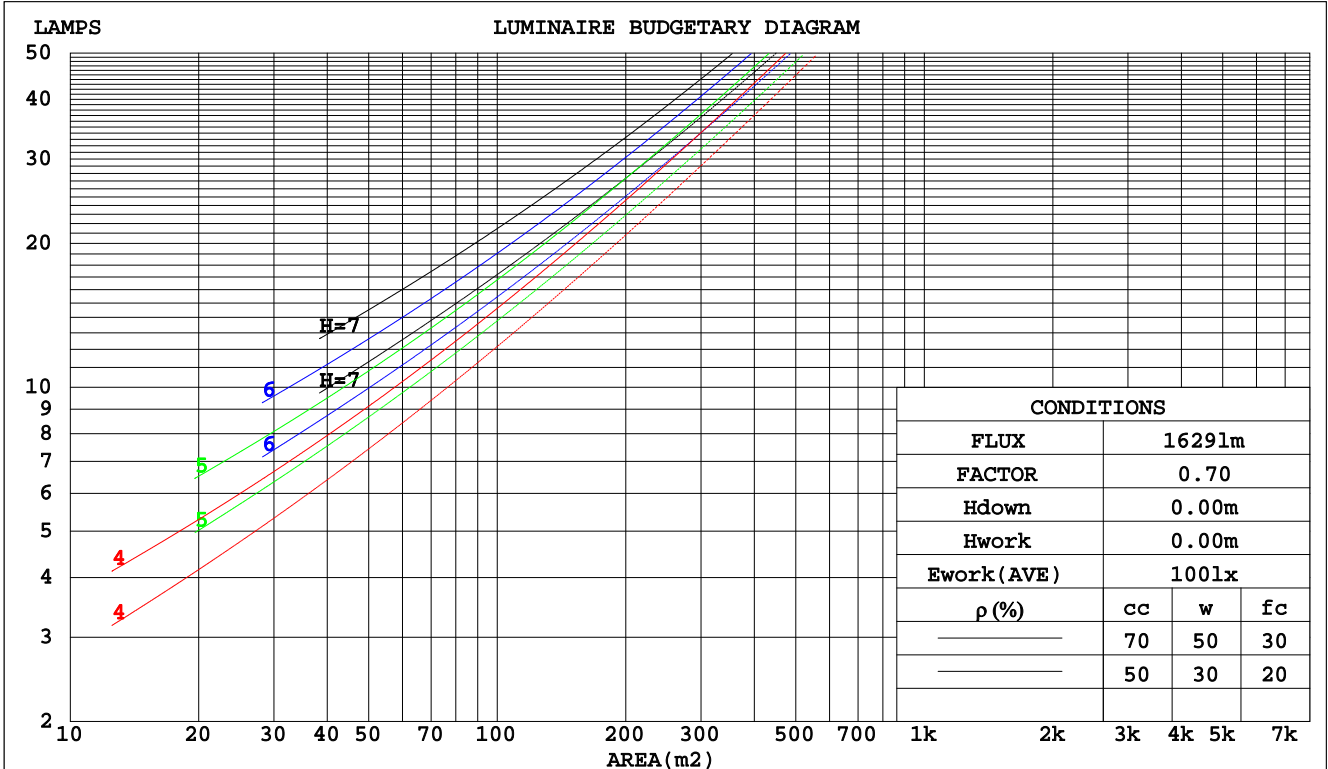
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																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	1.01	1.01	1.01	.99
1.0	1.06	1.02	.98	1.03	.90	.97	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.68	.77	.71	.66	.74	.69	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.64	.57	.69	.62	.57	.66	.60	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.49	.62	.54	.49	.59	.53	.48	.58	.52	.48	.46
6.0	.58	.50	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.34	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

WEC AND CCEC

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

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	.273	.155	.049	.266	.152	.048	.252	.145	.046	.240	.138	.044	.228	.132	.043	
2.0	.266	.146	.045	.259	.143	.044	.247	.138	.043	.236	.133	.041	.226	.128	.040	
3.0	.252	.134	.040	.246	.132	.040	.235	.128	.039	.226	.124	.038	.217	.120	.037	
4.0	.236	.123	.036	.231	.121	.036	.222	.118	.035	.213	.114	.035	.205	.111	.034	
5.0	.221	.113	.033	.217	.111	.032	.208	.109	.032	.201	.106	.031	.193	.103	.031	
6.0	.207	.104	.030	.203	.103	.030	.196	.100	.029	.189	.098	.029	.182	.096	.028	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.172	.089	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.024	.162	.083	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.023	
10.0	.162	.078	.022	.159	.077	.021	.154	.076	.021	.150	.074	.021	.145	.073	.021	

