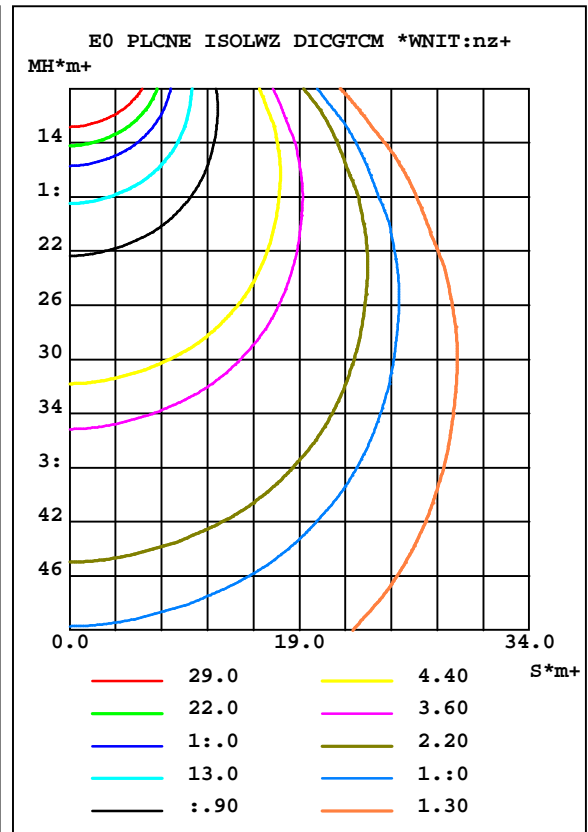
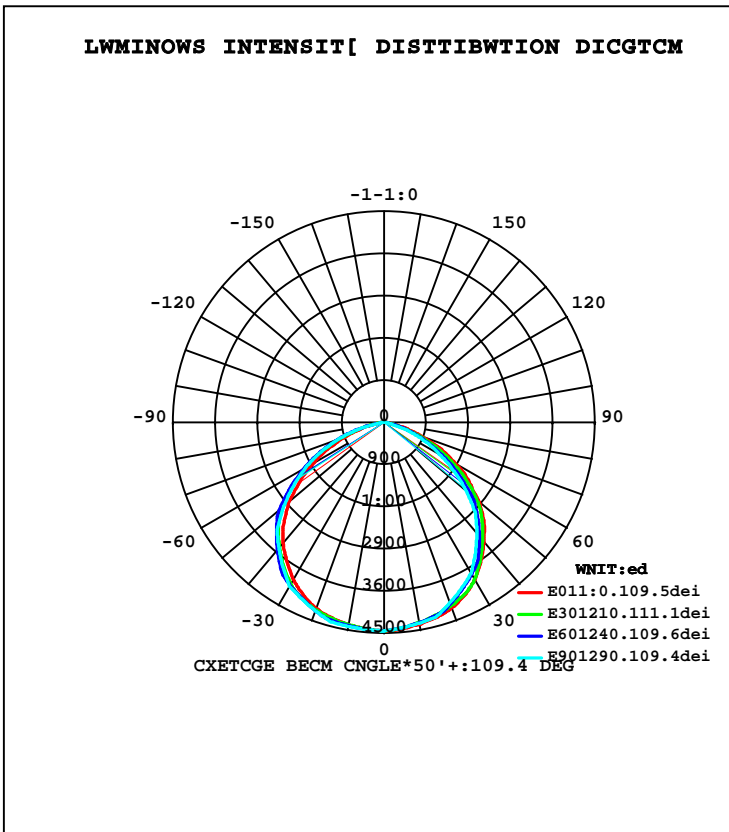


## PHOTOMETRIC TEST REPORT

Teuv:W:220.4X I:0.6399C P:139.2W PF:0.9:93 Lcmr Fwz:11:29.5z1 nm		
150W SMD LED FLOODLIGHT	T[PE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SETICL No.:1
MFT.:	SWT.:	PTOTEETION CNGL:

DCTC OF LCMP		PHOTOMETTIE DCTC			Ehh: :4.9: nm1W
MODEL	6500k	Imcz*ed+		( )	
NOMINCL POWET*W+		LOT*'+		( )	
TCTED XOLTCEGE*X+		TOTCL FLWZ*nm+	$\eta$	( )	
NOMINCL FLWZ*nm+		EIE ELCSS	$\eta$	( )	
LCMPS INSIDE		$\eta$ wr*'+			
TEST XOLTCEGE*X+		$\eta$ dowp*'+			

