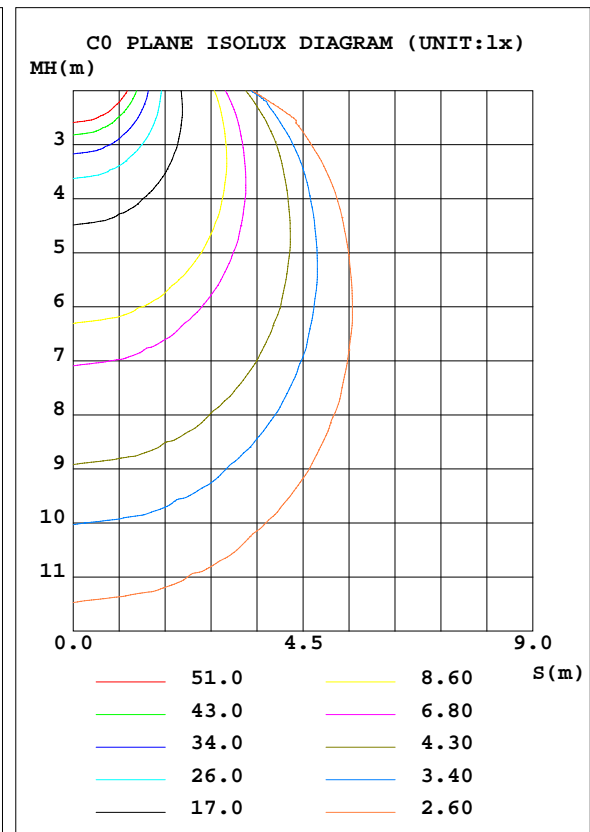
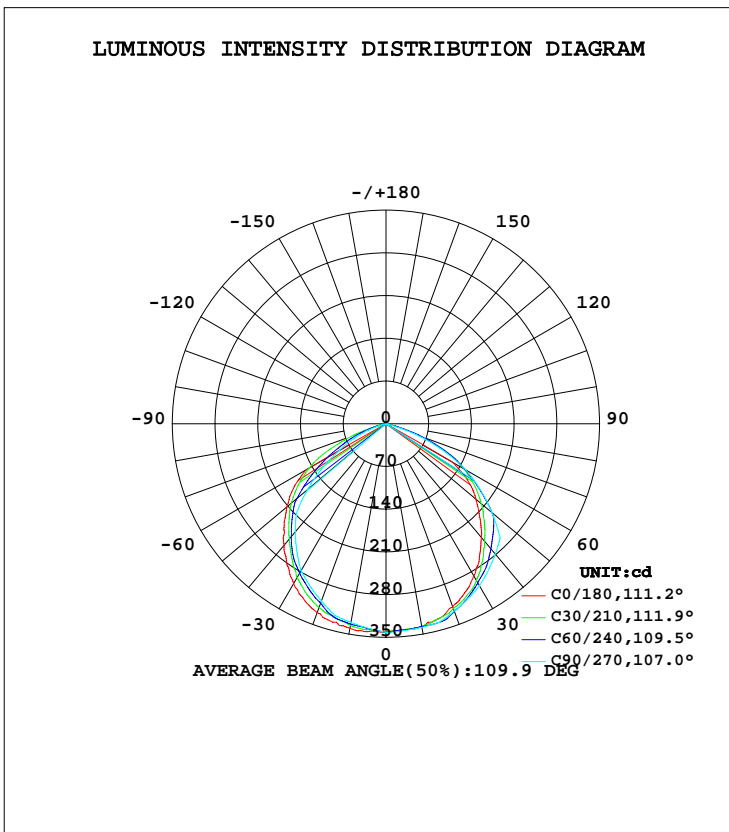


## LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	6500K	Imax(cd)	342.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)	10.1	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	862.71	η UP, DN(C0-180)	0.0, 53.4
NOMINAL FLUX(lm)	862.708	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 46.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.1	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity:65.0%  
 Test Distance:10.110m [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
5	339.1	338.8	340.4	339.6	342.1	337.4	336.4	335.9	0- 5	8.113	8.113	0.94,0.94
10	337.6	337.9	338.6	339.9	340.4	334.6	330.7	330.6	5- 10	24.14	32.25	3.74,3.74
15	330.5	333.4	336.9	335.7	336.6	326.3	325.0	324.4	10- 15	39.56	71.81	8.32,8.32
20	319.2	327.8	326.8	332.7	329.4	319.5	309.4	316.2	15- 20	53.84	125.7	14.6,14.6
25	305.7	313.5	316.8	321.8	317.8	304.2	293.8	299.5	20- 25	66.08	191.7	22.2,22.2
30	288.1	298.0	306.7	306.0	302.6	286.4	278.3	279.5	25- 30	76.09	267.8	31,31
35	266.9	280.3	292.6	291.0	282.5	267.4	254.7	257.5	30- 35	83.41	351.2	40.7,40.7
40	243.4	260.4	278.6	272.9	259.6	246.6	231.1	233.1	35- 40	87.64	438.9	50.9,50.9
45	217.6	237.0	264.5	250.9	236.1	220.8	207.6	206.3	40- 45	89.16	528.0	61.2,61.2
50	192.4	212.8	226.6	227.1	211.6	195.8	168.0	176.8	45- 50	87.30	615.3	71.3,71.3
55	164.6	188.5	188.8	202.6	185.3	169.5	128.5	147.1	50- 55	80.86	696.2	80.7,80.7
60	126.2	153.1	150.9	165.3	152.2	130.9	88.90	107.1	55- 60	70.20	766.4	88.8,88.8
65	0	116.4	102.2	130.5	0	91.65	59.80	67.08	60- 65	49.47	815.9	94.6,94.6
70	0	76.21	53.60	90.83	0	56.53	30.71	34.50	65- 70	29.52	845.4	98,98
75	0	34.25	4.941	45.30	0	26.62	1.610	14.96	70- 75	13.97	859.4	99.6,99.6
80	0	1.757	0	6.458	0	1.262	0	0.6925	75- 80	3.148	862.5	100,100
85	0	0	0	0	0	0	0	0	80- 85	0.1907	862.7	100,100
90	0	0	0	0	0	0	0	0	85- 90	0	862.7	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

