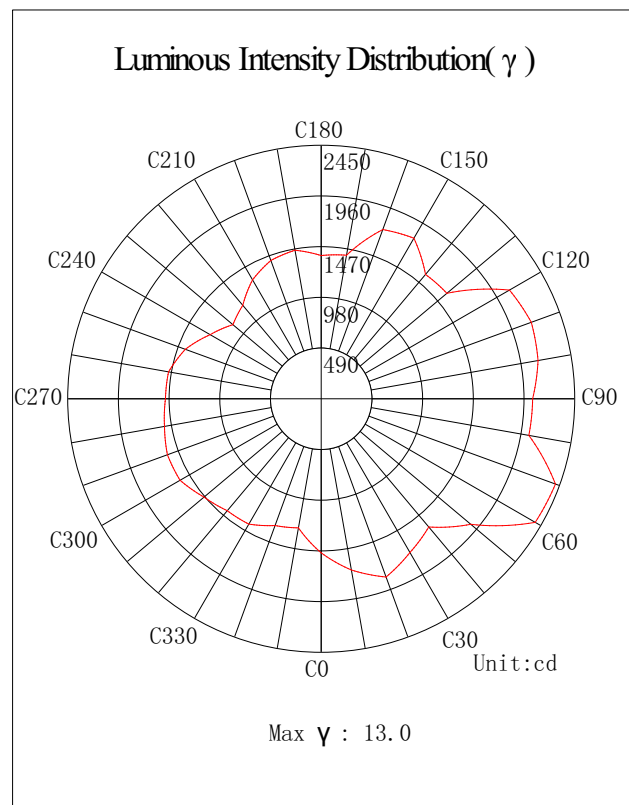
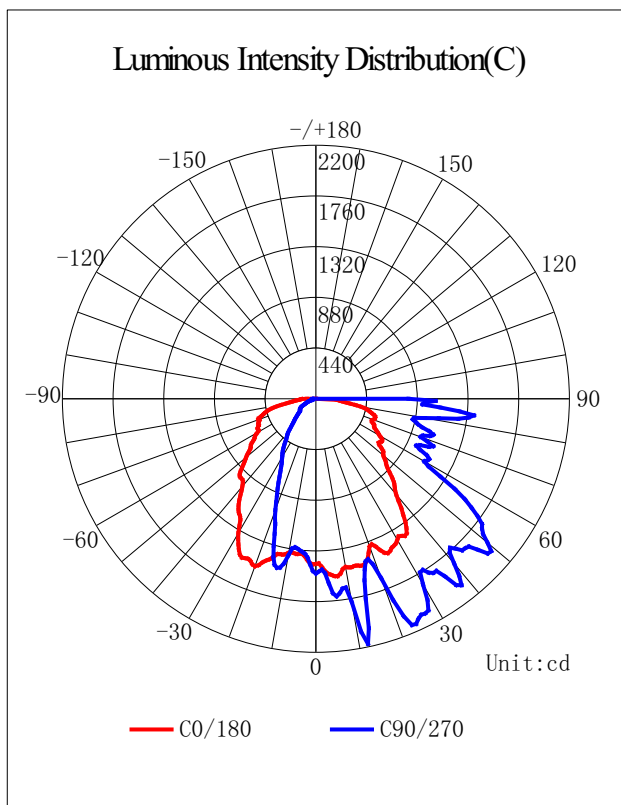


## SSP6316-D50: Lamp Space Intensity Distribution

### Photometric Data of Luminaire

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm

Lamp Test Data			
Lamp Flux:	4804.82 lm	Center Cd.:	1459.2 cd
Max(C, $\gamma$ ):	(70, 13.0)	Maximum Cd.:	2409.2 cd
BeamAngle(50%):	102.0 Deg	BeamAngle(10%):	168.0 Deg
Flux(0-90):	4797.52 lm(99.8%)	Flux(90-180):	7.3 lm(0.2%)
LuminousEfficacy:	60.59 lm/W		



C Angle Range:	0-360Deg	$\gamma$ Range:	0-90Deg	Test No.:	NO
C Precious:	10 Deg	$\gamma$ Precious:	1 Deg	Tester:	peng
Distance:	5.000 m	Date:	2014-07-01	Time:	17:15:18
Other:					

## SSP6316-D50: Lamp Space Intensity Distribution

### Zonal Flux Diagram

Zonal Flux Diagram:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	Fzone	Ftotal	%lamp	%lum
10	1482.3	1811.6	1788.5	1611.3	1356.5	1246.8	1382.6	1451.8	0-10	144.19	144.19	3.01	3.01
20	1364.0	1713.7	1655.2	1700.3	1546.7	1260.2	1029.0	1326.3	10-20	437.02	581.21	12.10	12.10
30	1413.4	1830.9	1858.9	1648.7	1345.9	880.6	584.6	876.2	20-30	638.56	1219.77	25.39	25.39
40	1084.5	1579.9	1867.4	1454.0	992.8	586.6	364.2	566.1	30-40	730.89	1950.66	40.60	40.60
50	764.5	1372.6	1945.1	1335.7	790.0	358.9	197.3	359.1	40-50	754.05	2704.71	56.30	56.30
60	638.3	1087.1	1084.7	1025.3	586.1	206.4	149.5	198.7	50-60	686.70	3391.41	70.59	70.59
70	529.0	831.9	966.3	806.7	530.6	116.4	65.6	113.8	60-70	539.76	3931.17	81.82	81.82
80	397.0	730.0	962.4	713.3	306.4	57.1	31.1	56.9	70-80	452.58	4383.75	91.24	91.24
90	0.0	273.2	803.4	247.4	78.8	19.1	0.0	17.6	80-90	413.78	4797.52	99.85	99.85
DEG	LUMINOUS INTENSITY:cd									UNIT:lm			

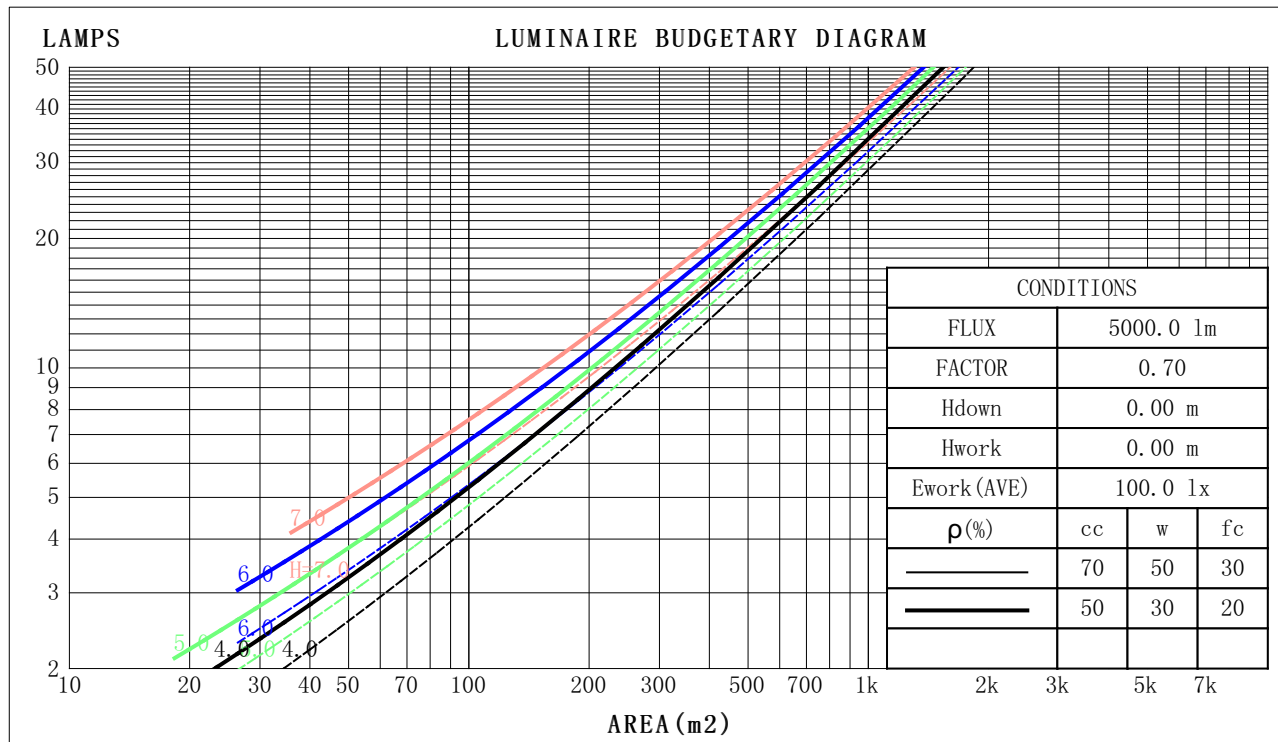
C Angle Range:	0-360Deg	$\gamma$ Range:	0-90Deg	Test No. :	NO
C Precious:	10 Deg	$\gamma$ Precious:	1 Deg	Tester:	peng
Distance:	5.000 m	Date:	2014-07-01	Time:	17:15:18
Other:					

## SSP6316-D50: Lamp Space Intensity Distribution

### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.00	.94	.90	.97	.93	.88	.93	.89	.85	.89	.86	.83	.85	.83	.80	.78
2.0	.86	.78	.72	.84	.77	.71	.80	.74	.69	.77	.72	.67	.74	.70	.66	.63
3.0	.75	.66	.59	.74	.65	.59	.71	.63	.57	.68	.62	.56	.65	.60	.55	.53
4.0	.67	.57	.50	.65	.56	.50	.63	.55	.49	.60	.54	.48	.58	.52	.47	.45
5.0	.60	.50	.43	.58	.49	.43	.56	.48	.42	.54	.47	.42	.52	.46	.41	.39
6.0	.54	.44	.38	.53	.44	.37	.51	.43	.37	.49	.42	.37	.47	.41	.36	.34
7.0	.49	.40	.33	.48	.39	.33	.46	.38	.33	.45	.38	.33	.43	.37	.32	.30
8.0	.44	.36	.30	.44	.35	.30	.42	.35	.29	.41	.34	.29	.40	.34	.29	.27
9.0	.41	.32	.27	.40	.32	.27	.39	.32	.26	.38	.31	.26	.37	.31	.26	.24
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22



C Angle Range: 0-360Deg       $\gamma$  Range: 0-90Deg      Test No.: NO  
 C Precious: 10 Deg       $\gamma$  Precious: 1 Deg      Tester: peng  
 Distance: 5.000 m      Date: 2014-07-01      Time: 17:15:18  
 Other:



## SSP6316-D50: Lamp Space Intensity Distribution

### WEC AND CCEC

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm

p <sub>cc</sub>	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio      Wall Exitance Coefficients(WEC)															
0.0																
1.0	.388	.221	.070	.381	.217	.069	.367	.210	.067	.354	.204	.066	.343	.199	.064	
2.0	.333	.183	.056	.327	.180	.055	.315	.175	.054	.304	.170	.053	.293	.166	.052	
3.0	.296	.157	.047	.290	.155	.047	.280	.152	.046	.270	.148	.045	.261	.144	.045	
4.0	.267	.139	.041	.262	.137	.040	.252	.134	.040	.243	.131	.039	.235	.128	.039	
5.0	.243	.124	.036	.238	.122	.036	.230	.120	.035	.222	.117	.035	.215	.115	.034	
6.0	.223	.112	.032	.219	.110	.032	.211	.108	.032	.204	.106	.031	.198	.104	.031	
7.0	.206	.102	.029	.202	.101	.029	.196	.099	.028	.189	.097	.028	.184	.095	.028	
8.0	.191	.093	.026	.188	.093	.026	.182	.091	.026	.176	.089	.026	.171	.088	.026	
9.0	.178	.086	.024	.175	.086	.024	.170	.084	.024	.165	.083	.024	.161	.082	.024	
10.0	.167	.080	.022	.165	.079	.022	.160	.078	.022	.155	.077	.022	.151	.076	.022	

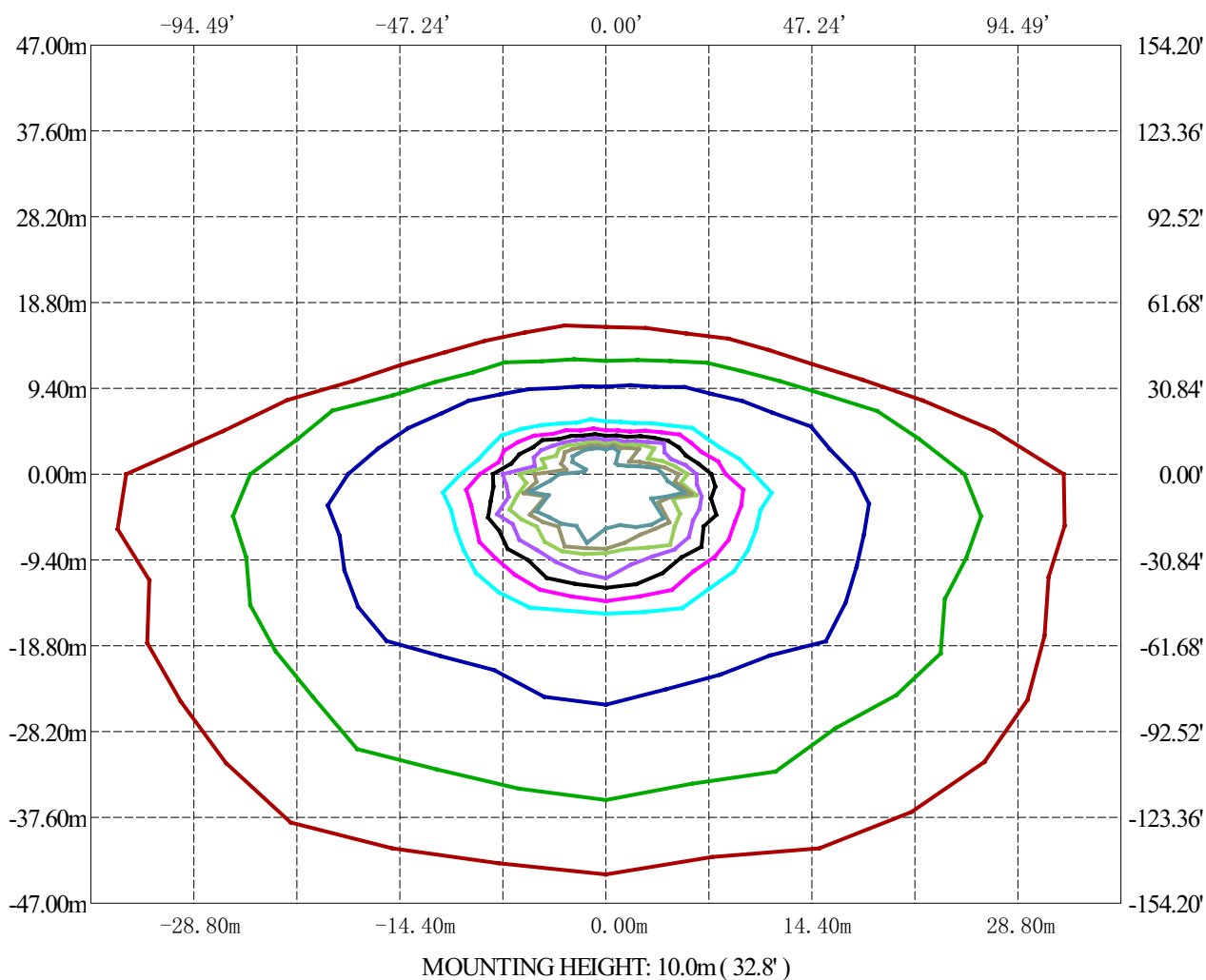
p <sub>cc</sub>	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.186	.155	.128	.159	.133	.110	.109	.092	.076	.063	.053	.044	.020	.017	.014	
2.0	.178	.132	.093	.152	.113	.080	.104	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.169	.114	.071	.145	.099	.061	.100	.069	.043	.058	.040	.025	.019	.013	.008	
4.0	.161	.101	.056	.138	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.153	.091	.045	.131	.079	.039	.091	.055	.028	.052	.032	.017	.017	.011	.005	
6.0	.145	.083	.038	.125	.072	.033	.086	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.138	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Angle Range: 0-360Deg      γ Range: 0-90Deg      Test No.: NO  
 C Precious: 10 Deg      γ Precious: 1 Deg      Tester: peng  
 Distance: 5.000 m      Date: 2014-07-01      Time: 17:15:18  
 Other:

## SSP6316-D50: Lamp Space Intensity Distribution

### ISOLUX Diagram

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm



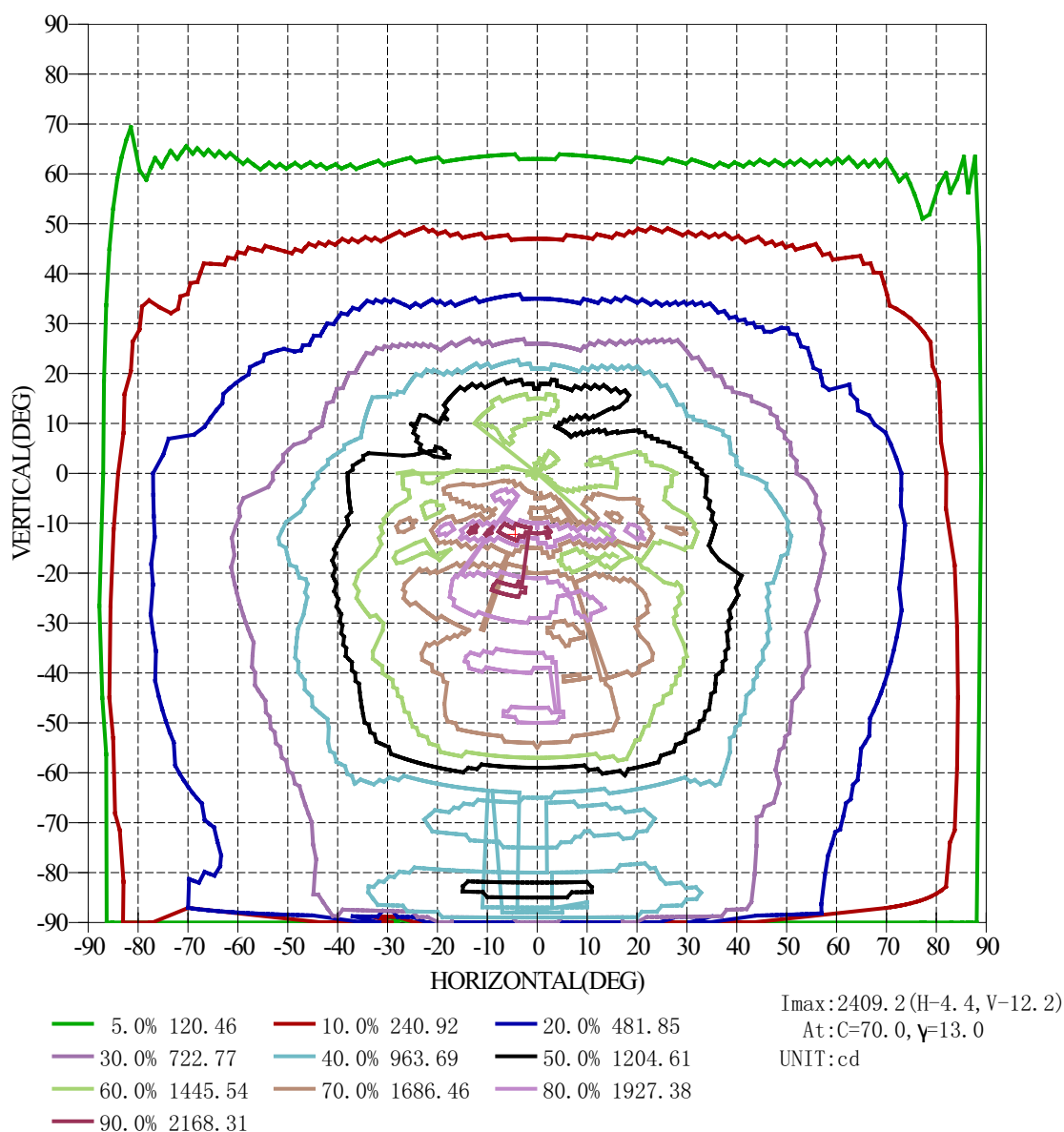
3.0% 0.4378lx 0.0407fc	5.0% 0.7296lx 0.0678fc	10.0% 1.4592lx 0.1356fc
30.0% 4.3776lx 0.4067fc	40.0% 5.8368lx 0.5422fc	50.0% 7.2960lx 0.6778fc
60.0% 8.7552lx 0.8134fc	70.0% 10.214lx 0.9489fc	80.0% 11.674lx 1.0845fc
90.0% 13.133lx 1.2200fc		

C Angle Range:	0-360Deg	γ Range:	0-90Deg	Test No. :	NO
C Precious:	10 Deg	γ Precious:	1 Deg	Tester:	peng
Distance:	5.000 m	Date:	2014-07-01	Time:	17:15:18
Other:					

## SSP6316-D50: Lamp Space Intensity Distribution

### ISOCANDELA Diagram

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm

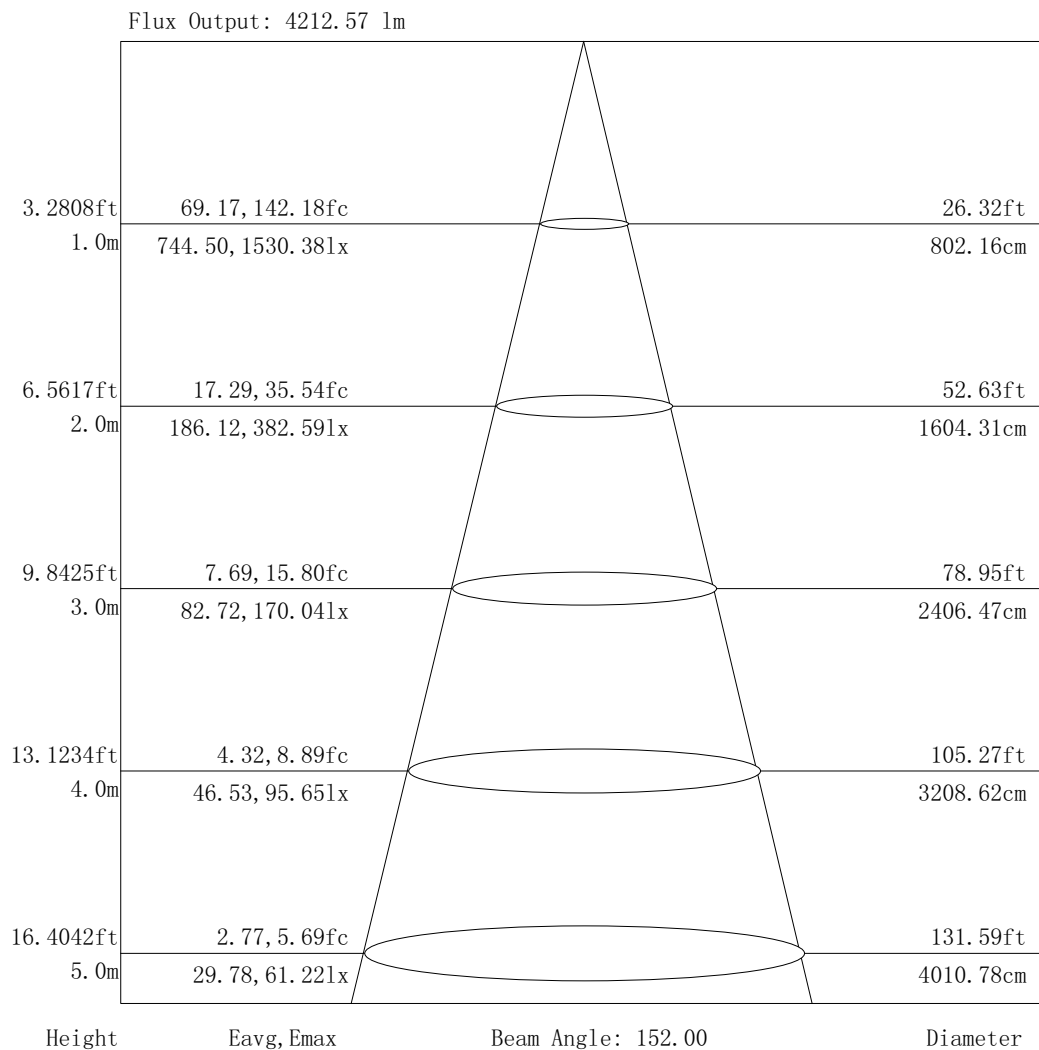


C Angle Range:	0-360Deg	γ Range:	0-90Deg	Test No.:	NO
C Precious:	10 Deg	γ Precious:	1 Deg	Tester:	peng
Distance:	5.000 m	Date:	2014-07-01	Time:	17:15:18
Other:					

## SSP6316-D50: Lamp Space Intensity Distribution

### Effective Average Illuminance Diagram

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm



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

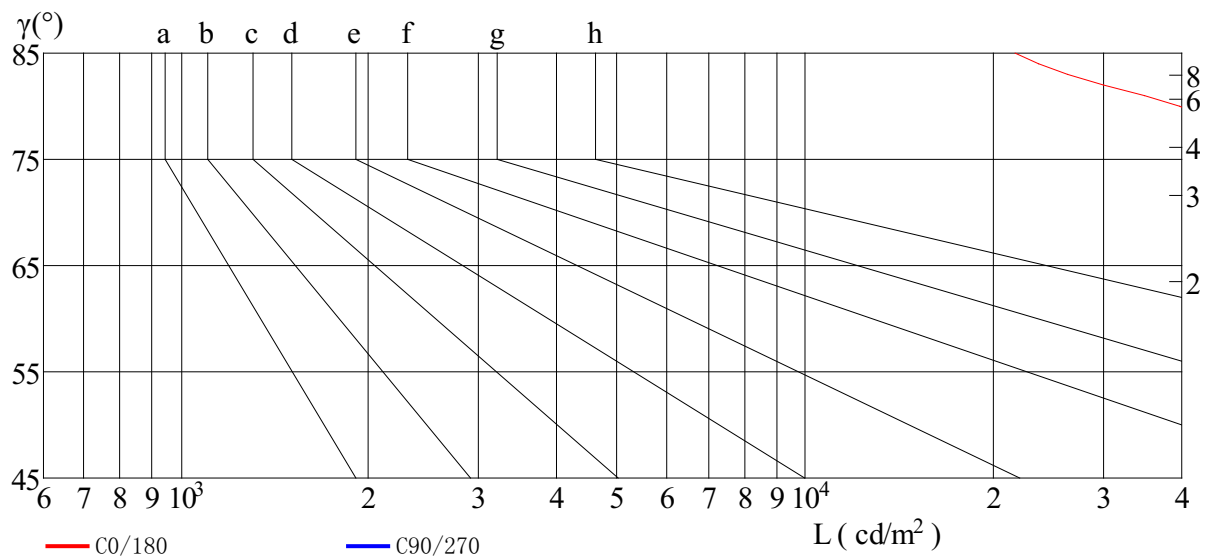
C Angle Range:	0-360Deg	γ Range:	0-90Deg	Test No.:	NO
C Precious:	10 Deg	γ Precious:	1 Deg	Tester:	peng
Distance:	5.000 m	Date:	2014-07-01	Time:	17:15:18
Other:					

## SSP6316-D50: Lamp Space Intensity Distribution

### Luminance Limitation Curves

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



C/Gama	85	80	75	70	65	60	55	50	45	Unit
C0	21634	39697	51204	52902	55860	63828	66554	76451	90672	cd/m2
C90	124974	96241	95354	96631	96102	108468	164965	194511	183360	

C Angle Range: 0-360Deg       $\gamma$  Range: 0-90Deg      Test No.: NO  
 C Precious: 10 Deg       $\gamma$  Precious: 1 Deg      Tester: peng  
 Distance: 5.000 m      Date: 2014-07-01      Time: 17:15:18  
 Other:



## SSP6316-D50: Lamp Space Intensity Distribution Tester

### UTILIZATION FACTORS TABLE

Lamp Description					
Lamp Name:	BNL-WP80W	Lamp Des:		Lamp Weight:	0.000Kg
Manufac:	Benory lighting	Lamp Size(cm):	0.0*0.0*0.0	Light Area(cm):	0.0*0.0
Electrical:	U:229.200V I:0.358A P:79.300W Pf:0.9670			LuminareFlux:	1*0.00 lm

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 (PERFECT) $k(RI) \times RCR = 5$									
k = 0.60	56	43	36	55	43	36	53	43	36	29
0.80	66	53	45	64	52	45	62	51	44	37
1.00	74	61	53	72	61	53	69	59	52	44
1.25	80	69	61	79	68	60	75	66	59	51
1.50	85	74	66	83	73	66	80	71	64	56
2.00	92	82	75	90	81	74	86	78	72	63
2.50	96	87	80	93	85	79	89	82	77	67
3.00	99	91	84	97	89	83	92	86	81	71
4.00	103	96	90	101	94	89	96	91	86	76
5.00	106	100	95	103	98	93	98	94	90	79
ROOM INDEX	UF(total)									Direct
According to BS EN 13032-2004			Suspended				SHRNOM=1.25			

C Angle Range:	0-360Deg	γ Range:	0-90Deg	Test No.:	NO
C Precious:	10 Deg	γ Precious:	1 Deg	Tester:	peng
Distance:	5.000 m	Date:	2014-07-01	Time:	17:15:18
Other:					