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	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.185	.163	.144	.158	.140	.124	.108	.097	.086	.062	.056	.050	.020	.018	.016	
2.0	.176	.139	.108	.151	.120	.094	.103	.083	.065	.059	.048	.038	.019	.016	.012	
3.0	.168	.121	.084	.144	.105	.073	.099	.073	.051	.057	.042	.030	.018	.014	.010	
4.0	.161	.108	.067	.138	.093	.058	.095	.065	.041	.055	.038	.024	.018	.012	.008	
5.0	.154	.097	.056	.132	.084	.048	.091	.059	.034	.053	.035	.020	.017	.011	.007	
6.0	.147	.089	.047	.127	.077	.041	.087	.054	.029	.051	.032	.017	.016	.010	.006	
7.0	.141	.082	.041	.121	.071	.036	.084	.050	.025	.049	.029	.015	.016	.010	.005	
8.0	.135	.076	.036	.116	.066	.032	.080	.047	.022	.047	.027	.013	.015	.009	.004	
9.0	.129	.072	.033	.111	.062	.028	.077	.044	.020	.045	.026	.012	.015	.008	.004	
10.0	.124	.067	.030	.107	.058	.026	.074	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

UGR(Unified Glare Rating) Table

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm										
NAME: LED Down Light				TYPE:--			SERIAL No.:FTS20071501L-03			
SPEC.:RFE-0303B				DIM.: --						
MFR.: ATC				SUR.:125mm						
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	26.7	28.1	27.0	28.4	28.6	27.1	28.6	27.4	28.8	29.0
3H	27.0	28.3	27.3	28.5	28.8	27.6	28.9	27.9	29.1	29.4
4H	27.0	28.3	27.3	28.5	28.8	27.6	28.9	27.9	29.1	29.4
6H	27.0	28.2	27.3	28.5	28.8	27.6	28.8	28.0	29.1	29.4
8H	27.0	28.1	27.3	28.4	28.7	27.6	28.8	28.0	29.1	29.4
12H	26.9	28.0	27.3	28.3	28.7	27.6	28.7	28.0	29.0	29.3
4H 2H	27.0	28.3	27.3	28.5	28.8	27.4	28.6	27.7	28.9	29.2
3H	27.4	28.5	27.7	28.8	29.1	27.9	29.0	28.2	29.3	29.6
4H	27.5	28.4	27.8	28.8	29.1	28.0	29.0	28.4	29.3	29.7
6H	27.5	28.4	27.9	28.7	29.1	28.1	29.0	28.5	29.3	29.7
8H	27.5	28.3	27.9	28.7	29.1	28.1	28.9	28.5	29.3	29.7
12H	27.5	28.2	27.9	28.6	29.0	28.1	28.8	28.6	29.2	29.7
8H 4H	27.5	28.3	27.9	28.6	29.0	28.0	28.8	28.4	29.2	29.6
6H	27.6	28.2	28.0	28.6	29.1	28.1	28.8	28.6	29.2	29.7
8H	27.6	28.2	28.1	28.6	29.1	28.2	28.8	28.6	29.2	29.7
12H	27.6	28.1	28.1	28.6	29.1	28.2	28.7	28.7	29.2	29.7
12H 4H	27.4	28.2	27.9	28.6	29.0	27.9	28.7	28.4	29.1	29.5
6H	27.6	28.1	28.0	28.6	29.0	28.1	28.7	28.6	29.1	29.6
8H	27.6	28.1	28.1	28.6	29.0	28.2	28.7	28.7	29.1	29.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.4				
1.5H	+ 0.7 / - 1.1					+ 0.6 / - 0.9				
2.0H	+ 0.9 / - 1.2					+ 0.8 / - 1.0				

CIE Pub.117, 1629 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.7)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

UTILIZATION FACTORS TABLE

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

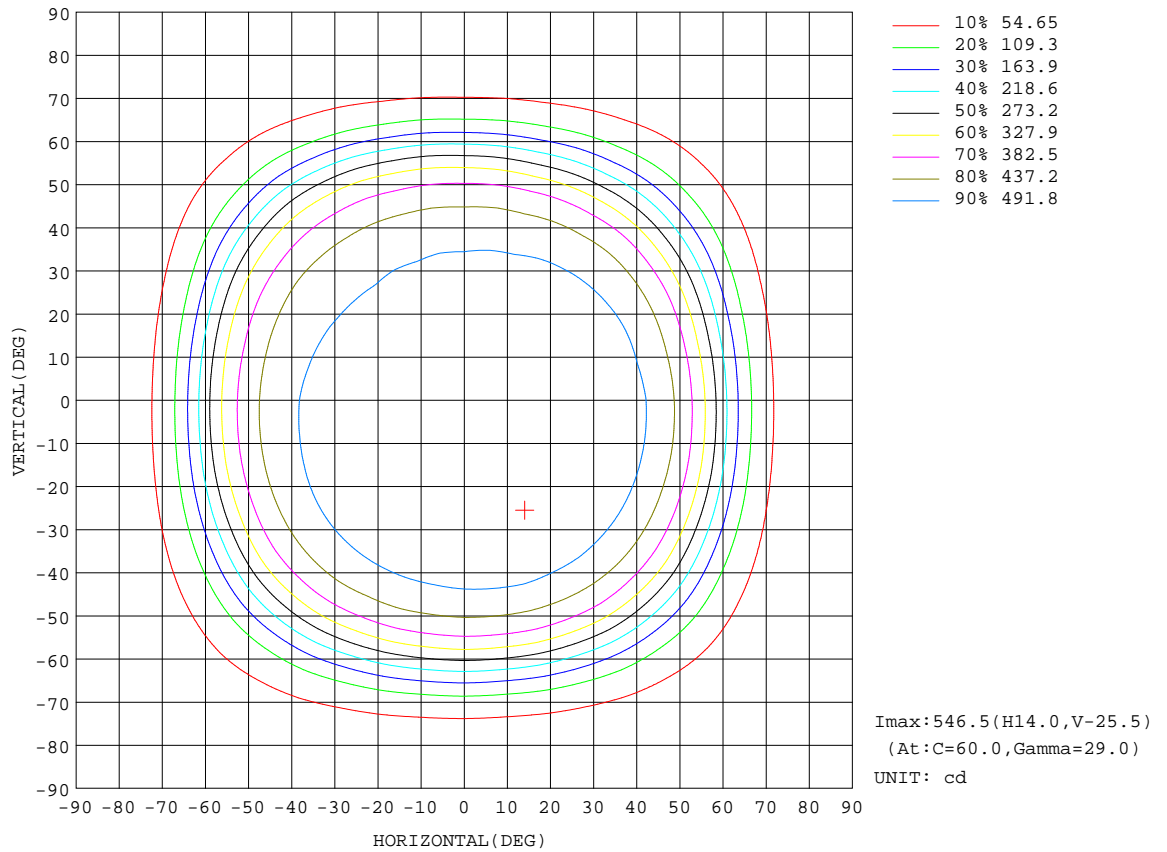
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	55	45	39	32
0.80	69	57	50	67	57	50	66	56	49	42
1.00	78	67	60	77	67	60	74	68	59	53
1.25	85	76	69	84	75	68	81	73	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	84	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	110	105	101	107	103	100	102	99	97	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

ISOCANDELA DIAGRAM

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	



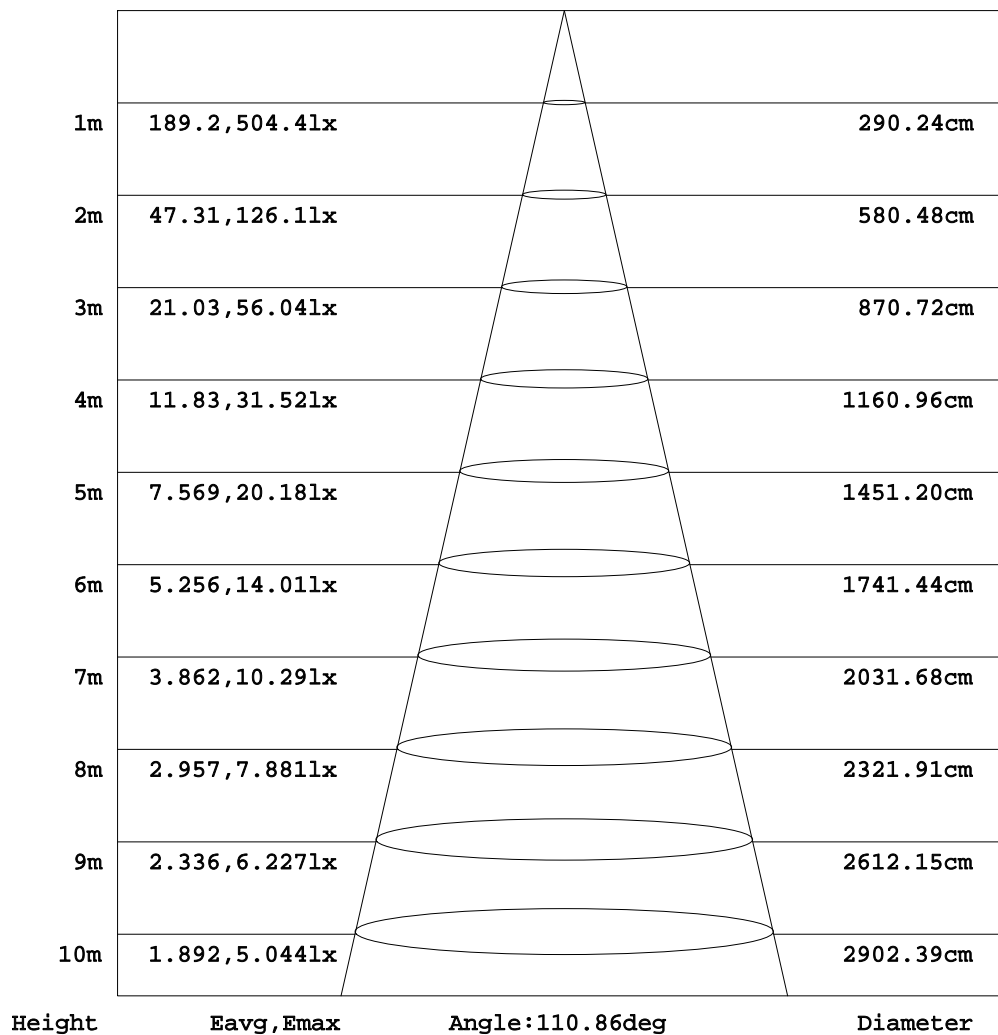
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Salah Wei
 Test Date: 2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity: 62.3%
 Test Distance: 13.339m [K=1.0000]
 Remarks: --

AAI Figure

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

Flux out:1307 lm



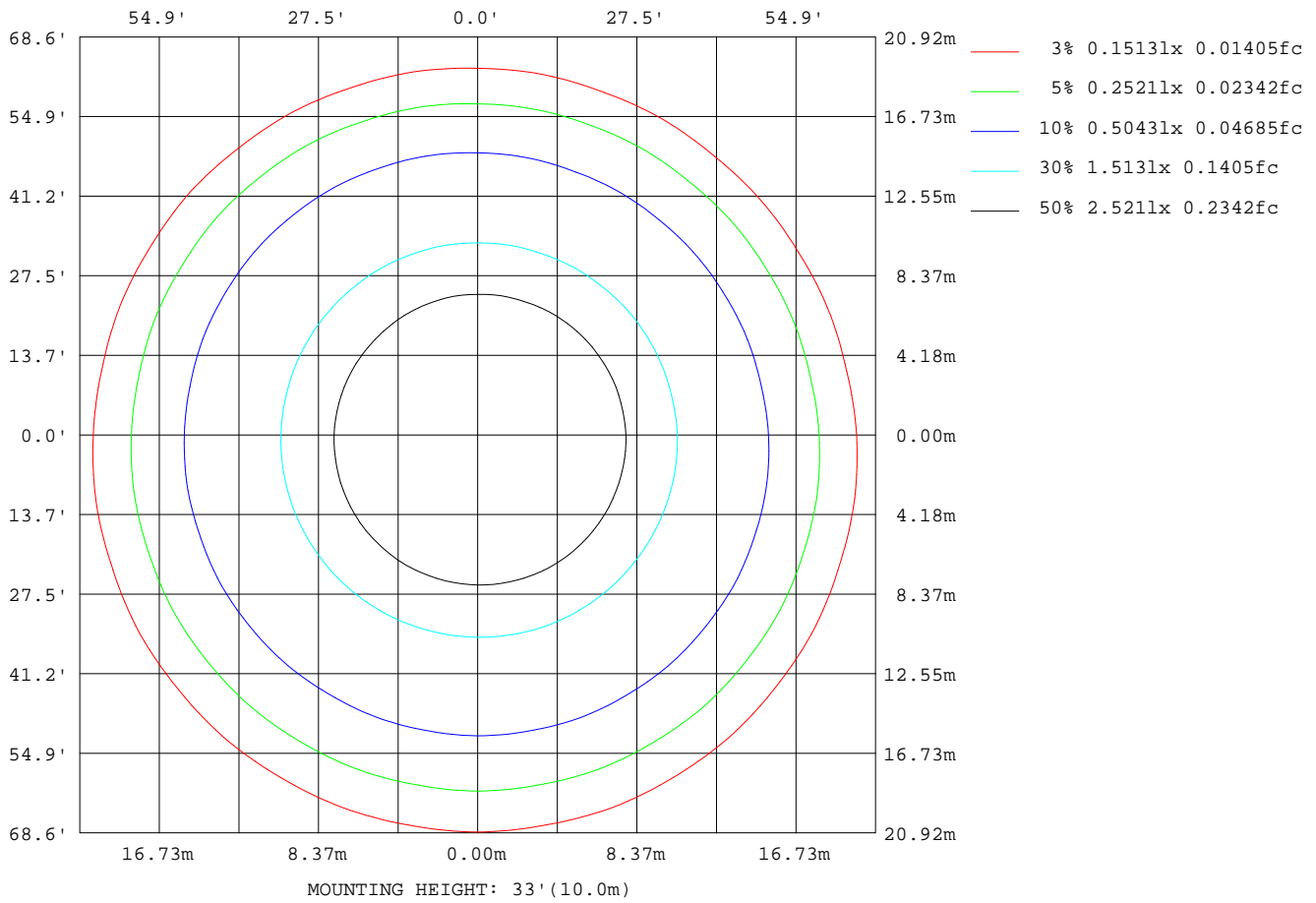
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

ISOLUX DIAGRAM

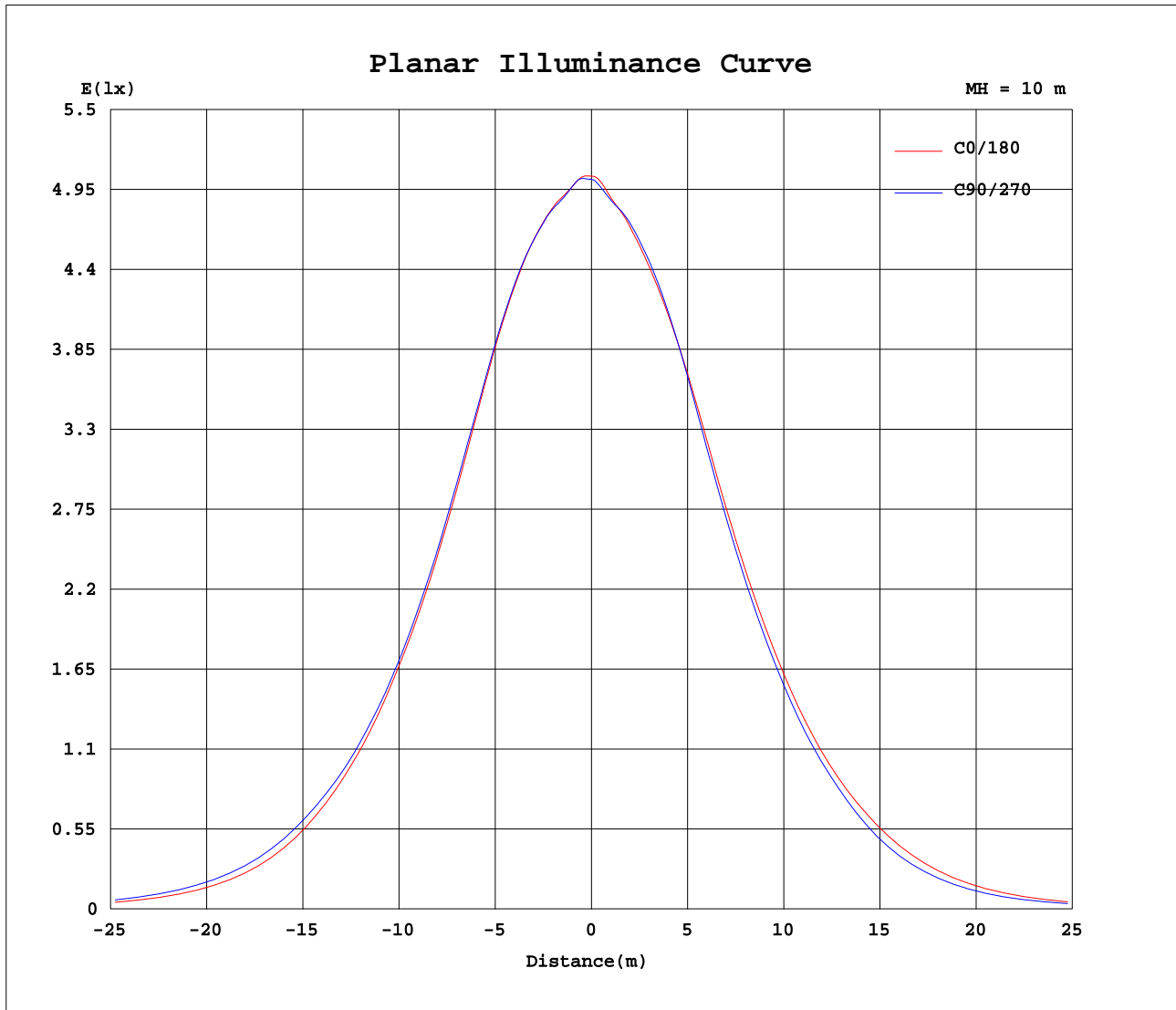
Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Salah Wei
 Test Date: 2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity: 62.3%
 Test Distance: 13.339m [K=1.0000]
 Remarks: --

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

Table--1 UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	504	504	503	503	503	502	503	503	503	502	502	502	502	502	502	502	502	502	504
5	505	505	505	505	505	505	506	505	505	505	504	503	502	501	500	499	498	497	498
10	509	510	510	510	509	509	510	509	509	508	507	506	505	504	503	500	499	497	498
15	520	519	520	520	520	520	521	521	520	519	518	516	515	512	510	508	505	501	501
20	531	532	532	532	533	533	535	534	534	533	531	529	526	523	520	517	513	509	508
25	539	540	541	542	543	543	544	543	543	542	540	538	535	531	528	524	520	516	514
30	538	540	541	542	543	544	546	545	543	542	541	538	534	532	528	523	520	515	513
35	525	527	529	531	531	534	536	536	535	533	531	528	525	521	518	513	509	505	502
40	504	507	509	511	513	515	516	516	514	513	510	507	505	502	499	495	491	487	485
45	473	476	478	481	483	485	486	488	485	484	481	479	476	474	470	468	464	461	457
50	422	427	430	435	438	441	442	443	442	442	438	437	433	432	429	425	420	417	412
55	344	355	359	366	370	376	378	381	379	379	376	375	370	369	365	363	356	354	349
60	238	248	253	262	267	274	276	280	279	281	278	278	276	274	270	268	261	258	252
65	136	143	147	156	160	166	169	173	173	175	173	174	171	171	166	164	157	154	147
70	66.1	70.1	72.0	76.4	79.1	83.9	85.3	88.0	87.4	89.2	88.0	88.9	86.9	86.6	82.7	81.0	76.6	74.3	69.9
75	42.6	44.3	45.1	46.4	47.1	48.2	48.8	49.7	49.8	50.5	50.3	50.6	50.2	50.2	49.4	49.1	47.8	47.0	44.6
80	20.5	22.3	23.3	25.1	25.9	27.5	28.1	29.1	29.1	29.9	29.6	29.8	29.2	29.1	27.8	27.1	25.1	23.3	20.4
85	7.54	8.28	8.89	10.0	10.6	11.6	11.8	12.5	12.5	13.0	12.7	13.0	12.4	12.3	11.1	10.2	8.70	7.83	6.64
90	0.69	1.07	1.37	1.71	1.94	2.54	2.63	2.97	2.98	3.11	3.02	3.03	2.68	2.59	1.96	1.71	1.30	1.02	0.20
95	0.80	0.76	0.74	0.72	0.74	0.70	0.72	0.69	0.71	0.67	0.72	0.69	0.70	0.72	0.72	0.74	0.74	0.77	0.35
100	1.10	1.05	1.04	1.01	1.00	0.97	0.99	0.94	0.97	0.94	1.00	0.94	0.97	0.98	1.01	1.01	1.04	1.05	0.61
105	1.45	1.40	1.37	1.35	1.32	1.30	1.31	1.26	1.31	1.26	1.32	1.26	1.31	1.31	1.35	1.35	1.39	1.41	0.93
110	1.84	1.76	1.75	1.73	1.70	1.66	1.66	1.63	1.66	1.62	1.69	1.64	1.66	1.68	1.71	1.73	1.74	1.79	1.31
115	2.24	2.16	2.15	2.11	2.06	2.06	2.04	2.01	2.03	2.01	2.05	2.02	2.05	2.06	2.10	2.10	2.14	2.19	1.70
120	2.62	2.55	2.55	2.50	2.47	2.44	2.41	2.39	2.41	2.37	2.41	2.39	2.42	2.44	2.48	2.51	2.51	2.57	2.11
125	2.98	2.92	2.88	2.85	2.82	2.79	2.77	2.75	2.76	2.75	2.75	2.75	2.77	2.79	2.83	2.86	2.87	2.94	2.49
130	3.30	3.24	3.20	3.16	3.13	3.10	3.10	3.05	3.09	3.07	3.07	3.06	3.08	3.10	3.16	3.17	3.21	3.24	2.80
135	3.55	3.50	3.46	3.44	3.42	3.37	3.36	3.31	3.36	3.35	3.33	3.36	3.38	3.39	3.43	3.45	3.50	3.50	3.09
140	3.75	3.72	3.71	3.70	3.68	3.64	3.62	3.57	3.62	3.61	3.60	3.62	3.66	3.65	3.69	3.72	3.75	3.72	3.32
145	3.98	3.95	3.93	3.94	3.92	3.90	3.88	3.82	3.87	3.85	3.83	3.87	3.90	3.90	3.95	3.96	3.97	3.96	3.56
150	4.15	4.14	4.12	4.12	4.12	4.12	4.11	4.06	4.10	4.05	4.06	4.09	4.13	4.13	4.16	4.17	4.17	4.17	3.84
155	4.33	4.34	4.30	4.30	4.30	4.31	4.31	4.26	4.31	4.27	4.28	4.30	4.33	4.34	4.36	4.37	4.36	4.36	4.05
160	4.47	4.51	4.46	4.47	4.45	4.47	4.48	4.47	4.48	4.47	4.47	4.49	4.50	4.48	4.50	4.52	4.53	4.52	4.30
165	4.61	4.62	4.60	4.61	4.57	4.60	4.63	4.62	4.62	4.58	4.57	4.61	4.62	4.61	4.61	4.65	4.68	4.66	4.50
170	4.70	4.70	4.68	4.70	4.66	4.71	4.75	4.72	4.70	4.66	4.65	4.67	4.66	4.66	4.68	4.75	4.77	4.72	4.65
175	4.77	4.77	4.75	4.77	4.76	4.78	4.80	4.77	4.77	4.73	4.75	4.75	4.75	4.75	4.77	4.81	4.78	4.75	4.75
180	4.80	4.80	4.78	4.78	4.80	4.78	4.77	4.78	4.80	4.78	4.80	4.78	4.76	4.78	4.78	4.76	4.76	4.75	4.81

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.0V I:0.0892A P:20.04W PF:0.9769 Freq:50.00Hz Lamp Flux:1629.12x1 lm		
NAME: LED Down Light	TYPE:--	SERIAL No.:FTS20071501L-03
SPEC.:RFE-0303B	DIM.: --	
MFR.: ATC	SUR.:125mm	

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	504	503	503	503	502	503	503	503	502	502	502	502	502	502	502	502	502		
5	496	496	494	495	494	495	495	495	496	496	496	497	498	499	500	500	502	502	
10	496	494	494	494	494	496	496	498	499	501	502	503	505	505	506	506	506	507	
15	498	496	495	495	496	498	501	502	505	508	510	512	514	516	517	517	518		
20	505	502	501	501	500	503	506	509	511	514	517	520	522	526	528	528	529		
25	510	507	506	505	504	506	508	511	513	516	519	521	525	529	531	534	536		
30	508	504	501	500	499	501	502	504	505	508	511	515	518	523	526	530	533		
35	497	494	491	488	487	488	488	490	490	493	494	498	502	506	511	517	518		
40	480	477	471	469	469	468	468	469	468	471	471	475	479	484	488	493	497		
45	453	449	445	442	439	439	437	438	436	438	437	442	444	450	455	460	465		
50	407	404	398	397	393	392	388	388	386	387	386	388	390	396	401	408	413		
55	343	340	335	332	327	324	316	314	308	306	302	305	305	312	316	326	332		
60	245	242	235	232	225	221	214	211	206	205	201	203	203	208	212	220	226		
65	140	138	132	129	124	121	117	116	112	112	110	111	111	115	117	123	127		
70	66.4	65.3	62.1	61.2	58.8	58.2	56.5	56.3	55.4	55.6	55.2	55.6	55.8	57.0	57.6	60.0	61.5		
75	43.1	42.9	41.5	41.0	39.5	38.9	37.7	37.4	36.5	36.6	36.1	36.8	36.8	37.8	38.3	39.7	40.5		
80	20.1	19.4	18.6	18.6	17.6	17.3	16.6	16.5	16.2	16.3	16.2	16.5	16.5	17.0	17.3	18.2	18.7		
85	6.08	5.72	5.25	5.44	5.30	5.21	4.87	4.91	4.66	4.90	4.86	5.26	5.41	5.75	5.72	6.20	6.44		
90	0.17	0.15	0.16	0.18	0.20	0.19	0.20	0.20	0.19	0.20	0.21	0.19	0.19	0.19	0.20	0.19	0.20		
95	0.32	0.34	0.36	0.39	0.41	0.39	0.42	0.41	0.39	0.43	0.42	0.38	0.37	0.38	0.40	0.36	0.36		
100	0.62	0.63	0.66	0.69	0.71	0.69	0.74	0.70	0.70	0.71	0.73	0.68	0.67	0.66	0.70	0.65	0.64		
105	0.96	0.95	1.00	1.04	1.07	1.04	1.07	1.05	1.05	1.06	1.09	1.01	1.02	0.99	1.04	0.98	0.97		
110	1.34	1.34	1.40	1.41	1.46	1.41	1.44	1.43	1.42	1.45	1.46	1.40	1.40	1.36	1.42	1.36	1.35		
115	1.74	1.74	1.79	1.80	1.85	1.81	1.82	1.81	1.82	1.85	1.85	1.79	1.80	1.76	1.80	1.75	1.74		
120	2.11	2.12	2.17	2.19	2.22	2.20	2.22	2.20	2.22	2.21	2.21	2.17	2.17	2.14	2.19	2.15	2.14		
125	2.47	2.51	2.55	2.56	2.60	2.57	2.58	2.57	2.59	2.55	2.56	2.52	2.55	2.50	2.54	2.51	2.49		
130	2.79	2.82	2.88	2.87	2.91	2.91	2.92	2.89	2.88	2.87	2.86	2.85	2.86	2.82	2.83	2.81	2.80		
135	3.08	3.09	3.17	3.16	3.20	3.19	3.20	3.15	3.17	3.14	3.12	3.12	3.15	3.10	3.10	3.06	3.06		
140	3.32	3.35	3.41	3.42	3.45	3.44	3.43	3.40	3.42	3.41	3.37	3.39	3.41	3.36	3.35	3.31	3.30		
145	3.55	3.59	3.65	3.67	3.68	3.66	3.67	3.66	3.70	3.66	3.62	3.64	3.65	3.60	3.58	3.52	3.52		
150	3.82	3.85	3.88	3.94	3.93	3.91	3.92	3.94	3.93	3.91	3.91	3.89	3.91	3.86	3.83	3.77	3.78		
155	4.07	4.11	4.11	4.15	4.13	4.14	4.12	4.14	4.15	4.15	4.13	4.11	4.11	4.10	4.06	4.04	4.01		
160	4.31	4.35	4.33	4.32	4.35	4.35	4.36	4.37	4.38	4.40	4.37	4.31	4.30	4.27	4.30	4.22	4.23		
165	4.53	4.55	4.52	4.52	4.51	4.51	4.51	4.55	4.57	4.57	4.55	4.50	4.48	4.46	4.46	4.42	4.43		
170	4.67	4.67	4.67	4.68	4.65	4.65	4.66	4.67	4.70	4.68	4.67	4.65	4.63	4.61	4.61	4.60	4.58		
175	4.73	4.76	4.76	4.76	4.73	4.73	4.73	4.76	4.76	4.75	4.76	4.73	4.72	4.70	4.71	4.70	4.71		
180	4.78	4.78	4.78	4.81	4.80	4.78	4.78	4.80	4.78	4.80	4.76	4.75	4.77	4.77	4.78	4.76	4.76		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Salah Wei
 Test Date:2020-07-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:62.3%
 Test Distance:13.339m [K=1.0000]
 Remarks: --