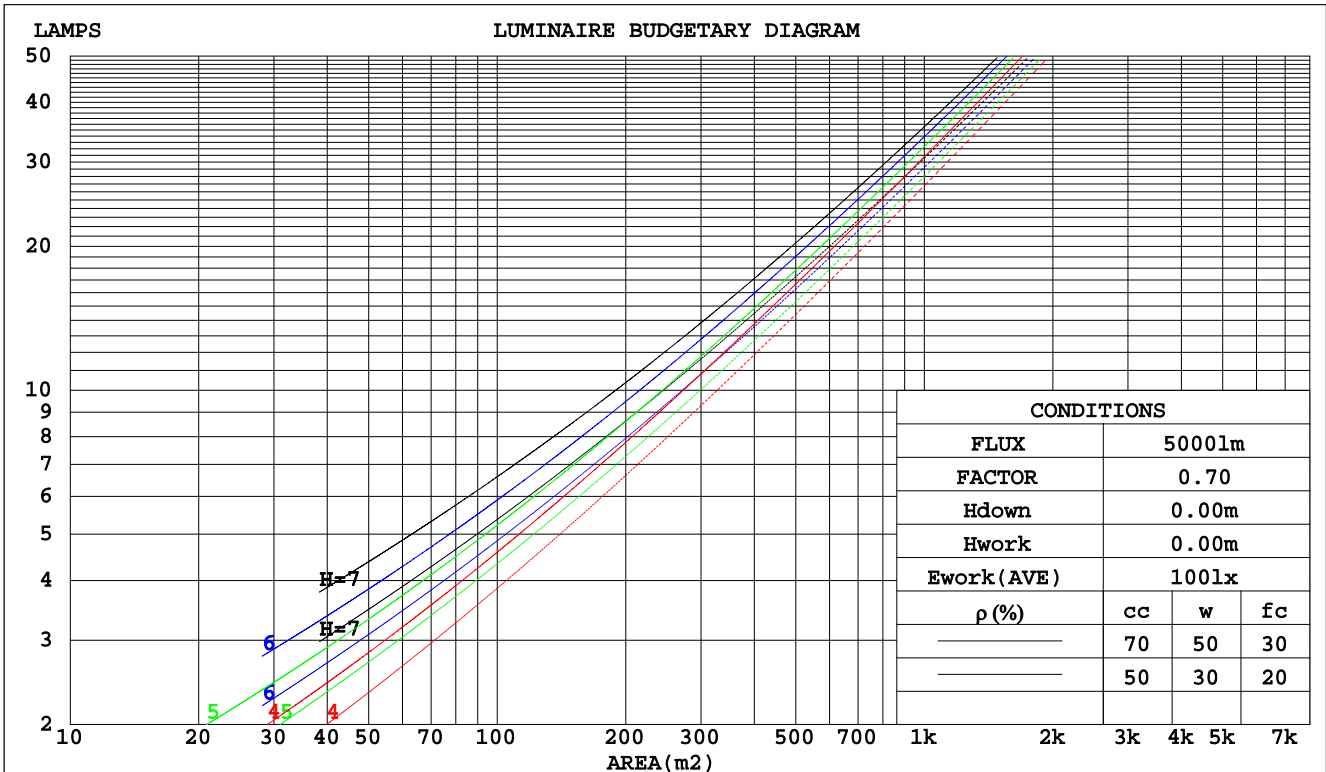
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity:65.0%  
 Test Distance:10.110m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	20%			20%			20%			20%			20%			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	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.89	.88
2.0	.94	.88	.83	.93	.87	.82	.89	.84	.80	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.76	.70	.82	.75	.70	.79	.73	.69	.77	.72	.67	.74	.70	.66	.64
4.0	.75	.66	.60	.73	.66	.60	.71	.64	.59	.69	.63	.58	.66	.62	.58	.55
5.0	.67	.58	.52	.66	.58	.52	.64	.57	.51	.62	.56	.51	.60	.55	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.58	.50	.45	.56	.50	.45	.54	.49	.44	.42
7.0	.55	.46	.40	.54	.46	.40	.52	.45	.40	.51	.45	.40	.50	.44	.39	.38
8.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.34
9.0	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10.0	.42	.35	.30	.42	.34	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity: 65.0%  
 Test Distance: 10.110m [K=1.0000]  
 Remarks:

### WEC AND CCEC

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	.258	.147	.046	.251	.143	.045	.238	.137	.044	.226	.130	.042	.215	.125	.040	
2.0	.254	.139	.043	.248	.137	.042	.237	.132	.041	.226	.127	.040	.217	.123	.039	
3.0	.242	.129	.039	.237	.127	.038	.227	.123	.037	.218	.119	.037	.209	.116	.036	
4.0	.228	.119	.035	.224	.117	.035	.215	.114	.034	.207	.111	.033	.199	.108	.033	
5.0	.214	.109	.032	.210	.108	.031	.202	.105	.031	.195	.103	.031	.188	.101	.030	
6.0	.201	.101	.029	.198	.100	.029	.191	.098	.028	.184	.096	.028	.178	.094	.028	
7.0	.189	.093	.026	.186	.093	.026	.179	.091	.026	.173	.089	.026	.168	.087	.026	
8.0	.178	.087	.024	.175	.086	.024	.169	.085	.024	.164	.083	.024	.159	.082	.024	
9.0	.168	.081	.023	.165	.080	.023	.160	.079	.022	.155	.078	.022	.150	.076	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.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																
1.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.177	.157	.138	.151	.134	.119	.103	.092	.082	.060	.054	.048	.019	.017	.015	
3.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
4.0	.159	.114	.078	.136	.098	.068	.094	.068	.048	.054	.040	.028	.017	.013	.009	
5.0	.152	.101	.061	.130	.087	.053	.090	.061	.038	.052	.035	.022	.017	.012	.007	
6.0	.145	.090	.050	.124	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
7.0	.138	.082	.041	.119	.071	.036	.082	.049	.025	.047	.029	.015	.015	.010	.005	
8.0	.132	.075	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
9.0	.126	.069	.030	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
10.0	.120	.064	.026	.103	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity:65.0%  
 Test Distance:10.110m [K=1.0000]  
 Remarks:

### Uncorrected UGR Table

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	16.5	17.9	16.8	18.1	18.3	17.4	18.9	17.7	19.1	19.3
3H	16.4	17.7	16.7	17.9	18.2	18.1	19.4	18.4	19.7	19.9
4H	16.3	17.5	16.6	17.8	18.0	18.1	19.3	18.4	19.6	19.8
6H	16.2	17.4	16.5	17.6	17.9	18.0	19.1	18.3	19.4	19.7
8H	16.2	17.3	16.5	17.5	17.8	17.9	19.0	18.3	19.3	19.6
12H	16.1	17.2	16.4	17.5	17.8	17.9	18.9	18.2	19.2	19.5
4H 2H	17.2	18.5	17.5	18.7	19.0	17.9	19.2	18.2	19.4	19.7
3H	17.4	18.5	17.8	18.8	19.1	18.7	19.8	19.1	20.1	20.4
4H	17.4	18.3	17.7	18.6	19.0	18.7	19.7	19.1	20.0	20.3
6H	17.3	18.1	17.7	18.5	18.8	18.6	19.5	19.0	19.8	20.2
8H	17.2	18.0	17.6	18.4	18.7	18.6	19.4	19.0	19.7	20.1
12H	17.2	17.9	17.6	18.3	18.7	18.5	19.2	19.0	19.6	20.0
8H 4H	17.4	18.2	17.9	18.6	19.0	18.7	19.5	19.1	19.9	20.2
6H	17.4	18.0	17.8	18.4	18.8	18.6	19.3	19.1	19.7	20.1
8H	17.3	17.9	17.8	18.3	18.8	18.6	19.1	19.0	19.6	20.0
12H	17.3	17.8	17.8	18.2	18.7	18.5	19.0	19.0	19.5	19.9
12H 4H	17.4	18.1	17.8	18.5	18.9	18.7	19.4	19.1	19.8	20.2
6H	17.3	17.9	17.8	18.3	18.8	18.6	19.1	19.0	19.6	20.0
8H	17.3	17.8	17.8	18.2	18.7	18.5	19.0	19.0	19.5	19.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.3 / - 0.4				
1.5H	+ 0.7 / - 1.0					+ 0.3 / - 0.6				
2.0H	+ 0.5 / - 1.9					+ 0.6 / - 0.8				

CIE Pub.117 Corrected 862.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.5)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity:65.0%  
 Test Distance:10.110m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

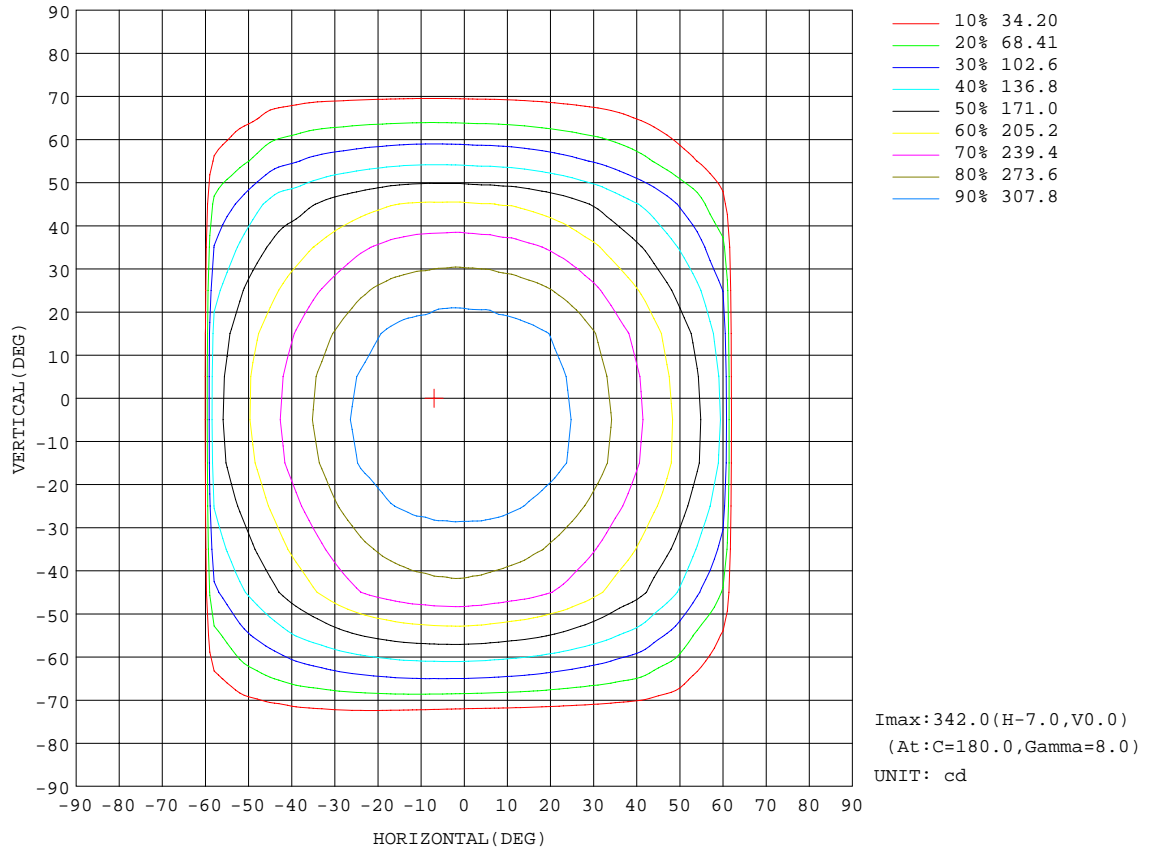
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	43	60	49	42	58	48	42	36
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	70	63	79	69	63	77	71	63	56
1.25	87	78	72	86	77	71	83	76	70	64
1.50	92	83	77	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	94	88	84	76
2.50	102	95	90	100	94	89	97	92	87	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	109	104	100	106	102	98	102	99	96	87
5.00	111	106	103	108	105	101	104	101	98	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity:65.0%  
 Test Distance:10.110m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



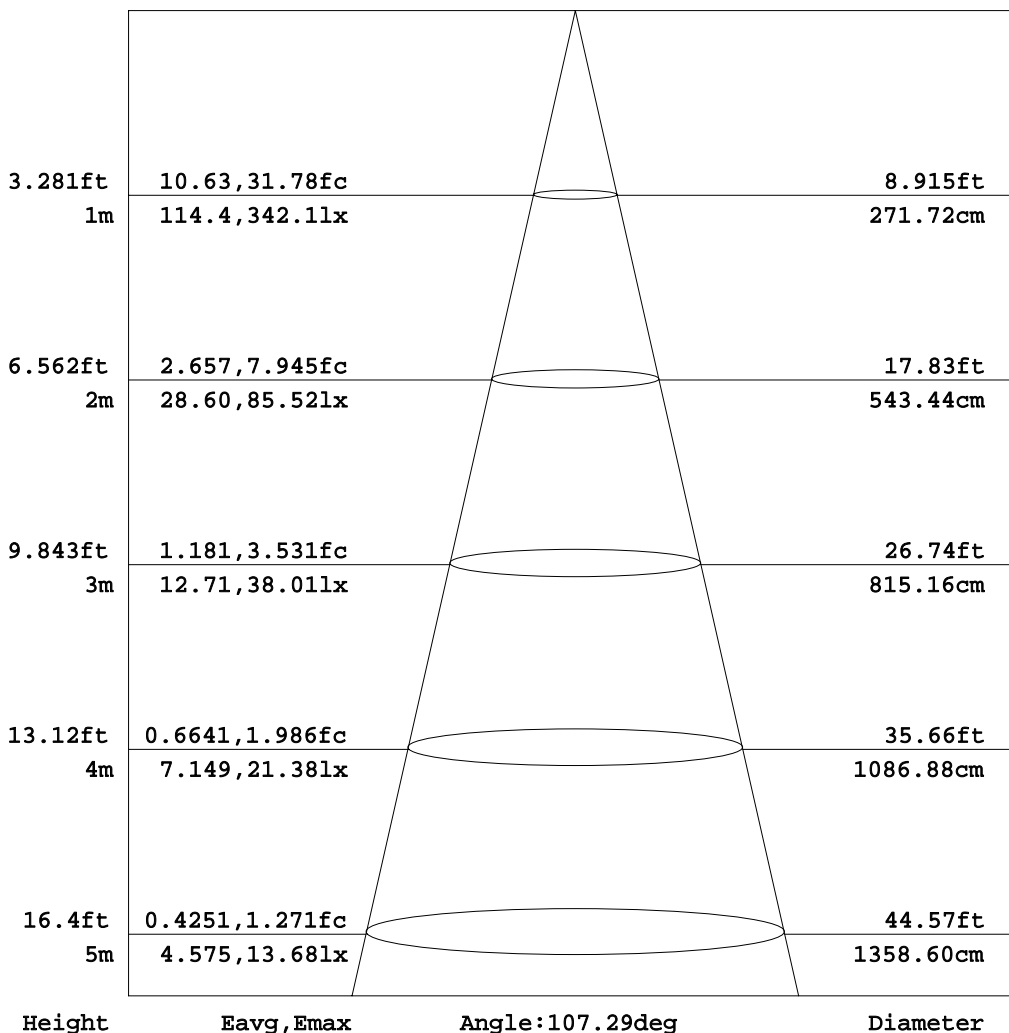
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity: 65.0%  
 Test Distance: 10.110m [K=1.0000]  
 Remarks:

### AAI Figure

NAME: 10W SMD LED FLOODLIGHT	TYPE:FLOODED-PL	WEIGHT:
MODEL NO.:BT61-01002;BT61-01032;BT61-01052;BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:680.7 lm



