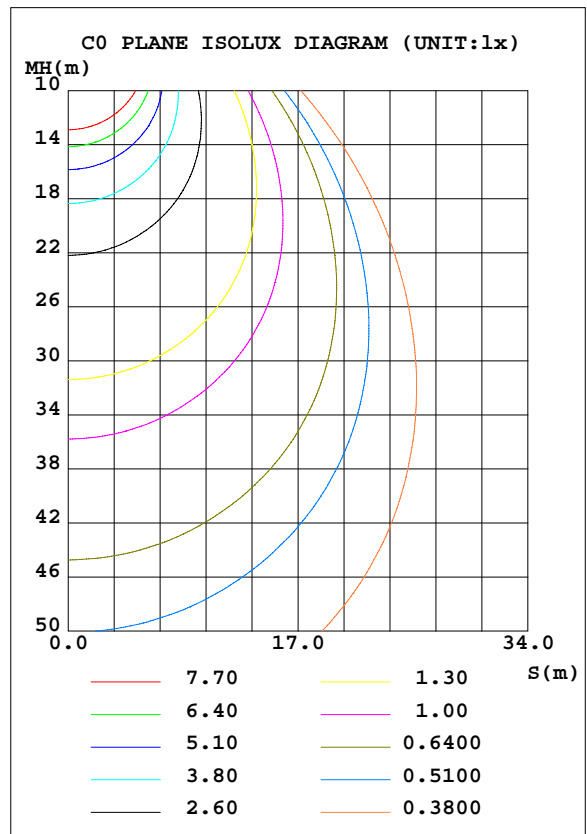
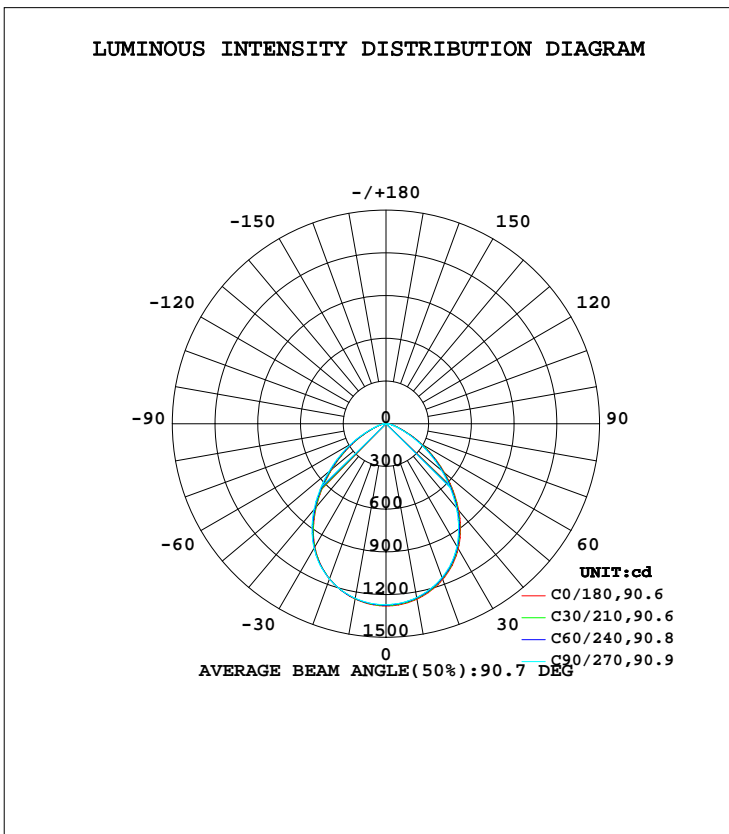