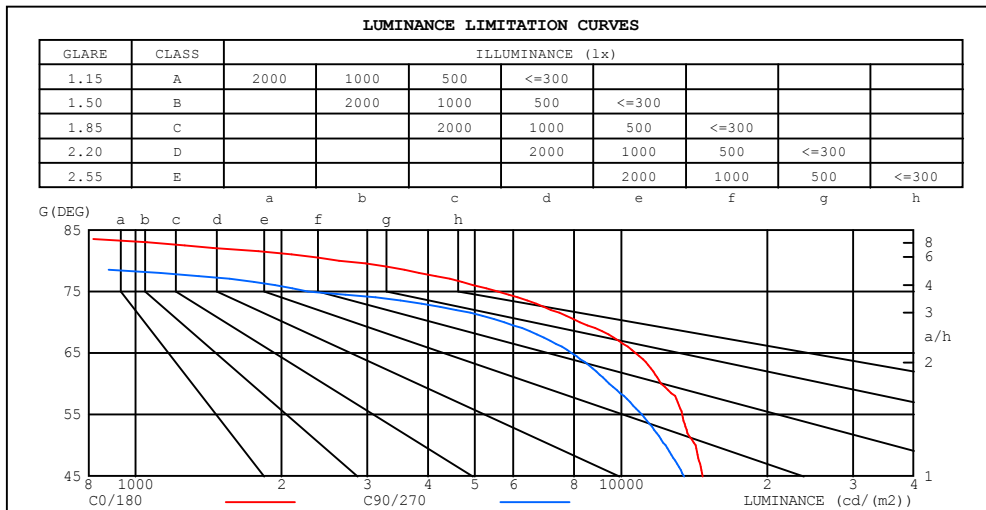


$\gamma$   $\rho$   $\gamma$   $\gamma$   $\rho$   $\rho$   $\rho$   $\rho$   $\rho$   $\Phi$   $\%$   $\rho$

### ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	4423	4400	4399	4399	4425	4425	4435	4427	0- 5	105.9	105.9	0.90,0.90
10	4377	4330	4348	4340	4385	4389	4420	4383	5- 10	314.1	420.0	3.55,3.55
15	4311	4259	4298	4269	4319	4349	4405	4333	10- 15	515.0	934.9	7.9,7.9
20	4219	4181	4105	4187	4225	4303	4284	4278	15- 20	702.9	1638	13.8,13.8
25	4069	3999	3911	4013	4072	4167	4162	4151	20- 25	867.7	2506	21.2,21.2
30	3874	3790	3718	3797	3873	3993	4041	3990	25- 30	1006	3511	29.7,29.7
35	3611	3559	3400	3559	3625	3809	3770	3801	30- 35	1109	4621	39.1,39.1
40	3314	3277	3081	3287	3356	3575	3499	3572	35- 40	1168	5788	48.9,48.9
45	3016	2885	2763	2914	3024	3227	3229	3218	40- 45	1184	6973	58.9,58.9
50	2655	2493	2298	2529	2656	2883	2796	2860	45- 50	1153	8125	68.7,68.7
55	2221	2085	1833	2124	2192	2515	2363	2493	50- 55	1059	9184	77.6,77.6
60	1750	1571	1369	1594	1730	1985	1930	1984	55- 60	917.3	10101	85.4,85.4
65	1312	1063	969.0	1075	1281	1473	1461	1488	60- 65	735.2	10837	91.6,91.6
70	814.2	647.9	569.3	647.3	817.8	989.2	991.4	1001	65- 70	529.1	11366	96.1,96.1
75	418.6	321.0	169.7	325.9	416.6	554.1	522.3	563.7	70- 75	318.0	11684	98.8,98.8
80	132.2	47.48	0	52.78	123.8	162.4	0	170.8	75- 80	128.0	11812	99.9,99.9
85	11.55	0	0	0	10.06	0	0	0	80- 85	17.27	11829	100,100
90	0.1491	0	0	0	0.1803	0	0	0	85- 90	0.4814	11830	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		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	457	0
80	2625	0
75	5577	2261
70	8209	5740
65	10709	7906
60	12069	9439
55	13350	11022
50	14245	12329
45	14710	13474

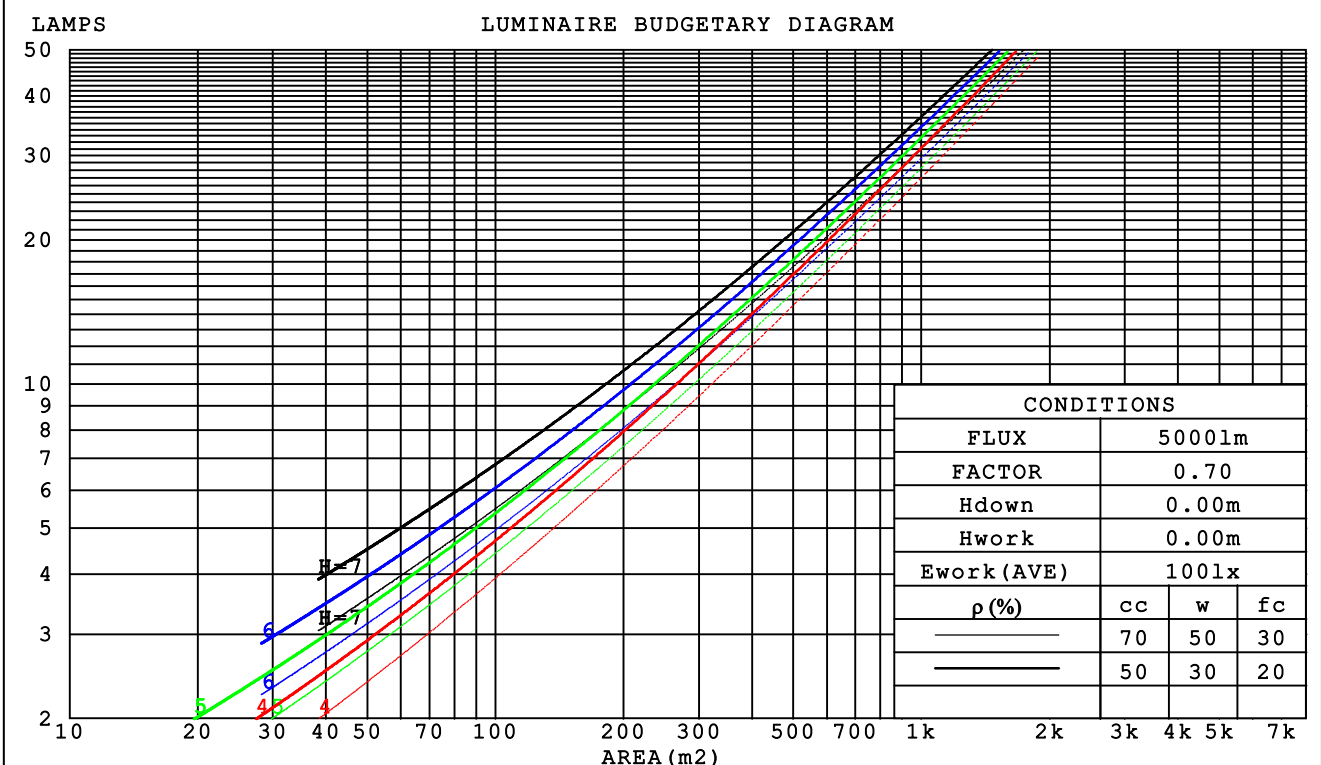
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
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	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	1.02	1.02	1.02	1.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.96	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.85	.81	.77	.82	.78	.75	.73
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.65	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.63	.57	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.64	.56	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.44	.39	.34	.32
9.0	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.28	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

**WEC AND CCEC**

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.272	.154	.049	.265	.151	.048	.252	.144	.046	.240	.138	.044	.228	.132	.043	
2.0	.265	.145	.045	.259	.143	.044	.248	.138	.043	.237	.133	.042	.227	.129	.041	
3.0	.251	.134	.040	.246	.132	.040	.235	.128	.039	.226	.124	.038	.217	.120	.037	
4.0	.235	.122	.036	.230	.121	.036	.221	.117	.035	.213	.114	.035	.205	.112	.034	
5.0	.220	.112	.032	.215	.111	.032	.207	.108	.032	.200	.106	.031	.193	.103	.031	
6.0	.205	.103	.029	.202	.102	.029	.194	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.192	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026	
8.0	.180	.088	.025	.177	.087	.025	.172	.086	.024	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.021	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.087	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

### Uncorrected UGR Table

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm										
NAME:150W SMD LED FLOODLIGHT					TYPE:FLOODLED-PL			WEIGHT:		
MODEL NO.:BT61-09402;BT61-09412;BT61-09432					DIM.:			SERIAL No.:1		
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	21.7	23.2	22.0	23.4	23.6	20.8	22.3	21.1	22.5	22.7
3H	22.6	23.9	22.9	24.2	24.4	21.5	22.8	21.8	23.0	23.3
4H	22.8	24.0	23.1	24.3	24.5	21.5	22.8	21.8	23.0	23.3
6H	22.8	24.0	23.1	24.2	24.5	21.4	22.6	21.7	22.9	23.1
8H	22.7	23.9	23.1	24.1	24.4	21.4	22.5	21.7	22.8	23.1
12H	22.7	23.8	23.0	24.1	24.4	21.3	22.4	21.6	22.7	23.0
4H 2H	22.0	23.3	22.3	23.5	23.8	21.3	22.5	21.6	22.8	23.0
3H	23.0	24.1	23.3	24.4	24.7	22.0	23.1	22.4	23.4	23.7
4H	23.2	24.2	23.6	24.5	24.9	22.1	23.1	22.5	23.4	23.7
6H	23.2	24.1	23.6	24.5	24.8	22.0	22.9	22.4	23.2	23.6
8H	23.2	24.0	23.6	24.4	24.8	22.0	22.8	22.4	23.1	23.5
12H	23.2	23.9	23.6	24.3	24.7	21.9	22.7	22.4	23.1	23.5
8H 4H	23.2	24.0	23.6	24.4	24.7	22.1	22.9	22.5	23.3	23.7
6H	23.2	23.9	23.7	24.3	24.7	22.0	22.7	22.5	23.1	23.5
8H	23.2	23.8	23.7	24.2	24.7	22.0	22.6	22.5	23.0	23.5
12H	23.2	23.7	23.6	24.1	24.6	22.0	22.5	22.4	22.9	23.4
12H 4H	23.1	23.9	23.6	24.3	24.7	22.1	22.8	22.5	23.2	23.6
6H	23.2	23.8	23.6	24.2	24.6	22.0	22.6	22.5	23.0	23.5
8H	23.2	23.7	23.6	24.1	24.6	22.0	22.5	22.4	22.9	23.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.4 / - 0.5				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.7				
2.0H	+ 0.6 / - 0.6					+ 0.7 / - 1.0				

CIE Pub.117 Corrected 11830 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.6)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

**UTILIZATION FACTORS TABLE**

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

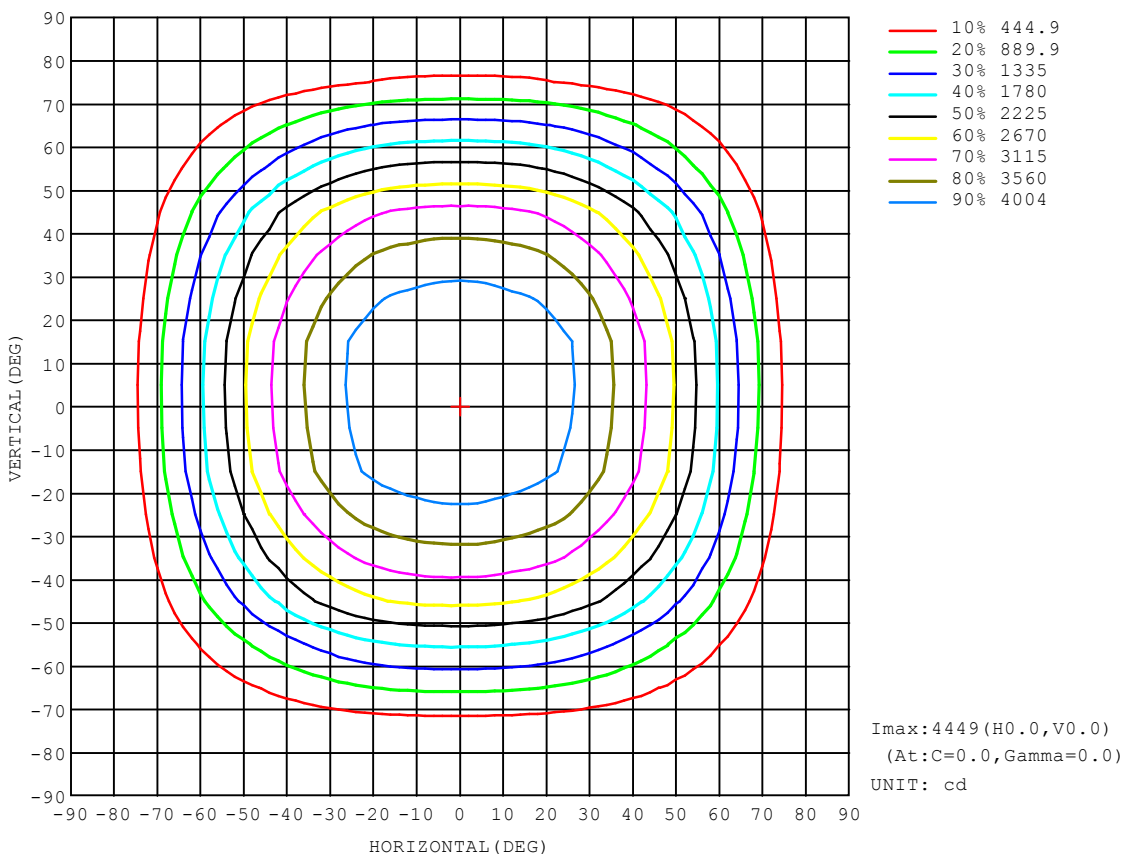
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	41	58	48	41	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	70	85	76	69	82	74	68	62
1.50	91	82	75	89	81	75	86	79	74	67
2.00	98	90	84	96	89	83	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	97	92	98	94	90	82
4.00	108	103	99	106	101	97	102	98	95	86
5.00	110	106	102	108	104	101	103	100	98	89
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:2016-09-30

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

## ISOCANDELA DIAGRAM

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

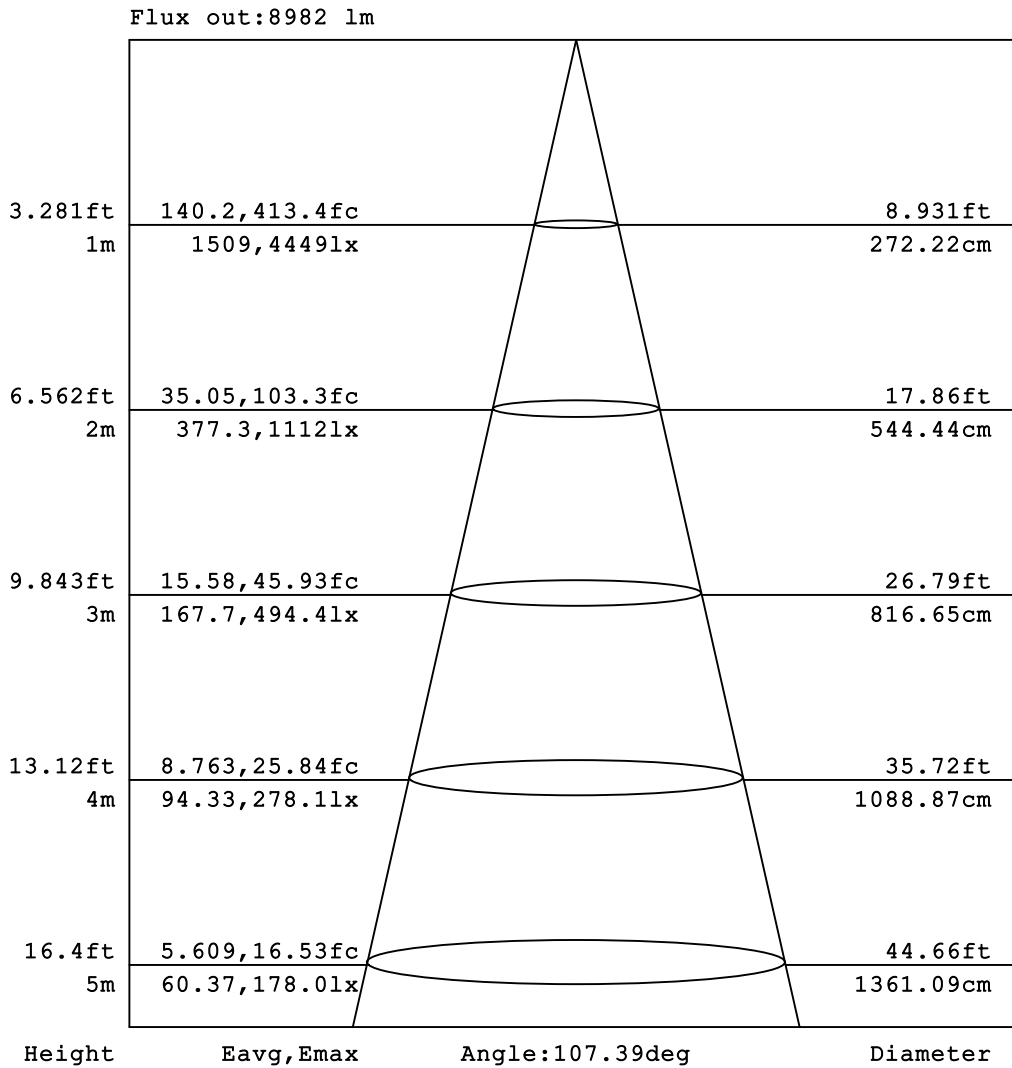


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 18.484m [K=1.0000]  
 Remarks: 12\*36mil

### AAI Figure

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:



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

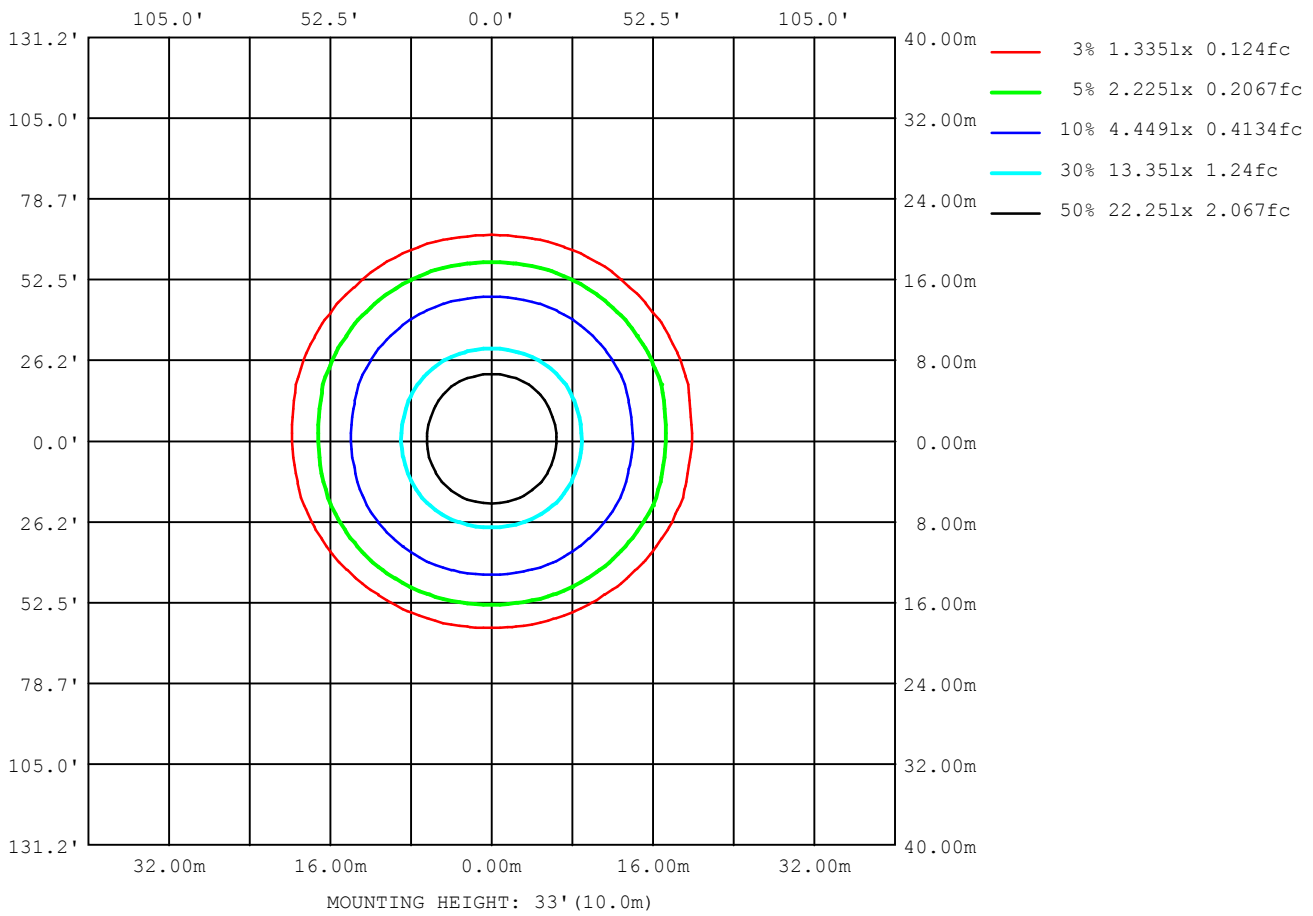
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil



## ISOLUX DIAGRAM

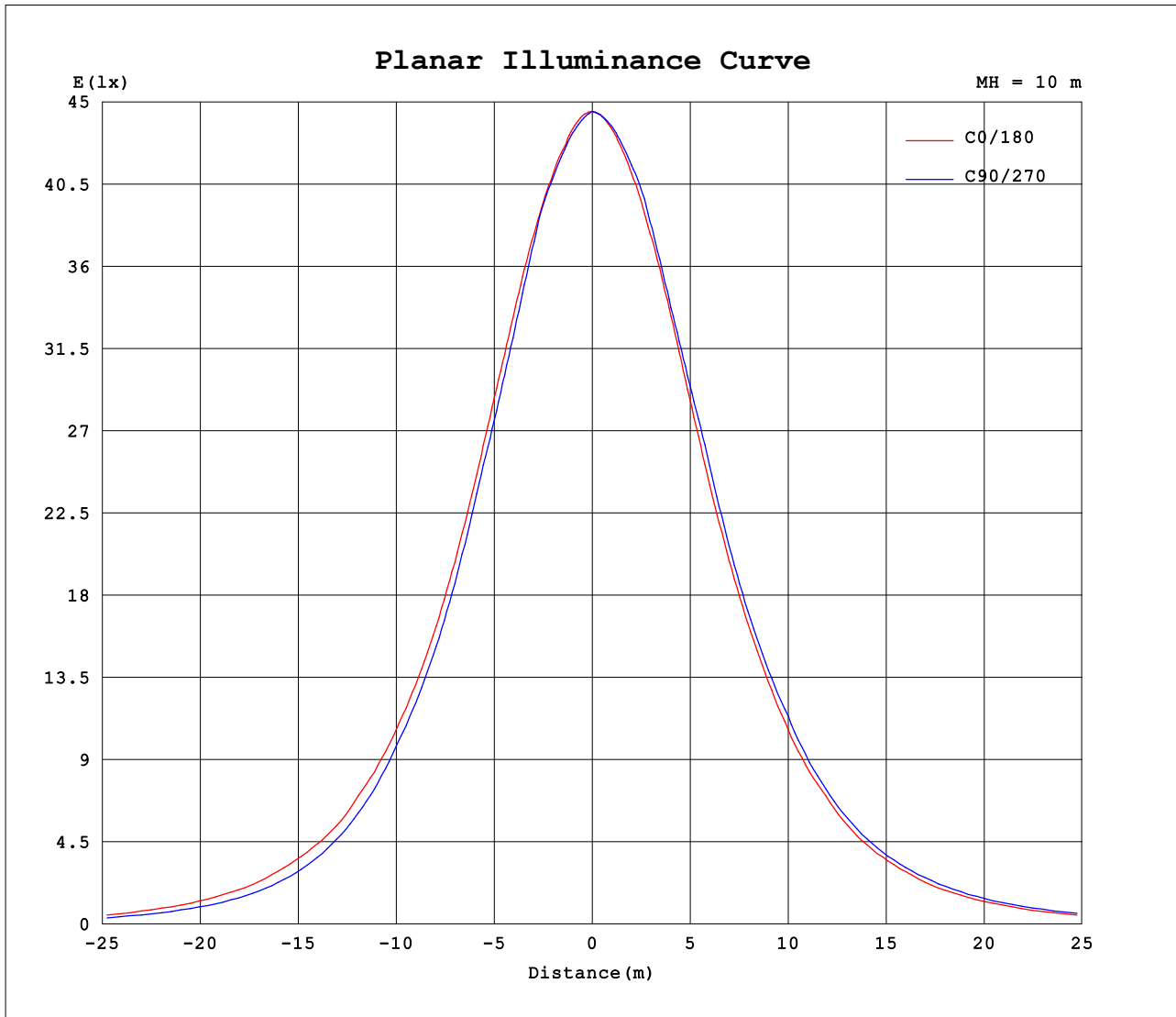
Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2016-09-30

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity: 65.0%  
Test Distance: 18.484m [K=1.0000]  
Remarks: 12\*36mil

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449
5	4423	4419	4415	4412	4409	4406	4404	4402	4401	4400	4399	4399	4399	4400	4399	4399	4398	4398	4399
10	4377	4368	4360	4352	4345	4338	4333	4328	4328	4330	4333	4336	4337	4339	4342	4345	4348	4348	4348
15	4311	4298	4287	4278	4271	4264	4259	4255	4256	4259	4261	4262	4267	4278	4283	4287	4294	4297	4298
20	4219	4202	4189	4179	4174	4172	4169	4170	4174	4181	4167	4146	4132	4119	4114	4110	4108	4107	4105
25	4069	4050	4038	4031	4034	4043	4053	4060	4027	3999	3977	3957	3939	3927	3921	3917	3918	3915	3911
30	3874	3851	3840	3839	3848	3869	3869	3836	3815	3790	3770	3757	3743	3734	3727	3727	3726	3723	3718
35	3611	3586	3579	3587	3608	3608	3586	3568	3562	3559	3555	3544	3509	3469	3442	3425	3413	3407	3400
40	3314	3292	3290	3306	3318	3290	3274	3270	3278	3277	3241	3206	3169	3140	3111	3098	3091	3087	3081
45	3016	2986	2986	3011	2977	2960	2962	2968	2920	2885	2859	2840	2822	2803	2779	2769	2767	2767	2763
50	2655	2609	2613	2624	2597	2604	2598	2552	2514	2493	2477	2464	2440	2404	2362	2330	2314	2304	2298
55	2221	2189	2207	2175	2177	2164	2140	2098	2089	2085	2038	1993	1957	1928	1897	1867	1849	1838	1833
60	1750	1729	1744	1729	1759	1696	1659	1663	1603	1571	1540	1502	1477	1453	1427	1405	1385	1373	1369
65	1312	1259	1251	1263	1235	1202	1184	1151	1106	1063	1045	1014	1026	1018	1006	995	980	972	969
70	814	800	783	772	755	737	701	648	627	648	645	640	637	623	609	595	580	572	569
75	419	402	395	378	361	330	313	324	332	321	300	280	255	234	214	195	181	173	170
80	132	124	111	105	98.6	111	106	84.7	55.5	47.5	44.3	39.4	32.6	25.8	18.2	10.7	4.95	1.26	0.00
85	11.5	9.67	9.48	13.1	7.51	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25.3DEG Operators: Test Date:2016-09-30	γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281 Humidity:65.0% Test Distance:18.484m [K=1.0000] Remarks: 12*36mil
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**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449
5	4398	4397	4397	4397	4398	4397	4398	4398	4399	4401	4402	4405	4407	4410	4413	4417	4421	4425	4424
10	4346	4344	4342	4341	4340	4340	4340	4340	4340	4342	4344	4346	4350	4355	4361	4368	4376	4385	4383
15	4293	4289	4288	4285	4283	4280	4275	4269	4269	4272	4274	4274	4276	4281	4287	4296	4306	4319	4317
20	4104	4106	4111	4120	4131	4139	4162	4183	4187	4182	4179	4181	4184	4184	4188	4196	4209	4225	4221
25	3915	3916	3920	3930	3938	3954	3966	3986	4013	4040	4069	4059	4050	4043	4041	4044	4054	4072	4069
30	3725	3724	3730	3738	3744	3754	3767	3781	3797	3819	3841	3869	3874	3858	3844	3842	3852	3873	3870
35	3408	3416	3436	3457	3487	3520	3552	3561	3559	3564	3581	3595	3619	3620	3600	3593	3601	3625	3623
40	3089	3101	3120	3136	3163	3188	3222	3248	3287	3296	3289	3293	3309	3340	3331	3319	3327	3356	3353
45	2769	2784	2799	2817	2831	2851	2868	2885	2914	2947	2988	2978	2978	2998	3029	3001	2996	3024	3024
50	2307	2329	2356	2395	2433	2482	2510	2516	2529	2543	2575	2614	2618	2606	2626	2627	2621	2656	2655
55	1841	1859	1884	1918	1951	1989	2025	2073	2124	2129	2112	2156	2150	2169	2157	2183	2164	2192	2195
60	1375	1389	1413	1437	1466	1494	1515	1555	1594	1620	1677	1667	1695	1726	1711	1735	1710	1730	1740
65	974	983	1001	1011	1026	1032	1011	1042	1075	1115	1163	1201	1210	1238	1257	1253	1258	1281	1300
70	574	583	600	612	629	644	642	643	647	629	672	718	756	772	787	795	809	818	842
75	174	183	198	214	236	260	284	303	326	336	337	325	344	377	386	394	397	417	427
80	1.27	5.01	10.9	18.1	26.1	34.5	42.3	48.3	52.8	60.7	91.7	112	116	104	110	113	117	124	134
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17	7.87	13.7	9.37	9.31	10.1	11.8
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:18.484m [K=1.0000]
Test Date:2016-09-30	Remarks: 12*36mil

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449
5	4423	4423	4422	4422	4423	4423	4424	4425	4427	4428	4430	4432	4433	4433	4434	4434	4435	4434	4433
10	4381	4380	4380	4380	4380	4381	4384	4389	4394	4399	4403	4406	4410	4415	4418	4419	4420	4419	4418
15	4317	4319	4322	4326	4331	4336	4342	4349	4355	4358	4366	4380	4388	4394	4401	4404	4405	4404	4402
20	4222	4227	4236	4250	4259	4268	4284	4303	4301	4290	4283	4274	4279	4281	4282	4284	4284	4283	4283
25	4074	4086	4101	4122	4145	4172	4171	4167	4158	4159	4149	4147	4148	4156	4159	4163	4162	4160	4158
30	3879	3898	3927	3963	3984	3984	3985	3993	4004	4009	4015	4011	4016	4028	4036	4040	4041	4036	4031
35	3637	3665	3710	3737	3740	3757	3781	3809	3829	3853	3834	3815	3788	3781	3779	3773	3770	3770	3774
40	3370	3409	3448	3454	3475	3507	3545	3575	3569	3557	3547	3537	3521	3510	3509	3504	3499	3502	3505
45	3059	3114	3122	3146	3193	3245	3235	3227	3234	3247	3252	3253	3255	3241	3238	3236	3229	3234	3235
50	2691	2729	2754	2805	2857	2854	2865	2883	2897	2922	2920	2892	2867	2836	2814	2804	2796	2802	2812
55	2247	2268	2321	2410	2407	2446	2474	2515	2488	2462	2449	2434	2420	2398	2377	2367	2363	2366	2376
60	1802	1836	1914	1906	1953	1984	2012	1985	1987	1979	1981	1975	1970	1958	1940	1930	1930	1929	1940
65	1334	1394	1396	1451	1463	1472	1451	1473	1468	1500	1507	1502	1499	1488	1472	1462	1461	1461	1473
70	866	904	939	949	954	948	962	989	998	1021	1024	1021	1020	1012	1001	993	991	993	1003
75	454	485	493	485	504	532	554	554	552	551	548	545	543	537	530	525	522	525	533
80	147	157	163	189	197	188	171	162	151	132	110	83.3	57.5	33.8	15.4	3.89	0.00	3.89	15.5
85	13.8	22.2	15.2	12.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2016-09-30

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.484m [K=1.0000]  
 Remarks: 12\*36mil

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.6397A P:139.2W PF:0.9873 Lamp Flux:11829.5x1 lm		
NAME:150W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09402;BT61-09412;BT61-09432	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C (DEG)\γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449				
5	4433	4433	4432	4430	4429	4428	4427	4426	4425	4423	4422	4422	4421	4422	4422				
10	4416	4413	4410	4403	4398	4390	4383	4376	4371	4370	4369	4370	4371	4372	4375				
15	4400	4390	4379	4365	4353	4344	4333	4321	4313	4310	4307	4306	4304	4305	4307				
20	4281	4277	4273	4272	4269	4274	4278	4263	4252	4243	4236	4226	4219	4215	4215				
25	4153	4146	4137	4132	4142	4143	4151	4159	4169	4146	4121	4096	4078	4069	4066				
30	4025	4012	4003	4007	4002	3998	3990	3985	3979	3986	3963	3924	3895	3877	3870				
35	3778	3784	3809	3832	3850	3825	3801	3782	3753	3735	3724	3696	3651	3621	3608				
40	3505	3515	3533	3544	3550	3560	3572	3540	3492	3458	3430	3416	3372	3332	3312				
45	3236	3242	3250	3242	3236	3226	3218	3216	3220	3165	3119	3101	3094	3042	3014				
50	2832	2860	2885	2909	2910	2883	2860	2840	2837	2848	2796	2747	2721	2684	2650				
55	2394	2414	2427	2442	2452	2469	2493	2464	2428	2404	2398	2332	2279	2260	2216				
60	1954	1963	1971	1976	1977	1975	1984	1996	1990	1967	1919	1939	1864	1837	1764				
65	1488	1494	1502	1506	1505	1472	1488	1457	1485	1469	1461	1412	1406	1337	1306				
70	1016	1021	1026	1028	1026	1008	1001	976	958	956	950	934	903	868	842				
75	544	550	553	558	560	563	564	565	544	509	496	495	484	454	427				
80	34.3	58.5	85.5	113	137	157	171	183	199	207	201	179	168	153	142				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.5	16.8	25.4	15.6	12.1			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2016-09-30

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:18.484m [K=1.0000]  
Remarks: 12\*36mil