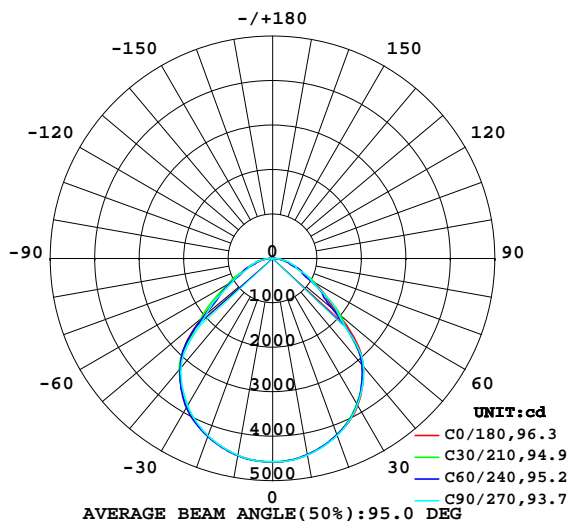


## LUMINAIRE PHOTOMETRIC TEST REPORT

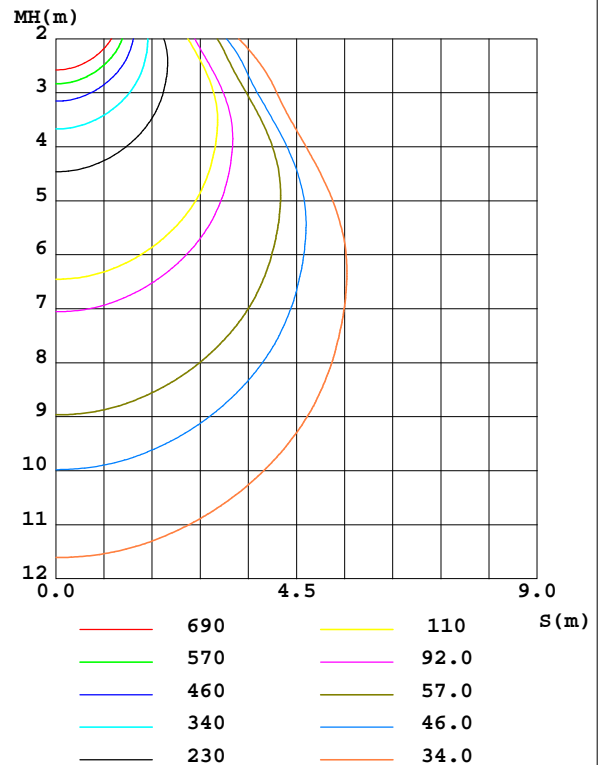
Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 116.61 lm/W
MODEL		Imax(cd)	4576	S/MH(C0/180)	1.25	
NOMINAL POWER(W)	90	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	10463	$\eta$ UP,DN(C0-180)	0.2,48.5	
NOMINAL FLUX(lm)	10463.4	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.2,51.1	
LAMPS INSIDE	1	$\eta$ up(%)	0.4	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	229.5	$\eta$ down(%)	99.6	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM**
**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	4484	4482	4492	4468	4499	4506	4497	4518	0- 10	433.1	433.1	4.14,4.14
20	4232	4221	4237	4197	4252	4263	4244	4285	10- 20	1237	1670	16,16
30	3823	3789	3806	3758	3869	3864	3821	3898	20- 30	1870	3541	33.8,33.8
40	3174	3145	3188	3091	3232	3257	3212	3291	30- 40	2209	5750	55,55
50	1902	1877	1931	1830	2082	2066	1951	2112	40- 50	2023	7773	74.3,74.3
60	1025	1022	1007	988.9	1112	1128	1051	1153	50- 60	1323	9096	86.9,86.9
70	533.3	520.0	570.7	502.1	586.2	577.7	568.8	591.4	60- 70	767.7	9864	94.3,94.3
80	241.4	245.6	252.4	231.8	274.6	273.2	261.5	300.5	70- 80	418.1	10282	98.3,98.3
90	1.556	1.543	1.495	1.599	3.537	9.619	2.101	18.95	80- 90	134.4	10416	99.6,99.6
100	3.336	3.398	3.209	3.497	3.359	3.264	3.314	3.113	90-100	2.846	10419	99.6,99.6
110	5.927	5.990	5.773	6.133	5.831	5.674	5.695	5.447	100-110	4.789	10424	99.6,99.6
120	8.206	8.295	8.201	8.483	8.146	7.976	7.919	7.696	110-120	6.956	10431	99.7,99.7
130	9.435	9.613	9.603	9.775	9.394	9.259	9.154	8.952	120-130	7.919	10439	99.8,99.8
140	10.10	10.30	10.36	10.48	10.05	9.898	9.787	9.551	130-140	7.540	10447	99.8,99.8
150	11.33	11.54	11.61	11.72	11.26	11.06	11.01	10.72	140-150	6.611	10453	99.9,99.9
160	12.34	12.52	12.48	12.60	12.31	12.20	12.12	11.99	150-160	5.469	10459	100,100
170	12.98	13.03	13.13	13.01	13.01	12.85	12.98	12.71	160-170	3.578	10462	100,100
180	13.41	13.31	13.43	13.26	13.42	13.31	13.43	13.26	170-180	1.250	10463	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

**Conical surface Flux(90deg): 6844 lm**
**%lum = 65.4%**
**%lamp = 65.4%**
**Conical surface Flux(130deg): 9533.9 lm**
**%lum = 91.1%**
**%lamp = 91.1%**

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3°C**  
**Operators:Mr.Ma**  
**Test Date:2024-10-11**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity:65.0%**  
**Test Distance:6.100m [K=1.0000]**  
**Remarks:**

## LUMINANCE LIMITATION CURVES

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz  
Lamp Flux:10463.4x1 lm

NAME: LED348 (90W 4000K Uplight off)

TYPE:

WEIGHT:

SPEC.:

DIM.:

SERIAL No.:

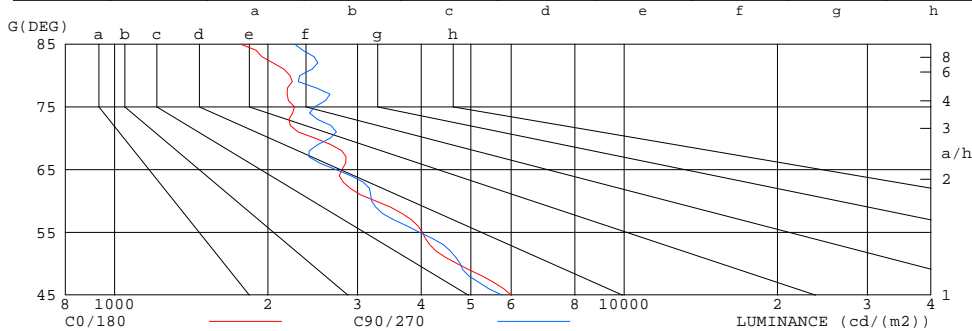
MFR.:

SUR.:

Shielding Angle:

LUMINANCE LIMITATION CURVES

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



LUMINANCE cd/(m2)

G (DEG)	C0/180	C90/270
85	1769	2259
80	2210	2307
75	2256	2468
70	2479	2648
65	2791	2722
60	3258	3195
55	4019	3969
50	4705	4768
45	6006	5767

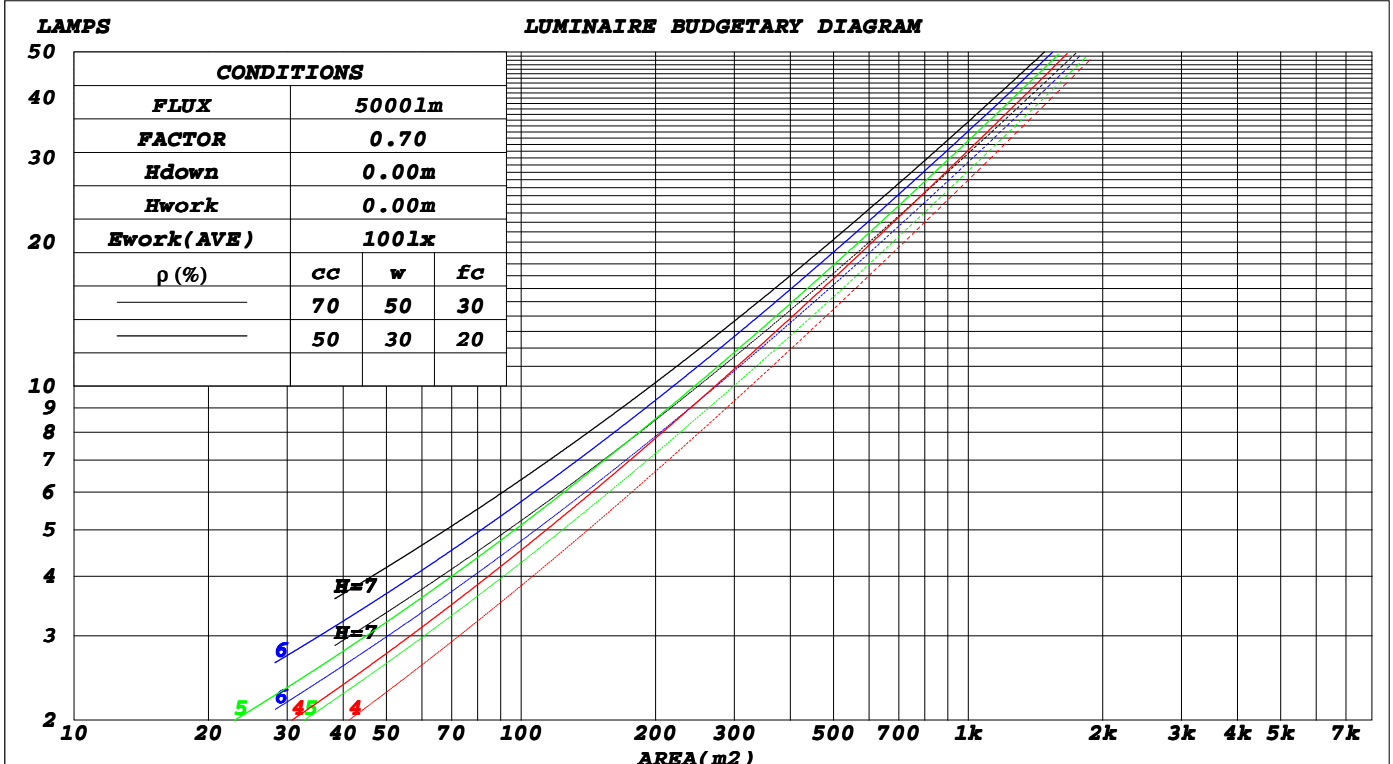
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024-10-11

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	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	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.73	.69	.77	.72	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.68	.60	.53	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.51	.49
6.0	.62	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm					
NAME: LED348 (90W 4000K Uplight off)			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

$\rho_{cc}$	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															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.270	.153	.049	.263	.150	.048	.249	.143	.046	.237	.137	.044	.226	.131	.042															
2.0	.257	.141	.043	.251	.138	.043	.239	.133	.041	.228	.128	.040	.219	.124	.039															
3.0	.241	.128	.038	.235	.126	.038	.225	.122	.037	.216	.118	.036	.207	.115	.035															
4.0	.225	.117	.034	.220	.115	.034	.211	.112	.033	.203	.109	.033	.195	.106	.032															
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.029															
6.0	.197	.099	.028	.193	.098	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027															
7.0	.185	.091	.026	.182	.090	.026	.175	.089	.026	.169	.087	.025	.164	.085	.025															
8.0	.174	.085	.024	.171	.084	.024	.165	.083	.024	.160	.081	.023	.155	.079	.023															
9.0	.164	.079	.022	.161	.079	.022	.156	.077	.022	.151	.076	.022	.147	.075	.022															
10.0	.155	.074	.021	.153	.074	.021	.148	.072	.020	.144	.071	.020	.139	.070	.020															

$\rho_{cc}$	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                      Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.181	.160	.141	.155	.137	.121	.106	.094	.084	.061	.055	.049	.020	.018	.016	
2.0	.171	.136	.106	.147	.117	.091	.100	.081	.064	.058	.047	.037	.019	.015	.012	
3.0	.162	.118	.082	.139	.101	.071	.096	.070	.050	.055	.041	.029	.018	.013	.010	
4.0	.154	.104	.065	.133	.090	.057	.091	.063	.040	.053	.037	.024	.017	.012	.008	
5.0	.147	.093	.054	.126	.081	.047	.087	.056	.033	.050	.033	.020	.016	.011	.006	
6.0	.140	.085	.045	.120	.073	.039	.083	.051	.028	.048	.030	.017	.016	.010	.005	
7.0	.134	.078	.039	.115	.067	.034	.079	.047	.024	.046	.028	.014	.015	.009	.005	
8.0	.128	.072	.034	.110	.062	.029	.076	.044	.021	.044	.026	.012	.014	.008	.004	
9.0	.122	.067	.030	.105	.058	.026	.073	.041	.019	.042	.024	.011	.014	.008	.004	
10.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3°C  
**Operators:** Mr.Ma  
**Test Date:** 2024-10-11

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
**Humidity:** 65.0%  
**Test Distance:** 6.100m [K=1.0000]  
**Remarks:**

**UGR(Unified Glare Rating) Table**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm										
NAME: LED348 (90W 4000K Uplight off)					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
<b>ceiling/cavity</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>walls</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>working plane</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	<b>9.0</b>	<b>10.4</b>	<b>9.3</b>	<b>10.6</b>	<b>10.8</b>	<b>8.7</b>	<b>10.1</b>	<b>9.0</b>	<b>10.3</b>	<b>10.5</b>
<b>3H</b>	<b>9.7</b>	<b>11.0</b>	<b>10.0</b>	<b>11.2</b>	<b>11.4</b>	<b>9.5</b>	<b>10.7</b>	<b>9.7</b>	<b>11.0</b>	<b>11.2</b>
<b>4H</b>	<b>10.0</b>	<b>11.2</b>	<b>10.3</b>	<b>11.4</b>	<b>11.7</b>	<b>9.8</b>	<b>11.0</b>	<b>10.1</b>	<b>11.3</b>	<b>11.5</b>
<b>6H</b>	<b>10.3</b>	<b>11.4</b>	<b>10.6</b>	<b>11.7</b>	<b>11.9</b>	<b>10.1</b>	<b>11.3</b>	<b>10.5</b>	<b>11.6</b>	<b>11.8</b>
<b>8H</b>	<b>10.3</b>	<b>11.4</b>	<b>10.7</b>	<b>11.7</b>	<b>12.0</b>	<b>10.3</b>	<b>11.4</b>	<b>10.6</b>	<b>11.7</b>	<b>12.0</b>
<b>12H</b>	<b>10.4</b>	<b>11.4</b>	<b>10.7</b>	<b>11.7</b>	<b>12.0</b>	<b>10.4</b>	<b>11.4</b>	<b>10.7</b>	<b>11.7</b>	<b>12.0</b>
<b>4H 2H</b>	<b>9.2</b>	<b>10.4</b>	<b>9.5</b>	<b>10.7</b>	<b>10.9</b>	<b>9.0</b>	<b>10.2</b>	<b>9.3</b>	<b>10.5</b>	<b>10.7</b>
<b>3H</b>	<b>10.1</b>	<b>11.2</b>	<b>10.5</b>	<b>11.5</b>	<b>11.8</b>	<b>9.9</b>	<b>10.9</b>	<b>10.2</b>	<b>11.2</b>	<b>11.5</b>
<b>4H</b>	<b>10.6</b>	<b>11.5</b>	<b>11.0</b>	<b>11.9</b>	<b>12.2</b>	<b>10.4</b>	<b>11.3</b>	<b>10.8</b>	<b>11.7</b>	<b>12.0</b>
<b>6H</b>	<b>11.0</b>	<b>11.8</b>	<b>11.4</b>	<b>12.2</b>	<b>12.5</b>	<b>10.8</b>	<b>11.7</b>	<b>11.2</b>	<b>12.0</b>	<b>12.4</b>
<b>8H</b>	<b>11.1</b>	<b>11.9</b>	<b>11.5</b>	<b>12.3</b>	<b>12.7</b>	<b>11.1</b>	<b>11.8</b>	<b>11.5</b>	<b>12.2</b>	<b>12.6</b>
<b>12H</b>	<b>11.2</b>	<b>11.9</b>	<b>11.7</b>	<b>12.3</b>	<b>12.7</b>	<b>11.2</b>	<b>11.9</b>	<b>11.6</b>	<b>12.3</b>	<b>12.7</b>
<b>8H 4H</b>	<b>10.7</b>	<b>11.5</b>	<b>11.1</b>	<b>11.9</b>	<b>12.3</b>	<b>10.5</b>	<b>11.3</b>	<b>11.0</b>	<b>11.7</b>	<b>12.1</b>
<b>6H</b>	<b>11.3</b>	<b>11.9</b>	<b>11.7</b>	<b>12.3</b>	<b>12.8</b>	<b>11.1</b>	<b>11.8</b>	<b>11.6</b>	<b>12.2</b>	<b>12.6</b>
<b>8H</b>	<b>11.5</b>	<b>12.1</b>	<b>12.0</b>	<b>12.5</b>	<b>13.0</b>	<b>11.4</b>	<b>12.0</b>	<b>11.9</b>	<b>12.4</b>	<b>12.9</b>
<b>12H</b>	<b>11.7</b>	<b>12.2</b>	<b>12.2</b>	<b>12.6</b>	<b>13.1</b>	<b>11.6</b>	<b>12.1</b>	<b>12.1</b>	<b>12.6</b>	<b>13.1</b>
<b>12H 4H</b>	<b>10.7</b>	<b>11.4</b>	<b>11.2</b>	<b>11.8</b>	<b>12.2</b>	<b>10.5</b>	<b>11.3</b>	<b>11.0</b>	<b>11.6</b>	<b>12.1</b>
<b>6H</b>	<b>11.3</b>	<b>11.9</b>	<b>11.8</b>	<b>12.3</b>	<b>12.8</b>	<b>11.2</b>	<b>11.8</b>	<b>11.6</b>	<b>12.2</b>	<b>12.6</b>
<b>8H</b>	<b>11.6</b>	<b>12.1</b>	<b>12.1</b>	<b>12.5</b>	<b>13.0</b>	<b>11.5</b>	<b>12.0</b>	<b>12.0</b>	<b>12.4</b>	<b>12.9</b>
<b>Variations with the observer position at spacings(CIE Pub.117):</b>										
<b>S = 1.0H</b>	<b>+ 0.4 / - 0.4</b>					<b>+ 0.5 / - 0.6</b>				
<b>1.5H</b>	<b>+ 0.3 / - 0.5</b>					<b>+ 0.2 / - 0.2</b>				
<b>2.0H</b>	<b>+ 0.9 / - 0.8</b>					<b>+ 1.1 / - 0.9</b>				

CIE Pub.117, 10463 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.2$ )  
Area: 0.63 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:Mr.Ma  
Test Date:2024-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:6.100m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

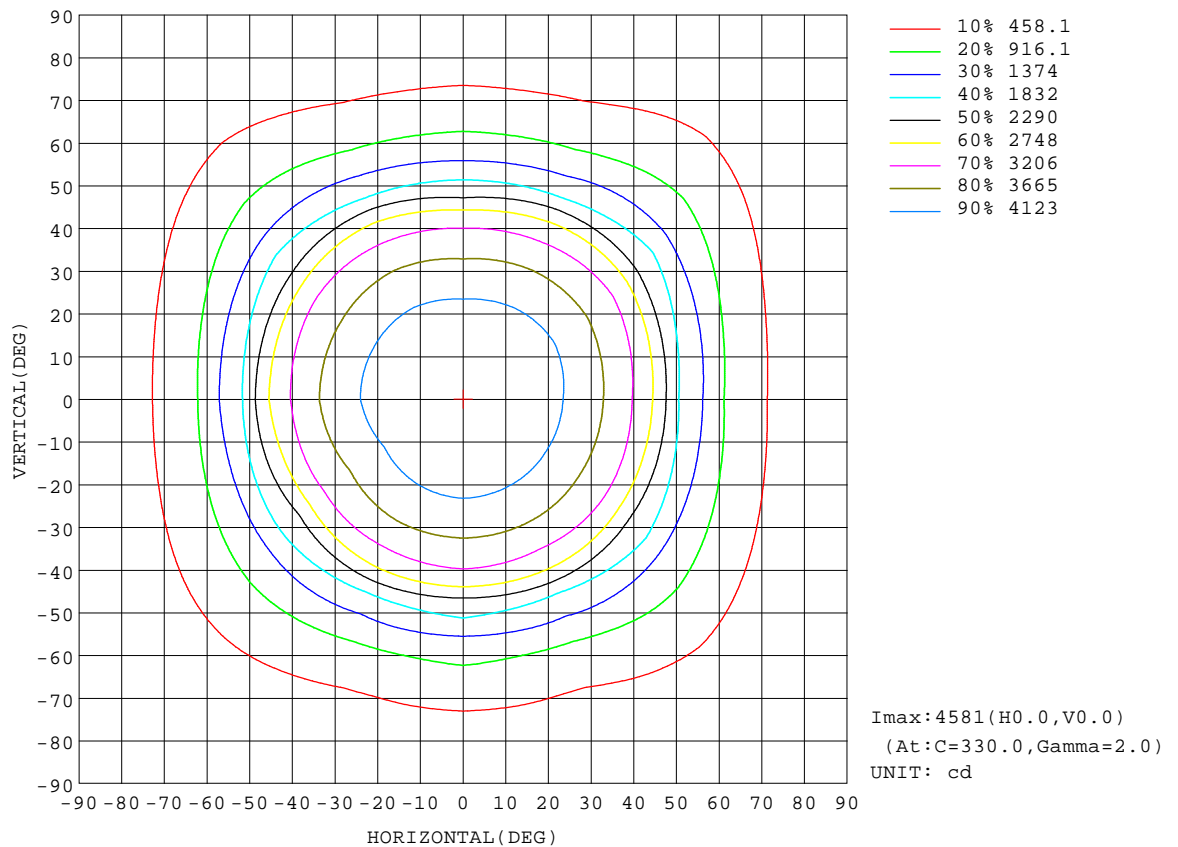
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	63	53	46	62	52	46	40
0.80	73	63	57	72	63	56	71	62	56	50
1.00	82	72	65	80	71	65	78	72	65	58
1.25	88	79	73	87	78	73	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	91	86	97	90	85	94	88	84	76
2.50	102	95	90	100	94	89	96	91	87	80
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	87
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:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3°C  
**Operators:** Mr.Ma  
**Test Date:** 2024-10-11

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
**Humidity:** 65.0%  
**Test Distance:** 6.100m [K=1.0000]  
**Remarks:**

**ISOCANDELA DIAGRAM**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



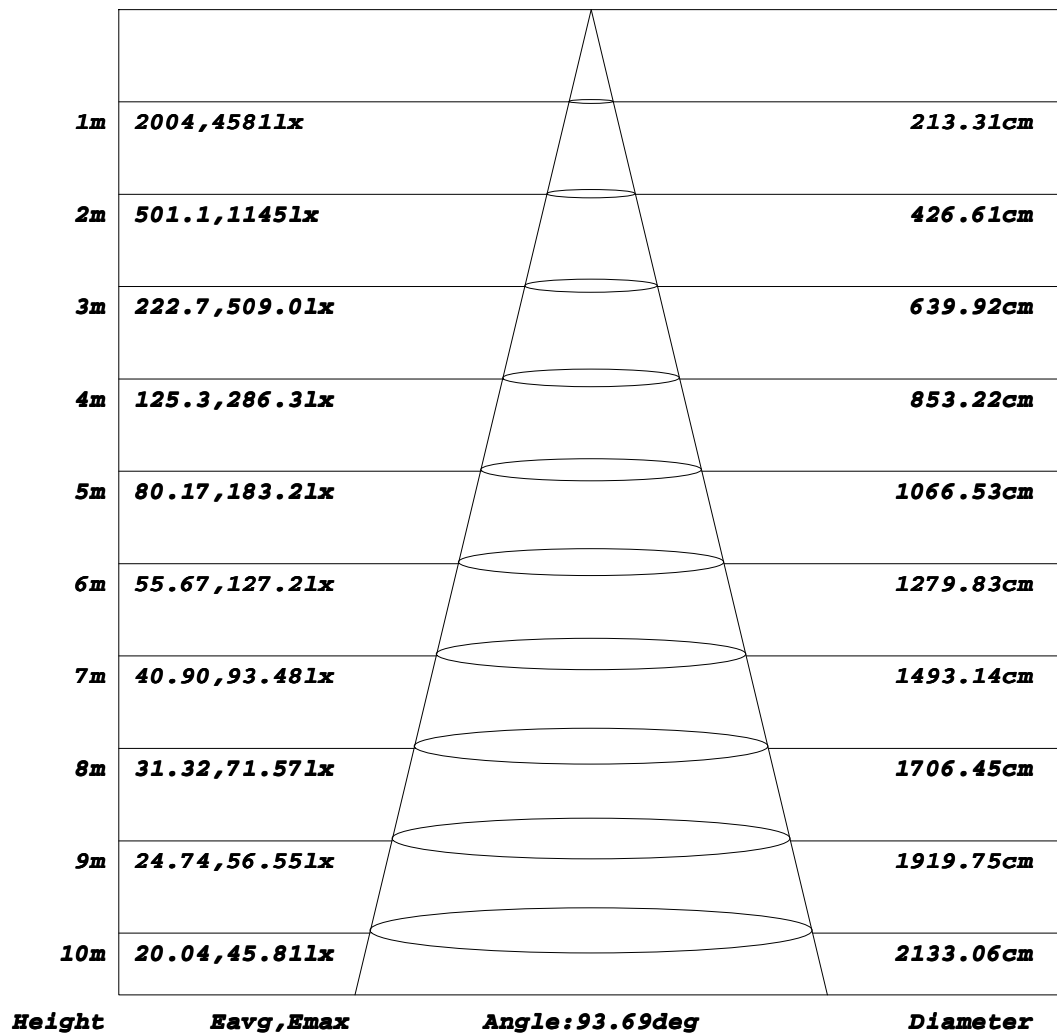
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3°C**  
**Operators:Mr.Ma**  
**Test Date:2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity:65.0%**  
**Test Distance:6.100m [K=1.0000]**  
**Remarks:**



**AAI Figure**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

**Flux out:7241 lm**


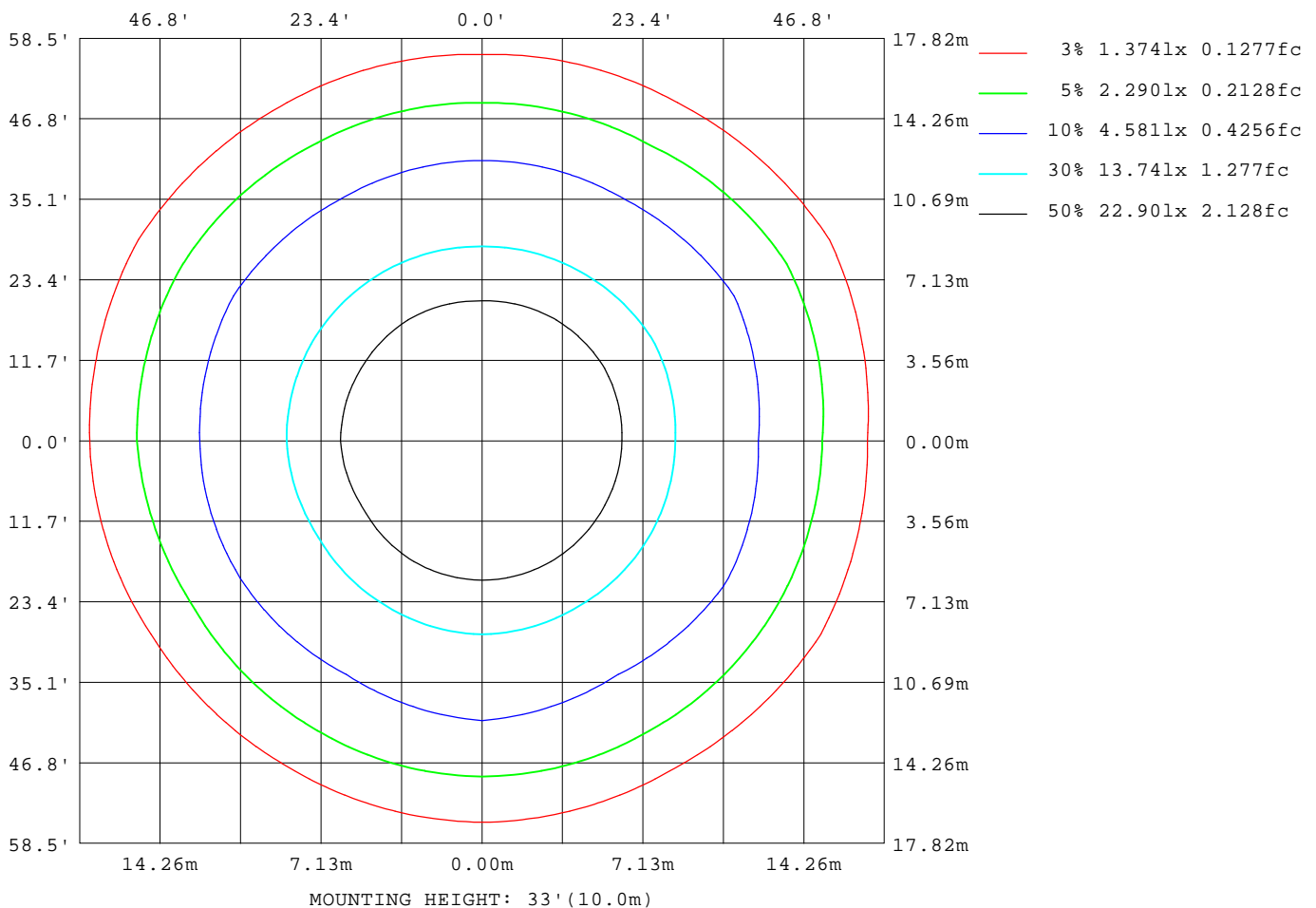
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3°C  
**Operators:** Mr.Ma  
**Test Date:** 2024-10-11

**γ Range:** 0 - 180DEG  
**γ Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
**Humidity:** 65.0%  
**Test Distance:** 6.100m [K=1.0000]  
**Remarks:**

**ISOLUX DIAGRAM**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3°C**  
**Operators: Mr.Ma**  
**Test Date: 2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**

### LED Avg.L Report

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm		
NAME: LED348 (90W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

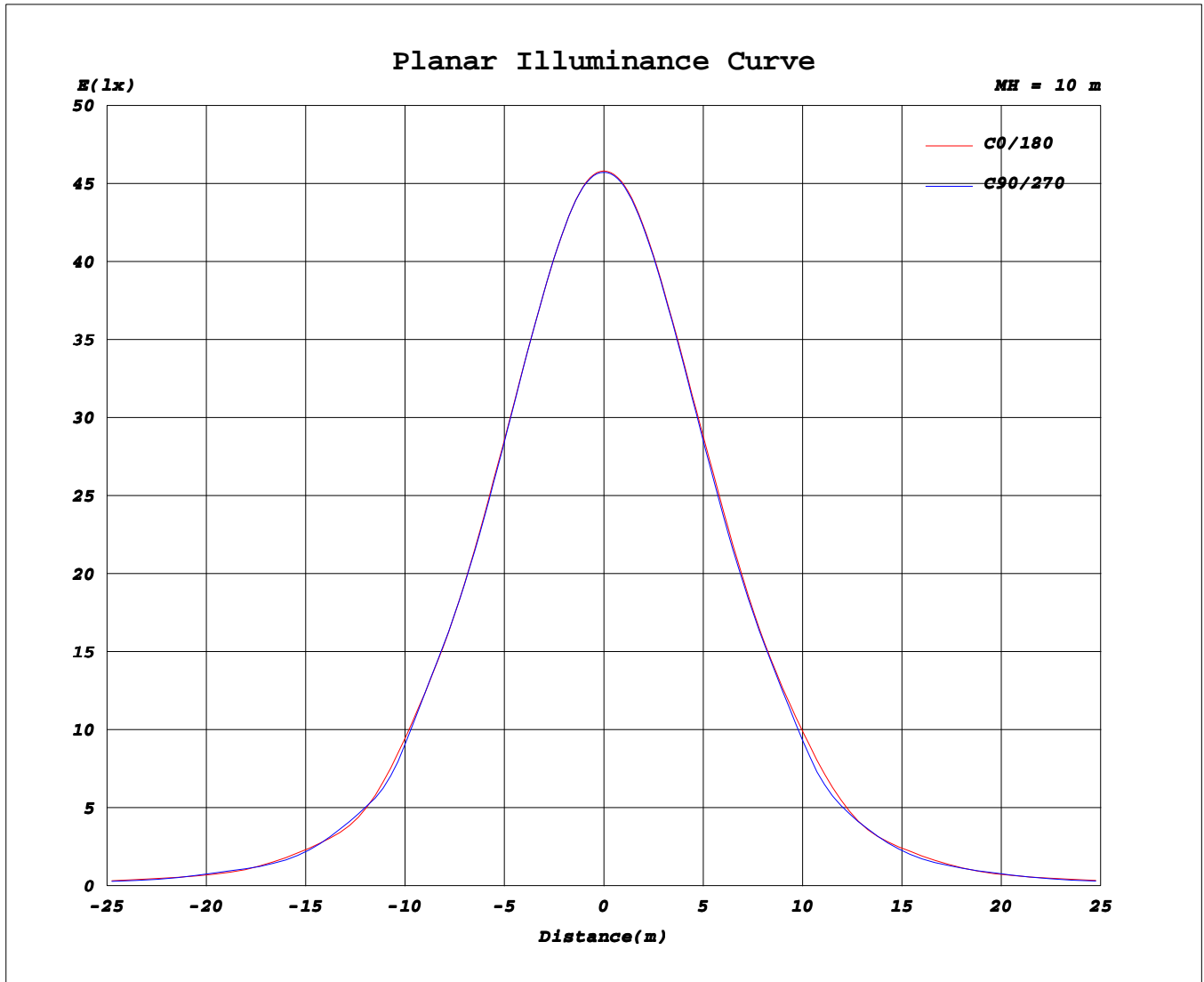
AvgL	cd/m2
L_0~180(65)av	2821
L_0~180(75)av	2314
L_0~180(85)av	2021
L_90~270(65)av	2774
L_90~270(75)av	2497
L_90~270(85)av	2382
L_45(65)av	2870
L_45(75)av	2428
L_45(85)av	2201

Standard: GB/T 29293-2012

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3℃**  
**Operators:Mr.Ma**  
**Test Date:2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity:65.0%**  
**Test Distance:6.100m [K=1.0000]**  
**Remarks:**

**Planar Illuminance Curve**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3°C**  
**Operators: Mr.Ma**  
**Test Date: 2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:228.93V I:0.3992A P:89.729W PF:0.9819 Freq:50.00Hz Lamp Flux:10463.4x1 lm																	
NAME: LED348 (90W 4000K Uplight off)									TYPE:			WEIGHT:					
SPEC.:									DIM.:			SERIAL No.:					
MFR.:									SUR.:			Shielding Angle:					

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4574	4574	4574	4574	4574	4574	4574	4574	4574	4574	4574	4574						
5	4556	4555	4556	4558	4551	4543	4562	4563	4564	4560	4565	4571						
10	4484	4482	4482	4492	4477	4460	4499	4504	4507	4497	4511	4526						
15	4373	4369	4367	4383	4361	4338	4392	4400	4405	4389	4409	4431						
20	4232	4220	4222	4237	4211	4182	4252	4262	4263	4244	4270	4299						
25	4056	4029	4045	4051	4031	3983	4084	4082	4095	4062	4104	4128						
30	3823	3780	3798	3806	3791	3724	3869	3848	3880	3821	3890	3906						
35	3519	3495	3481	3518	3476	3434	3577	3575	3594	3539	3599	3638						
40	3174	3164	3126	3188	3105	3078	3232	3270	3245	3212	3252	3331						
45	2672	2522	2560	2570	2544	2405	2800	2764	2796	2639	2796	2886						
50	1902	1999	1755	1931	1747	1914	2082	2105	2026	1951	2041	2183						
55	1450	1458	1364	1434	1341	1384	1496	1627	1441	1462	1438	1726						
60	1025	1089	955	1007	952	1026	1112	1168	1088	1051	1092	1214						
65	742	717	724	725	711	688	760	845	749	752	749	915						
70	533	565	475	571	480	525	586	577	578	569	585	598						
75	367	419	353	403	364	381	387	423	389	412	380	454						
80	241	252	239	252	236	227	275	282	264	261	273	328						
85	97.0	105	92.2	124	90.1	79.2	125	149	133	138	134	184						
90	1.56	1.56	1.52	1.50	1.53	1.66	3.54	10.1	9.10	2.10	9.78	28.1						
95	2.26	2.33	2.28	2.18	2.31	2.53	2.35	2.32	2.23	2.36	2.22	2.16						
100	3.34	3.41	3.38	3.21	3.37	3.63	3.36	3.32	3.21	3.31	3.16	3.07						
105	4.60	4.70	4.64	4.46	4.65	4.93	4.53	4.49	4.34	4.48	4.28	4.18						
110	5.93	6.02	5.97	5.77	5.99	6.28	5.83	5.75	5.60	5.70	5.51	5.38						
115	7.16	7.23	7.27	7.07	7.25	7.57	7.07	7.00	6.79	6.92	6.73	6.57						
120	8.21	8.25	8.34	8.20	8.38	8.59	8.15	8.03	7.92	7.92	7.79	7.61						
125	8.95	9.01	9.16	9.02	9.18	9.33	8.90	8.81	8.71	8.67	8.56	8.35						
130	9.44	9.53	9.70	9.60	9.72	9.83	9.39	9.30	9.22	9.15	9.04	8.86						
135	9.79	9.90	10.1	10.0	10.1	10.2	9.74	9.64	9.56	9.49	9.35	9.20						
140	10.1	10.2	10.4	10.4	10.5	10.5	10.1	9.95	9.85	9.79	9.62	9.48						
145	10.5	10.6	10.8	10.8	10.9	11.0	10.4	10.3	10.2	10.2	9.95	9.82						
150	11.3	11.5	11.6	11.6	11.7	11.7	11.3	11.1	11.0	11.0	10.8	10.7						
155	11.9	12.1	12.1	12.1	12.2	12.2	11.9	11.8	11.7	11.6	11.5	11.4						
160	12.3	12.5	12.5	12.5	12.7	12.5	12.3	12.2	12.2	12.1	12.0	12.0						
165	12.7	12.9	12.8	12.8	12.9	12.7	12.7	12.6	12.6	12.7	12.4	12.4						
170	13.0	13.1	13.0	13.1	13.1	12.9	13.0	12.9	12.8	13.0	12.7	12.7						
175	13.3	13.3	13.1	13.3	13.2	13.1	13.3	13.1	13.1	13.2	13.0	13.0						
180	13.4	13.4	13.3	13.4	13.3	13.2	13.4	13.4	13.3	13.4	13.3	13.2						

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3°C**  
**Operators: Mr.Ma**  
**Test Date: 2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**