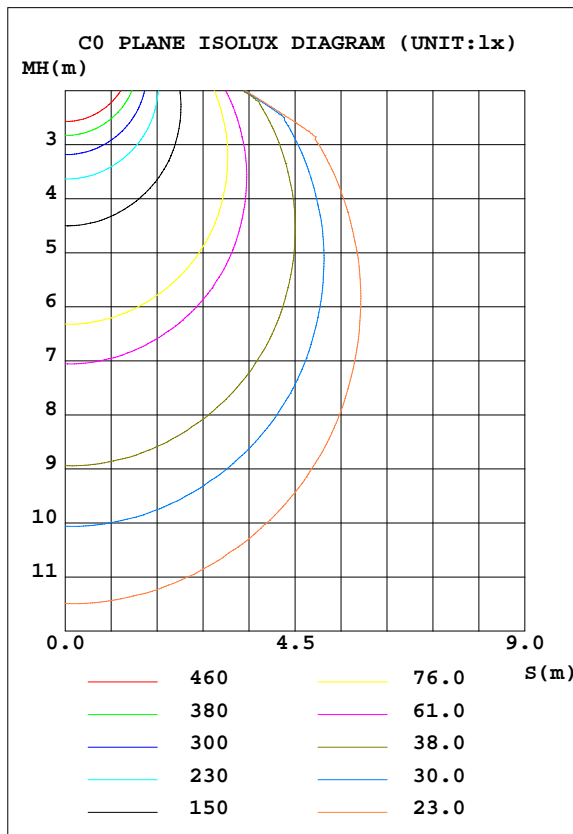
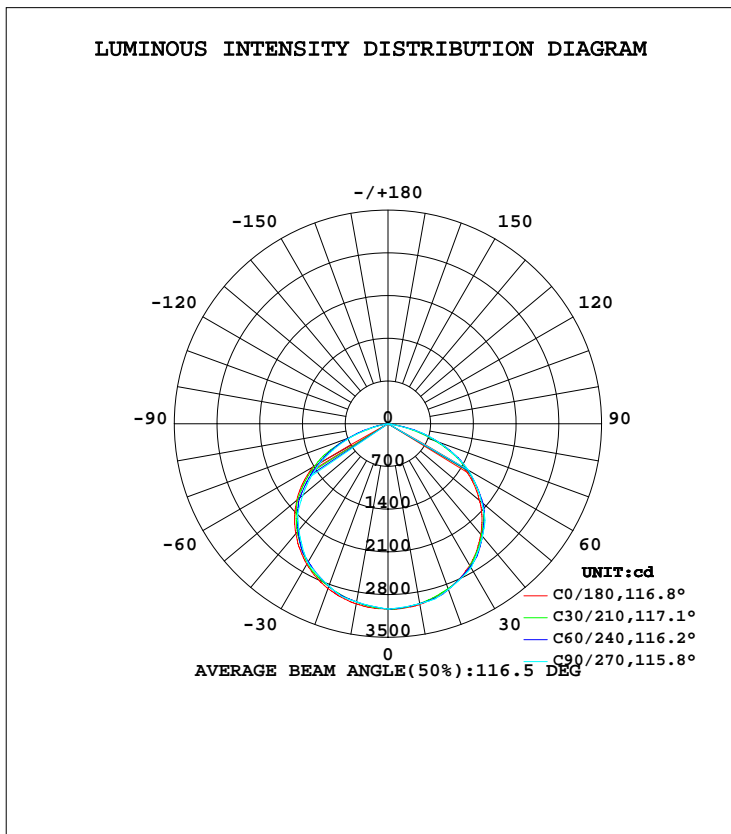


**LUMINAIRE PHOTOMETRIC TEST REPORT**

NAME: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	6500K	Imax(cd)	3040	S/MH(C0/180)	1.31
NOMINAL POWER(W)	99.7	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	232.2	TOTAL FLUX(lm)	8404.3	η UP, DN(C0-180)	0.0, 51.6
NOMINAL FLUX(lm)	8404.28	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 48.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	232.2	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	3033	3021	3015	3018	3027	3007	3001	3011	0- 5	72.30	72.30	0.86,0.86
10	3004	2991	2994	2986	2997	2965	2965	2970	5- 10	214.5	286.8	3.41,3.41
15	2953	2948	2973	2944	2944	2910	2930	2915	10- 15	351.0	637.9	7.59,7.59
20	2883	2898	2890	2889	2876	2849	2830	2851	15- 20	478.0	1116	13.3,13.3
25	2793	2799	2807	2793	2777	2740	2730	2743	20- 25	590.5	1706	20.3,20.3
30	2682	2688	2724	2678	2659	2614	2630	2617	25- 30	686.7	2393	28.5,28.5
35	2537	2566	2566	2552	2513	2476	2451	2483	30- 35	762.3	3155	37.5,37.5
40	2367	2426	2408	2409	2349	2329	2272	2326	35- 40	811.7	3967	47.2,47.2
45	2180	2222	2250	2212	2169	2108	2093	2108	40- 45	835.6	4803	57.1,57.1
50	1956	2007	2008	2008	1949	1890	1823	1877	45- 50	830.9	5634	67,67
55	1715	1788	1765	1796	1707	1663	1554	1639	50- 55	790.9	6424	76.4,76.4
60	1425	1496	1523	1508	1422	1351	1284	1325	55- 60	719.7	7144	85,85
65	0	1200	1200	1212	0	1037	964.0	1010	60- 65	549.4	7694	91.5,91.5
70	0	873.9	876.4	883.8	0	706.5	643.5	694.6	65- 70	373.9	8068	96,96
75	0	513.1	553.1	509.4	0	365.6	322.9	387.5	70- 75	233.9	8301	98.8,98.8
80	0	163.4	0	154.4	0	64.15	0	104.2	75- 80	96.64	8398	99.9,99.9
85	0	0	0	0	0	0	0	0	80- 85	6.263	8404	100,100
90	0	0	0	0	0	0	0	0	85- 90	0	8404	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		

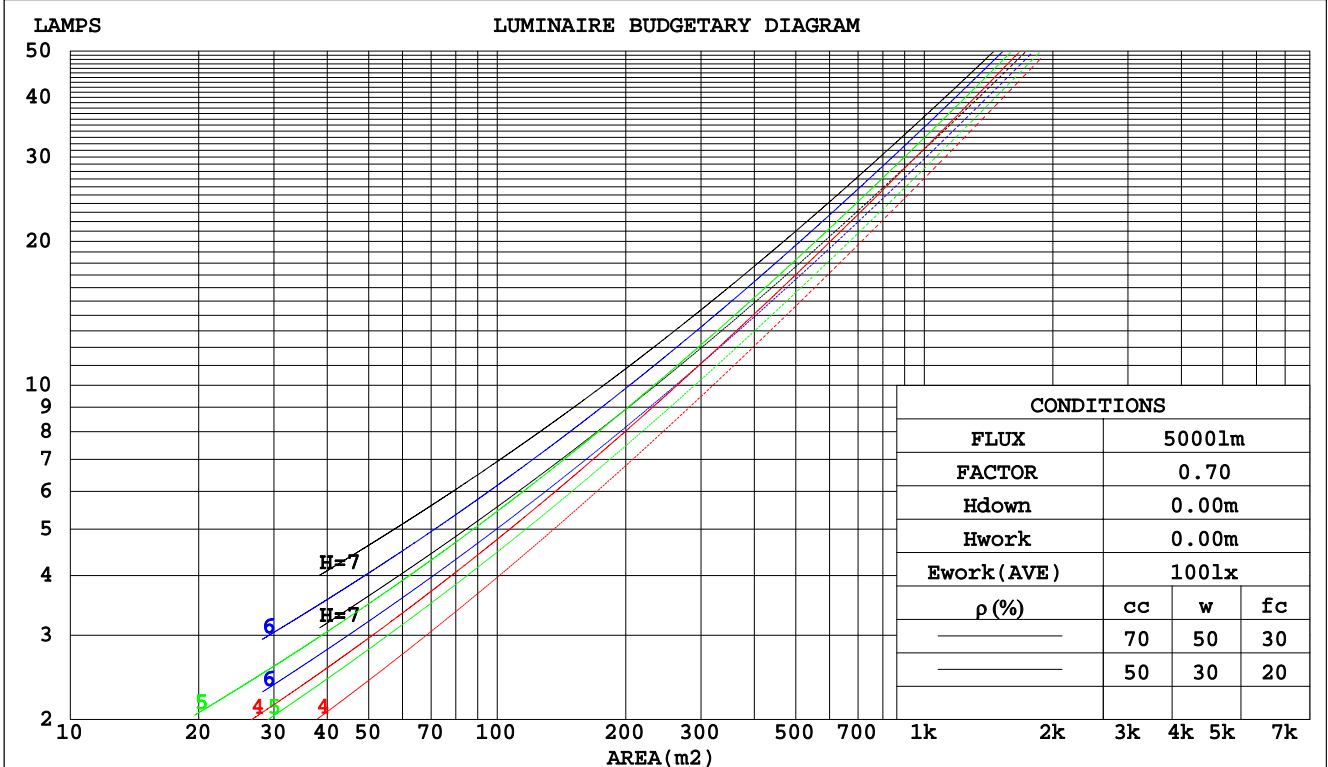
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

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: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	1.00
1.0	1.06	1.02	.98	1.03	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.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	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



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: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	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	.274	.156	.049	.267	.153	.048	.254	.146	.047	.242	.140	.045	.231	.134	.043	
2.0	.269	.147	.045	.262	.145	.045	.251	.140	.043	.240	.135	.042	.231	.130	.041	
3.0	.254	.135	.041	.249	.133	.040	.239	.129	.039	.229	.126	.039	.220	.122	.038	
4.0	.238	.124	.036	.233	.122	.036	.224	.119	.036	.216	.116	.035	.208	.113	.034	
5.0	.222	.113	.033	.218	.112	.033	.210	.109	.032	.202	.107	.032	.196	.104	.031	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.169	.082	.023	.163	.081	.023	.159	.079	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.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	.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	.047	.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	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.041	.022	.008	.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: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	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	24.8	26.2	25.0	26.4	26.6	25.3	26.8	25.6	27.0	27.2
3H	24.7	26.0	25.0	26.3	26.5	26.7	28.1	27.0	28.3	28.5
4H	24.6	25.9	24.9	26.1	26.4	27.2	28.5	27.5	28.7	29.0
6H	24.5	25.7	24.8	25.9	26.2	27.2	28.4	27.5	28.7	28.9
8H	24.4	25.6	24.8	25.9	26.2	27.1	28.3	27.5	28.6	28.9
12H	24.4	25.5	24.7	25.8	26.1	27.1	28.2	27.4	28.5	28.8
4H 2H	25.5	26.8	25.8	27.0	27.3	25.9	27.2	26.2	27.4	27.7
3H	26.0	27.1	26.3	27.4	27.7	27.5	28.6	27.8	28.9	29.2
4H	25.9	26.9	26.3	27.2	27.6	28.0	29.0	28.4	29.4	29.7
6H	25.8	26.7	26.2	27.1	27.4	28.1	29.0	28.5	29.3	29.7
8H	25.8	26.6	26.2	27.0	27.3	28.0	28.9	28.5	29.2	29.6
12H	25.7	26.5	26.1	26.9	27.3	28.0	28.8	28.4	29.1	29.5
8H 4H	26.2	27.1	26.7	27.4	27.8	28.2	29.0	28.6	29.3	29.7
6H	26.2	26.9	26.6	27.3	27.7	28.2	28.9	28.7	29.3	29.7
8H	26.2	26.8	26.6	27.2	27.6	28.2	28.8	28.7	29.2	29.7
12H	26.1	26.6	26.6	27.1	27.6	28.2	28.7	28.6	29.1	29.6
12H 4H	26.2	27.0	26.6	27.4	27.8	28.1	28.9	28.5	29.2	29.7
6H	26.2	26.8	26.6	27.2	27.7	28.2	28.8	28.7	29.2	29.7
8H	26.2	26.7	26.6	27.1	27.6	28.2	28.7	28.7	29.1	29.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.6					+ 0.2 / - 0.3				
1.5H	+ 0.7 / - 0.8					+ 0.2 / - 0.4				
2.0H	+ 0.5 / - 1.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 8404 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.4)

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: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

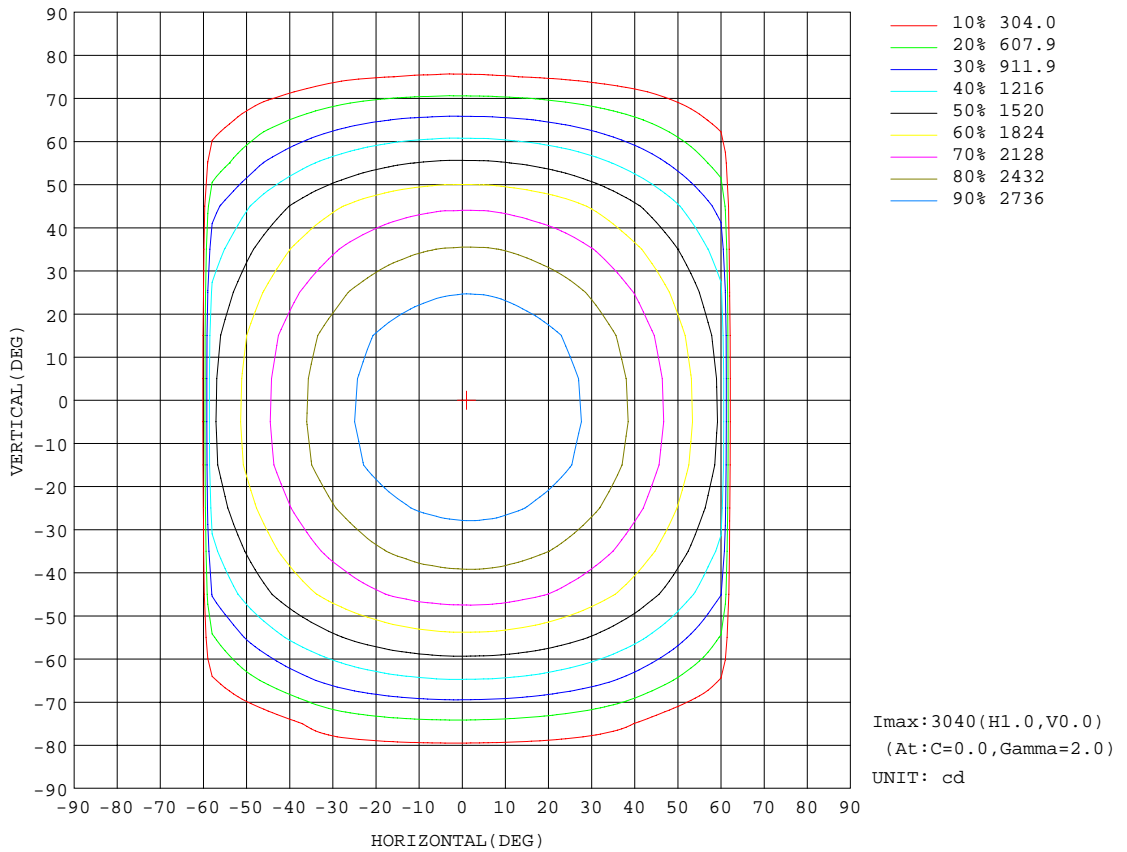
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	57	46	40	33
0.80	69	58	51	68	57	50	66	57	50	43
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	69	84	75	68	81	73	67	60
1.50	90	81	75	89	80	74	86	78	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	98	105	101	97	101	98	94	86
5.00	110	106	102	108	104	100	103	100	97	88
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: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



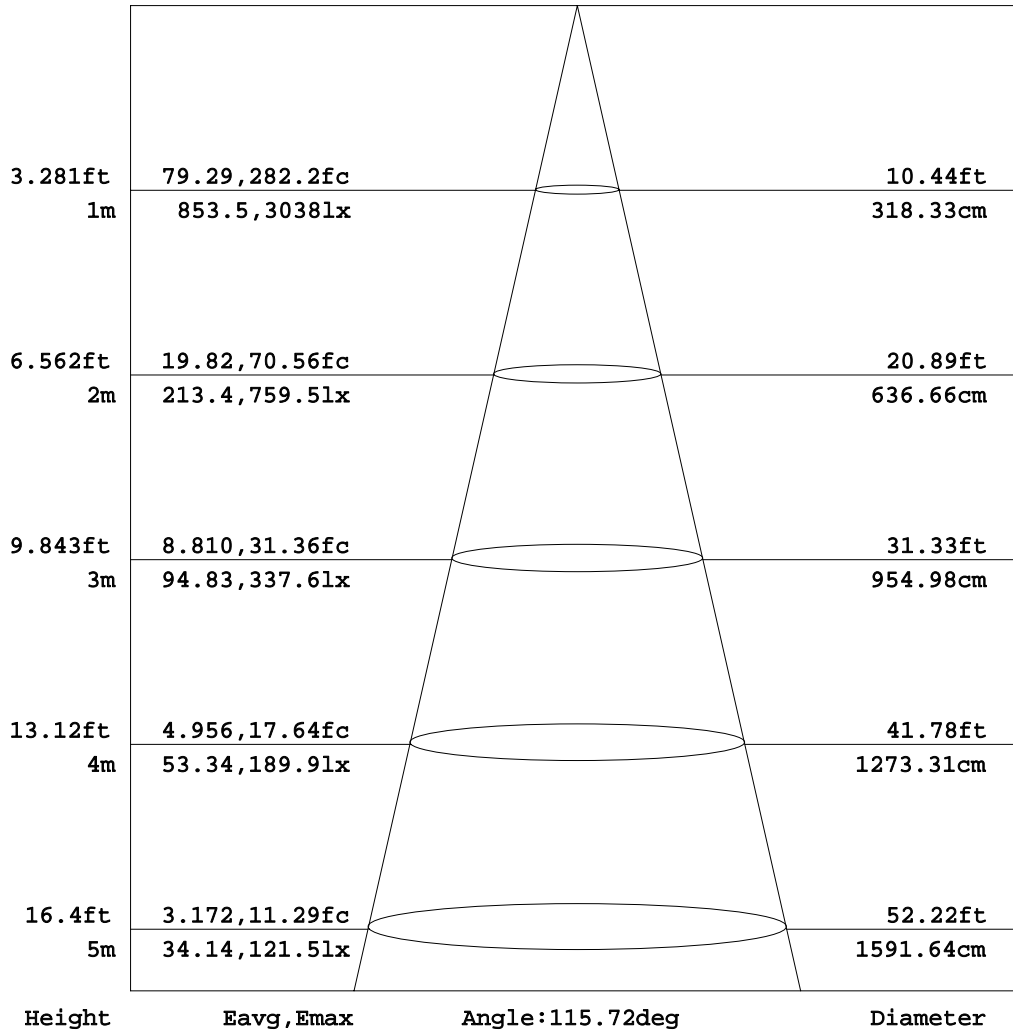
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-08-03

$\gamma$  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:

## AAI Figure

NAME: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:6867 lm



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

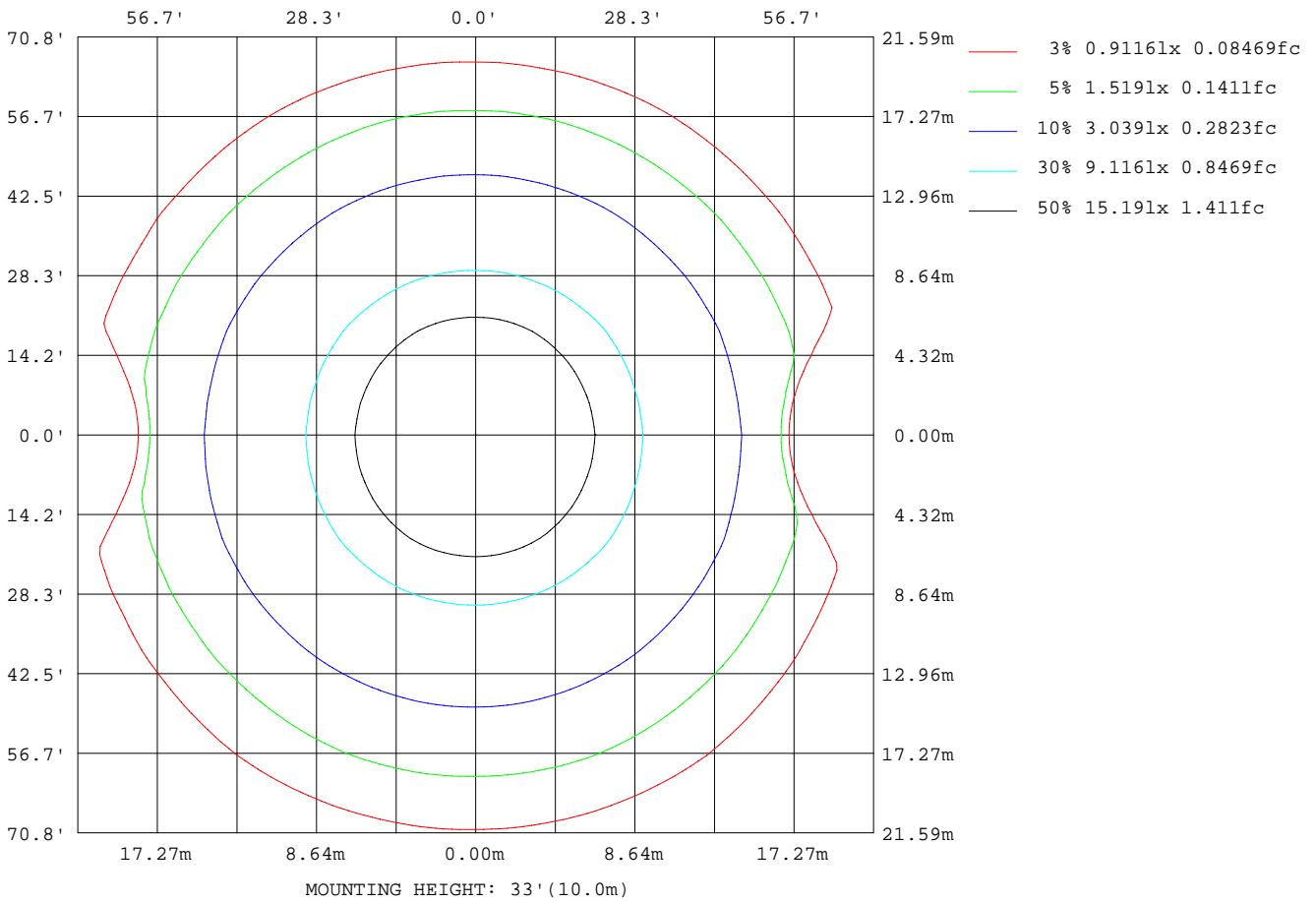
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-08-03

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

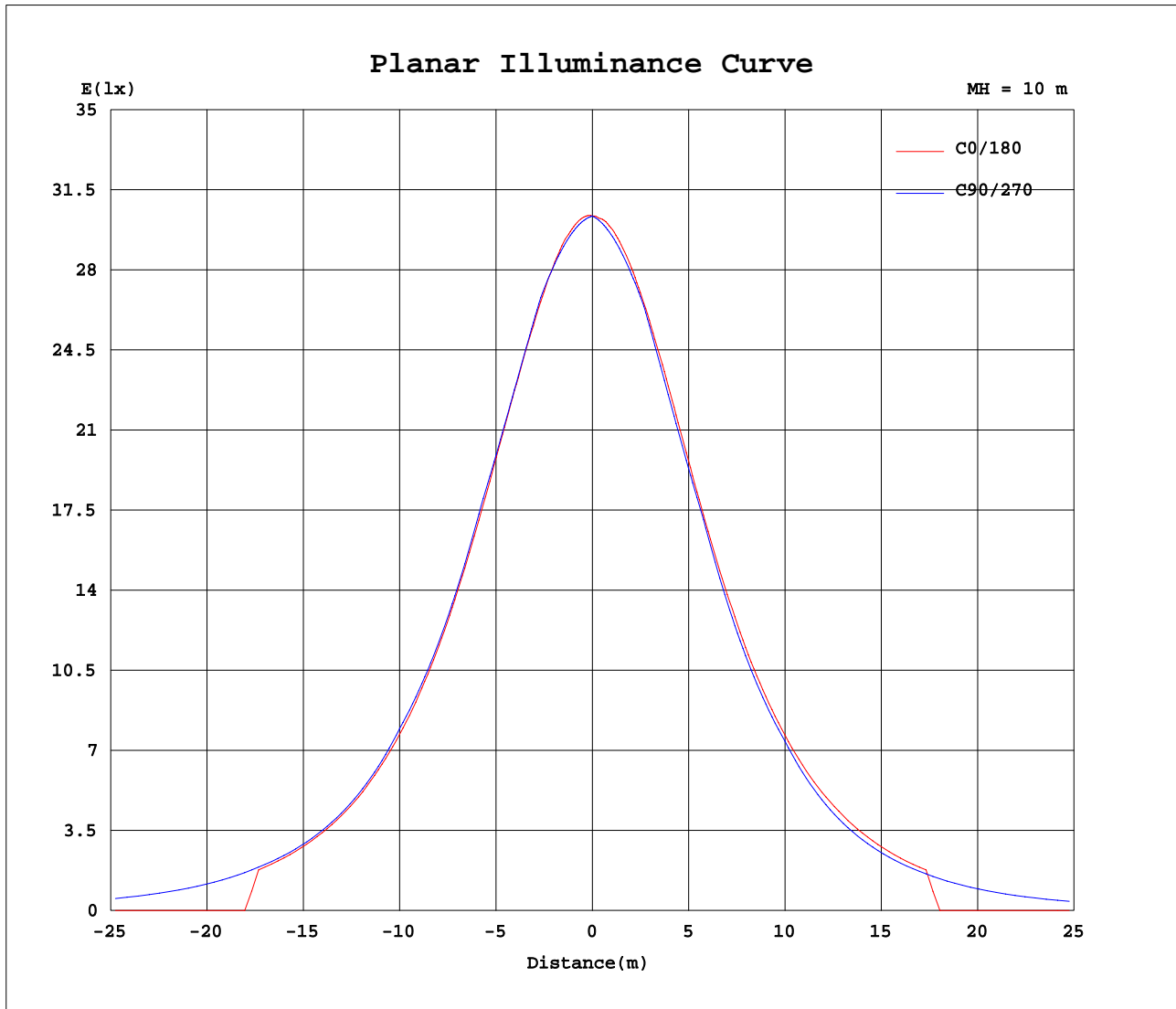
NAME: 100W SMD LED FLOODLIGHT	TYPE:FLOODLED-PL	WEIGHT:
MODEL NO.:BT61-09102;BT61-09112;BT61-09132	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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: