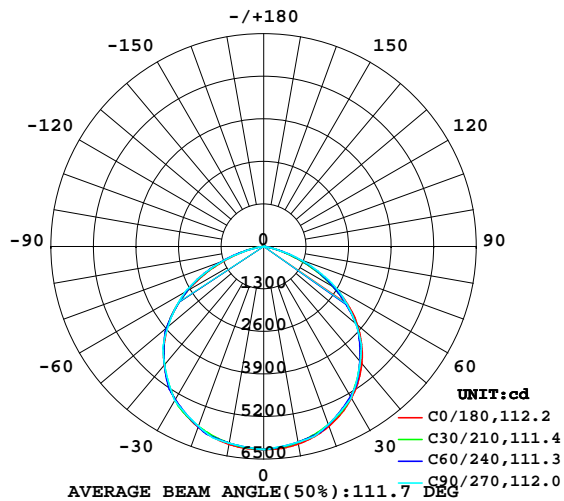


## LUMINAIRE PHOTOMETRIC TEST REPORT

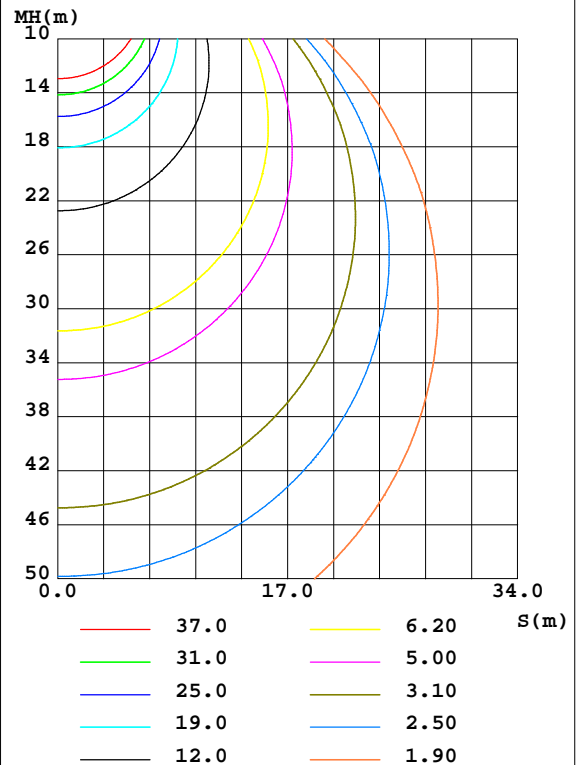
Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 167.76 lm/W			
MODEL	GHRL-17-U	Imax(cd)	6208	S/MH(C0/180)	1.29
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	16763	$\eta$ UP,DN(C0-180)	0.0,49.3
NOMINAL FLUX(lm)	16762.9	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,50.7
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.35

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:2024-11-20

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [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	6129	6068	6072	6078	6139	6098	6102	6091	0- 10	586.0	586.0	3.5,3.5
20	5846	5823	5786	5844	5872	5888	5846	5871	10- 20	1692	2278	13.6,13.6
30	5361	5282	5348	5325	5406	5385	5437	5360	20- 30	2588	4866	29,29
40	4669	4622	4596	4684	4730	4763	4717	4733	30- 40	3152	8018	47.8,47.8
50	3749	3643	3673	3755	3841	3849	3828	3798	40- 50	3276	11293	67.4,67.4
60	2519	2444	2581	2581	2675	2694	2767	2614	50- 60	2865	14158	84.5,84.5
70	1084	1127	1213	1270	1269	1377	1356	1276	60- 70	1901	16058	95.8,95.8
80	120.1	117.6	0	178.6	206.5	214.6	0	166.9	70- 80	678.3	16737	99.8,99.8
90	3.260	0	0	0	3.038	0	0	0	80- 90	26.06	16763	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): 9669.8 lm

%lum = 57.7%

%lamp = 57.7%

Conical surface Flux(120deg): 14158 lm

%lum = 84.5%

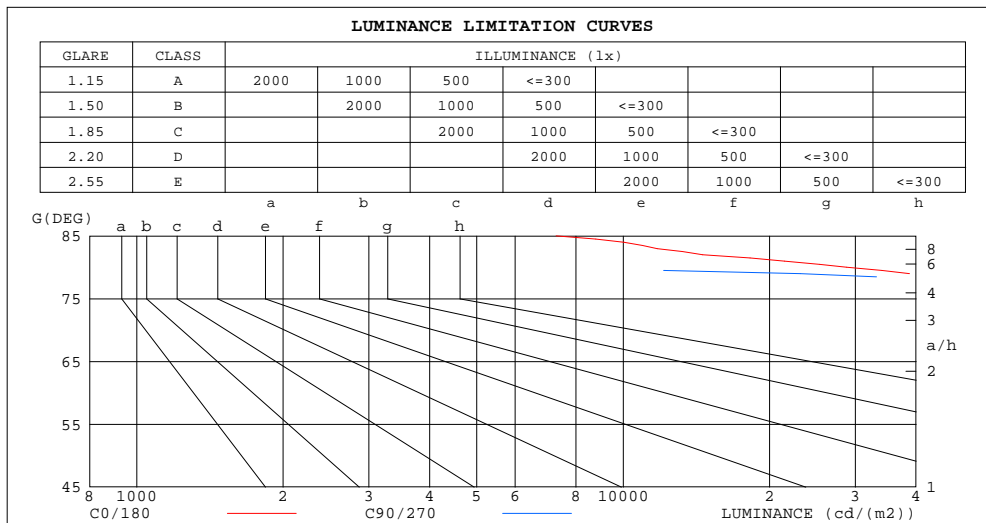
%lamp = 84.5%

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-20

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



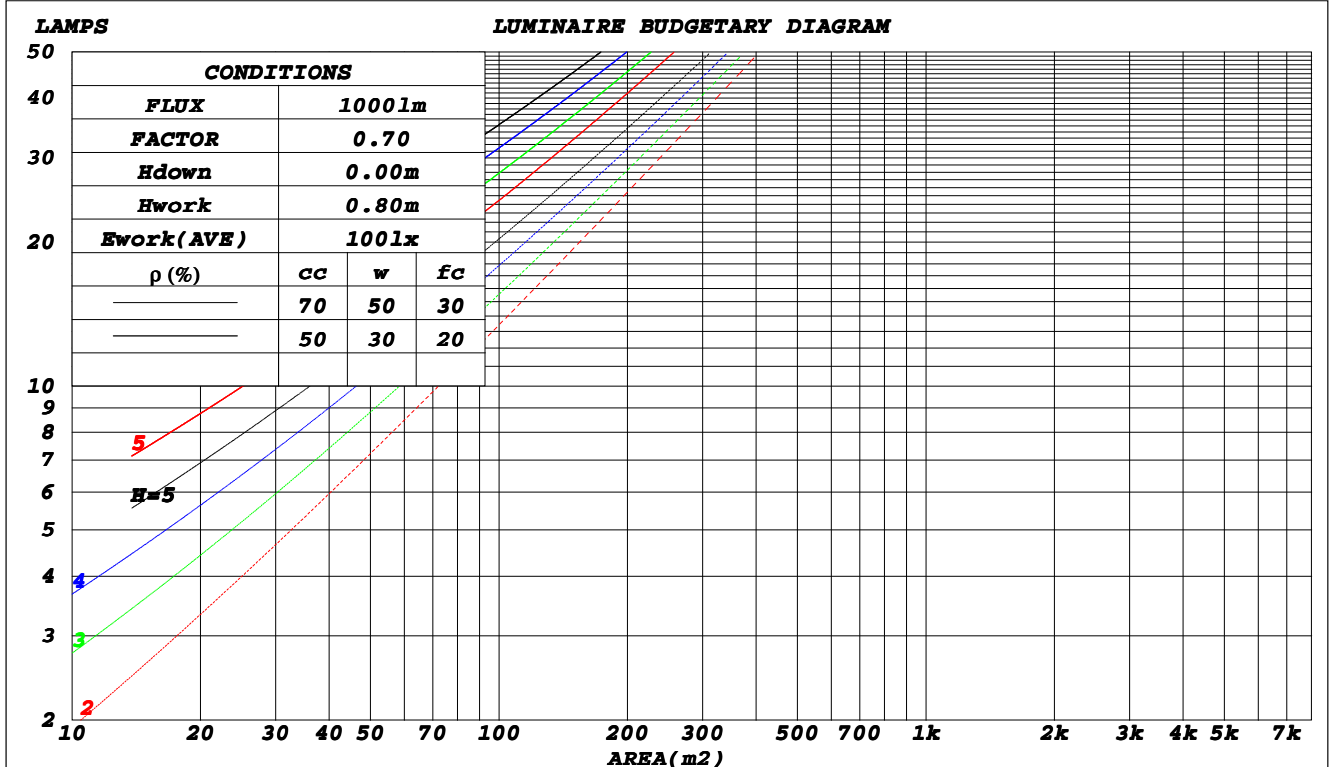
$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-20

$V(B)$  Range:-75 - 75DEG  
 $V(B)$  Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	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						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	.90	.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	.50	.62	.55	.49	.60	.53	.49	.58	.52	.48	.46
6.0	.59	.50	.44	.58	.49	.43	.56	.48	.43	.54	.48	.43	.53	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.36
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.38	.32	.27	.26



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-20

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm					
NAME: LED Explosion-proof Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:100W			DIM.: 230mm		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	.275	.157	.050	.268	.153	.049	.255	.146	.047	.243	.140	.045	.232	.134	.043		
2.0	.269	.147	.045	.263	.145	.045	.251	.140	.043	.241	.135	.042	.231	.131	.041		
3.0	.254	.135	.040	.248	.133	.040	.238	.129	.039	.229	.125	.038	.220	.122	.038		
4.0	.238	.123	.036	.233	.122	.036	.224	.119	.035	.215	.116	.035	.208	.113	.034		
5.0	.222	.113	.033	.217	.112	.033	.209	.109	.032	.202	.107	.032	.195	.104	.031		
6.0	.207	.104	.030	.203	.103	.030	.196	.101	.029	.189	.098	.029	.183	.096	.029		
7.0	.194	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.027	.172	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.023		
10.0	.161	.077	.021	.158	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021		

$\rho_{cc}$	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	.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	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.133	.075	.034	.115	.065	.030	.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	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jessy  
 Test Date:2024-11-20

$V(B)$  Range:-75 - 75DEG  
 $V(B)$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65%  
 Test Distance:6.898m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm										
NAME: LED Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:100W					DIM.: 230mm			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	21.8	23.3	22.1	23.5	23.7	21.9	23.4	22.1	23.5	23.8
3H	22.6	24.0	22.9	24.2	24.5	22.9	24.2	23.2	24.5	24.7
4H	22.8	24.0	23.1	24.3	24.5	23.0	24.3	23.3	24.6	24.8
6H	22.7	23.9	23.0	24.2	24.5	23.0	24.2	23.3	24.4	24.7
8H	22.7	23.8	23.0	24.1	24.4	22.9	24.1	23.3	24.4	24.6
12H	22.6	23.7	23.0	24.0	24.3	22.9	24.0	23.2	24.3	24.6
4H 2H	22.2	23.5	22.5	23.8	24.0	22.3	23.6	22.6	23.8	24.1
3H	23.2	24.3	23.5	24.6	24.9	23.4	24.5	23.8	24.8	25.1
4H	23.3	24.3	23.7	24.7	25.0	23.6	24.6	24.0	24.9	25.3
6H	23.3	24.2	23.7	24.6	24.9	23.6	24.5	24.0	24.8	25.2
8H	23.3	24.1	23.7	24.5	24.8	23.5	24.4	23.9	24.7	25.1
12H	23.2	24.0	23.7	24.4	24.8	23.5	24.2	23.9	24.6	25.0
8H 4H	23.4	24.2	23.8	24.6	24.9	23.6	24.4	24.0	24.8	25.2
6H	23.4	24.1	23.8	24.5	24.9	23.6	24.3	24.0	24.7	25.1
8H	23.4	23.9	23.8	24.4	24.8	23.6	24.2	24.0	24.6	25.0
12H	23.3	23.8	23.8	24.3	24.7	23.5	24.0	24.0	24.5	25.0
12H 4H	23.3	24.1	23.8	24.5	24.9	23.6	24.3	24.0	24.7	25.1
6H	23.3	23.9	23.8	24.4	24.8	23.6	24.2	24.0	24.6	25.0
8H	23.3	23.8	23.8	24.3	24.7	23.5	24.0	24.0	24.5	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.6 / - 0.6					+ 0.5 / - 0.5				

CIE Pub.117, 16763 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 9.8$ )  
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:2024-11-20

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

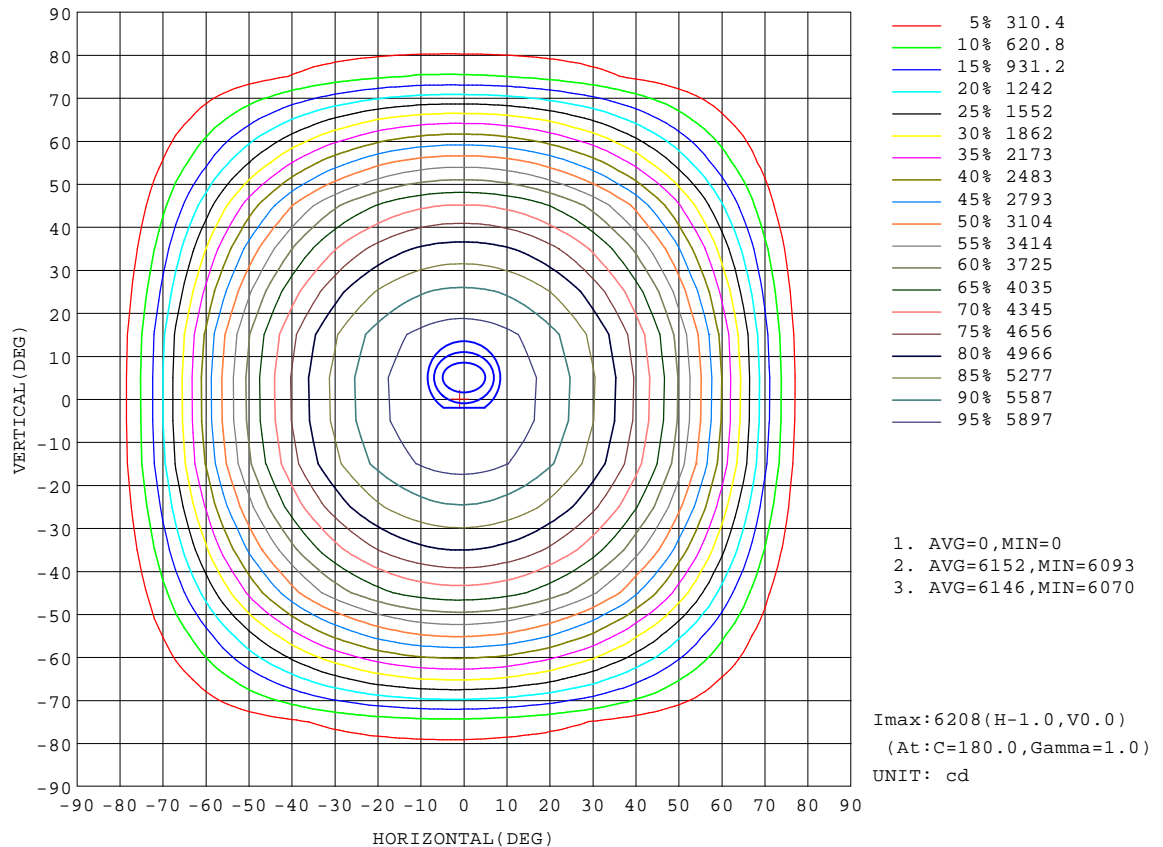
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	40	34
0.80	69	58	51	68	58	51	67	57	51	44
1.00	78	68	61	77	67	60	75	68	60	53
1.25	85	76	69	84	75	68	81	73	68	61
1.50	90	81	75	89	80	74	86	79	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	89
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:2024-11-20**

**$V(B)$  Range:-75 - 75DEG**  
 **$V(B)$  Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.898m [K=1.0000]**  
**Remarks:**

## ISOCANDELA DIAGRAM

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	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:2024-11-20**

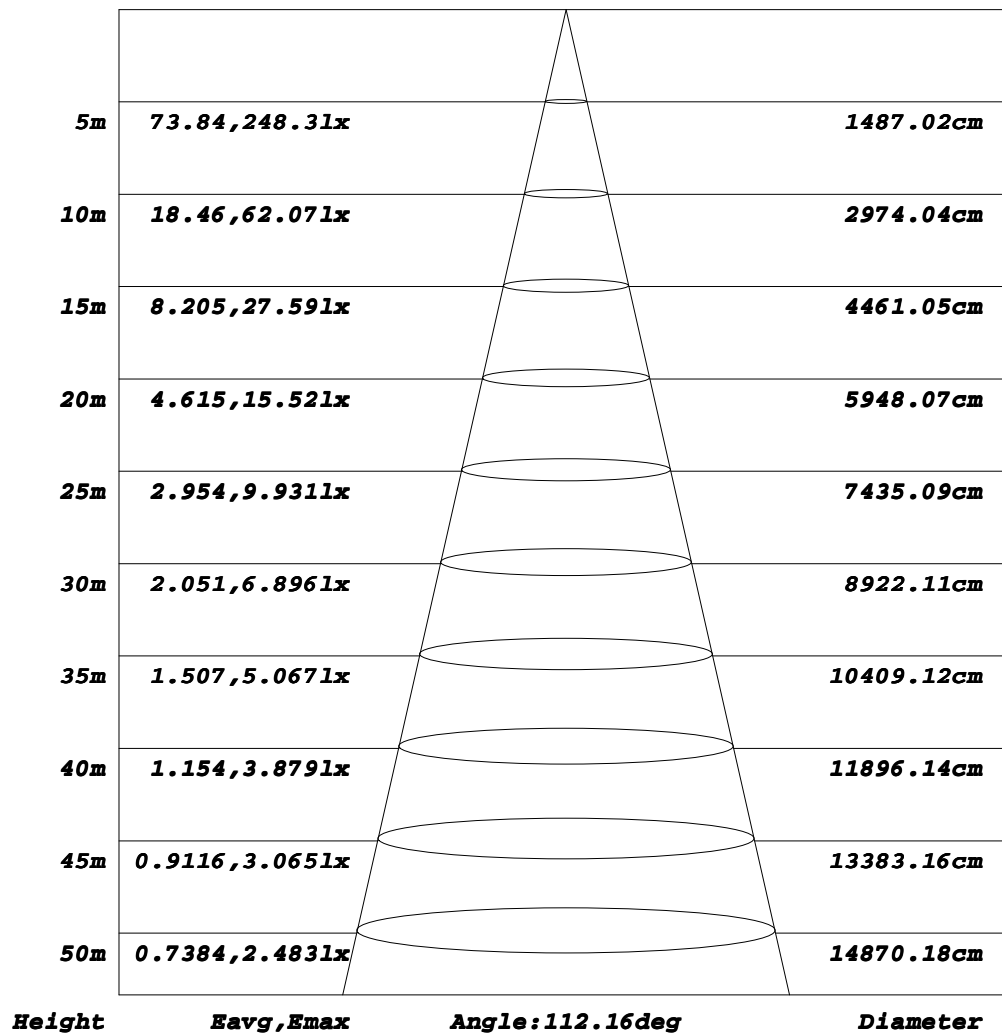
**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.898m [K=1.0000]**  
**Remarks:**



## AAI Figure

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

Flux out:13238 lm



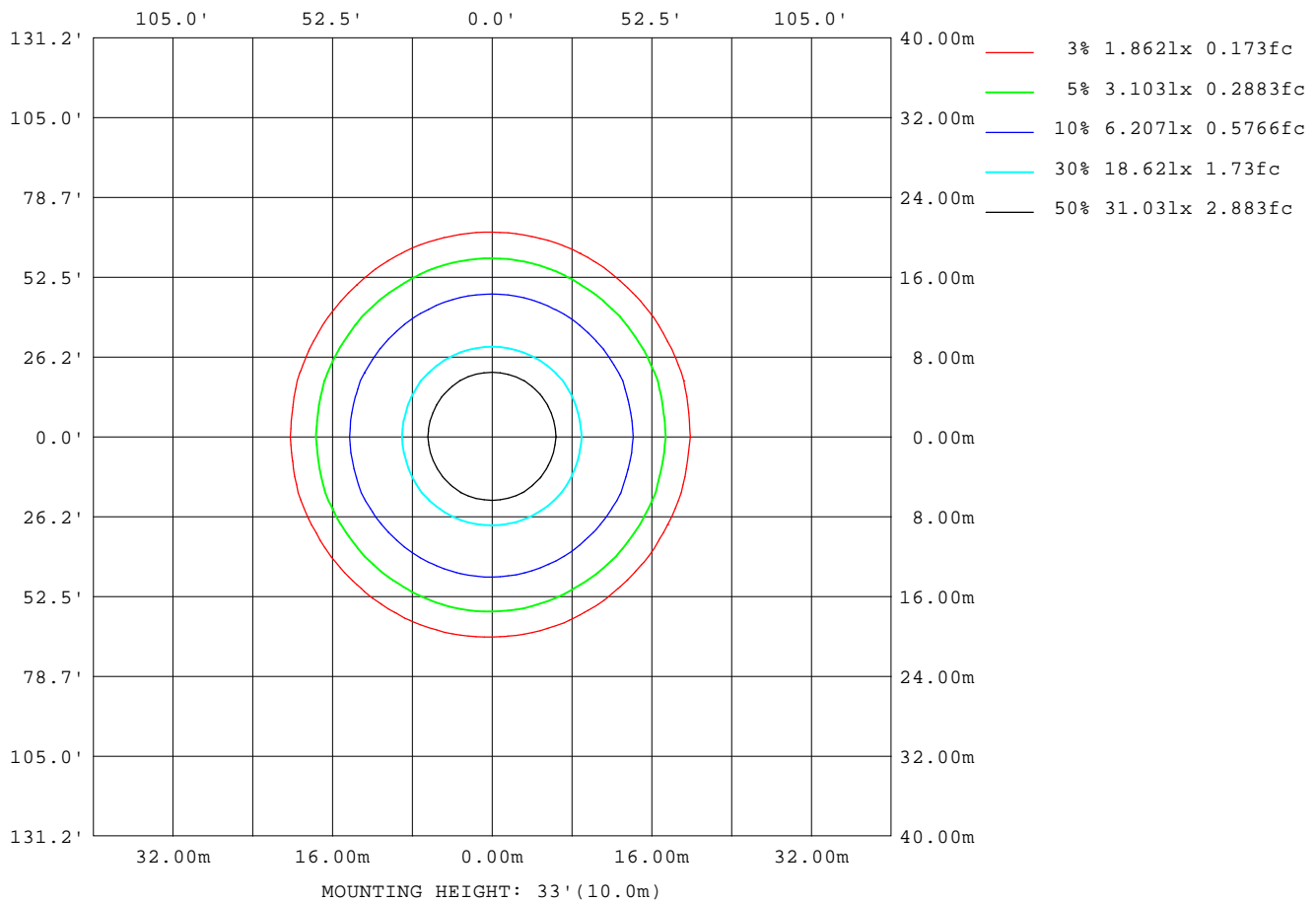
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**H( $\beta$ ) Range: -90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: Jessie**  
**Test Date: 2024-11-20**

**V(B) Range: -75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity: 65%**  
**Test Distance: 6.898m [K=1.0000]**  
**Remarks:**

## ISOLUX DIAGRAM

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	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:2024-11-20**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.898m [K=1.0000]**  
**Remarks:**

## LED Avg.L Report

Test:U:120.23V I:0.8327A P:99.919W PF:0.9981 Freq:59.98Hz Lamp Flux:16762.9x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

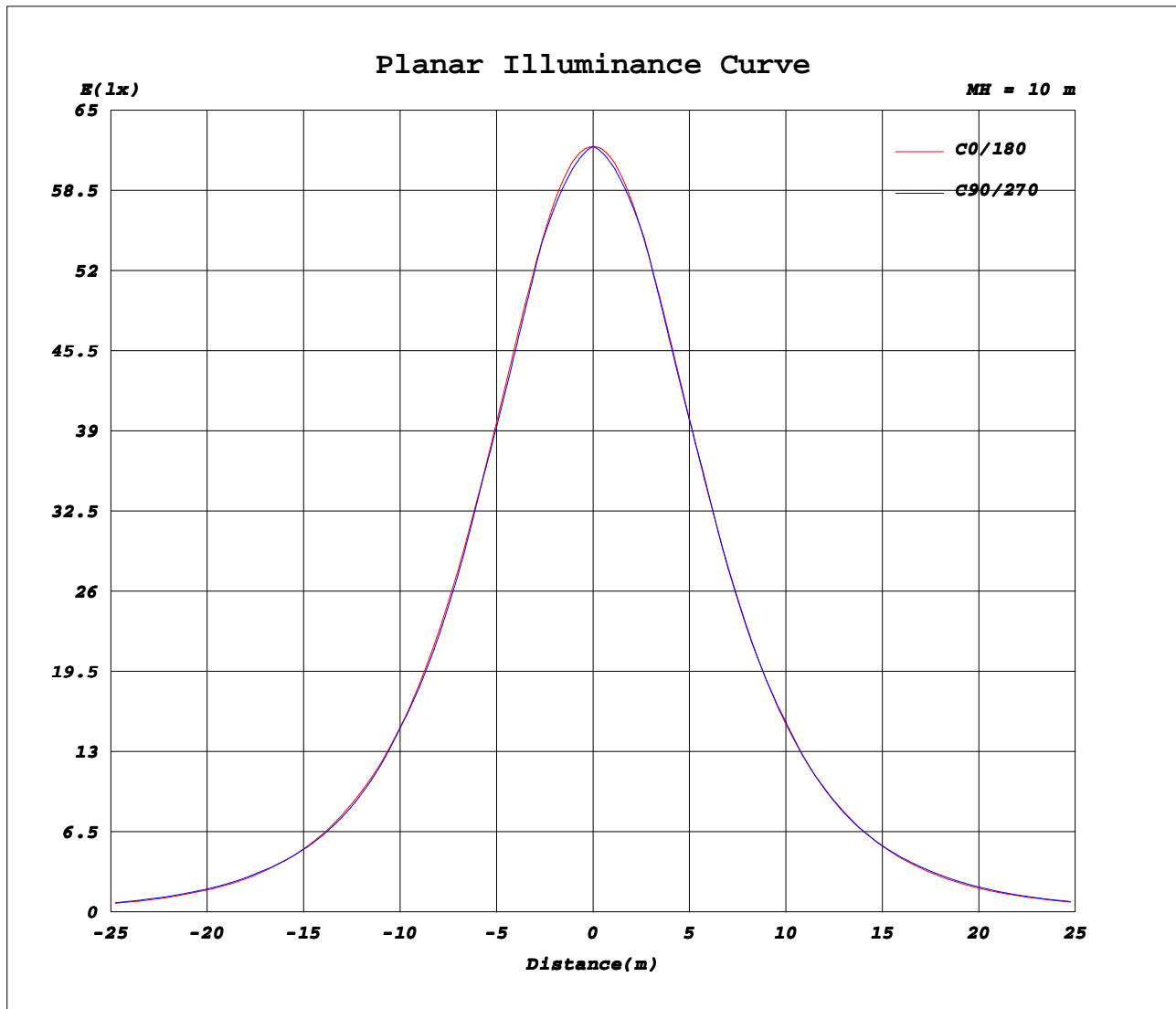
AvgL	cd/m2
L_0~180(65)av	186445
L_0~180(75)av	93755
L_0~180(85)av	11268
L_90~270(65)av	195121
L_90~270(75)av	94935
L_90~270(85)av	0
L_45(65)av	188160
L_45(75)av	109641
L_45(85)av	0

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:2024-11-20**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.898m [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: 2024-11-20

V(B) Range: -75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity: 65%  
Test Distance: 6.898m [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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6203	6200	6197	6194	6191	6189	6187	6184	6182	6180
5.0	6193	6187	6181	6175	6170	6165	6161	6157	6154	6150
7.5	6167	6158	6149	6141	6135	6129	6124	6120	6116	6114
10.0	6129	6117	6105	6095	6087	6081	6076	6072	6070	6068
12.5	6077	6061	6048	6038	6029	6023	6019	6016	6015	6015
15.0	6013	5994	5979	5967	5959	5954	5951	5951	5953	5957
17.5	5934	5912	5896	5884	5877	5874	5875	5879	5884	5892
20.0	5846	5822	5803	5791	5785	5783	5788	5797	5808	5823
22.5	5743	5716	5697	5685	5682	5685	5693	5706	5725	5708
25.0	5628	5598	5577	5567	5566	5574	5589	5610	5587	5572
27.5	5501	5468	5447	5438	5440	5453	5475	5459	5441	5429
30.0	5361	5326	5304	5297	5304	5323	5322	5300	5286	5282
32.5	5210	5172	5151	5146	5159	5181	5150	5133	5126	5128
35.0	5042	5001	4982	4983	5002	4997	4971	4959	4960	4971
37.5	4860	4817	4800	4806	4833	4802	4781	4778	4788	4807
40.0	4669	4622	4605	4618	4629	4596	4584	4589	4610	4622
42.5	4459	4411	4397	4415	4404	4380	4379	4395	4412	4385
45.0	4235	4186	4176	4203	4168	4154	4165	4195	4160	4143
47.5	3997	3948	3944	3963	3925	3920	3944	3932	3902	3896
50.0	3749	3697	3701	3698	3667	3682	3695	3652	3642	3643
52.5	3478	3424	3432	3410	3395	3425	3397	3361	3372	3389
55.0	3171	3124	3145	3103	3096	3127	3082	3068	3091	3126
57.5	2859	2802	2838	2786	2795	2772	2762	2768	2794	2786
60.0	2519	2469	2475	2447	2472	2426	2426	2459	2441	2444
62.5	2145	2107	2113	2099	2102	2084	2093	2105	2095	2097
65.0	1811	1766	1743	1756	1730	1733	1751	1750	1753	1753
67.5	1440	1411	1395	1398	1379	1404	1403	1401	1416	1419
70.0	1084	1073	1057	1054	1051	1062	1071	1074	1085	1127
72.5	781.1	766.3	753.8	741.2	750.2	759.2	755.2	778.8	825.1	851.3
75.0	510.8	488.9	482.2	470.7	491.4	485.4	504.3	556.6	578.9	585.1
77.5	283.2	261.1	261.2	268.3	270.2	288.2	328.3	349.1	345.0	327.3
80.0	120.1	112.6	109.7	120.9	131.4	166.9	172.4	156.5	122.2	117.6
82.5	41.52	36.86	43.50	41.91	64.65	65.75	36.49	36.49	31.18	15.65
85.0	15.23	13.45	15.94	15.74	14.35	9.442	0	0	0	0
87.5	3.095	4.050	3.401	0	0	0	0	0	0	0
90.0	3.260	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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6179	6177	6176	6175	6175	6174	6173	6173	6173	6173
5.0	6148	6146	6144	6142	6141	6140	6140	6139	6139	6140
7.5	6111	6109	6108	6107	6106	6106	6106	6105	6106	6106
10.0	6067	6067	6068	6068	6069	6070	6071	6072	6072	6073
12.5	6018	6021	6024	6027	6030	6033	6036	6038	6038	6039
15.0	5962	5968	5976	5982	5989	5995	6000	6003	6005	6005
17.5	5902	5912	5915	5907	5901	5897	5896	5895	5895	5897
20.0	5820	5807	5796	5790	5786	5784	5784	5785	5786	5787
22.5	5694	5683	5676	5671	5670	5670	5673	5675	5676	5678
25.0	5562	5556	5552	5551	5552	5556	5560	5564	5567	5568
27.5	5425	5424	5426	5430	5434	5441	5448	5454	5457	5459
30.0	5283	5289	5298	5307	5315	5324	5335	5343	5348	5349
32.5	5137	5150	5166	5182	5168	5158	5156	5158	5160	5164
35.0	4987	5009	4995	4982	4973	4966	4966	4969	4972	4976
37.5	4820	4798	4786	4780	4776	4773	4776	4781	4784	4788
40.0	4596	4581	4574	4575	4579	4580	4585	4592	4596	4600
42.5	4369	4361	4362	4369	4380	4387	4394	4403	4408	4412
45.0	4138	4141	4147	4161	4180	4194	4203	4214	4220	4224
47.5	3904	3917	3932	3953	3953	3947	3941	3942	3946	3954
50.0	3667	3692	3685	3669	3663	3664	3664	3667	3673	3680
52.5	3427	3400	3379	3374	3373	3380	3388	3392	3400	3407
55.0	3097	3085	3071	3077	3083	3095	3111	3116	3127	3133
57.5	2765	2770	2762	2779	2794	2809	2834	2841	2854	2860
60.0	2432	2452	2452	2478	2505	2524	2557	2565	2581	2586
62.5	2101	2131	2143	2174	2197	2202	2224	2226	2239	2247
65.0	1772	1808	1825	1839	1861	1863	1882	1885	1897	1905
67.5	1458	1486	1503	1508	1525	1524	1540	1544	1555	1564
70.0	1159	1171	1184	1181	1191	1187	1198	1204	1213	1222
72.5	866.9	863.1	865.1	855.1	857.7	850.5	857.2	863.1	871.3	881.1
75.0	579.6	561.7	548.5	532.1	525.0	514.7	516.7	522.7	529.4	539.8
77.5	299.3	265.6	265.5	267.4	267.3	262.3	261.4	262.3	264.7	271.1
80.0	116.8	106.6	91.06	71.53	50.94	30.87	14.69	3.853	0	3.984
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(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-20

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.898m [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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6174	6175	6176	6177	6178	6179	6181	6182	6184	6186
5.0	6141	6142	6143	6144	6146	6149	6151	6154	6157	6161
7.5	6107	6108	6109	6111	6112	6114	6117	6120	6124	6127
10.0	6073	6073	6074	6074	6075	6076	6077	6078	6080	6082
12.5	6038	6038	6037	6036	6034	6031	6029	6027	6027	6029
15.0	6004	6002	5998	5993	5987	5981	5976	5971	5969	5968
17.5	5901	5906	5913	5920	5930	5927	5918	5910	5904	5899
20.0	5791	5796	5800	5806	5814	5825	5841	5844	5833	5824
22.5	5681	5684	5686	5690	5695	5705	5717	5735	5756	5739
25.0	5571	5572	5572	5572	5575	5580	5590	5605	5623	5647
27.5	5460	5459	5456	5452	5451	5453	5459	5467	5482	5504
30.0	5350	5346	5340	5332	5325	5323	5322	5325	5334	5350
32.5	5172	5182	5193	5209	5198	5189	5181	5178	5179	5188
35.0	4983	4990	4999	5013	5032	5052	5037	5025	5016	5019
37.5	4793	4798	4806	4815	4830	4849	4876	4865	4849	4845
40.0	4603	4606	4612	4617	4625	4638	4657	4684	4679	4664
42.5	4413	4414	4417	4417	4419	4424	4436	4457	4490	4476
45.0	4223	4222	4221	4216	4211	4209	4215	4227	4249	4282
47.5	3963	3979	4001	4014	4000	3993	3991	3993	4001	4030
50.0	3688	3703	3717	3735	3759	3778	3765	3755	3749	3766
52.5	3413	3425	3432	3445	3461	3494	3537	3509	3492	3491
55.0	3139	3146	3147	3154	3161	3184	3220	3251	3228	3203
57.5	2864	2867	2862	2863	2858	2872	2897	2917	2949	2913
60.0	2590	2587	2577	2571	2554	2560	2569	2581	2594	2623
62.5	2259	2265	2270	2276	2248	2248	2241	2246	2246	2271
65.0	1918	1923	1932	1937	1927	1934	1914	1913	1906	1923
67.5	1576	1583	1594	1602	1599	1610	1593	1580	1572	1581
70.0	1235	1243	1257	1268	1274	1288	1281	1270	1248	1246
72.5	893.3	904.5	921.3	937.4	951.5	970.2	976.1	975.1	970.8	940.4
75.0	551.8	566.7	586.9	608.7	631.2	656.1	675.3	691.4	702.8	690.5
77.5	280.3	292.8	308.1	322.8	334.7	346.5	379.2	415.7	443.9	456.1
80.0	15.75	34.52	58.94	86.62	115.1	141.1	160.6	178.6	194.6	233.4
82.5	0	0	0	0	0	0	0	23.98	53.12	71.89
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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6189	6191	6194	6196	6199	6202	6205	6203	6201	6198
5.0	6165	6169	6174	6179	6185	6191	6197	6192	6187	6183
7.5	6132	6137	6143	6150	6157	6165	6175	6167	6161	6155
10.0	6086	6091	6098	6106	6115	6126	6139	6129	6120	6113
12.5	6032	6036	6043	6052	6063	6076	6091	6079	6069	6062
15.0	5969	5972	5978	5986	5998	6014	6032	6018	6006	5998
17.5	5897	5898	5902	5910	5922	5938	5959	5942	5931	5924
20.0	5817	5813	5814	5820	5832	5849	5872	5854	5842	5836
22.5	5726	5718	5716	5720	5730	5748	5773	5754	5742	5737
25.0	5629	5615	5608	5608	5617	5635	5663	5642	5630	5627
27.5	5522	5500	5488	5485	5492	5511	5542	5518	5507	5506
30.0	5375	5377	5357	5349	5354	5373	5406	5381	5370	5374
32.5	5208	5241	5218	5205	5207	5225	5260	5233	5223	5229
35.0	5034	5063	5069	5048	5045	5061	5097	5069	5062	5074
37.5	4853	4875	4908	4878	4868	4881	4919	4891	4887	4906
40.0	4662	4676	4710	4697	4681	4691	4730	4702	4702	4727
42.5	4463	4468	4495	4481	4490	4531	4501	4501	4503	4537
45.0	4259	4252	4266	4298	4266	4270	4311	4282	4290	4334
47.5	4048	4026	4028	4066	4043	4041	4081	4054	4070	4104
50.0	3807	3792	3783	3813	3811	3800	3841	3813	3836	3850
52.5	3517	3552	3525	3543	3561	3543	3586	3557	3588	3582
55.0	3220	3267	3250	3247	3285	3257	3298	3273	3318	3290
57.5	2912	2941	2949	2942	2996	2957	2995	2974	3025	2982
60.0	2601	2596	2645	2627	2645	2627	2675	2645	2681	2661
62.5	2285	2263	2292	2292	2295	2290	2312	2304	2324	2330
65.0	1932	1930	1932	1951	1940	1939	1971	1959	1965	1989
67.5	1588	1596	1580	1601	1585	1604	1612	1621	1609	1628
70.0	1251	1252	1252	1252	1252	1262	1269	1281	1267	1280
72.5	931.4	937.5	942.5	937.7	943.6	945.7	940.7	957.1	947.1	957.3
75.0	659.6	644.2	657.2	651.0	655.1	655.5	653.9	658.9	656.3	669.5
77.5	445.9	414.0	405.6	416.1	405.1	401.6	402.7	400.3	406.4	424.2

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-20

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.898m [K=1.0000]

Remarks:

Photometric Data Table [cd]

80.0	251.3	251.1	224.4	223.1	208.8	208.3	206.5	203.0	208.2	224.7
82.5	76.27	106.4	116.3	99.07	92.55	85.74	82.89	80.31	89.74	97.41
85.0	0	16.63	30.26	42.09	32.98	34.02	31.92	31.19	31.18	39.88
87.5	0	0	0	0	9.290	10.59	8.699	8.563	7.665	0
90.0	0	0	0	0	0	0	3.038	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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6196	6194	6192	6191	6189	6188	6186	6185	6184	6184
5.0	6179	6175	6172	6169	6167	6164	6163	6161	6159	6158
7.5	6150	6146	6142	6140	6137	6135	6134	6132	6132	6131
10.0	6108	6104	6100	6099	6098	6098	6098	6099	6100	6101
12.5	6056	6052	6050	6050	6051	6053	6056	6060	6064	6068
15.0	5994	5991	5991	5994	5998	6003	6009	6017	6024	6032
17.5	5920	5921	5924	5930	5938	5948	5958	5970	5973	5965
20.0	5834	5838	5847	5858	5872	5888	5886	5874	5864	5858
22.5	5738	5746	5760	5777	5798	5783	5770	5759	5752	5748
25.0	5632	5646	5665	5690	5670	5656	5647	5641	5638	5637
27.5	5516	5535	5562	5549	5532	5523	5519	5518	5521	5525
30.0	5389	5416	5420	5400	5389	5385	5387	5393	5401	5410
32.5	5251	5285	5257	5242	5238	5242	5251	5264	5278	5294
35.0	5103	5106	5084	5077	5081	5094	5111	5132	5117	5104
37.5	4944	4918	4904	4904	4917	4939	4955	4934	4921	4913
40.0	4748	4721	4714	4724	4748	4763	4742	4728	4722	4721
42.5	4536	4516	4517	4538	4560	4539	4527	4519	4521	4528
45.0	4309	4303	4317	4346	4324	4312	4311	4310	4317	4333
47.5	4074	4079	4109	4100	4081	4082	4090	4101	4113	4136
50.0	3831	3848	3872	3844	3834	3849	3868	3891	3877	3864
52.5	3571	3608	3588	3575	3584	3611	3646	3612	3586	3579
55.0	3299	3323	3294	3296	3332	3360	3333	3305	3291	3293
57.5	3005	3003	2988	3008	3058	3027	3015	2998	2994	3007
60.0	2692	2668	2680	2720	2707	2694	2692	2693	2695	2720
62.5	2337	2333	2372	2365	2356	2364	2365	2386	2394	2431
65.0	1982	2000	2020	2015	2010	2032	2040	2073	2068	2083
67.5	1629	1667	1667	1669	1672	1701	1713	1735	1729	1738
70.0	1299	1315	1324	1328	1344	1377	1388	1401	1393	1396
72.5	980.8	985.5	996.1	1013	1052	1065	1069	1072	1061	1056
75.0	684.8	685.2	712.5	748.6	768.7	763.9	756.6	746.6	730.6	718.7
77.5	425.1	443.9	485.9	499.6	493.8	472.2	448.8	426.0	414.2	400.7
80.0	235.2	267.0	276.0	262.0	228.8	214.6	198.8	174.8	142.3	107.4
82.5	120.6	114.2	87.69	83.88	63.25	28.69	0	0	0	0
85.0	29.86	17.84	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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6183	6182	6181	6181	6181	6181	6181	6181	6181	6182
5.0	6157	6156	6156	6155	6155	6154	6154	6154	6155	6155
7.5	6130	6130	6129	6129	6129	6128	6127	6127	6127	6127
10.0	6102	6102	6103	6103	6102	6101	6100	6099	6098	6097
12.5	6072	6074	6076	6076	6076	6074	6072	6070	6067	6062
15.0	6039	6045	6048	6049	6050	6047	6044	6039	6033	6025
17.5	5960	5956	5953	5949	5948	5946	5947	5950	5953	5958
20.0	5853	5852	5849	5847	5846	5844	5844	5845	5846	5849
22.5	5746	5746	5746	5744	5743	5741	5740	5739	5738	5739
25.0	5638	5641	5642	5642	5641	5639	5636	5633	5630	5627
27.5	5530	5535	5539	5539	5539	5536	5532	5526	5520	5513
30.0	5419	5428	5435	5437	5437	5432	5428	5419	5410	5398
32.5	5281	5272	5266	5260	5257	5256	5258	5263	5270	5281
35.0	5095	5089	5085	5080	5077	5076	5077	5078	5083	5090
37.5	4909	4906	4904	4900	4897	4897	4896	4893	4896	4897
40.0	4722	4722	4722	4721	4717	4717	4713	4709	4707	4704
42.5	4534	4538	4541	4541	4538	4537	4531	4524	4519	4508
45.0	4345	4354	4360	4361	4358	4357	4349	4339	4329	4311
47.5	4131	4117	4106	4100	4093	4096	4095	4101	4112	4113
50.0	3854	3845	3838	3835	3828	3830	3825	3827	3831	3835
52.5	3576	3572	3570	3569	3562	3564	3556	3552	3549	3545
55.0	3298	3299	3302	3304	3297	3298	3286	3277	3266	3254
57.5	3021	3026	3033	3038	3032	3032	3016	3000	2983	2962
60.0	2743	2752	2765	2772	2767	2766	2746	2723	2700	2670
62.5	2438	2428	2427	2422	2414	2416	2406	2397	2391	2376
65.0	2089	2078	2077	2070	2061	2063	2055	2046	2041	2029
67.5	1741	1729	1728	1718	1708	1710	1703	1696	1692	1684
70.0	1393	1381	1379	1366	1356	1356	1352	1347	1344	1340

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-20

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.898m [K=1.0000]

Remarks:

## Photometric Data Table [cd]

72.5	1047	1033	1030	1014	1003	1003	1002	997.9	997.4	997.6
75.0	701.3	685.6	681.5	662.1	650.0	650.4	652.1	649.9	652.6	658.2
77.5	380.0	361.1	349.9	333.2	325.0	327.2	333.8	340.0	348.6	355.6
80.0	72.59	42.56	19.67	4.897	0	4.808	18.76	40.04	66.62	95.34
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	6207	6207	6207	6207	6207	6207	6207	6207	6207	6207
2.5	6183	6183	6184	6186	6187	6189	6190	6192	6194	6196
5.0	6156	6158	6159	6161	6163	6166	6169	6172	6175	6179
7.5	6128	6128	6129	6130	6131	6133	6135	6139	6143	6148
10.0	6095	6093	6091	6091	6090	6091	6092	6095	6099	6104
12.5	6057	6053	6049	6045	6042	6040	6040	6041	6043	6048
15.0	6017	6008	6000	5993	5986	5980	5977	5975	5977	5980
17.5	5965	5960	5947	5934	5923	5913	5905	5899	5897	5900
20.0	5855	5862	5873	5871	5853	5836	5823	5813	5809	5810
22.5	5741	5745	5753	5763	5776	5753	5734	5711	5711	5707
25.0	5625	5625	5627	5634	5645	5663	5637	5615	5600	5593
27.5	5507	5501	5498	5499	5507	5520	5529	5500	5479	5467
30.0	5385	5374	5365	5360	5361	5367	5383	5374	5345	5328
32.5	5262	5245	5228	5216	5208	5207	5215	5236	5202	5180
35.0	5100	5112	5088	5067	5049	5039	5040	5057	5052	5021
37.5	4902	4911	4931	4912	4884	4865	4858	4869	4889	4848
40.0	4701	4704	4716	4733	4714	4684	4668	4668	4688	4663
42.5	4498	4494	4498	4505	4525	4497	4469	4459	4470	4465
45.0	4293	4283	4275	4274	4283	4304	4264	4241	4239	4258
47.5	4087	4070	4051	4038	4032	4049	4053	4014	4001	4023
50.0	3848	3856	3825	3798	3778	3785	3811	3779	3752	3761
52.5	3552	3569	3596	3552	3521	3508	3517	3536	3489	3481
55.0	3251	3256	3274	3291	3261	3218	3217	3248	3202	3176
57.5	2946	2944	2948	2951	2984	2923	2901	2908	2897	2867
60.0	2640	2630	2617	2614	2618	2628	2585	2556	2586	2541
62.5	2333	2314	2283	2275	2258	2265	2256	2216	2220	2191
65.0	2005	1994	1951	1936	1908	1906	1898	1878	1854	1858
67.5	1667	1658	1622	1595	1565	1553	1544	1529	1495	1501
70.0	1332	1327	1301	1276	1235	1206	1199	1183	1161	1144
72.5	998.1	999.3	988.9	973.4	953.5	897.0	871.5	862.7	851.0	828.6
75.0	666.1	675.8	681.5	683.8	677.8	650.4	596.6	570.4	570.1	548.6
77.5	357.1	357.2	379.8	403.9	417.6	418.4	394.4	352.0	327.0	322.7
80.0	122.5	145.1	159.4	166.9	169.0	200.8	211.5	204.3	165.6	153.3
82.5	0	0	0	22.28	44.70	54.48	50.94	81.07	82.51	56.14
85.0	0	0	0	0	0	0	0	11.57	18.97	20.97
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	6207	6207								
2.5	6198	6201								
5.0	6183	6188								
7.5	6153	6160								
10.0	6111	6120								
12.5	6056	6065								
15.0	5988	5999								
17.5	5907	5918								
20.0	5816	5828								
22.5	5712	5723								
25.0	5595	5607								
27.5	5466	5478								
30.0	5325	5336								
32.5	5174	5183								
35.0	5008	5014								
37.5	4828	4831								
40.0	4637	4638								
42.5	4431	4428								
45.0	4214	4205								
47.5	3984	3968								
50.0	3742	3719								
52.5	3477	3447								
55.0	3194	3149								
57.5	2898	2833								
60.0	2528	2494								
62.5	2179	2143								

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-20

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.898m [K=1.0000]

Remarks:



## Photometric Data Table [cd]

65.0	1813	1792
67.5	1459	1440
70.0	1121	1107
72.5	816.4	795.5
75.0	539.4	517.4
77.5	302.3	284.5
80.0	137.4	129.4
82.5	54.84	44.08
85.0	19.30	17.10
87.5	2.960	3.483
90.0	0	0

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-11-20**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.898m [K=1.0000]**  
**Remarks:**