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

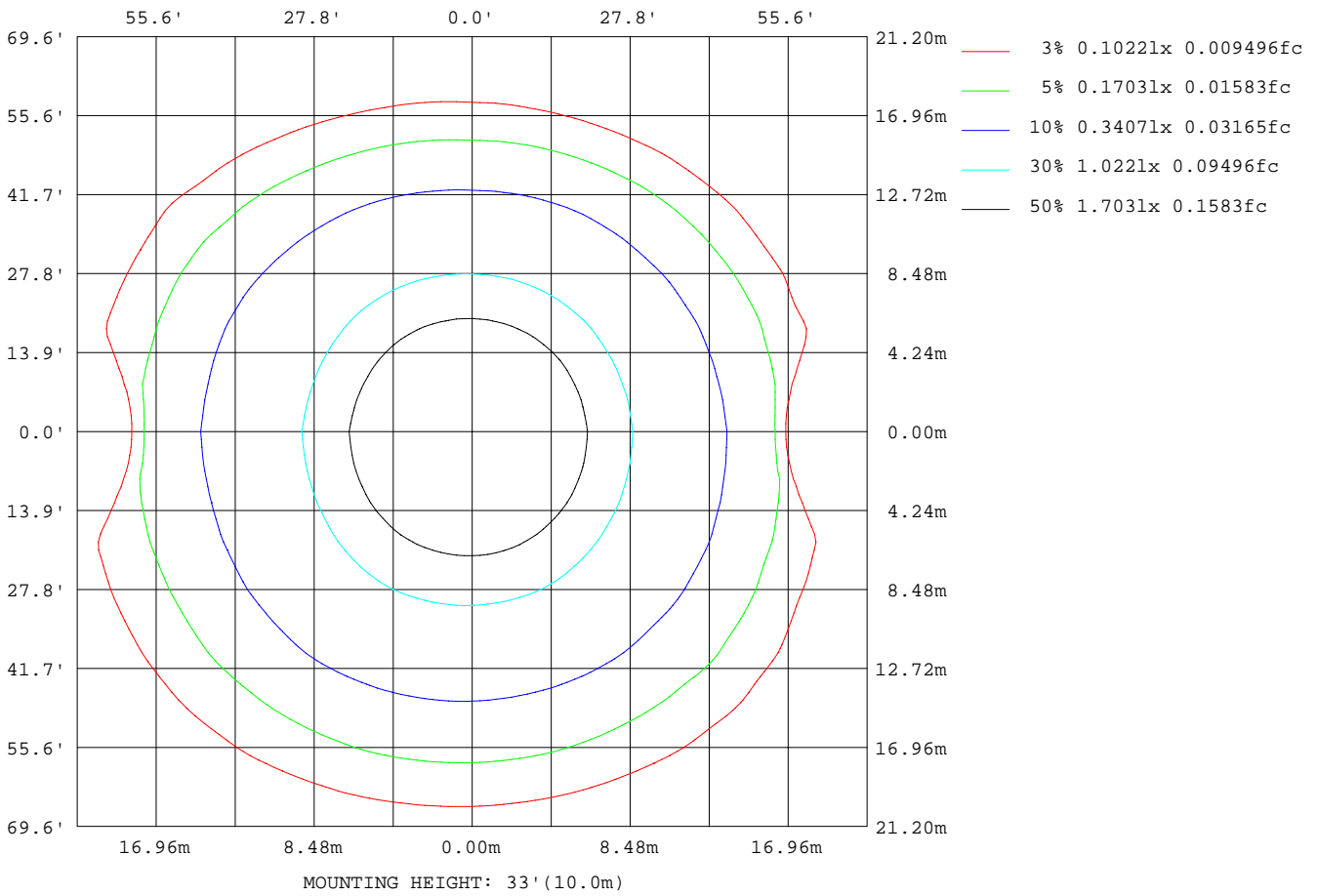
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
 Humidity:65.0%  
 Test Distance:10.110m [K=1.0000]  
 Remarks:



## ISOLUX DIAGRAM

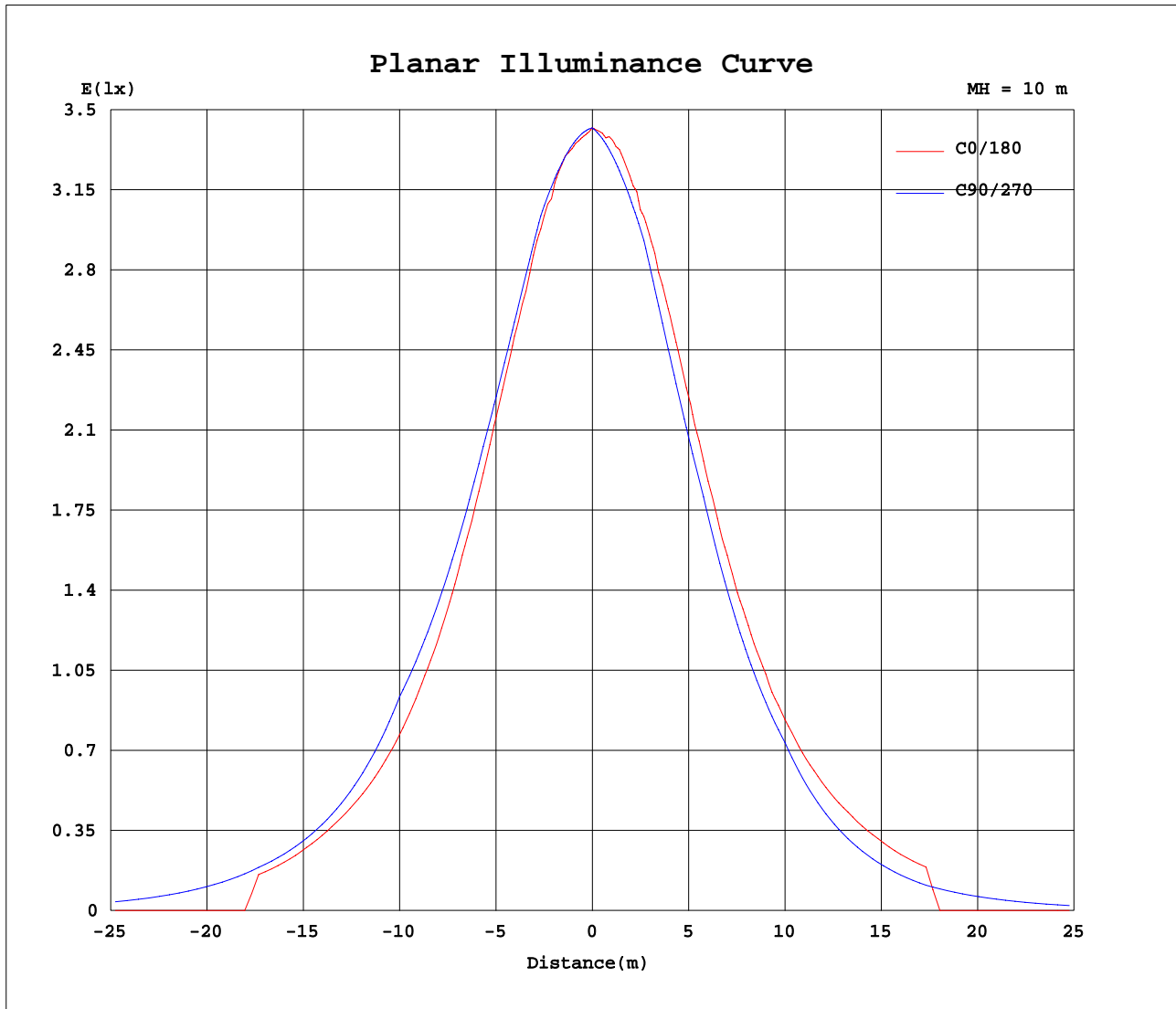
NAME: 10W SMD LED FLOODLIGHT	TYPE: FLOODED-PL	WEIGHT:
MODEL NO.: BT61-01002; BT61-01032; BT61-01052; BT61-01092	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



**C Range:** 0 - 360DEG  
**C Interval:** 5.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3DEG  
**Operators:**  
**Test Date:** 2017-08-03

**γ Range:** 0 - 90DEG  
**γ Interval:** 0.5DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
**Humidity:** 65.0%  
**Test Distance:** 10.110m [K=1.0000]  
**Remarks:**

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-08-03

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.266  
Humidity: 65.0%  
Test Distance: 10.110m [K=1.0000]  
Remarks: