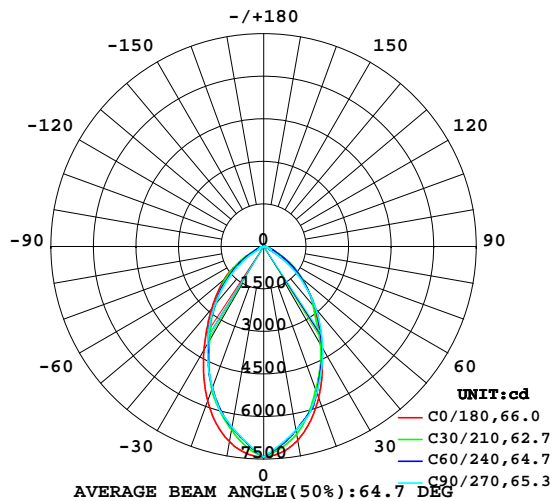


## LUMINAIRE PHOTOMETRIC TEST REPORT

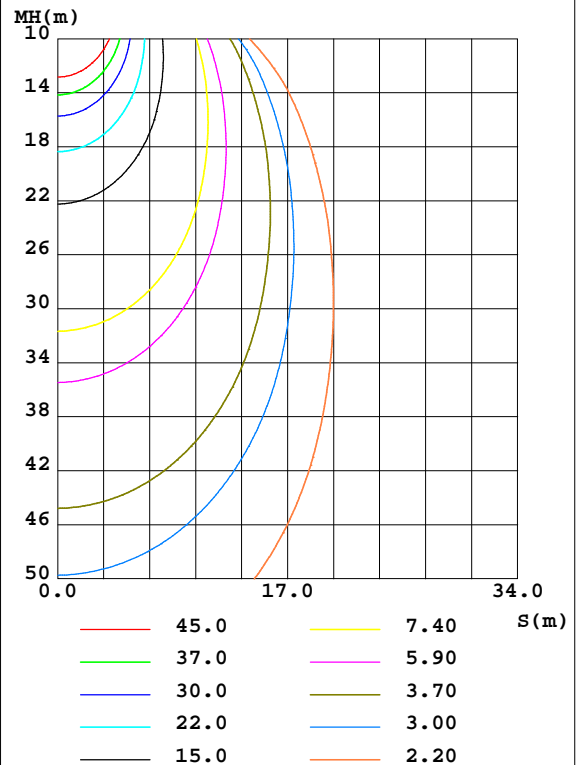
Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.23 lm/W			
MODEL	GHLV-10-U	Imax(cd)	7423	S/MH(C0/180)	0.94
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	9791.5	$\eta$ UP,DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	9791.54	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,48.9
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-02

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.998m [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	6933	6626	6577	6581	6982	6509	6460	6530	0- 10	660.7	660.7	6.75,6.75
20	5675	5519	5487	5392	5788	5293	5305	5332	10- 20	1698	2359	24.1,24.1
30	4093	4024	4153	4000	4216	3908	3958	3874	20- 30	2152	4511	46.1,46.1
40	2783	2811	2855	2817	2849	2742	2666	2685	30- 40	2077	6589	67.3,67.3
50	1760	1743	1578	1767	1819	1675	1426	1637	40- 50	1672	8260	84.4,84.4
60	355.8	850.8	322.3	872.8	419.4	779.1	237.6	763.1	50- 60	1033	9294	94.9,94.9
70	137.8	197.1	169.8	209.2	151.0	154.0	126.7	158.9	60- 70	370.7	9664	98.7,98.7
80	43.04	60.26	0	58.48	49.13	44.19	0	47.23	70- 80	116.5	9781	99.9,99.9
90	2.721	0	0	0	3.234	0	0	0	80- 90	10.64	9792	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7491 lm

%lum = 76.5%

%lamp = 76.5%

Conical surface Flux(120deg): 9293.7 lm

%lum = 94.9%

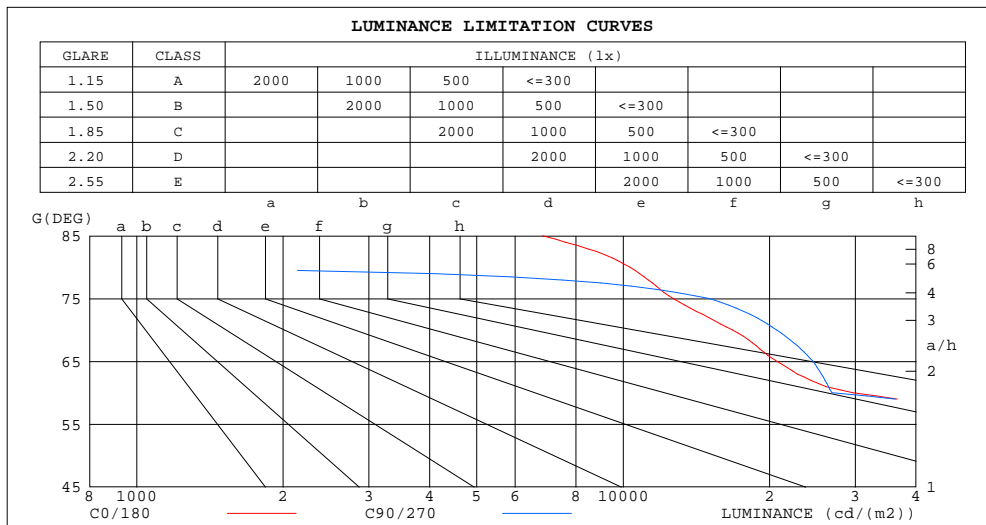
%lamp = 94.9%

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-02

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.998m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



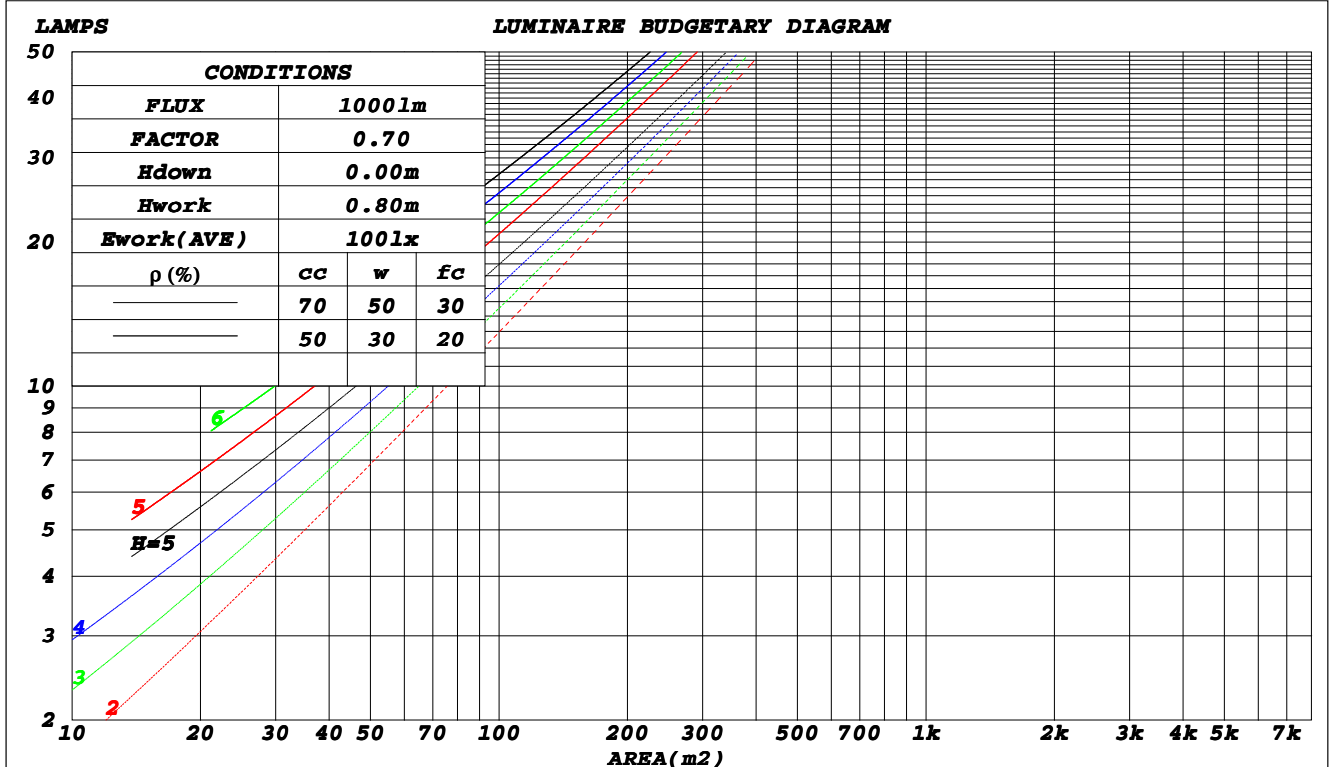
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-12-02**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.998m [K=1.0000]**  
**Remarks:**

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

$\rho_{cc}$	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															



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-02

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.998m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm					
NAME: LED Linear Explosion-proof Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:60W/5000K			DIM.: 1450*10mm		SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.			SUR.:N/A		Shielding Angle:N/A

$\rho_{cc}$	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	.223	.127	.040	.216	.123	.039	.203	.117	.037	.192	.111	.035	.181	.105	.034		
2.0	.218	.119	.037	.212	.117	.036	.201	.112	.035	.191	.107	.033	.181	.103	.032		
3.0	.208	.111	.033	.203	.109	.033	.193	.105	.032	.184	.101	.031	.176	.097	.030		
4.0	.197	.102	.030	.193	.101	.030	.184	.098	.029	.176	.095	.029	.169	.092	.028		
5.0	.186	.095	.028	.182	.094	.027	.175	.091	.027	.168	.089	.026	.162	.086	.026		
6.0	.176	.088	.025	.173	.087	.025	.166	.085	.025	.160	.083	.024	.154	.081	.024		
7.0	.167	.082	.023	.164	.082	.023	.158	.080	.023	.152	.078	.023	.147	.076	.022		
8.0	.158	.077	.022	.155	.076	.022	.150	.075	.021	.145	.073	.021	.140	.072	.021		
9.0	.150	.072	.020	.147	.072	.020	.143	.070	.020	.138	.069	.020	.134	.068	.020		
10.0	.142	.068	.019	.140	.068	.019	.136	.067	.019	.132	.065	.019	.128	.064	.018		

$\rho_{cc}$	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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.092	.095	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.081	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.130	.080	.045	.111	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jessy  
 Test Date:2024-12-02

$V(B)$  Range:-75 - 75DEG  
 $V(B)$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65%  
 Test Distance:6.998m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm											
NAME: LED Linear Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A			
SPEC.:60W/5000K					DIM.: 1450*10mm			SERIAL No.:N/A			
MFR.: Grin Industrial Co., Ltd.					SUR.:N/A			Shielding Angle:N/A			
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	19.4	20.7	19.7	20.9	21.0	19.2	20.5	19.5	20.6	20.8	
	3H	19.4	20.5	19.7	20.7	21.0	19.3	20.5	19.6	20.7	20.9
	4H	19.4	20.4	19.7	20.7	20.9	19.3	20.4	19.6	20.6	20.9
	6H	19.3	20.3	19.6	20.5	20.8	19.2	20.2	19.6	20.5	20.7
	8H	19.3	20.2	19.6	20.5	20.8	19.2	20.1	19.5	20.4	20.7
	12H	19.2	20.1	19.6	20.4	20.7	19.1	20.1	19.5	20.3	20.6
4H	2H	19.6	20.7	19.9	20.9	21.1	19.4	20.5	19.7	20.7	21.0
	3H	19.7	20.6	20.0	20.9	21.1	19.7	20.6	20.0	20.9	21.2
	4H	19.6	20.5	20.0	20.8	21.1	19.7	20.5	20.1	20.8	21.2
	6H	19.6	20.3	20.0	20.7	21.0	19.6	20.4	20.0	20.7	21.1
	8H	19.6	20.3	20.0	20.6	21.0	19.6	20.3	20.0	20.6	21.0
	12H	19.5	20.2	20.0	20.5	20.9	19.5	20.2	20.0	20.5	20.9
8H	4H	19.6	20.3	20.0	20.6	21.0	19.6	20.3	20.0	20.7	21.0
	6H	19.6	20.2	20.0	20.6	21.0	19.6	20.1	20.0	20.5	21.0
	8H	19.6	20.1	20.0	20.5	20.9	19.5	20.0	20.0	20.4	20.9
	12H	19.6	20.0	20.0	20.4	20.9	19.5	19.9	20.0	20.3	20.8
12H	4H	19.6	20.2	20.0	20.5	20.9	19.6	20.2	20.0	20.6	21.0
	6H	19.6	20.0	20.0	20.5	20.9	19.6	20.0	20.0	20.5	20.9
	8H	19.6	20.0	20.0	20.4	20.9	19.5	19.9	20.0	20.4	20.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.4					+ 0.9 / - 1.4					
1.5H	+ 0.2 / - 0.6					+ 0.4 / - 0.9					
2.0H	+ 1.6 / - 5.6					+ 2.2 / - 5.9					

CIE Pub.117, 9792 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.9$ )  
Area: 0.024 m<sup>2</sup>

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-02

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.998m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

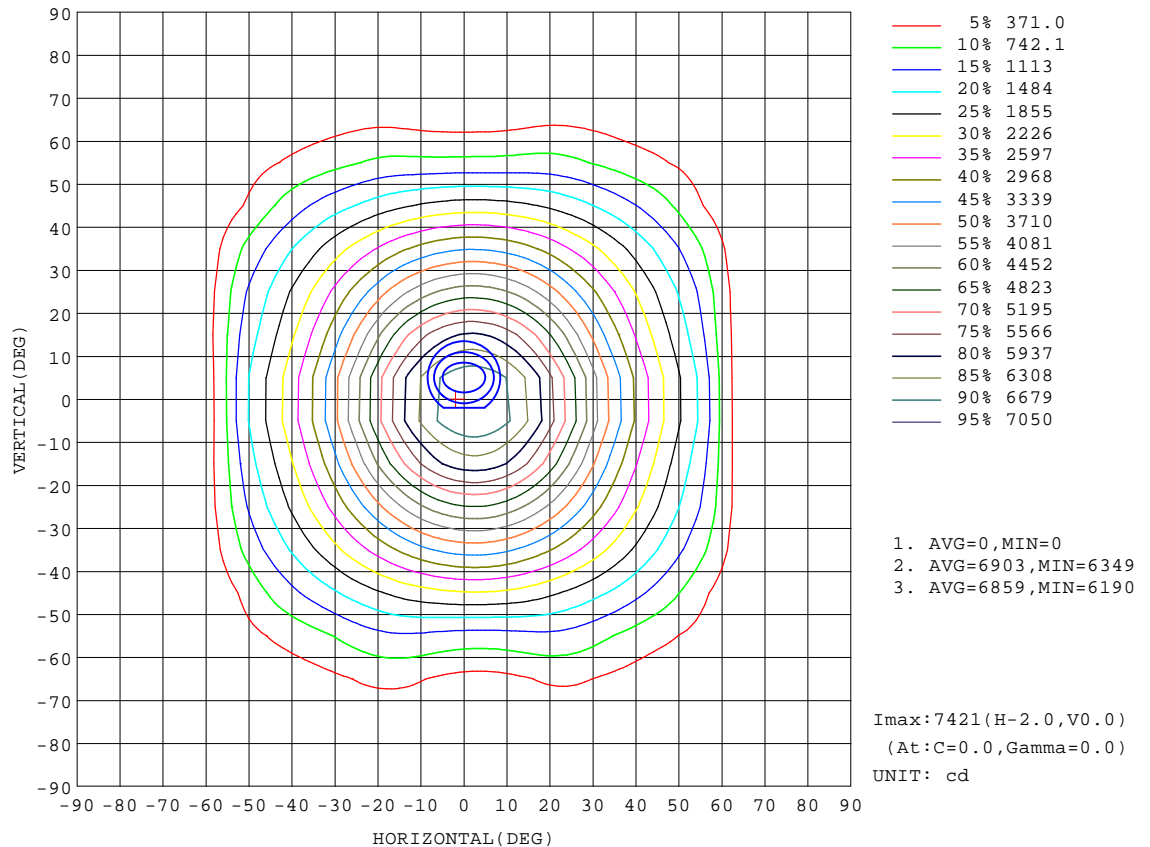
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	61	56	70	61	56	69	61	55	50
0.80	80	71	66	79	71	66	78	70	65	60
1.00	88	80	74	87	79	74	85	80	73	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	97	90	85	94	89	84	79
2.00	103	97	92	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	103	108	105	102	105	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-12-02**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.998m [K=1.0000]**  
**Remarks:**

## ISOCANDELA DIAGRAM

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-12-02**

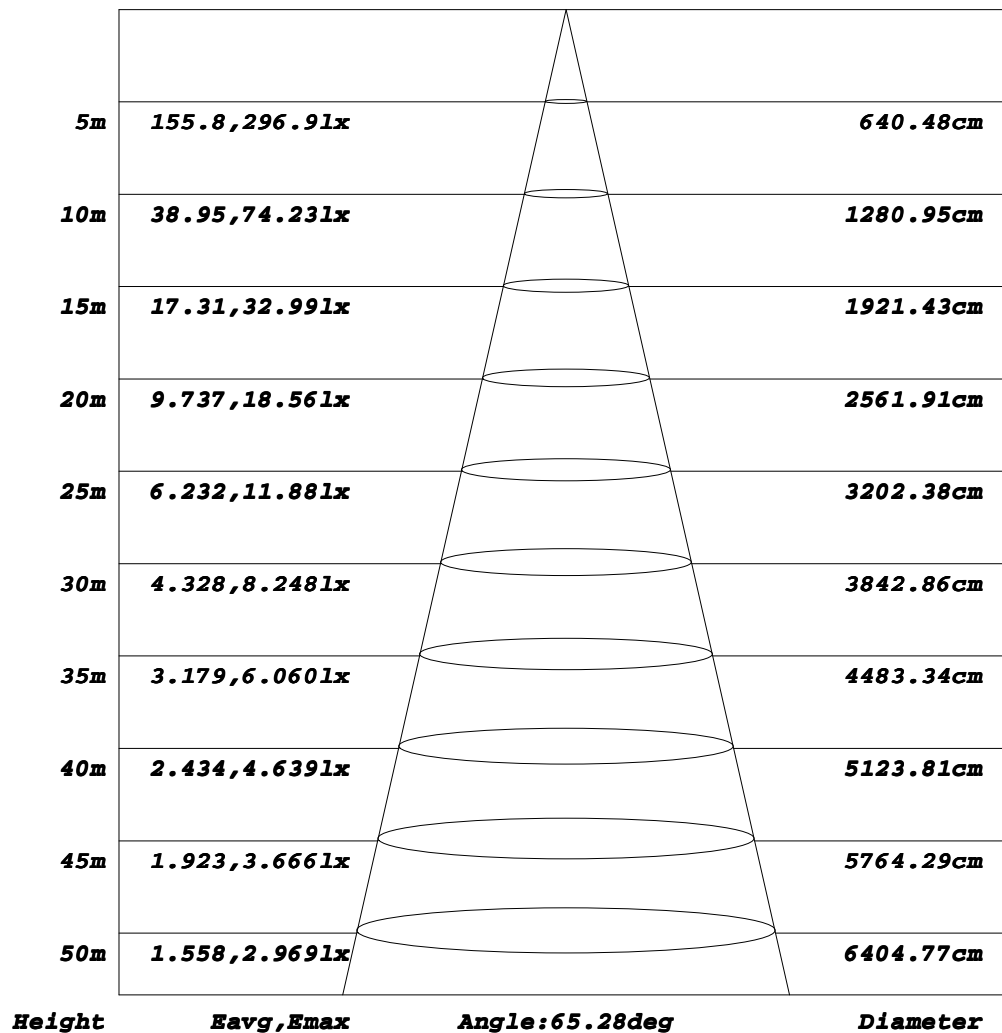
**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.998m [K=1.0000]**  
**Remarks:**



## AAI Figure

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

Flux out:5160 lm



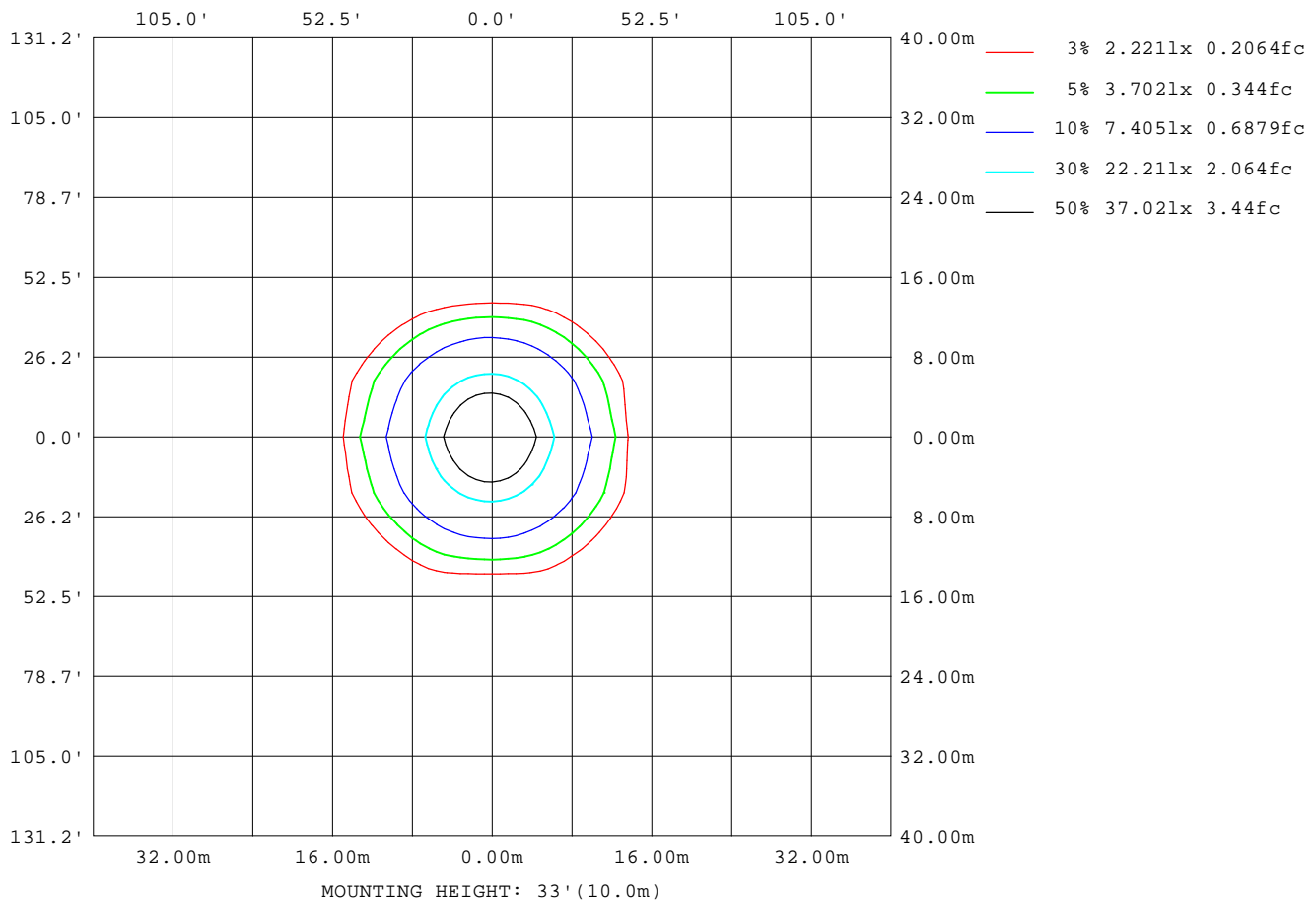
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**H( $\beta$ ) Range: -90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: Jessie**  
**Test Date: 2024-12-02**

**V(B) Range: -75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity: 65%**  
**Test Distance: 6.998m [K=1.0000]**  
**Remarks:**

## ISOLUX DIAGRAM

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-12-02**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.998m [K=1.0000]**  
**Remarks:**

## LED Avg.L Report

Test:U:120.19V I:0.4973A P:59.621W PF:0.9974 Freq:59.98Hz Lamp Flux:9791.54x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

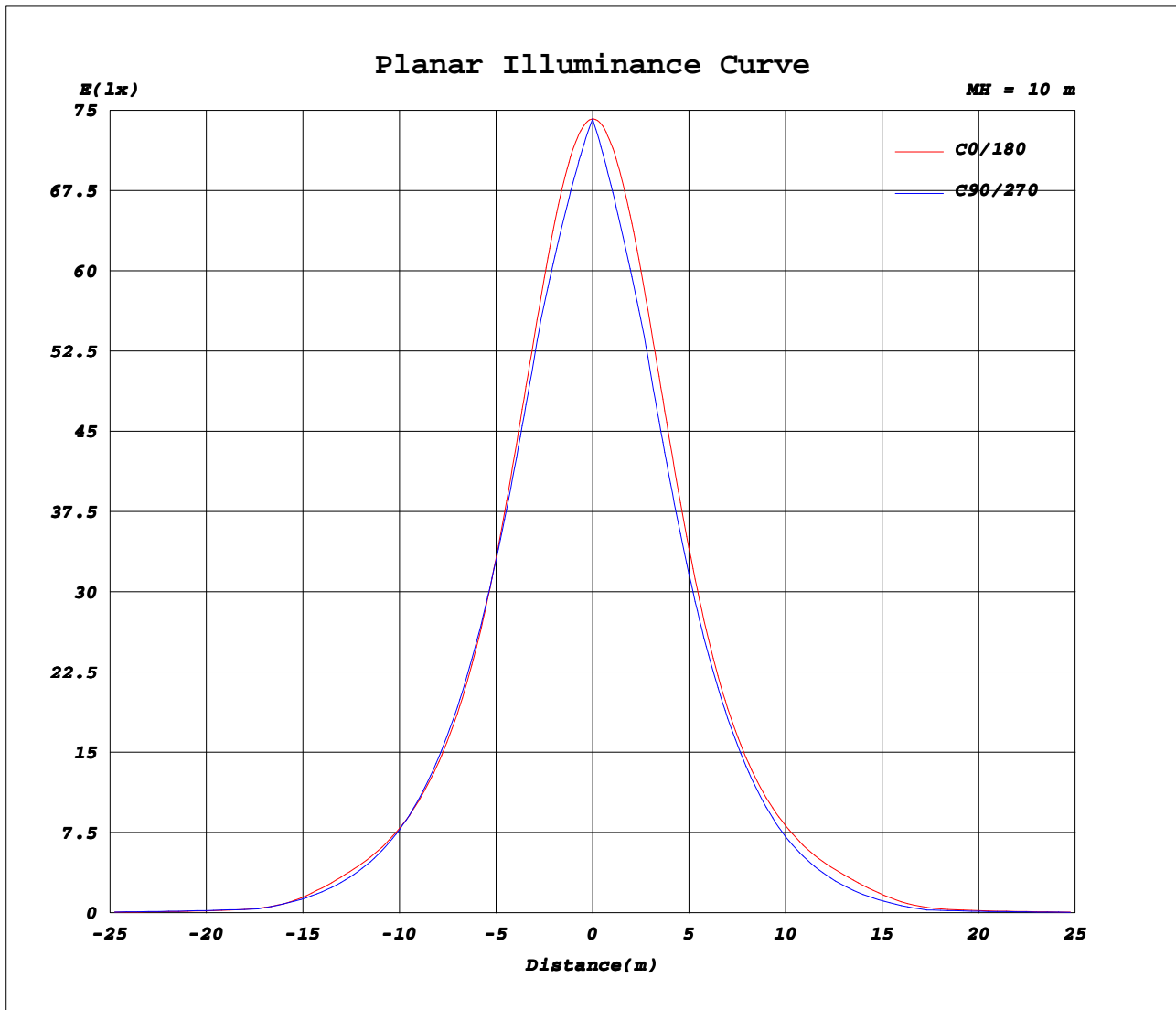
AvgL	cd/m2
L_0~180(65)av	21485
L_0~180(75)av	13352
L_0~180(85)av	7977
L_90~270(65)av	21257
L_90~270(75)av	13261
L_90~270(85)av	0
L_45(65)av	41277
L_45(75)av	18546
L_45(85)av	0

Standard: GB/T 29293-2012

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-12-02**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.998m [K=1.0000]**  
**Remarks:**

## Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-02

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.998m [K=1.0000]  
Remarks:

Photometric Data Table [cd]

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7382	7365	7348	7333	7318	7303	7290	7278	7267	7256
5.0	7289	7257	7227	7200	7174	7150	7129	7110	7092	7075
7.5	7138	7095	7056	7022	6991	6963	6939	6918	6898	6876
10.0	6933	6881	6837	6799	6767	6741	6718	6681	6649	6626
12.5	6673	6617	6572	6536	6509	6476	6428	6389	6360	6340
15.0	6376	6317	6272	6240	6210	6146	6098	6062	6039	6051
17.5	6037	5979	5940	5917	5850	5785	5738	5717	5750	5787
20.0	5675	5619	5585	5551	5462	5396	5367	5412	5464	5519
22.5	5288	5238	5215	5149	5059	4993	5039	5102	5175	5148
25.0	4887	4846	4833	4735	4643	4642	4712	4793	4758	4733
27.5	4484	4450	4440	4319	4234	4301	4387	4374	4345	4334
30.0	4093	4069	4038	3918	3891	3972	4002	3966	3959	4024
32.5	3734	3712	3657	3539	3572	3657	3611	3584	3661	3737
35.0	3394	3381	3307	3204	3274	3293	3252	3303	3389	3421
37.5	3074	3068	2977	2920	3000	2956	2958	3050	3097	3102
40.0	2783	2780	2672	2658	2700	2645	2719	2796	2801	2811
42.5	2502	2510	2384	2415	2408	2399	2500	2516	2530	2553
45.0	2241	2249	2107	2181	2132	2190	2247	2254	2285	2304
47.5	1995	1993	1874	1931	1886	1995	1999	2020	2054	2018
50.0	1760	1747	1660	1678	1695	1764	1768	1802	1777	1743
52.5	1488	1497	1450	1439	1518	1542	1561	1554	1512	1529
55.0	1117	1175	1218	1202	1322	1328	1354	1299	1312	1321
57.5	668.3	769.0	936.6	985.7	1097	1130	1102	1098	1119	1079
60.0	355.8	422.1	575.9	759.9	849.9	908.5	870.9	919.4	882.5	850.8
62.5	261.1	264.2	323.6	503.0	633.3	645.4	692.4	703.3	672.7	658.5
65.0	210.1	208.7	222.6	301.9	428.0	444.3	505.6	512.1	501.3	457.1
67.5	172.3	173.3	184.4	211.3	250.4	303.9	338.9	375.9	327.1	250.9
70.0	137.8	143.7	153.1	168.3	183.6	204.3	252.5	241.9	179.7	197.1
72.5	105.1	114.0	113.9	122.8	142.4	159.6	172.6	151.1	153.3	162.9
75.0	78.75	81.61	88.72	100.8	108.4	121.9	123.4	126.4	124.2	125.1
77.5	59.67	60.91	65.16	71.07	84.31	91.96	99.19	97.12	95.29	95.09
80.0	43.04	47.15	50.64	55.14	61.37	68.99	71.20	71.35	70.00	60.26
82.5	27.64	31.75	33.32	37.15	42.20	46.60	48.00	34.44	21.12	8.176
85.0	14.28	19.62	20.52	23.16	25.34	13.16	0	0	0	0
87.5	5.549	7.679	9.287	0	0	0	0	0	0	0
90.0	2.721	0	0	0	0	0	0	0	0	0
G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7247	7238	7231	7226	7220	7215	7211	7210	7209	7208
5.0	7061	7049	7037	7028	7019	7011	7006	6999	6996	6992
7.5	6854	6837	6822	6811	6802	6797	6791	6788	6786	6783
10.0	6606	6592	6583	6576	6573	6572	6572	6574	6577	6576
12.5	6328	6329	6340	6349	6356	6361	6364	6365	6363	6357
15.0	6073	6095	6117	6135	6148	6156	6158	6156	6150	6135
17.5	5825	5861	5874	5857	5845	5834	5829	5822	5818	5810
20.0	5530	5507	5492	5482	5479	5480	5481	5484	5487	5485
22.5	5124	5109	5103	5117	5133	5146	5153	5155	5152	5145
25.0	4718	4741	4771	4796	4814	4825	4829	4827	4817	4804
27.5	4383	4425	4459	4479	4481	4484	4487	4489	4485	4477
30.0	4080	4117	4117	4118	4125	4132	4141	4149	4153	4152
32.5	3764	3764	3764	3763	3787	3808	3821	3829	3828	3822
35.0	3427	3425	3445	3466	3485	3501	3509	3510	3503	3491
37.5	3110	3137	3158	3175	3179	3181	3182	3182	3179	3172
40.0	2837	2863	2859	2850	2846	2848	2850	2853	2855	2854
42.5	2576	2557	2538	2526	2529	2534	2535	2533	2530	2527
45.0	2273	2247	2240	2241	2239	2234	2225	2214	2205	2199
47.5	1981	1982	1978	1968	1957	1940	1918	1900	1892	1894
50.0	1747	1741	1726	1711	1688	1652	1613	1586	1578	1592
52.5	1527	1500	1483	1462	1428	1373	1314	1275	1266	1289
55.0	1286	1259	1254	1236	1183	1102	1018	964.5	953.1	987.7
57.5	1049	1047	1046	1020	946.5	839.5	730.8	657.3	637.7	680.4
60.0	847.2	844.3	829.9	795.7	714.6	584.3	446.8	350.9	322.3	373.4
62.5	641.4	617.3	603.3	579.4	542.8	452.0	357.2	297.9	285.7	325.1
65.0	417.5	410.0	469.6	494.1	460.3	380.1	300.2	254.2	249.1	286.4
67.5	289.2	347.0	395.0	410.5	379.2	316.0	253.5	215.8	209.5	236.8
70.0	243.4	283.1	312.3	321.9	300.1	254.1	207.3	177.5	169.8	186.2
72.5	187.9	212.7	229.3	234.9	217.4	184.3	153.7	135.9	131.7	140.5
75.0	137.3	152.6	158.3	151.7	132.2	111.0	98.20	94.08	93.54	94.60
77.5	98.48	99.43	91.64	80.41	67.27	56.55	50.16	47.44	46.77	47.66
80.0	50.14	41.35	31.60	21.69	12.92	6.682	2.821	0.6972	0	0.7006
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-12-02

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.998m [K=1.0000]

Remarks:

Photometric Data Table [cd]

87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7209	7211	7215	7220	7226	7233	7242	7253	7265	7278
5.0	6992	6992	6995	7000	7007	7017	7030	7045	7063	7085
7.5	6782	6782	6782	6784	6787	6792	6800	6809	6824	6851
10.0	6575	6574	6573	6573	6574	6574	6576	6581	6585	6593
12.5	6351	6345	6341	6339	6340	6345	6346	6339	6334	6335
15.0	6120	6106	6091	6077	6066	6059	6057	6065	6074	6064
17.5	5804	5798	5791	5782	5771	5754	5741	5738	5746	5768
20.0	5481	5478	5469	5458	5443	5425	5407	5392	5388	5400
22.5	5138	5133	5129	5129	5124	5100	5072	5041	5015	5020
25.0	4790	4777	4767	4759	4754	4755	4748	4707	4669	4634
27.5	4464	4447	4426	4396	4378	4371	4372	4383	4340	4289
30.0	4145	4133	4117	4089	4051	4005	3995	4000	4014	3965
32.5	3812	3805	3799	3793	3757	3713	3663	3633	3642	3659
35.0	3477	3466	3458	3450	3443	3439	3389	3330	3290	3303
37.5	3160	3149	3132	3111	3107	3110	3120	3076	3005	2971
40.0	2850	2846	2838	2823	2801	2784	2797	2817	2772	2687
42.5	2526	2532	2542	2547	2534	2513	2487	2507	2537	2471
45.0	2199	2211	2229	2247	2262	2265	2243	2213	2240	2276
47.5	1906	1924	1939	1948	1972	1995	2012	1985	1956	2000
50.0	1622	1663	1699	1715	1713	1721	1745	1767	1743	1731
52.5	1339	1405	1463	1497	1502	1495	1484	1513	1543	1513
55.0	1060	1149	1222	1264	1283	1288	1277	1275	1304	1323
57.5	773.7	891.2	986.1	1032	1049	1057	1072	1075	1075	1100
60.0	488.2	635.1	756.0	816.5	828.4	820.3	838.7	872.8	887.0	867.6
62.5	405.6	506.8	585.8	612.4	623.8	615.7	619.3	650.8	698.4	694.3
65.0	357.5	440.7	500.7	513.6	485.9	430.3	425.9	452.2	497.0	535.7
67.5	293.3	362.5	411.1	417.4	388.9	344.9	300.3	274.6	328.7	365.2
70.0	225.2	278.2	319.9	330.4	310.1	271.7	233.7	209.2	197.7	240.6
72.5	163.5	197.7	229.2	244.0	238.9	214.6	186.4	165.8	161.0	164.7
75.0	101.5	117.4	138.2	155.5	161.4	154.6	143.1	132.9	129.7	130.0
77.5	51.65	59.53	69.85	80.92	89.87	94.02	96.59	97.92	99.86	102.3
80.0	2.907	7.034	13.40	21.80	30.94	38.81	47.49	58.48	67.60	72.51
82.5	0	0	0	0	0	0	0	7.925	20.17	33.16
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7292	7307	7323	7340	7358	7377	7396	7374	7353	7333
5.0	7108	7136	7166	7199	7234	7272	7312	7268	7225	7185
7.5	6881	6918	6960	7007	7058	7115	7176	7109	7045	6987
10.0	6605	6647	6698	6757	6825	6900	6982	6892	6809	6734
12.5	6342	6355	6400	6471	6553	6646	6751	6637	6535	6445
15.0	6059	6060	6071	6139	6234	6345	6471	6337	6217	6113
17.5	5758	5744	5742	5771	5876	6002	6147	5991	5855	5740
20.0	5429	5416	5398	5396	5488	5626	5788	5616	5467	5363
22.5	5043	5081	5046	5028	5083	5229	5403	5217	5058	4991
25.0	4648	4685	4694	4660	4672	4824	5009	4812	4647	4623
27.5	4255	4285	4341	4297	4274	4421	4613	4409	4248	4259
30.0	3903	3893	3945	3944	3906	4022	4216	4011	3884	3905
32.5	3587	3521	3566	3608	3558	3642	3834	3631	3536	3573
35.0	3296	3218	3208	3279	3237	3291	3480	3280	3216	3247
37.5	2990	2940	2879	2948	2941	2967	3153	2956	2919	2914
40.0	2678	2689	2609	2641	2666	2666	2849	2654	2642	2606
42.5	2392	2418	2370	2353	2410	2388	2571	2377	2387	2318
45.0	2177	2149	2148	2083	2171	2124	2309	2113	2148	2049
47.5	1996	1894	1928	1851	1920	1890	2058	1876	1896	1820
50.0	1788	1709	1686	1653	1677	1667	1819	1655	1650	1621
52.5	1523	1547	1454	1463	1428	1427	1579	1423	1413	1439
55.0	1282	1340	1250	1253	1121	1110	1244	1120	1137	1250
57.5	1094	1074	1069	952.9	760.6	736.8	805.4	754.5	794.5	973.0
60.0	890.7	833.2	855.4	629.8	497.6	435.4	419.4	448.8	524.1	655.3
62.5	639.1	643.5	558.5	413.9	330.6	286.3	278.8	290.4	340.9	431.2
65.0	466.6	430.2	351.5	304.6	237.7	220.6	225.8	220.1	238.5	310.7
67.5	360.1	260.3	257.4	209.5	180.4	176.5	185.5	175.5	179.3	207.8
70.0	240.1	210.7	176.8	151.9	141.1	139.6	151.0	137.6	139.0	149.5
72.5	171.0	156.5	137.6	127.6	117.8	105.1	115.6	103.3	115.7	124.6
75.0	130.7	122.4	109.7	93.04	85.76	83.81	87.12	81.99	83.78	90.00
77.5	98.93	94.90	81.92	74.36	65.93	64.68	66.15	62.81	63.20	70.59

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-12-02

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.998m [K=1.0000]

Remarks:

Photometric Data Table [cd]

80.0	74.20	68.40	60.99	50.76	46.78	45.05	49.13	43.17	43.72	46.46
82.5	44.25	46.57	43.11	36.86	33.67	30.43	33.39	28.76	30.50	32.35
85.0	0	12.19	23.40	24.43	20.56	16.62	19.09	15.23	18.02	20.34
87.5	0	0	0	0	7.635	7.744	8.549	7.097	7.163	0
90.0	0	0	0	0	0	0	3.234	0	0	0
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7313	7295	7278	7262	7247	7233	7221	7211	7202	7195
5.0	7148	7113	7082	7054	7029	7006	6988	6972	6959	6950
7.5	6935	6886	6843	6807	6775	6754	6739	6726	6717	6710
10.0	6667	6608	6558	6537	6520	6509	6497	6488	6481	6475
12.5	6365	6311	6289	6271	6258	6251	6250	6241	6228	6219
15.0	6035	6011	5998	5993	5993	5970	5950	5939	5935	5938
17.5	5702	5696	5698	5692	5658	5637	5630	5629	5628	5630
20.0	5353	5358	5363	5325	5303	5293	5288	5299	5304	5306
22.5	4999	5022	4970	4934	4917	4943	4960	4972	4986	4977
25.0	4641	4618	4569	4546	4575	4606	4643	4630	4619	4611
27.5	4288	4219	4176	4198	4249	4283	4268	4260	4247	4251
30.0	3891	3826	3827	3882	3921	3908	3896	3896	3925	3941
32.5	3520	3462	3515	3582	3559	3539	3569	3606	3633	3642
35.0	3165	3165	3236	3233	3217	3243	3293	3335	3321	3303
37.5	2834	2893	2937	2914	2937	2996	3021	3003	2983	2969
40.0	2567	2643	2631	2637	2712	2742	2698	2668	2672	2674
42.5	2328	2375	2347	2423	2481	2429	2388	2388	2397	2390
45.0	2115	2113	2135	2230	2181	2134	2135	2132	2117	2083
47.5	1902	1872	1960	1949	1891	1899	1895	1857	1818	1779
50.0	1664	1694	1761	1678	1670	1675	1626	1576	1549	1532
52.5	1436	1534	1494	1457	1464	1420	1363	1343	1327	1299
55.0	1248	1324	1240	1257	1218	1173	1155	1132	1101	1056
57.5	1084	1056	1037	1021	981.9	976.0	951.6	904.4	865.0	815.1
60.0	872.6	811.1	819.4	771.6	798.4	779.1	727.5	675.6	638.9	586.0
62.5	569.2	611.7	561.0	606.8	618.4	565.6	510.9	468.4	426.2	370.9
65.0	354.1	398.9	394.7	459.9	429.2	374.3	318.3	285.3	310.9	317.1
67.5	253.8	234.8	302.3	305.3	271.6	203.2	207.9	231.9	252.9	262.8
70.0	170.7	189.9	202.4	194.2	152.0	154.0	165.2	185.6	204.1	210.4
72.5	130.6	140.1	141.8	128.4	123.7	124.5	133.4	148.6	159.4	158.4
75.0	101.8	105.5	106.6	101.7	99.69	100.0	103.8	110.0	111.3	105.5
77.5	73.55	79.36	80.56	79.55	76.61	73.95	71.84	70.96	65.41	57.70
80.0	53.29	56.50	59.26	55.58	51.78	44.19	35.82	29.45	22.57	15.55
82.5	36.31	37.18	34.28	25.06	15.45	5.991	0	0	0	0
85.0	18.15	9.466	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7189	7184	7181	7180	7181	7182	7183	7187	7193	7199
5.0	6943	6938	6937	6936	6940	6942	6948	6954	6961	6971
7.5	6704	6702	6700	6699	6700	6698	6699	6703	6709	6721
10.0	6470	6467	6465	6464	6460	6450	6443	6443	6448	6456
12.5	6214	6213	6214	6218	6221	6214	6205	6200	6200	6198
15.0	5944	5950	5958	5969	5982	5978	5966	5963	5960	5952
17.5	5634	5635	5637	5640	5644	5634	5629	5636	5646	5656
20.0	5310	5311	5310	5311	5305	5288	5283	5283	5281	5283
22.5	4969	4966	4965	4968	4970	4959	4955	4950	4937	4924
25.0	4610	4610	4616	4625	4636	4632	4632	4631	4621	4608
27.5	4269	4278	4287	4294	4297	4293	4294	4294	4294	4297
30.0	3957	3960	3964	3965	3958	3954	3949	3946	3945	3946
32.5	3636	3633	3631	3636	3636	3635	3630	3624	3615	3595
35.0	3296	3298	3297	3307	3315	3318	3318	3318	3314	3300
37.5	2970	2979	2981	2988	2990	2991	2993	2999	3008	3012
40.0	2673	2674	2669	2666	2663	2664	2664	2670	2681	2694
42.5	2371	2358	2345	2344	2342	2344	2349	2358	2366	2376
45.0	2053	2036	2020	2018	2018	2027	2039	2057	2078	2095
47.5	1755	1744	1728	1723	1722	1728	1745	1770	1799	1826
50.0	1501	1472	1444	1431	1426	1430	1456	1492	1534	1568
52.5	1249	1199	1157	1135	1129	1137	1171	1221	1276	1313
55.0	993.3	925.2	869.7	838.6	831.1	844.4	888.4	955.8	1030	1080
57.5	742.2	654.2	583.8	544.3	534.4	553.2	610.5	696.8	787.7	853.4
60.0	495.8	386.4	299.0	250.5	237.6	262.5	334.7	442.5	547.2	618.8
62.5	332.4	275.6	232.3	213.0	209.8	221.2	259.9	323.9	379.7	394.1
65.0	290.7	243.7	204.1	185.6	182.1	189.2	219.7	273.4	323.5	337.7
67.5	243.6	204.3	171.4	156.9	154.4	161.1	185.8	228.4	267.9	282.2
70.0	192.5	161.1	137.4	128.0	126.7	132.9	152.3	184.9	213.0	222.7

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-12-02

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.998m [K=1.0000]

Remarks:

## Photometric Data Table [cd]

72.5	142.2	120.0	105.1	99.64	98.97	102.5	114.1	135.8	156.5	164.7
75.0	92.16	79.19	72.73	71.26	71.20	71.79	74.74	84.41	98.97	110.0
77.5	48.94	41.65	37.55	35.97	35.60	36.22	38.31	43.54	51.81	60.57
80.0	9.395	4.919	2.112	0.5286	0	0.5323	2.155	5.146	9.948	16.32
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	7423	7423	7423	7423	7423	7423	7423	7423	7423	7423
2.5	7205	7213	7223	7234	7247	7260	7275	7290	7307	7324
5.0	6981	6994	7010	7028	7049	7071	7095	7122	7151	7182
7.5	6736	6755	6778	6805	6834	6860	6888	6921	6957	6995
10.0	6467	6482	6503	6530	6562	6602	6649	6683	6720	6763
12.5	6195	6190	6197	6220	6252	6292	6343	6404	6450	6492
15.0	5940	5927	5918	5907	5907	5945	5997	6062	6142	6190
17.5	5670	5667	5644	5618	5601	5589	5628	5693	5776	5860
20.0	5295	5310	5330	5332	5301	5269	5246	5298	5385	5493
22.5	4911	4918	4938	4966	4995	4949	4918	4900	4984	5093
25.0	4586	4561	4542	4559	4593	4643	4590	4542	4565	4677
27.5	4280	4252	4213	4179	4199	4234	4259	4197	4153	4260
30.0	3945	3949	3918	3874	3818	3835	3877	3865	3816	3864
32.5	3600	3601	3607	3586	3523	3462	3502	3561	3498	3487
35.0	3284	3266	3270	3274	3257	3193	3153	3204	3202	3155
37.5	3000	2980	2957	2966	2975	2944	2866	2879	2932	2874
40.0	2708	2711	2693	2685	2687	2691	2634	2579	2640	2612
42.5	2393	2414	2443	2434	2418	2422	2424	2338	2353	2370
45.0	2101	2115	2151	2190	2179	2175	2181	2133	2084	2141
47.5	1845	1860	1866	1906	1954	1945	1940	1945	1847	1901
50.0	1596	1625	1634	1637	1687	1730	1716	1718	1658	1655
52.5	1346	1380	1416	1425	1426	1482	1505	1494	1482	1408
55.0	1109	1132	1173	1218	1225	1228	1291	1278	1279	1146
57.5	891.2	914.5	936.5	981.8	1030	1020	1034	1071	1030	913.8
60.0	667.1	706.8	734.1	763.1	805.9	835.2	794.0	840.0	772.0	693.5
62.5	435.5	481.7	530.7	577.9	608.2	629.5	606.2	571.9	567.9	457.3
65.0	317.2	279.9	316.8	391.0	449.0	451.9	428.5	383.7	382.2	277.6
67.5	268.4	238.0	203.6	203.6	290.1	330.1	287.0	259.6	227.1	198.4
70.0	214.2	195.3	172.2	158.9	156.6	213.0	217.1	180.6	168.9	158.5
72.5	160.0	148.2	136.4	131.8	132.4	134.8	152.6	143.0	130.4	115.6
75.0	113.3	108.0	103.0	102.7	106.1	111.1	110.7	108.9	98.71	93.78
77.5	68.09	72.38	74.29	76.77	79.57	83.44	86.88	80.81	75.65	65.64
80.0	23.45	30.17	37.91	47.23	55.36	58.60	59.78	59.33	53.78	50.39
82.5	0	0	0	6.407	16.59	27.17	37.47	38.38	36.09	33.68
85.0	0	0	0	0	0	0	0	10.50	20.59	20.22
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	350.0	355.0								
0.0	7423	7423								
2.5	7343	7362								
5.0	7216	7252								
7.5	7038	7086								
10.0	6813	6869								
12.5	6542	6602								
15.0	6239	6300								
17.5	5902	5961								
20.0	5547	5600								
22.5	5177	5219								
25.0	4794	4826								
27.5	4400	4430								
30.0	4002	4051								
32.5	3622	3695								
35.0	3275	3365								
37.5	2947	3053								
40.0	2642	2765								
42.5	2357	2496								
45.0	2087	2238								
47.5	1858	1985								
50.0	1645	1739								
52.5	1422	1479								
55.0	1168	1144								
57.5	869.0	743.2								
60.0	537.5	411.5								
62.5	310.6	263.0								

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-12-02

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.998m [K=1.0000]

Remarks:



## Photometric Data Table [cd]

65.0	216.5	207.0
67.5	178.9	171.3
70.0	148.3	142.2
72.5	110.0	112.8
75.0	85.45	81.09
77.5	63.13	60.77
80.0	48.76	47.09
82.5	31.89	31.54
85.0	19.26	18.97
87.5	8.246	7.937
90.0	0	0

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-12-02**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.998m [K=1.0000]**  
**Remarks:**