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.0lx1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.08 lm/W			
MODEL	558021410	I _{max} (cd)	1281	S/MH(C0/180)	1.17
NOMINAL POWER(W)	35	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2631.0	η UP, DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	2631.01	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.3
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1251	1244	1238	1235	1250	1248	1245	1241	0- 10	120.0	120.0	4.56,4.56
20	1164	1156	1149	1144	1160	1160	1161	1159	10- 20	339.9	459.9	17.5,17.5
30	1015	1005	996.0	985.9	998.2	1003	1011	1012	20- 30	500.1	960.0	36.5,36.5
40	795.8	782.0	768.1	751.8	761.1	772.0	787.3	792.9	30- 40	558.6	1519	57.7,57.7
50	539.3	525.1	507.5	489.4	493.7	507.1	526.2	537.9	40- 50	497.1	2016	76.6,76.6
60	296.2	285.1	269.3	254.5	256.0	266.7	283.8	295.7	50- 60	349.5	2365	89.9,89.9
70	114.2	108.5	99.55	93.09	91.78	96.46	105.4	113.0	60- 70	178.3	2544	96.7,96.7
80	40.68	38.40	34.73	31.33	31.31	33.19	36.68	39.94	70- 80	67.33	2611	99.2,99.2
90	1.437	0.4409	0.0730	0.0507	0.0963	0.0928	0.1278	1.426	80- 90	17.56	2628	99.9,99.9
100	0.0790	0.0803	0.0834	0.0886	0.1802	0.1731	0.1640	0.1559	90-100	0.1252	2629	99.9,99.9
110	0.1289	0.1325	0.1443	0.1507	0.2567	0.2562	0.2482	0.2342	100-110	0.1692	2629	99.9,99.9
120	0.2300	0.2282	0.2444	0.2525	0.3691	0.3656	0.3533	0.3367	110-120	0.2353	2629	99.9,99.9
130	0.3751	0.3642	0.3816	0.3902	0.5726	0.5854	0.5907	0.5374	120-130	0.3384	2629	99.9,99.9
140	0.5415	0.5437	0.5533	0.5557	0.7722	0.8312	0.8102	0.7693	130-140	0.4449	2630	100,100
150	0.6645	0.6803	0.6776	0.6830	0.9724	1.024	1.015	0.9867	140-150	0.4726	2630	100,100
160	0.8442	0.8240	0.7602	0.8393	1.149	1.180	1.120	1.120	150-160	0.4211	2631	100,100
170	0.9678	0.9847	0.9248	0.9443	1.194	1.220	1.167	1.122	160-170	0.2926	2631	100,100
180	1.176	1.185	1.123	1.124	1.176	1.191	1.132	1.111	170-180	0.1045	2631	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1781.5 lm

%lum = 67.7%

%lamp = 67.7%

Conical surface Flux(120deg): 2365.2 lm

%lum = 89.9%

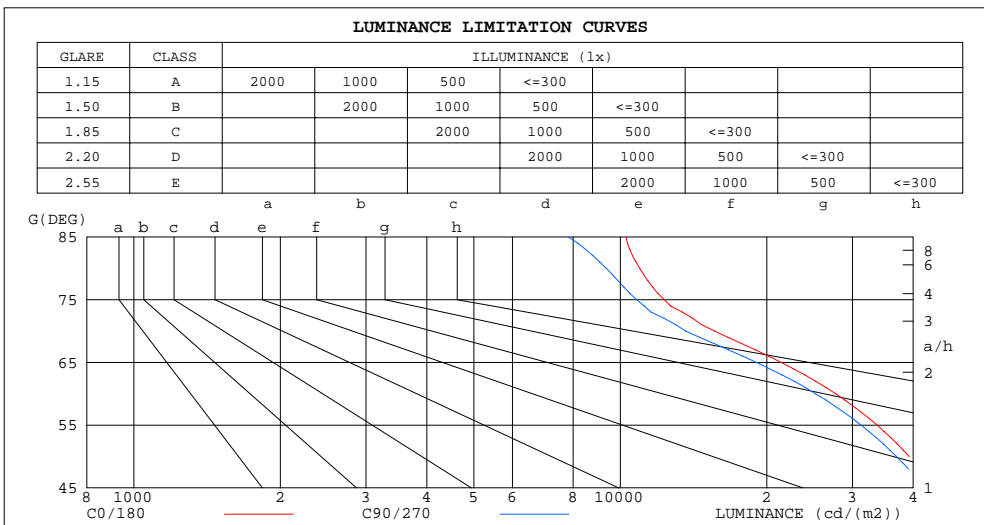
%lamp = 89.9%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01lx1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10273	7824
80	10961	9358
75	12318	10814
70	15626	13619
65	21414	19055
60	27722	25204
55	33731	31254
50	39255	36944
45	44254	42176

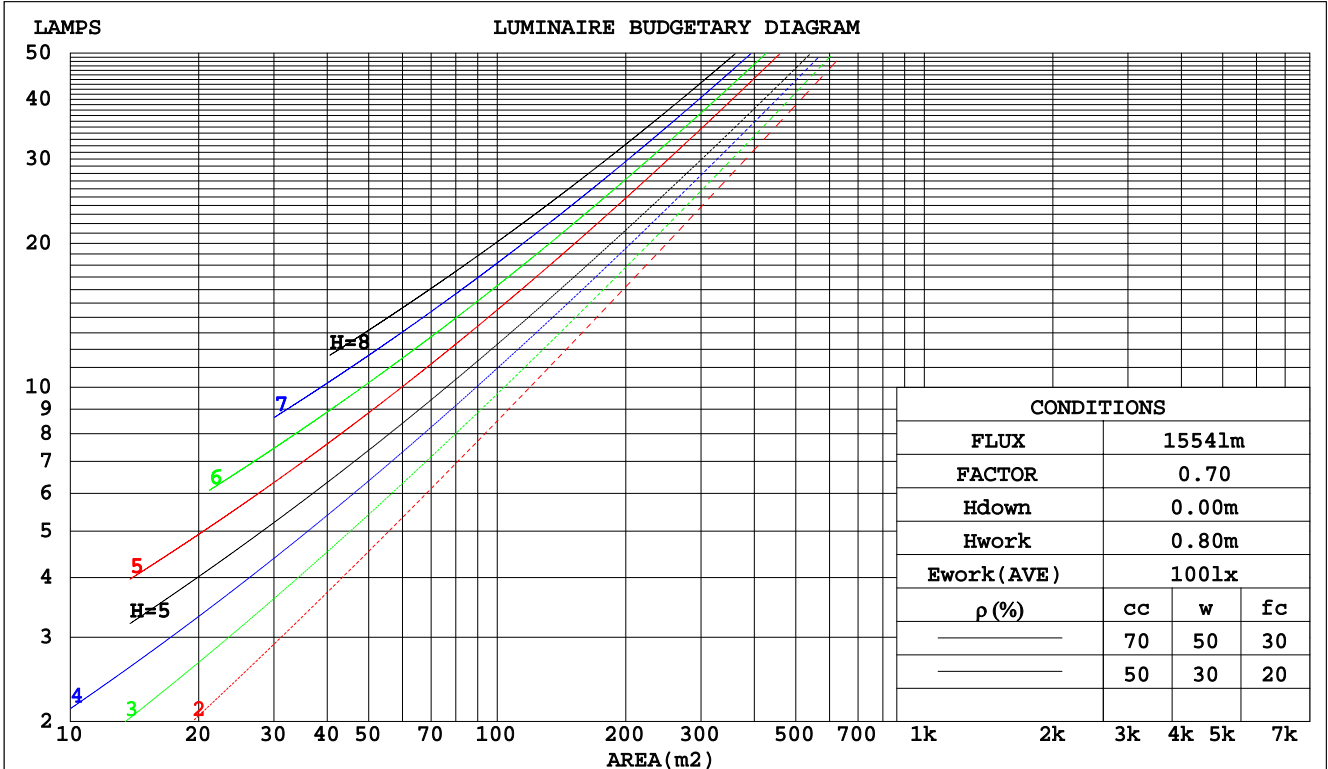
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			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	1.02	1.02	1.02	.00
1.0	1.07	1.03	1.00	1.05	1.01	.98	1.00	.98	.95	.97	.94	.92	.93	.91	.90	.88
2.0	.95	.90	.85	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.73	.70	.76	.72	.68	.66
4.0	.77	.69	.63	.75	.68	.63	.73	.67	.62	.71	.65	.61	.69	.64	.60	.58
5.0	.69	.61	.55	.68	.61	.55	.66	.60	.54	.64	.59	.54	.63	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.54	.48	.59	.53	.48	.57	.52	.48	.46
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.40	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.39	.35	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	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	.254	.144	.046	.247	.141	.045	.234	.134	.043	.222	.128	.041	.211	.122	.039	
2.0	.245	.134	.041	.239	.132	.041	.228	.127	.039	.217	.122	.038	.208	.117	.037	
3.0	.232	.123	.037	.227	.121	.037	.217	.117	.036	.207	.114	.035	.199	.110	.034	
4.0	.218	.113	.033	.213	.112	.033	.205	.109	.032	.197	.106	.032	.189	.103	.031	
5.0	.205	.104	.030	.201	.103	.030	.193	.100	.030	.186	.098	.029	.179	.096	.029	
6.0	.192	.096	.028	.189	.095	.027	.182	.093	.027	.175	.091	.027	.169	.089	.026	
7.0	.181	.089	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.160	.083	.024	
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.161	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.144	.073	.021	
10.0	.153	.073	.020	.150	.073	.020	.146	.071	.020	.141	.070	.020	.137	.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	.191	.191	.191	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.140	.152	.135	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.167	.133	.104	.143	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.158	.115	.080	.135	.099	.070	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.150	.101	.064	.129	.087	.055	.088	.061	.039	.051	.036	.023	.016	.012	.008	
5.0	.143	.090	.052	.123	.078	.045	.084	.055	.032	.049	.032	.019	.016	.010	.006	
6.0	.136	.082	.043	.117	.071	.037	.081	.050	.026	.047	.029	.016	.015	.010	.005	
7.0	.129	.075	.036	.111	.065	.032	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.124	.069	.031	.106	.060	.027	.074	.042	.019	.043	.025	.012	.014	.008	.004	
9.0	.118	.064	.027	.102	.056	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.113	.060	.024	.097	.052	.021	.067	.036	.015	.039	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.0lx1 lm										
NAME: LED downlight					TYPE: LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ETI Solid State Lighting (Zhuhai) Ltd					SUR.:			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	23.5	24.9	23.8	25.2	25.5	22.8	24.2	23.2	24.6	24.9
3H	24.2	25.5	24.6	25.8	26.2	23.5	24.7	23.8	25.1	25.4
4H	24.4	25.6	24.8	25.9	26.3	23.6	24.8	24.0	25.2	25.6
6H	24.5	25.6	24.9	26.0	26.4	23.8	24.9	24.2	25.2	25.6
8H	24.6	25.6	25.0	26.0	26.4	23.8	24.8	24.2	25.2	25.6
12H	24.6	25.6	25.0	26.0	26.4	23.8	24.8	24.2	25.2	25.6
4H 2H	23.7	24.9	24.1	25.3	25.7	23.0	24.2	23.4	24.6	25.0
3H	24.6	25.6	25.0	26.0	26.4	23.8	24.8	24.2	25.2	25.6
4H	24.8	25.7	25.3	26.2	26.6	24.1	24.9	24.5	25.4	25.8
6H	25.1	25.8	25.5	26.3	26.8	24.3	25.0	24.7	25.5	25.9
8H	25.1	25.9	25.6	26.3	26.8	24.3	25.0	24.8	25.5	25.9
12H	25.2	25.8	25.7	26.3	26.8	24.3	25.0	24.8	25.5	25.9
8H 4H	24.9	25.6	25.4	26.1	26.5	24.1	24.8	24.6	25.3	25.7
6H	25.2	25.8	25.7	26.3	26.8	24.3	24.9	24.8	25.4	25.9
8H	25.3	25.8	25.8	26.4	26.8	24.4	25.0	24.9	25.5	26.0
12H	25.4	25.9	25.9	26.4	27.0	24.5	25.0	25.0	25.5	26.0
12H 4H	24.9	25.5	25.4	26.0	26.5	24.1	24.7	24.6	25.2	25.7
6H	25.2	25.7	25.7	26.2	26.7	24.3	24.9	24.9	25.3	25.9
8H	25.3	25.8	25.8	26.3	26.9	24.4	24.9	25.0	25.4	26.0
CIE190: 2010										

CIE190: 2010
Area: 0.0213716 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 46.8%
Test Distance: 2.500m [K=1.0306]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:

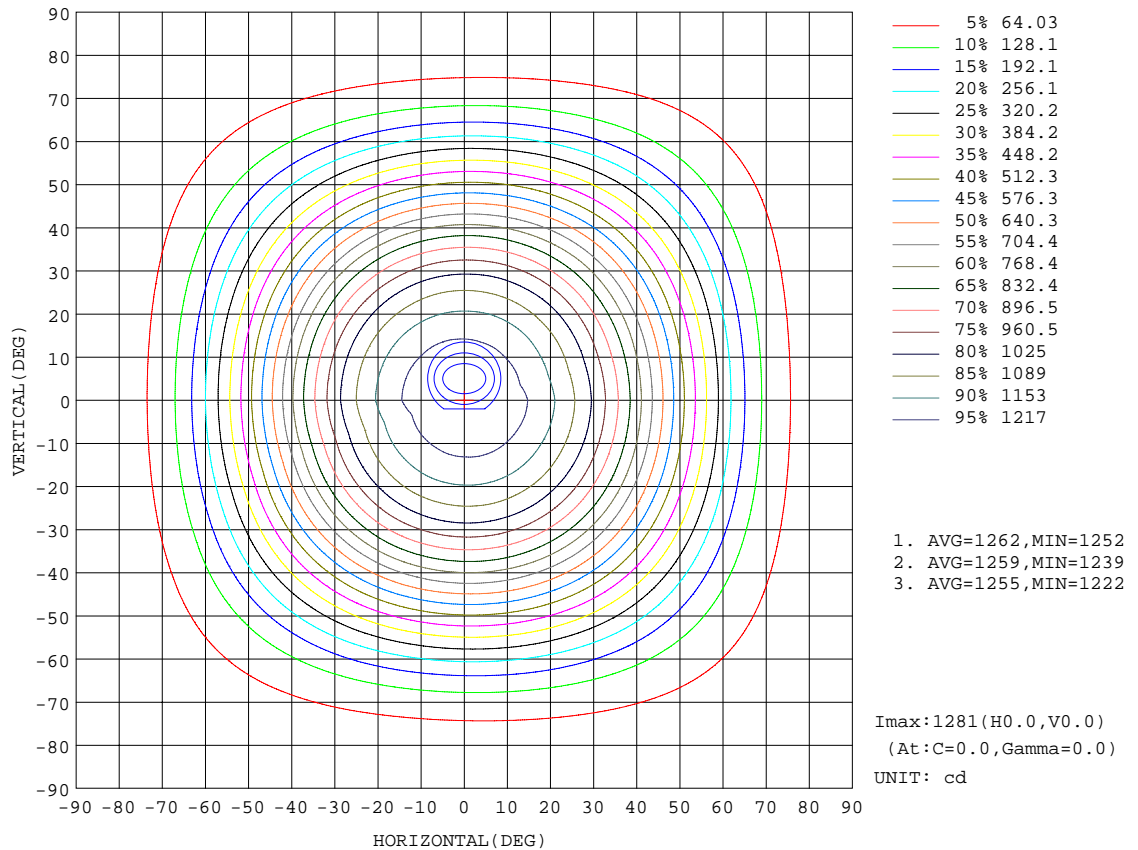
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	54	48	64	54	48	63	54	48	42
0.80	75	65	59	74	65	58	72	64	58	52
1.00	83	74	68	82	73	67	80	74	67	61
1.25	90	81	75	88	80	75	86	79	74	68
1.50	94	86	80	93	85	80	90	84	79	72
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	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	101	99	90
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: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.0lx1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:



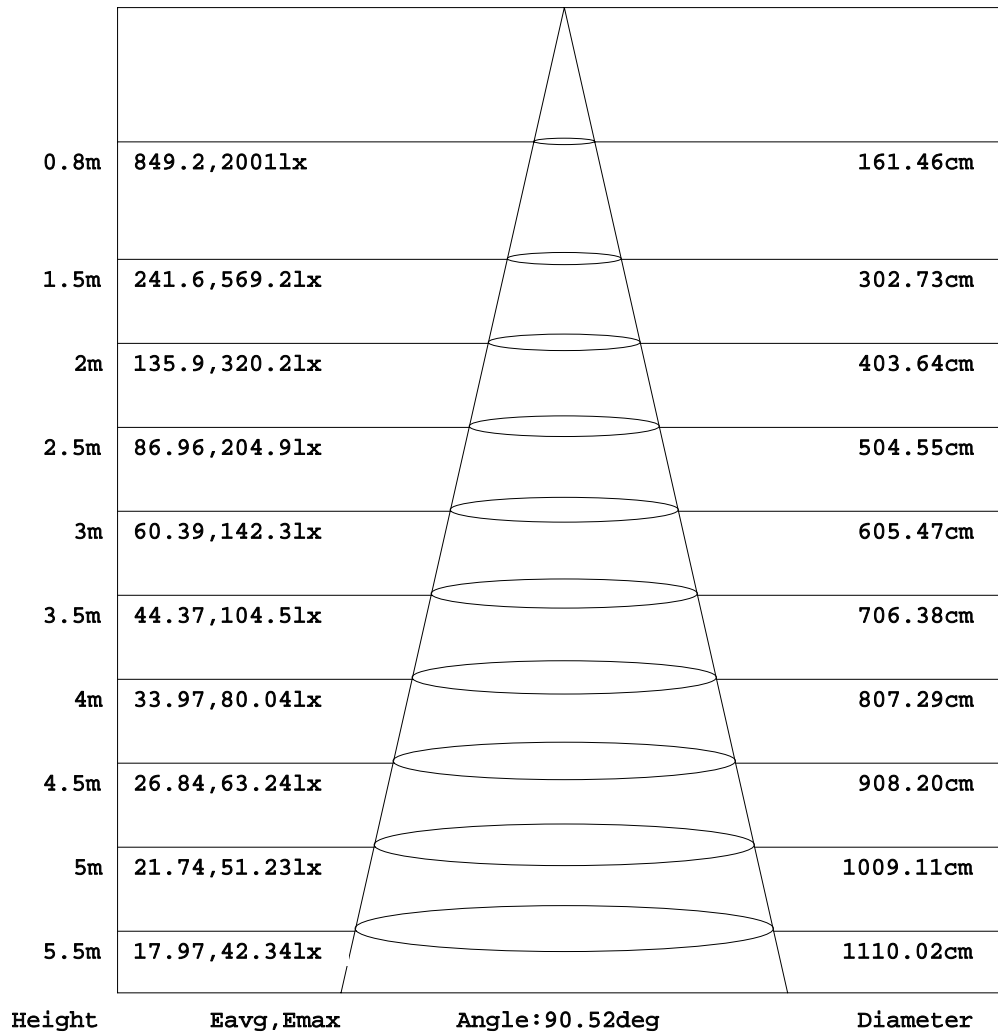
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

AAI Figure

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:

Flux out:1831 lm



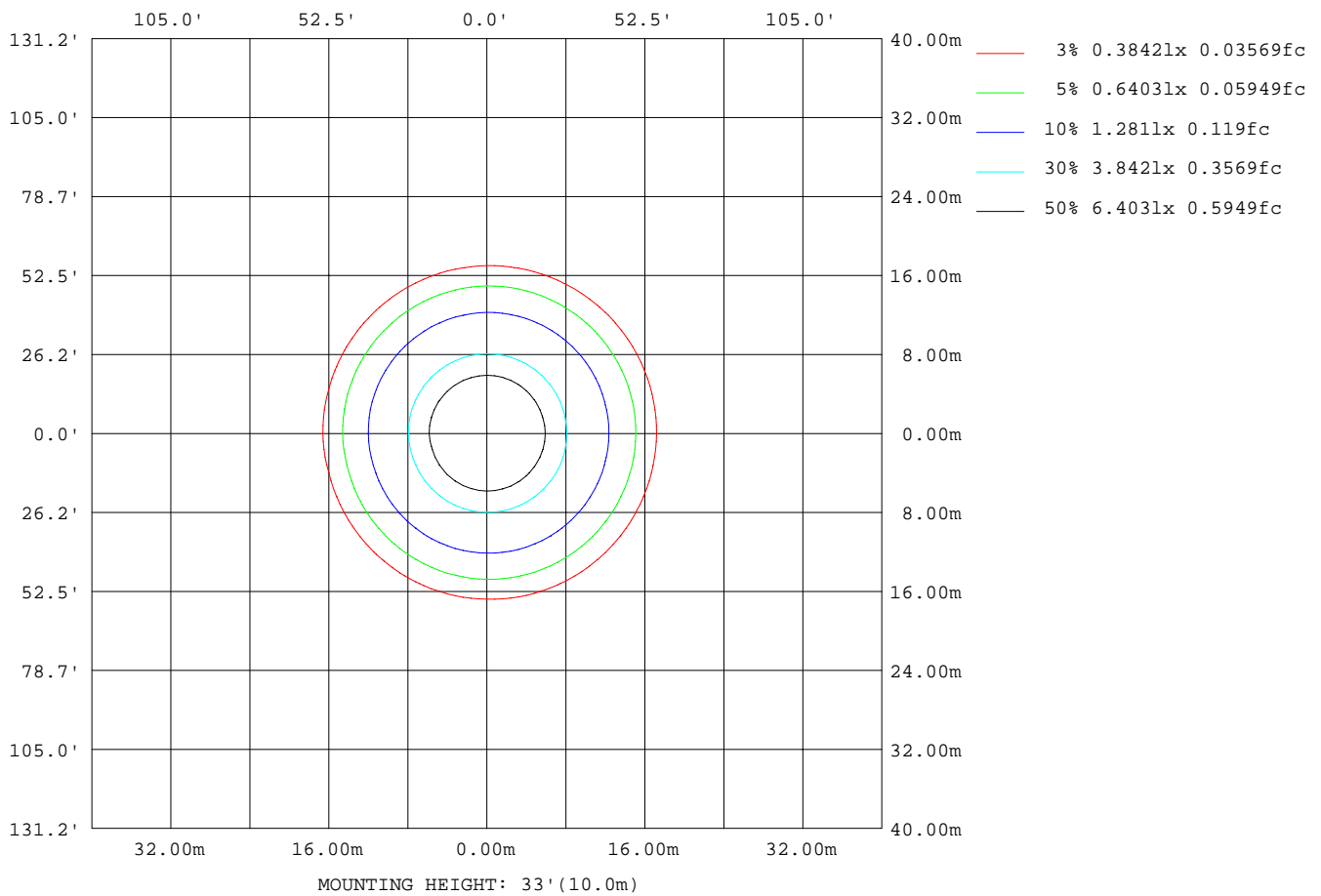
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:

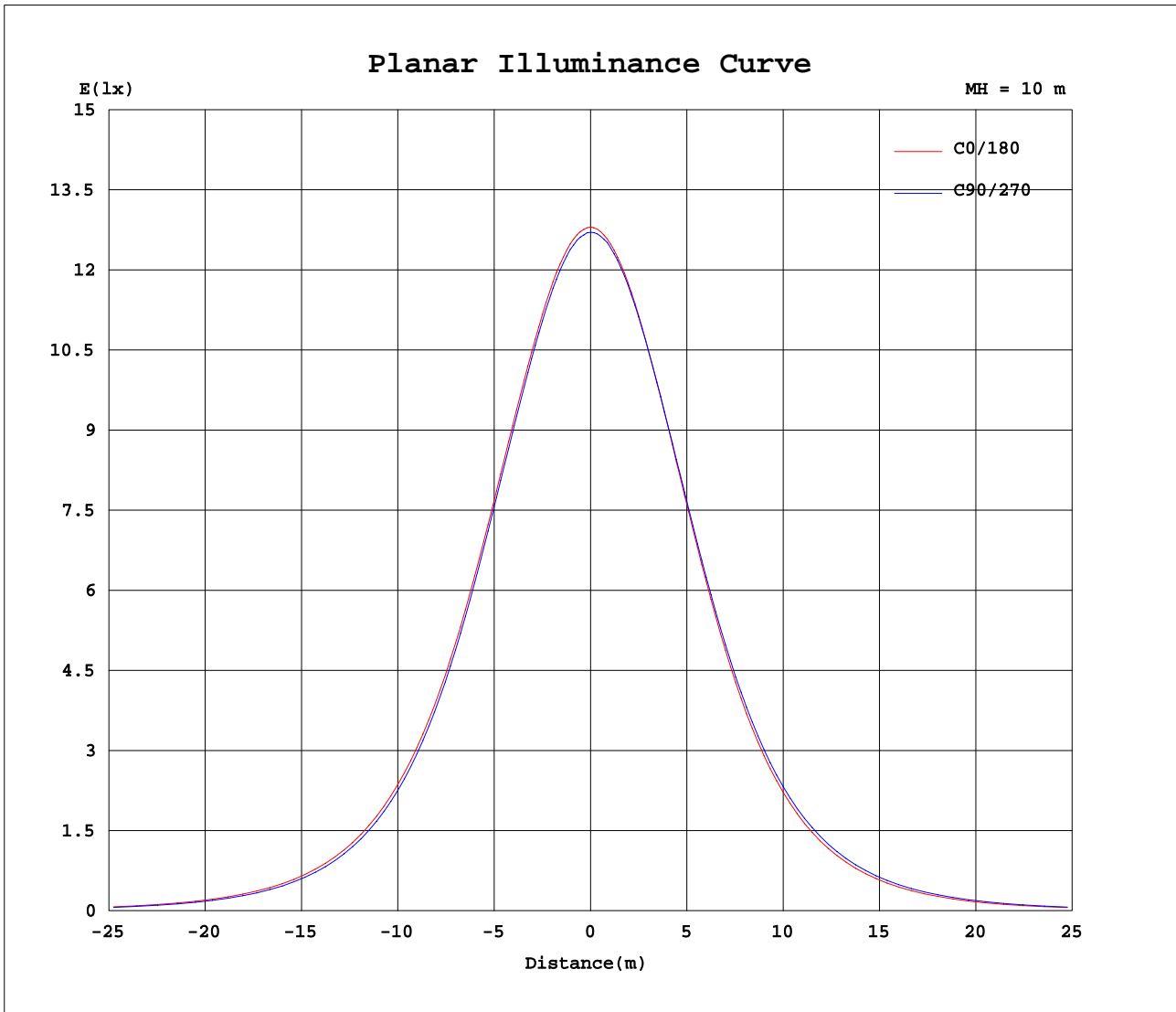
AvgL	cd/m2
L_0~180(65)av	19562
L_0~180(75)av	11167
L_0~180(85)av	8308
L_90~270(65)av	19596
L_90~270(75)av	11077
L_90~270(85)av	8202
L_45(65)av	19535
L_45(75)av	11085
L_45(85)av	8261

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	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	1281	1279	1277	1275	1273	1271	1271	1269	1268	1268	1267	1266	1281	1279	1277	1275	1273	1271	1271
5	1272	1270	1269	1266	1264	1263	1261	1260	1260	1258	1257	1257	1272	1271	1269	1268	1267	1266	1266
10	1251	1248	1245	1244	1242	1240	1238	1238	1235	1235	1234	1235	1250	1249	1248	1248	1246	1246	1245
15	1214	1213	1209	1207	1205	1203	1201	1199	1199	1198	1197	1196	1212	1211	1212	1211	1211	1211	1210
20	1164	1161	1157	1156	1154	1151	1149	1147	1146	1144	1144	1143	1160	1159	1159	1160	1160	1159	1161
25	1099	1095	1092	1090	1087	1085	1082	1079	1078	1075	1074	1073	1089	1090	1091	1091	1092	1095	1096
30	1015	1012	1008	1005	1003	1000	996	992	989	986	984	982	998	1000	1003	1003	1007	1009	1011
35	912	908	904	900	898	894	889	884	881	876	874	872	888	889	893	895	899	903	907
40	796	791	786	782	778	773	768	762	758	752	749	746	761	764	767	772	777	782	787
45	669	664	660	655	650	645	637	632	627	620	616	614	627	629	634	640	645	651	657
50	539	535	531	525	520	514	508	501	495	489	485	483	494	497	502	507	514	520	526
55	413	410	405	401	395	390	383	377	372	366	362	360	369	372	376	381	388	394	400
60	296	293	289	285	280	275	269	264	259	255	251	249	256	258	262	267	272	278	284
65	193	191	188	185	181	177	172	167	164	160	158	156	160	162	165	168	173	178	182
70	114	113	110	108	105	103	99.5	96.7	93.8	93.1	91.5	90.5	91.8	92.8	94.4	96.5	99.3	102	105
75	68.1	67.3	66.1	64.8	63.3	61.6	59.8	58.0	56.7	55.4	54.4	53.9	55.4	55.9	56.7	57.8	59.4	60.9	62.7
80	40.7	40.1	39.3	38.4	37.2	36.0	34.7	33.3	32.4	31.3	30.7	30.1	31.3	31.7	32.4	33.2	34.3	35.4	36.7
85	19.1	18.7	18.2	17.4	16.5	15.6	14.6	13.6	12.8	12.0	11.5	11.1	11.8	12.2	12.7	13.3	14.2	15.0	16.0
90	1.44	1.13	0.75	0.44	0.20	0.12	0.07	0.05	0.05	0.05	0.05	0.05	0.10	0.09	0.09	0.09	0.09	0.09	0.13
95	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.13	0.13	0.13	0.13	0.13	0.12	0.12
100	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.18	0.18	0.17	0.17	0.17	0.17	0.16
105	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.11	0.23	0.23	0.22	0.22	0.22	0.22	0.21
110	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.14	0.26	0.25	0.26	0.26	0.25	0.25	0.25
115	0.17	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.30	0.30	0.30	0.30	0.30	0.29	0.29
120	0.23	0.22	0.22	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.24	0.37	0.36	0.36	0.37	0.36	0.36	0.35
125	0.30	0.29	0.29	0.29	0.31	0.30	0.31	0.31	0.31	0.32	0.32	0.31	0.46	0.46	0.46	0.46	0.46	0.46	0.45
130	0.38	0.37	0.37	0.36	0.39	0.38	0.38	0.39	0.39	0.39	0.39	0.40	0.39	0.57	0.58	0.58	0.59	0.59	0.59
135	0.46	0.46	0.46	0.44	0.47	0.48	0.47	0.47	0.47	0.47	0.48	0.48	0.68	0.69	0.70	0.72	0.72	0.72	0.72
140	0.54	0.54	0.54	0.54	0.55	0.57	0.55	0.55	0.55	0.56	0.54	0.55	0.77	0.79	0.80	0.83	0.84	0.83	0.81
145	0.60	0.61	0.61	0.60	0.63	0.63	0.62	0.63	0.63	0.61	0.60	0.60	0.88	0.89	0.91	0.93	0.95	0.94	0.93
150	0.66	0.69	0.69	0.68	0.68	0.69	0.68	0.69	0.68	0.68	0.66	0.66	0.97	0.98	0.98	1.02	1.03	1.03	1.02
155	0.76	0.79	0.80	0.76	0.76	0.77	0.74	0.76	0.77	0.76	0.78	0.73	1.05	1.05	1.09	1.09	1.10	1.10	1.06
160	0.84	0.86	0.86	0.82	0.79	0.79	0.76	0.82	0.82	0.84	0.83	0.82	1.15	1.15	1.15	1.18	1.16	1.15	1.12
165	0.90	0.93	0.93	0.92	0.88	0.88	0.86	0.89	0.91	0.92	0.90	0.89	1.19	1.19	1.20	1.22	1.23	1.21	1.18
170	0.97	0.99	0.99	0.98	0.92	0.93	0.92	0.93	0.95	0.94	0.94	0.95	1.19	1.20	1.21	1.22	1.22	1.21	1.17
175	1.08	1.11	1.11	1.10	1.04	1.02	1.00	1.02	1.04	1.04	1.05	1.06	1.21	1.21	1.22	1.22	1.21	1.21	1.16
180	1.18	1.20	1.19	1.18	1.16	1.14	1.12	1.08	1.10	1.12	1.14	1.16	1.18	1.18	1.20	1.19	1.18	1.15	1.13

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2549A P:29.870W PF:0.9764 Freq:60.00Hz Lamp Flux:2631.01x1 lm		
NAME: LED downlight	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETI Solid State Lighting (Zhuhai) Ltd	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1269	1268	1268	1267	1266														
5	1264	1262	1262	1262	1260														
10	1243	1243	1241	1240	1239														
15	1211	1210	1207	1206	1204														
20	1160	1159	1159	1157	1156														
25	1096	1095	1094	1093	1090														
30	1013	1012	1012	1010	1009														
35	910	911	910	909	908														
40	790	792	793	793	791														
45	662	664	667	667	667														
50	531	535	538	539	539														
55	405	408	412	414	414														
60	289	292	296	297	298														
65	186	189	192	194	195														
70	108	111	113	114	115														
75	64.5	65.8	67.2	68.0	68.5														
80	37.9	38.9	39.9	40.6	41.1														
85	17.2	18.0	18.8	19.3	19.7														
90	0.43	0.85	1.43	1.77	2.01														
95	0.12	0.12	0.11	0.11	0.11														
100	0.16	0.16	0.16	0.15	0.15														
105	0.21	0.21	0.20	0.20	0.20														
110	0.24	0.24	0.23	0.23	0.22														
115	0.29	0.28	0.28	0.27	0.26														
120	0.35	0.34	0.34	0.33	0.33														
125	0.45	0.44	0.42	0.41	0.42														
130	0.58	0.56	0.54	0.54	0.54														
135	0.70	0.67	0.65	0.65	0.65														
140	0.78	0.78	0.77	0.76	0.75														
145	0.89	0.90	0.88	0.86	0.86														
150	1.00	0.99	0.99	0.97	0.95														
155	1.06	1.06	1.05	1.08	1.05														
160	1.12	1.13	1.12	1.16	1.13														
165	1.17	1.17	1.16	1.18	1.18														
170	1.16	1.16	1.12	1.16	1.17														
175	1.14	1.16	1.13	1.17	1.18														
180	1.13	1.09	1.11	1.12	1.13														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 31 May 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.8%
 Test Distance: 2.500m [K=1.0306]
 Remarks: