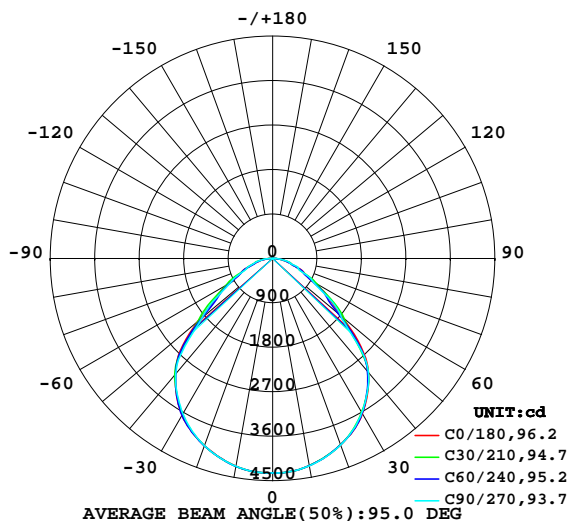


## LUMINAIRE PHOTOMETRIC TEST REPORT

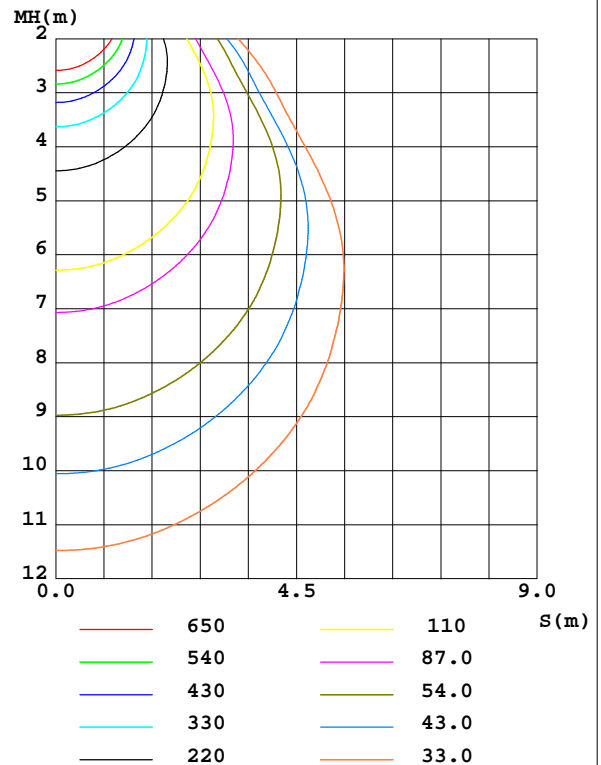
Test:U:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 111.40 lm/W
MODEL		Imax(cd)	4345	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)	9939.5	$\eta$ UP,DN(C0-180)	0.2,48.7	
NOMINAL FLUX(lm)	9939.48	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.2,50.8	
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	4261	4260	4263	4245	4270	4275	4273	4287	0- 10	411.2	411.2	4.14,4.14
20	4022	4015	4018	3989	4033	4039	4034	4064	10- 20	1175	1586	16,16
30	3632	3613	3609	3575	3668	3656	3634	3694	20- 30	1775	3362	33.8,33.8
40	3018	3001	3015	2944	3064	3072	3056	3116	30- 40	2097	5459	54.9,54.9
50	1827	1805	1806	1769	1962	1925	1861	1989	40- 50	1919	7378	74.2,74.2
60	976.5	989.5	952.6	944.9	1048	1048	999.2	1085	50- 60	1257	8636	86.9,86.9
70	515.6	519.0	551.9	502.2	555.3	540.6	546.2	559.1	60- 70	732.9	9369	94.3,94.3
80	228.8	238.6	240.8	222.2	254.9	253.9	254.3	280.4	70- 80	399.0	9768	98.3,98.3
90	1.480	1.457	1.429	1.510	3.198	4.977	2.358	14.63	80- 90	127.7	9895	99.6,99.6
100	3.159	3.155	3.066	3.274	3.190	3.133	3.127	2.995	90-100	2.608	9898	99.6,99.6
110	5.635	5.619	5.491	5.743	5.549	5.408	5.369	5.240	100-110	4.537	9902	99.6,99.6
120	7.821	7.837	7.754	7.912	7.666	7.526	7.466	7.369	110-120	6.580	9909	99.7,99.7
130	9.015	9.102	9.049	9.096	8.823	8.676	8.606	8.571	120-130	7.476	9916	99.8,99.8
140	9.667	9.758	9.736	9.736	9.407	9.228	9.167	9.131	130-140	7.105	9924	99.8,99.8
150	10.79	10.89	10.88	10.93	10.58	10.35	10.31	10.21	140-150	6.220	9930	99.9,99.9
160	11.72	11.79	11.70	11.80	11.61	11.46	11.34	11.35	150-160	5.146	9935	100,100
170	12.32	12.27	12.35	12.25	12.29	12.09	12.18	12.01	160-170	3.369	9938	100,100
180	12.70	12.54	12.63	12.51	12.70	12.53	12.63	12.50	170-180	1.179	9939	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

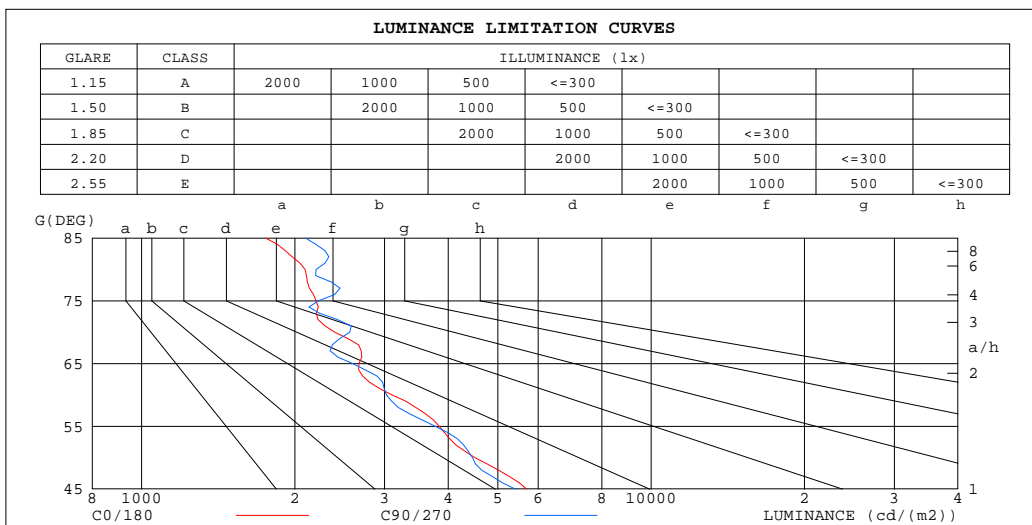
**Conical surface Flux(90deg): 6497.2 lm**
**%lum = 65.4%**
**%lamp = 65.4%**
**Conical surface Flux(130deg): 9052.3 lm**
**%lum = 91.1%**
**%lamp = 91.1%**

**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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1752	2099
80	2093	2201
75	2202	2221
70	2395	2561
65	2670	2597
60	3103	3024
55	3838	3776
50	4516	4460
45	5695	5419

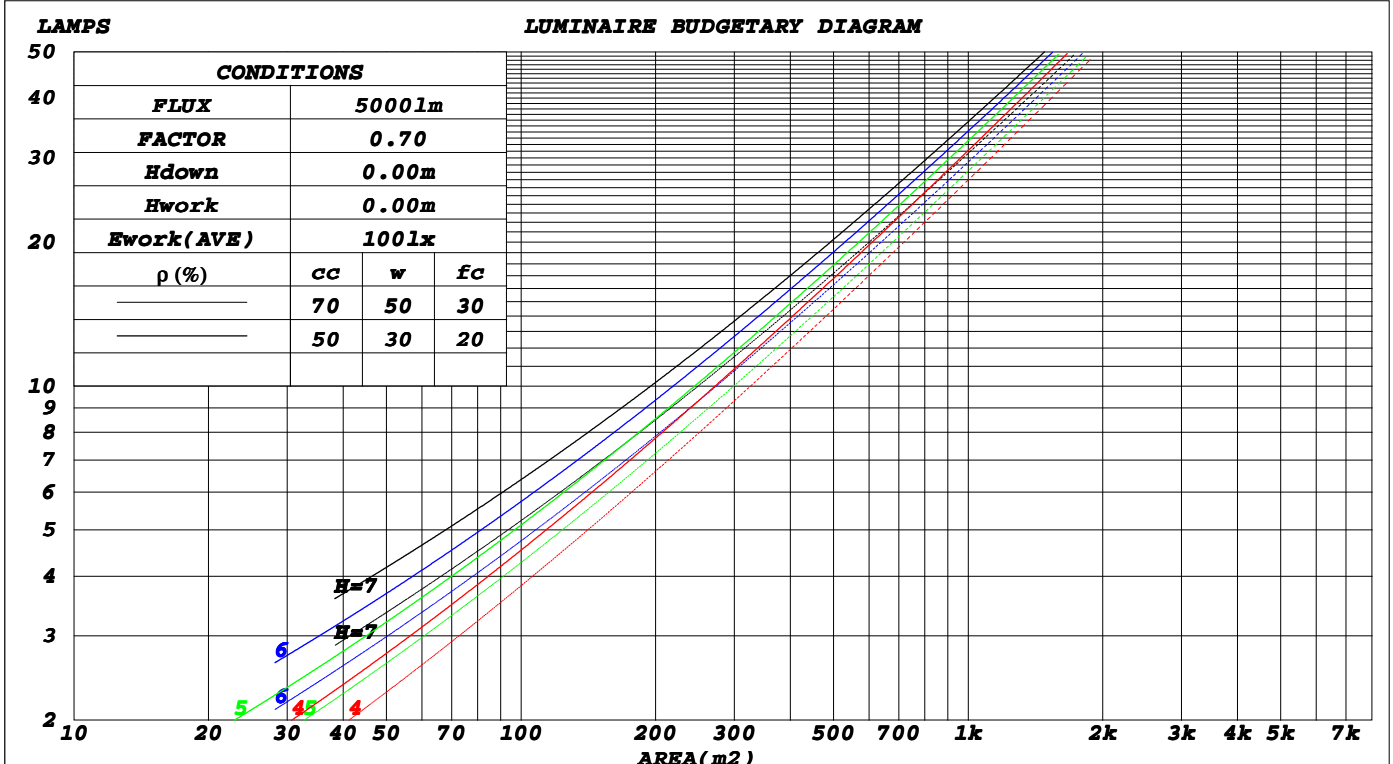
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr. Ma  
Test Date: 2024-10-11

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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K 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	.61	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.47	.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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K 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	.154	.049	.263	.150	.048	.250	.143	.046	.237	.137	.044	.226	.131	.042															
2.0	.257	.141	.043	.251	.138	.043	.239	.133	.041	.229	.128	.040	.219	.124	.039															
3.0	.241	.128	.038	.236	.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	.211	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.030															
6.0	.197	.099	.028	.193	.098	.028	.186	.095	.028	.180	.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	.016	.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	.054	.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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm										
NAME: LED348 (90W 3000K 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>8.8</b>	<b>10.2</b>	<b>9.0</b>	<b>10.4</b>	<b>10.6</b>
<b>3H</b>	<b>9.8</b>	<b>11.0</b>	<b>10.1</b>	<b>11.3</b>	<b>11.5</b>	<b>9.5</b>	<b>10.8</b>	<b>9.8</b>	<b>11.0</b>	<b>11.3</b>
<b>4H</b>	<b>10.1</b>	<b>11.3</b>	<b>10.4</b>	<b>11.5</b>	<b>11.8</b>	<b>9.9</b>	<b>11.1</b>	<b>10.2</b>	<b>11.3</b>	<b>11.6</b>
<b>6H</b>	<b>10.3</b>	<b>11.5</b>	<b>10.7</b>	<b>11.7</b>	<b>12.0</b>	<b>10.2</b>	<b>11.3</b>	<b>10.5</b>	<b>11.6</b>	<b>11.9</b>
<b>8H</b>	<b>10.4</b>	<b>11.5</b>	<b>10.8</b>	<b>11.8</b>	<b>12.1</b>	<b>10.3</b>	<b>11.4</b>	<b>10.7</b>	<b>11.7</b>	<b>12.0</b>
<b>12H</b>	<b>10.5</b>	<b>11.5</b>	<b>10.8</b>	<b>11.8</b>	<b>12.1</b>	<b>10.4</b>	<b>11.5</b>	<b>10.8</b>	<b>11.8</b>	<b>12.1</b>
<b>4H 2H</b>	<b>9.3</b>	<b>10.5</b>	<b>9.6</b>	<b>10.7</b>	<b>11.0</b>	<b>9.1</b>	<b>10.3</b>	<b>9.4</b>	<b>10.5</b>	<b>10.8</b>
<b>3H</b>	<b>10.2</b>	<b>11.2</b>	<b>10.5</b>	<b>11.5</b>	<b>11.8</b>	<b>10.0</b>	<b>11.1</b>	<b>10.4</b>	<b>11.3</b>	<b>11.7</b>
<b>4H</b>	<b>10.7</b>	<b>11.6</b>	<b>11.0</b>	<b>11.9</b>	<b>12.3</b>	<b>10.5</b>	<b>11.4</b>	<b>10.8</b>	<b>11.7</b>	<b>12.1</b>
<b>6H</b>	<b>11.1</b>	<b>11.9</b>	<b>11.5</b>	<b>12.3</b>	<b>12.6</b>	<b>10.9</b>	<b>11.8</b>	<b>11.3</b>	<b>12.1</b>	<b>12.5</b>
<b>8H</b>	<b>11.2</b>	<b>12.0</b>	<b>11.6</b>	<b>12.4</b>	<b>12.8</b>	<b>11.1</b>	<b>11.9</b>	<b>11.5</b>	<b>12.3</b>	<b>12.7</b>
<b>12H</b>	<b>11.3</b>	<b>12.0</b>	<b>11.7</b>	<b>12.4</b>	<b>12.8</b>	<b>11.3</b>	<b>12.0</b>	<b>11.7</b>	<b>12.4</b>	<b>12.8</b>
<b>8H 4H</b>	<b>10.8</b>	<b>11.6</b>	<b>11.2</b>	<b>12.0</b>	<b>12.4</b>	<b>10.6</b>	<b>11.4</b>	<b>11.0</b>	<b>11.8</b>	<b>12.2</b>
<b>6H</b>	<b>11.4</b>	<b>12.0</b>	<b>11.8</b>	<b>12.4</b>	<b>12.9</b>	<b>11.2</b>	<b>11.9</b>	<b>11.7</b>	<b>12.3</b>	<b>12.7</b>
<b>8H</b>	<b>11.6</b>	<b>12.2</b>	<b>12.1</b>	<b>12.6</b>	<b>13.1</b>	<b>11.5</b>	<b>12.1</b>	<b>12.0</b>	<b>12.5</b>	<b>13.0</b>
<b>12H</b>	<b>11.8</b>	<b>12.3</b>	<b>12.3</b>	<b>12.7</b>	<b>13.2</b>	<b>11.7</b>	<b>12.2</b>	<b>12.2</b>	<b>12.7</b>	<b>13.2</b>
<b>12H 4H</b>	<b>10.8</b>	<b>11.5</b>	<b>11.2</b>	<b>11.9</b>	<b>12.3</b>	<b>10.6</b>	<b>11.4</b>	<b>11.1</b>	<b>11.7</b>	<b>12.2</b>
<b>6H</b>	<b>11.4</b>	<b>12.0</b>	<b>11.9</b>	<b>12.4</b>	<b>12.9</b>	<b>11.3</b>	<b>11.9</b>	<b>11.8</b>	<b>12.3</b>	<b>12.8</b>
<b>8H</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>12.5</b>	<b>13.0</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 / - 0.7</b>					<b>+ 1.0 / - 0.8</b>				

CIE Pub.117, 9939 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.0$ )  
Area: 0.63 m2

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:

**UTILIZATION FACTORS TABLE**

Test:U:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

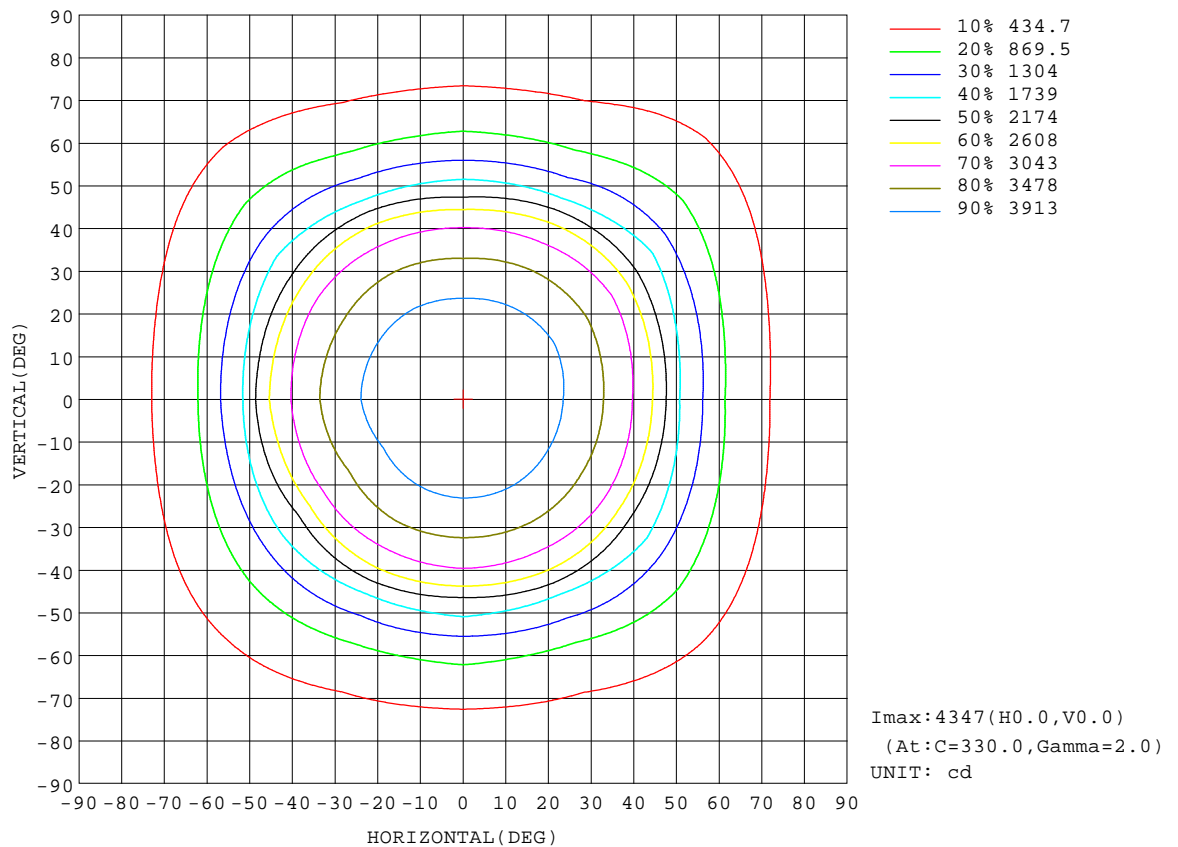
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	63	53	46	62	52	46	40
0.80	73	63	56	72	63	56	71	62	56	50
1.00	82	72	65	80	71	65	78	72	65	58
1.25	88	79	73	87	78	72	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	79
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

**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:**

## ISOCANDELA DIAGRAM

Test:U:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K 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

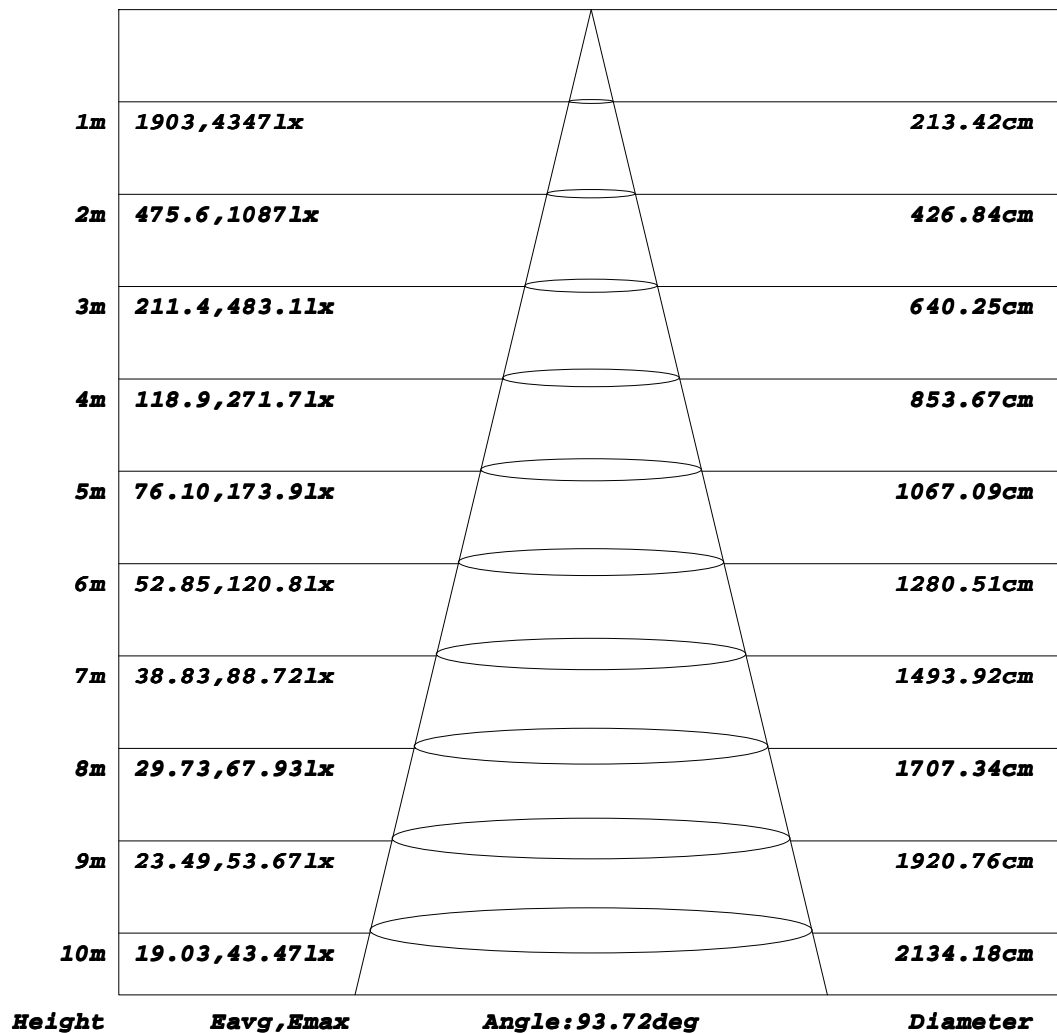
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:6.100m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

**Flux out:6874 lm**



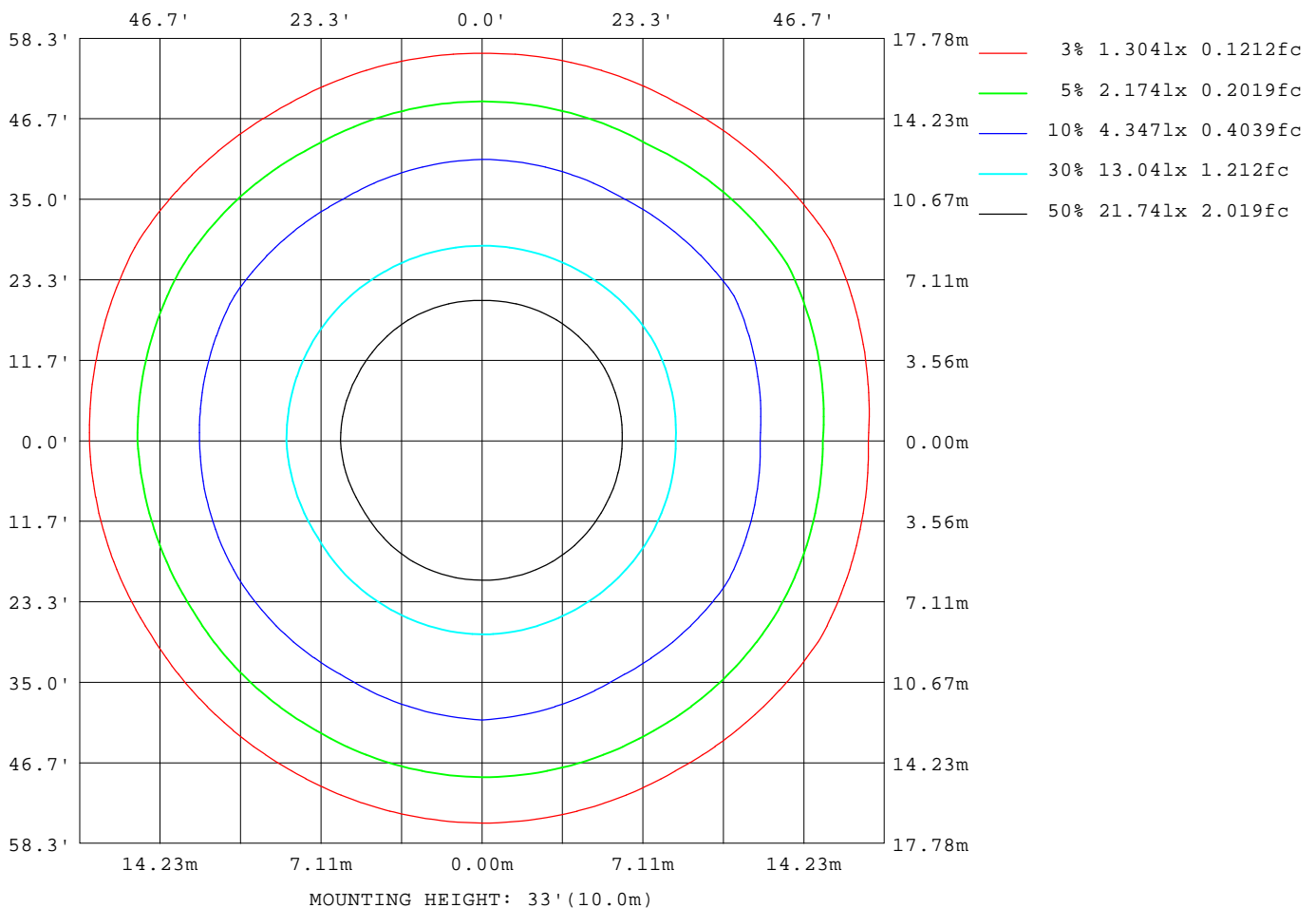
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K 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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm		
NAME: LED348 (90W 3000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

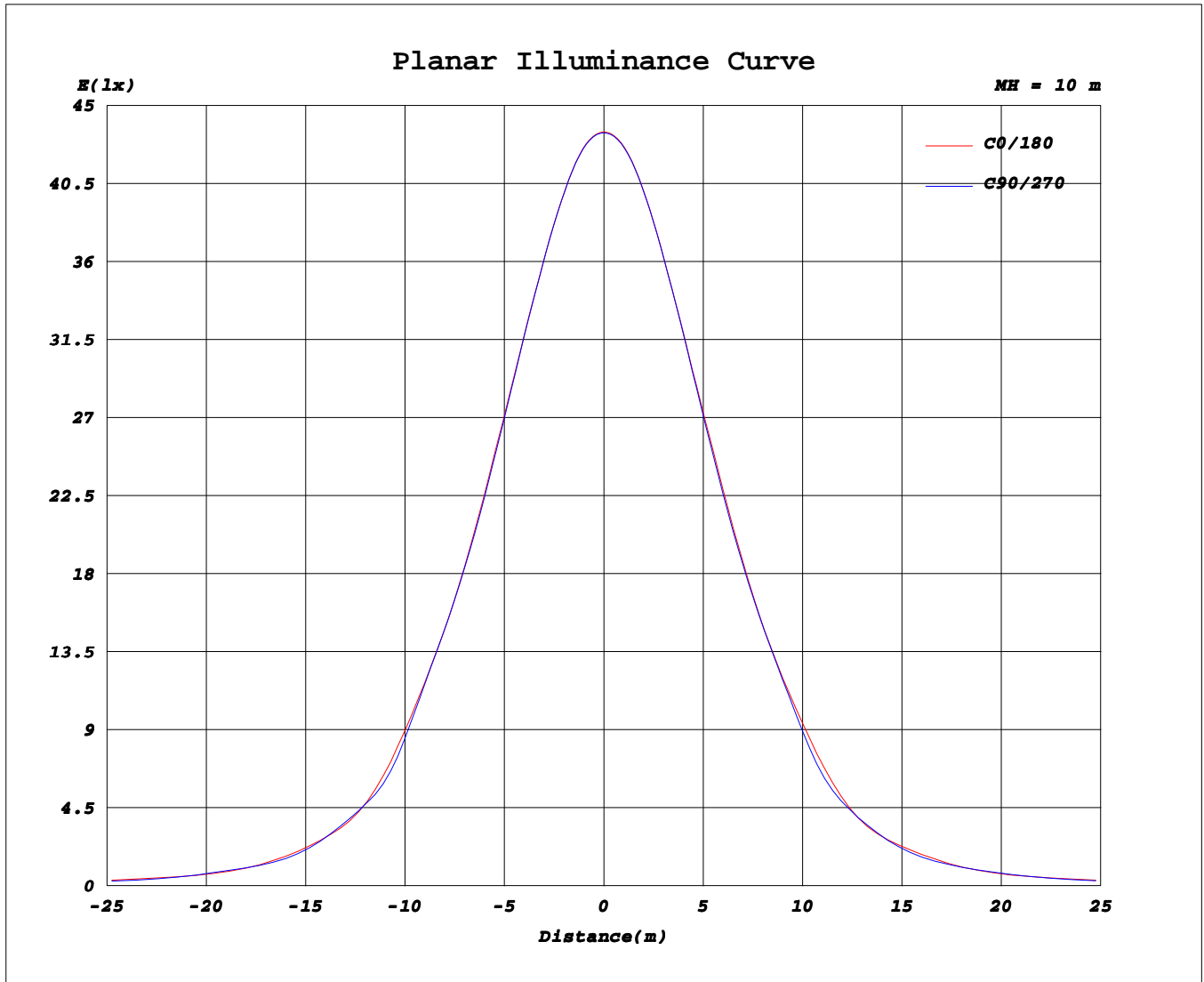
AvgL	cd/m2
L_0~180(65)av	2692
L_0~180(75)av	2252
L_0~180(85)av	1946
L_90~270(65)av	2657
L_90~270(75)av	2291
L_90~270(85)av	2277
L_45(65)av	2735
L_45(75)av	2293
L_45(85)av	2084

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:229.08V I:0.3968A P:89.225W PF:0.9817 Freq:50.01Hz Lamp Flux:9939.48x1 lm																	
NAME: LED348 (90W 3000K 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	4344	4344	4344	4344	4344	4344	4344	4344	4344	4344	4344	4344						
5	4327	4327	4328	4327	4323	4316	4330	4332	4332	4331	4334	4339						
10	4261	4260	4260	4263	4252	4237	4270	4275	4275	4273	4281	4294						
15	4155	4152	4153	4156	4143	4123	4167	4174	4175	4171	4183	4201						
20	4022	4013	4017	4018	4002	3977	4033	4039	4039	4034	4052	4075						
25	3855	3834	3849	3843	3829	3790	3874	3868	3877	3860	3892	3913						
30	3632	3600	3626	3609	3603	3546	3668	3645	3667	3634	3687	3700						
35	3345	3332	3327	3335	3307	3271	3391	3379	3392	3366	3410	3442						
40	3018	3017	2985	3015	2959	2930	3064	3085	3059	3056	3077	3155						
45	2535	2416	2480	2414	2427	2304	2652	2592	2608	2523	2640	2718						
50	1827	1890	1721	1806	1710	1827	1962	1976	1875	1861	1918	2059						
55	1386	1433	1316	1365	1283	1345	1414	1518	1345	1400	1361	1621						
60	977	1043	936	953	924	966	1048	1097	1000	999	1023	1147						
65	710	694	693	692	696	673	723	786	707	723	714	847						
70	516	549	489	552	490	515	555	545	537	546	549	570						
75	359	382	358	362	349	353	376	386	370	385	368	421						
80	229	243	234	241	226	218	255	259	249	254	257	304						
85	96.1	105	97.3	115	89.1	79.4	118	135	119	135	124	168						
90	1.48	1.47	1.45	1.43	1.45	1.57	3.20	6.18	3.77	2.36	6.96	22.3						
95	2.13	2.17	2.12	2.09	2.17	2.36	2.23	2.23	2.17	2.22	2.14	2.08						
100	3.16	3.18	3.13	3.07	3.16	3.39	3.19	3.17	3.09	3.13	3.02	2.97						
105	4.36	4.40	4.30	4.25	4.37	4.62	4.32	4.29	4.17	4.20	4.10	4.03						
110	5.64	5.66	5.58	5.49	5.61	5.87	5.55	5.46	5.35	5.37	5.28	5.20						
115	6.82	6.84	6.80	6.72	6.80	7.04	6.68	6.61	6.48	6.52	6.42	6.33						
120	7.82	7.83	7.84	7.75	7.83	7.99	7.67	7.57	7.49	7.47	7.43	7.31						
125	8.54	8.55	8.63	8.52	8.58	8.67	8.37	8.25	8.19	8.16	8.15	8.03						
130	9.01	9.06	9.14	9.05	9.07	9.12	8.82	8.70	8.65	8.61	8.62	8.52						
135	9.36	9.41	9.50	9.42	9.42	9.45	9.13	8.99	8.95	8.90	8.92	8.84						
140	9.67	9.72	9.80	9.74	9.73	9.74	9.41	9.26	9.20	9.17	9.15	9.11						
145	10.1	10.1	10.2	10.1	10.1	10.2	9.76	9.59	9.52	9.51	9.45	9.43						
150	10.8	10.9	10.9	10.9	10.9	10.9	10.6	10.4	10.3	10.3	10.2	10.2						
155	11.3	11.4	11.3	11.4	11.4	11.4	11.2	11.0	10.9	10.9	10.8	10.9						
160	11.7	11.8	11.7	11.7	11.9	11.7	11.6	11.5	11.5	11.3	11.3	11.4						
165	12.0	12.2	12.0	12.0	12.1	12.0	12.0	11.8	11.8	11.8	11.7	11.8						
170	12.3	12.3	12.2	12.4	12.3	12.2	12.3	12.1	12.1	12.2	12.0	12.1						
175	12.6	12.5	12.4	12.5	12.4	12.4	12.5	12.4	12.3	12.4	12.2	12.3						
180	12.7	12.6	12.5	12.6	12.5	12.5	12.7	12.6	12.5	12.6	12.5	12.5						

**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:**