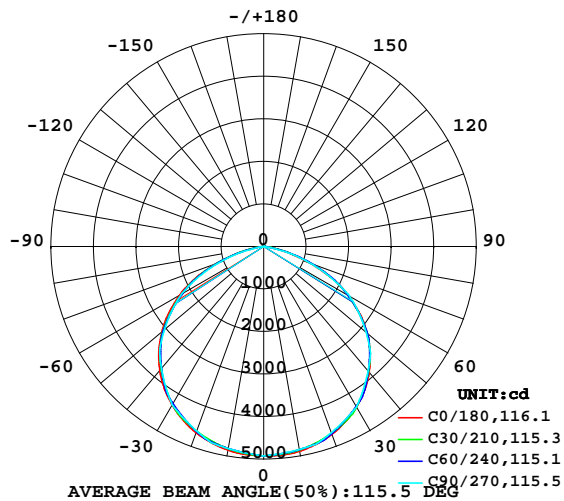


## LUMINAIRE PHOTOMETRIC TEST REPORT

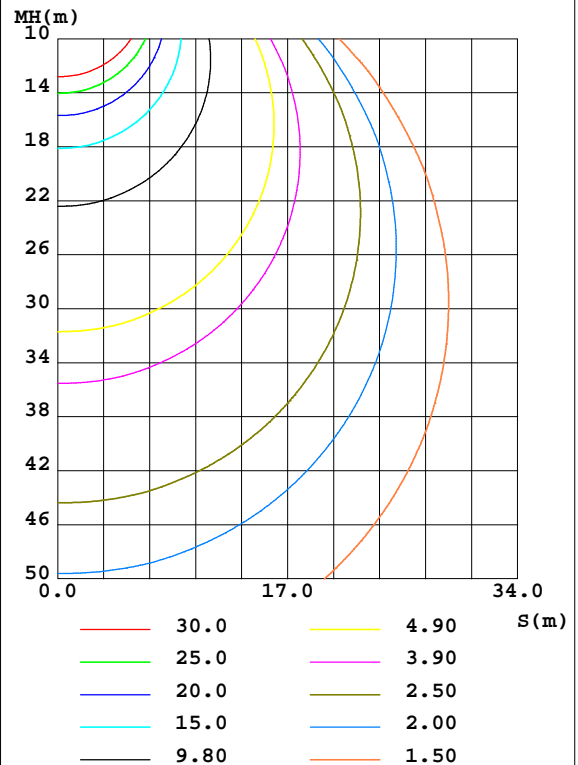
Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 173.10 lm/W			
MODEL	GHSL-13-U	Imax(cd)	4925	S/MH(C0/180)	1.30
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	13993	$\eta$ UP,DN(C0-180)	0.0,50.5
NOMINAL FLUX(lm)	13992.6	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.5
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:2024-11-15

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.938m [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	4887	4853	4845	4837	4862	4822	4824	4839	0- 10	465.4	465.4	3.33,3.33
20	4701	4702	4657	4674	4658	4644	4617	4671	10- 20	1347	1813	13,13
30	4361	4335	4361	4302	4307	4258	4301	4294	20- 30	2074	3887	27.8,27.8
40	3861	3872	3823	3838	3802	3776	3743	3817	30- 40	2551	6438	46,46
50	3173	3160	3146	3142	3126	3065	3050	3096	40- 50	2688	9126	65.2,65.2
60	2294	2279	2330	2287	2275	2201	2223	2218	50- 60	2417	11542	82.5,82.5
70	1156	1261	1187	1298	1202	1213	1116	1210	60- 70	1724	13266	94.8,94.8
80	201.9	206.0	0	248.1	221.0	197.8	0	184.3	70- 80	695.4	13961	99.8,99.8
90	3.941	0	0	0	4.065	0	0	0	80- 90	31.59	13993	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): 7787.7 lm

%lum = 55.7%

%lamp = 55.7%

Conical surface Flux(120deg): 11542 lm

%lum = 82.5%

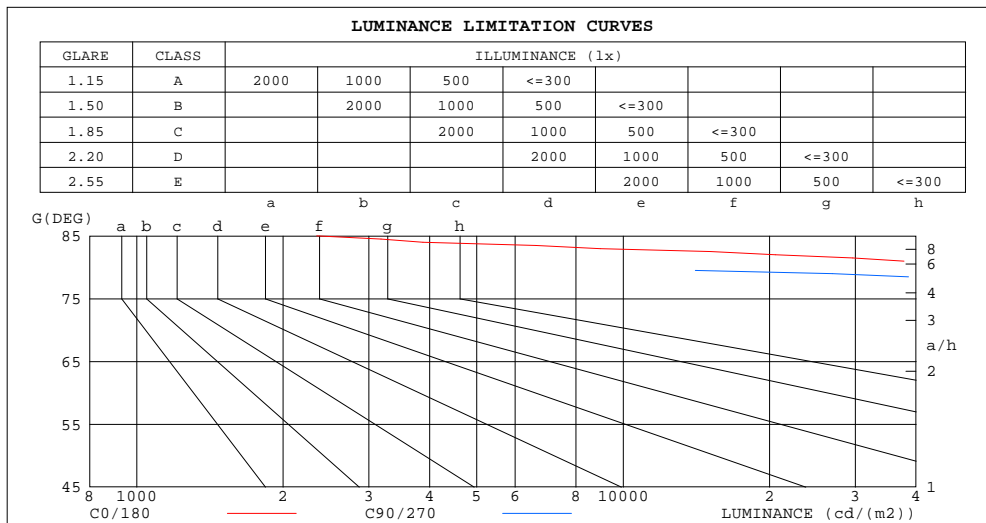
%lamp = 82.5%

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-15

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.938m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



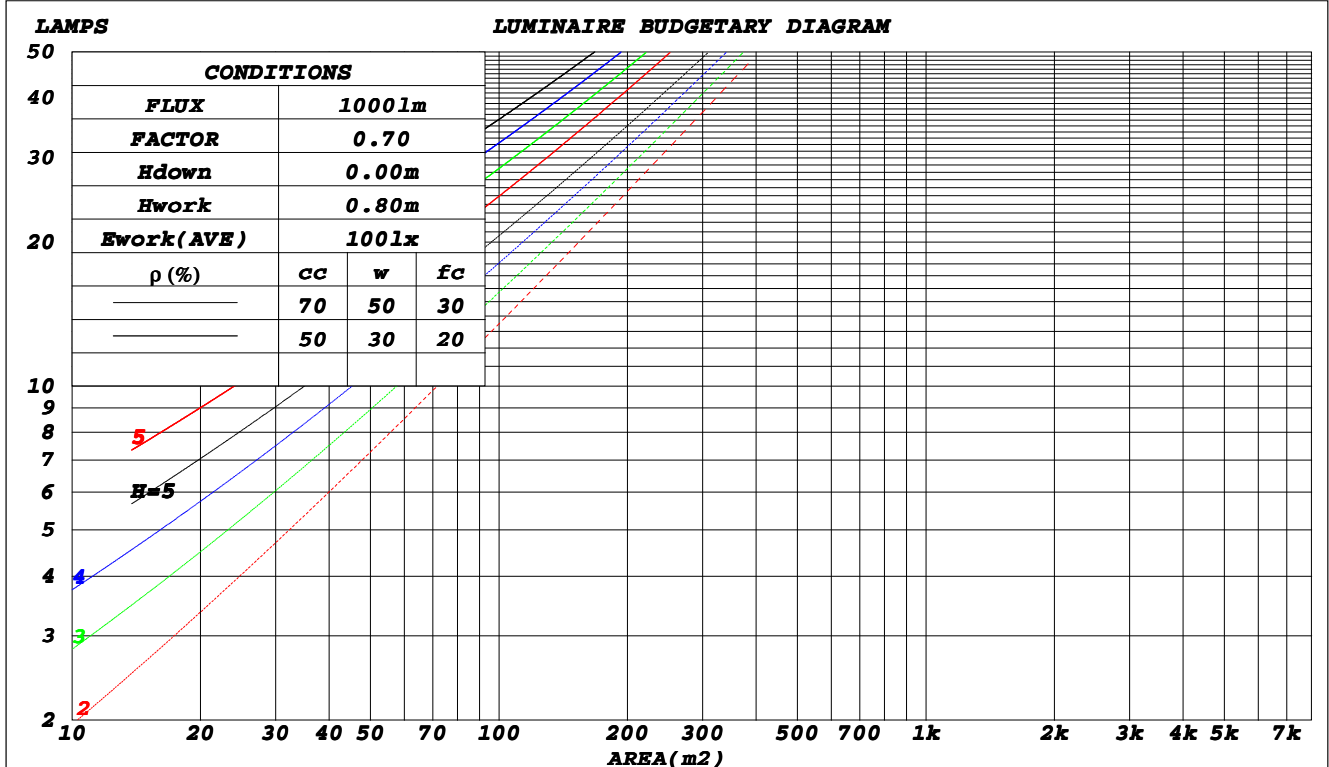
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-11-15**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [K=1.0000]**  
**Remarks:**

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.38	.33	.43	.37	.32	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-15

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.938m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*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	.284	.161	.051	.277	.158	.050	.264	.151	.048	.251	.145	.047	.240	.139	.045		
2.0	.276	.151	.046	.270	.149	.046	.258	.144	.045	.248	.139	.043	.238	.135	.042		
3.0	.260	.138	.041	.254	.136	.041	.244	.132	.040	.235	.129	.039	.226	.125	.039		
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.035		
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.206	.109	.032	.199	.106	.032		
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029		
7.0	.196	.097	.028	.193	.096	.027	.186	.094	.027	.180	.093	.027	.175	.091	.027		
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.170	.086	.025	.164	.084	.025		
9.0	.173	.083	.023	.170	.083	.023	.165	.081	.023	.160	.080	.023	.155	.079	.023		
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.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	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.012	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.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:2024-11-15**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [K=1.0000]**  
**Remarks:**

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm										
NAME: LED Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:80W/5000K/110°					DIM.: 280*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	22.3	23.8	22.6	24.0	24.2	22.3	23.8	22.6	24.0	24.2
3H	23.5	24.8	23.8	25.1	25.3	23.5	24.9	23.8	25.1	25.4
4H	23.7	25.0	24.0	25.3	25.5	23.8	25.1	24.1	25.3	25.6
6H	23.8	25.0	24.1	25.2	25.5	23.7	25.0	24.1	25.2	25.5
8H	23.7	24.9	24.1	25.2	25.5	23.7	24.9	24.0	25.2	25.4
12H	23.7	24.8	24.0	25.1	25.4	23.6	24.8	24.0	25.1	25.4
4H 2H	22.9	24.2	23.2	24.4	24.7	22.9	24.2	23.2	24.4	24.7
3H	24.2	25.3	24.5	25.6	25.9	24.2	25.3	24.6	25.6	25.9
4H	24.5	25.5	24.9	25.8	26.2	24.6	25.6	24.9	25.9	26.2
6H	24.6	25.5	25.0	25.8	26.2	24.6	25.5	24.9	25.8	26.2
8H	24.6	25.4	25.0	25.8	26.1	24.5	25.4	24.9	25.7	26.1
12H	24.5	25.3	24.9	25.7	26.1	24.5	25.2	24.9	25.6	26.0
8H 4H	24.6	25.5	25.0	25.8	26.2	24.7	25.5	25.1	25.9	26.3
6H	24.8	25.4	25.2	25.9	26.3	24.7	25.4	25.1	25.8	26.2
8H	24.7	25.4	25.2	25.8	26.2	24.6	25.3	25.1	25.7	26.1
12H	24.7	25.2	25.2	25.7	26.2	24.6	25.1	25.1	25.6	26.1
12H 4H	24.6	25.4	25.0	25.7	26.1	24.6	25.4	25.1	25.8	26.2
6H	24.7	25.3	25.2	25.8	26.2	24.7	25.3	25.1	25.7	26.1
8H	24.7	25.2	25.2	25.7	26.2	24.6	25.1	25.1	25.6	26.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 13993 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 9.2$ )  
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:2024-11-15

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.938m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

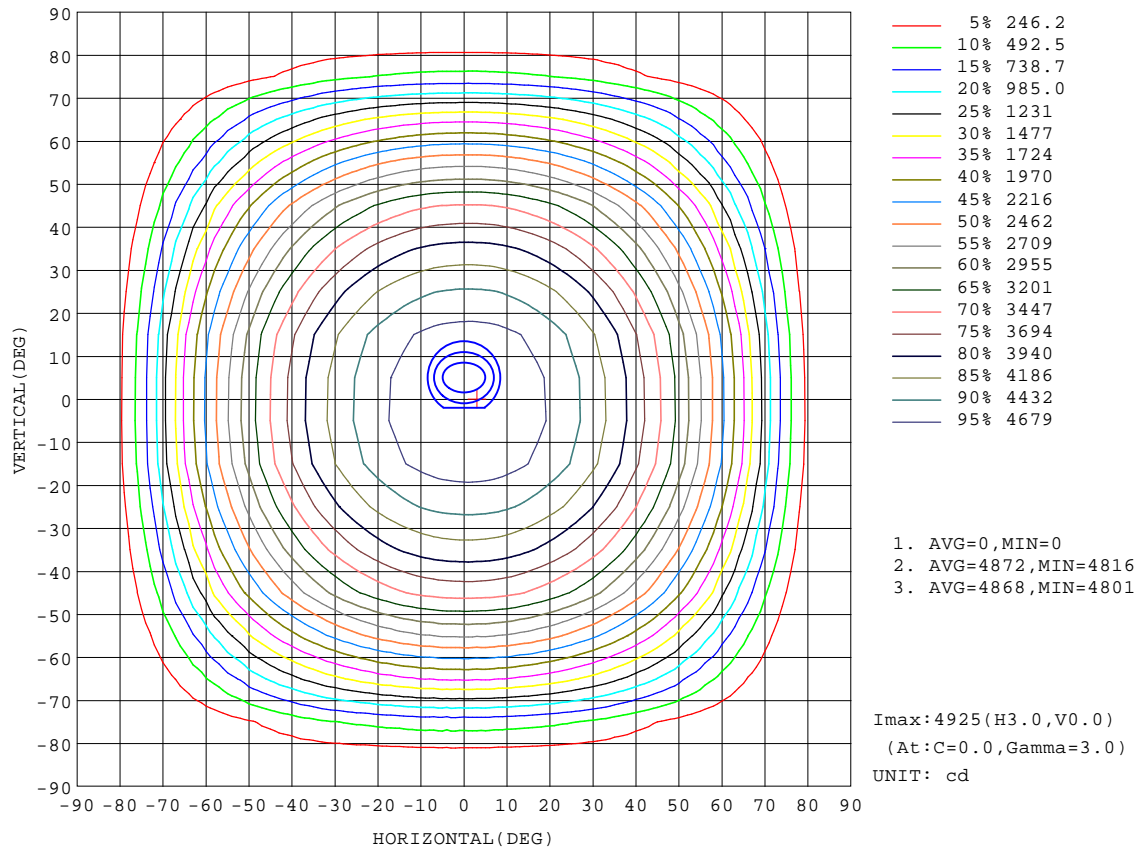
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	40	57	46	39	56	46	39	33
0.80	68	57	50	67	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
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:2024-11-15**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [K=1.0000]**  
**Remarks:**

## ISOCANDELA DIAGRAM

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*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:2024-11-15**

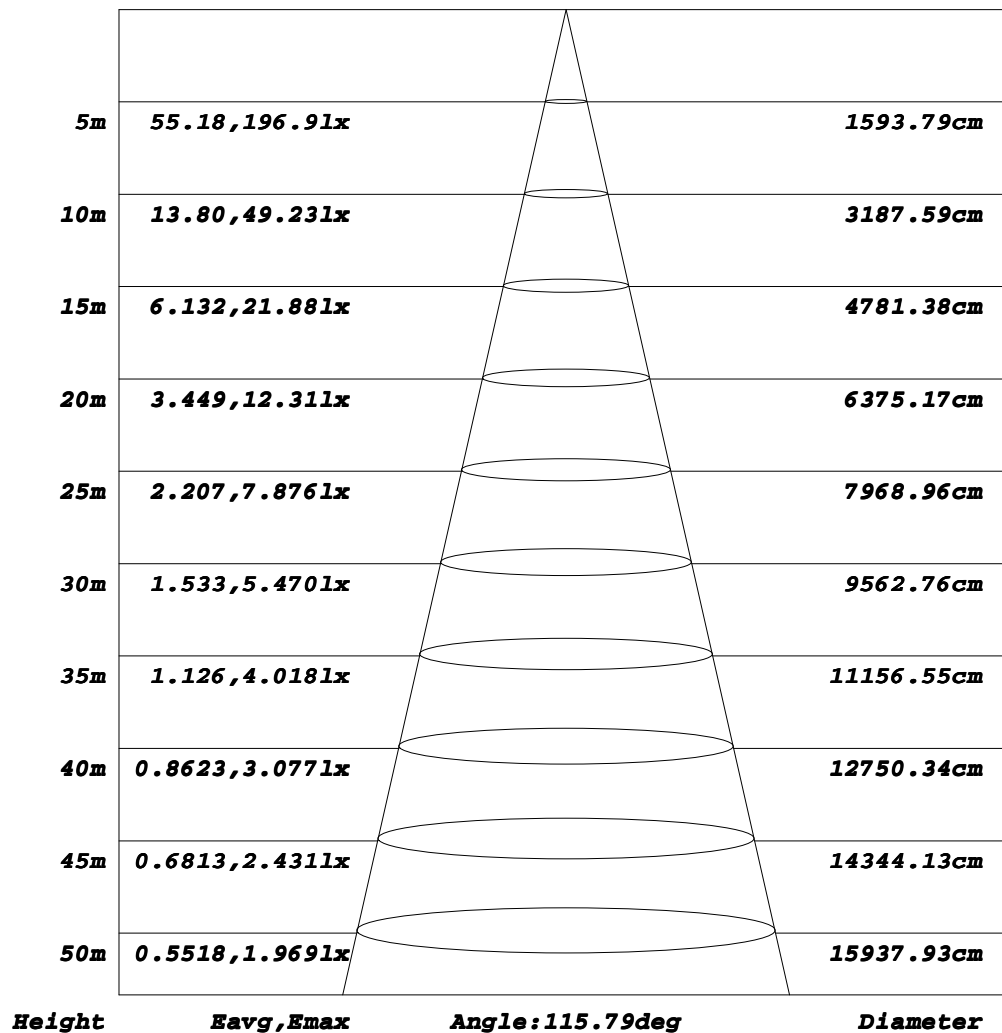
**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [K=1.0000]**  
**Remarks:**



## AAI Figure

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

Flux out:11100 lm



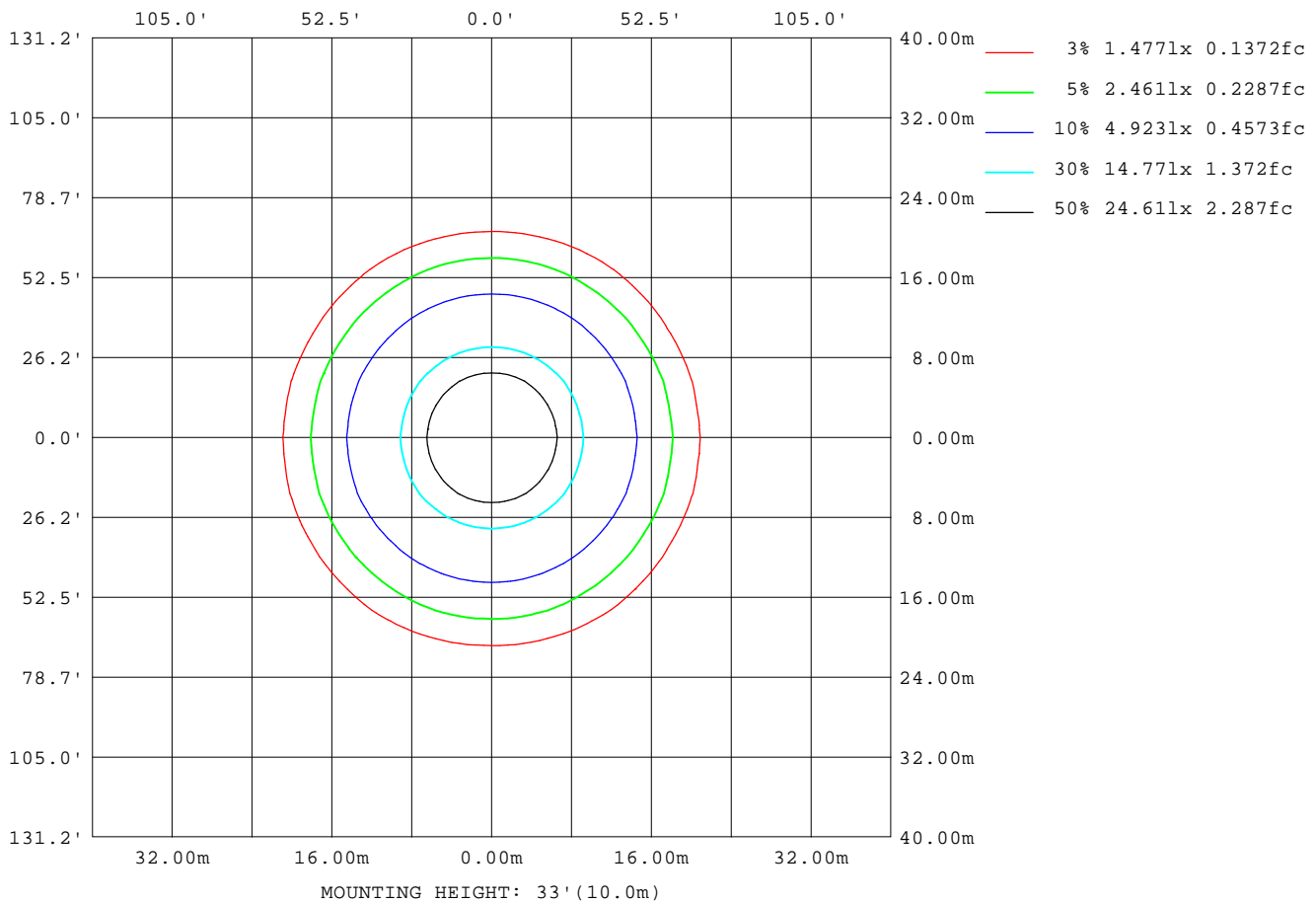
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jessie  
Test Date: 2024-11-15

V(B) Range: -75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity: 65%  
Test Distance: 6.938m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*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:2024-11-15**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [K=1.0000]**  
**Remarks:**

## LED Avg.L Report

Test:U:120.05V I:0.6751A P:80.835W PF:0.9974 Freq:59.98Hz Lamp Flux:13992.6x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:80W/5000K/110°	DIM.: 280*230mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

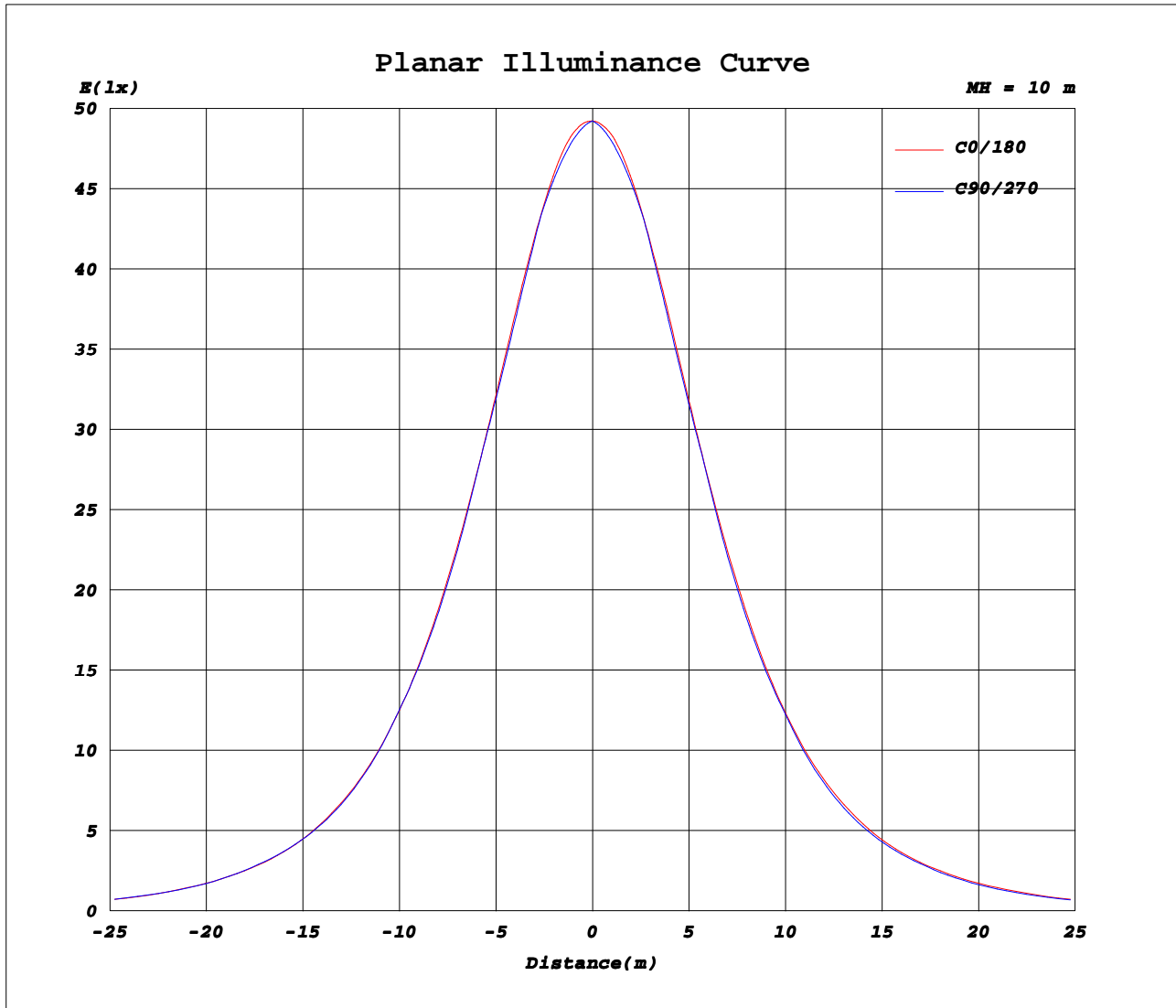
AvgL	cd/m2
L_0~180(65)av	175570
L_0~180(75)av	101917
L_0~180(85)av	2577
L_90~270(65)av	168986
L_90~270(75)av	94793
L_90~270(85)av	0
L_45(65)av	173200
L_45(75)av	114519
L_45(85)av	0

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:2024-11-15**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [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:2024-11-15

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.938m [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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4925	4923	4921	4920	4918	4916	4915	4913	4912	4910
5.0	4922	4918	4915	4911	4908	4905	4903	4900	4898	4896
7.5	4912	4906	4901	4897	4892	4888	4885	4882	4879	4876
10.0	4887	4880	4874	4868	4864	4861	4858	4857	4855	4853
12.5	4851	4842	4835	4829	4825	4822	4820	4820	4821	4823
15.0	4811	4800	4791	4784	4780	4778	4777	4778	4781	4785
17.5	4761	4748	4739	4732	4729	4728	4729	4733	4738	4744
20.0	4701	4686	4676	4670	4668	4670	4675	4681	4690	4702
22.5	4631	4616	4606	4601	4601	4604	4612	4624	4638	4655
25.0	4550	4533	4523	4520	4524	4533	4545	4560	4544	4533
27.5	4460	4442	4432	4431	4437	4451	4470	4460	4445	4436
30.0	4361	4342	4332	4333	4343	4361	4364	4349	4340	4335
32.5	4252	4231	4223	4226	4241	4264	4243	4232	4228	4230
35.0	4136	4112	4104	4110	4130	4132	4116	4109	4112	4120
37.5	4003	3979	3974	3985	4011	3992	3981	3981	3989	4006
40.0	3861	3835	3831	3847	3863	3843	3840	3848	3865	3872
42.5	3705	3679	3678	3700	3697	3684	3690	3709	3723	3700
45.0	3542	3516	3518	3545	3524	3518	3531	3563	3540	3526
47.5	3365	3338	3345	3370	3342	3346	3368	3364	3349	3345
50.0	3173	3147	3159	3168	3152	3163	3185	3159	3153	3160
52.5	2977	2951	2969	2960	2953	2974	2964	2951	2954	2970
55.0	2762	2737	2764	2744	2747	2763	2738	2742	2755	2773
57.5	2526	2505	2540	2513	2530	2522	2508	2529	2549	2525
60.0	2294	2272	2291	2277	2298	2276	2275	2307	2291	2279
62.5	2046	2028	2039	2035	2035	2026	2041	2039	2037	2033
65.0	1781	1764	1758	1787	1764	1771	1781	1771	1778	1785
67.5	1450	1443	1452	1475	1462	1517	1501	1508	1520	1536
70.0	1156	1164	1156	1165	1193	1213	1218	1231	1264	1261
72.5	879.5	891.9	892.7	887.3	895.3	909.6	928.7	952.0	991.6	987.1
75.0	621.8	613.1	618.7	625.7	640.1	650.6	672.1	707.8	726.9	717.1
77.5	388.6	383.0	383.9	396.3	408.4	435.5	464.1	474.4	469.9	447.4
80.0	201.9	200.9	204.7	215.3	233.5	259.5	266.5	248.5	219.0	206.0
82.5	47.43	57.00	82.12	93.67	113.3	107.6	83.04	78.81	60.51	27.66
85.0	4.900	9.963	17.67	32.44	17.78	15.78	0	0	0	0
87.5	3.565	6.261	6.083	0	0	0	0	0	0	0
90.0	3.941	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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4909	4908	4907	4906	4905	4904	4904	4903	4903	4903
5.0	4894	4892	4890	4889	4887	4886	4885	4884	4884	4883
7.5	4874	4873	4871	4870	4868	4867	4866	4865	4864	4863
10.0	4852	4851	4849	4849	4848	4848	4847	4846	4845	4843
12.5	4824	4825	4826	4826	4827	4827	4827	4826	4825	4823
15.0	4790	4795	4799	4802	4804	4806	4807	4807	4806	4803
17.5	4751	4760	4762	4755	4748	4742	4737	4734	4732	4730
20.0	4699	4689	4683	4678	4672	4667	4663	4660	4657	4656
22.5	4615	4606	4600	4598	4596	4592	4588	4586	4583	4581
25.0	4525	4521	4517	4517	4518	4516	4513	4511	4509	4507
27.5	4433	4432	4433	4434	4438	4440	4438	4437	4435	4432
30.0	4336	4340	4346	4351	4358	4363	4362	4362	4361	4358
32.5	4236	4245	4257	4266	4255	4247	4236	4230	4227	4225
35.0	4133	4148	4135	4123	4114	4108	4101	4095	4092	4091
37.5	4016	3997	3984	3973	3969	3965	3965	3960	3958	3956
40.0	3852	3840	3833	3830	3831	3830	3829	3825	3823	3821
42.5	3687	3680	3679	3681	3688	3691	3692	3689	3689	3686
45.0	3518	3519	3523	3531	3543	3552	3555	3554	3554	3552
47.5	3348	3356	3367	3381	3377	3371	3360	3352	3350	3351
50.0	3176	3192	3186	3172	3164	3160	3151	3146	3146	3147
52.5	3000	2977	2962	2953	2950	2948	2942	2941	2942	2944
55.0	2760	2745	2738	2735	2736	2736	2733	2736	2738	2740
57.5	2519	2515	2512	2516	2520	2522	2526	2532	2534	2536
60.0	2278	2283	2283	2296	2303	2308	2319	2327	2330	2332
62.5	2038	2049	2055	2073	2060	2049	2047	2046	2044	2049
65.0	1797	1810	1794	1789	1776	1766	1763	1763	1759	1764
67.5	1534	1528	1512	1506	1492	1483	1479	1479	1473	1479
70.0	1254	1249	1232	1223	1210	1200	1194	1195	1187	1195
72.5	978.2	972.2	955.4	942.4	927.7	916.9	909.0	910.4	901.5	911.7
75.0	703.5	695.8	678.7	662.7	646.6	633.7	623.5	626.2	615.8	628.4
77.5	430.1	420.1	404.2	382.7	359.2	338.1	321.3	315.8	307.9	317.4
80.0	194.1	171.5	138.9	102.8	68.73	39.85	18.05	4.641	0	4.671
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:2024-11-15

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.938m [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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4902	4902	4902	4902	4903	4904	4904	4905	4906	4907
5.0	4882	4882	4882	4883	4883	4884	4885	4886	4888	4889
7.5	4862	4862	4861	4861	4862	4862	4863	4865	4866	4868
10.0	4842	4841	4840	4839	4839	4838	4837	4837	4836	4836
12.5	4821	4819	4817	4815	4813	4809	4805	4801	4798	4797
15.0	4800	4797	4793	4789	4782	4775	4768	4762	4757	4753
17.5	4731	4732	4736	4739	4743	4738	4730	4720	4712	4704
20.0	4656	4657	4659	4659	4662	4668	4676	4674	4660	4648
22.5	4581	4581	4580	4579	4580	4583	4588	4595	4605	4589
25.0	4506	4504	4501	4498	4495	4495	4496	4501	4511	4525
27.5	4430	4427	4421	4415	4409	4404	4403	4404	4410	4420
30.0	4355	4349	4340	4330	4320	4312	4306	4302	4302	4308
32.5	4229	4232	4237	4245	4230	4218	4205	4195	4189	4190
35.0	4093	4095	4097	4101	4111	4120	4100	4083	4073	4067
37.5	3957	3957	3958	3958	3963	3970	3983	3970	3951	3941
40.0	3821	3819	3816	3813	3812	3814	3822	3838	3827	3809
42.5	3684	3681	3674	3667	3661	3658	3661	3669	3690	3670
45.0	3548	3542	3532	3520	3508	3500	3496	3498	3509	3523
47.5	3353	3362	3369	3371	3354	3342	3329	3321	3321	3332
50.0	3145	3153	3158	3165	3176	3181	3159	3142	3132	3133
52.5	2938	2942	2947	2950	2957	2971	2986	2959	2941	2934
55.0	2732	2732	2733	2735	2737	2745	2754	2770	2748	2732
57.5	2527	2523	2516	2517	2515	2515	2518	2530	2548	2523
60.0	2322	2314	2301	2299	2289	2286	2282	2287	2301	2317
62.5	2053	2059	2063	2077	2066	2059	2048	2045	2051	2057
65.0	1771	1777	1784	1797	1809	1829	1816	1804	1799	1798
67.5	1487	1494	1504	1517	1533	1556	1561	1565	1555	1546
70.0	1204	1210	1224	1236	1257	1277	1288	1298	1302	1282
72.5	920.7	925.3	942.7	957.1	979.2	1004	1017	1030	1032	1001
75.0	637.8	641.0	661.7	678.9	703.7	733.1	749.7	763.8	771.2	751.2
77.5	329.3	342.0	369.1	396.6	429.1	464.4	484.0	498.2	514.3	517.3
80.0	18.51	40.28	70.63	106.9	148.2	191.1	226.9	248.1	261.6	290.9
82.5	0	0	0	0	0	0	0	33.26	73.88	102.3
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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4908	4910	4911	4912	4914	4916	4917	4915	4913	4911
5.0	4892	4894	4897	4900	4903	4906	4910	4906	4901	4897
7.5	4870	4872	4875	4879	4883	4887	4893	4886	4880	4875
10.0	4837	4838	4841	4844	4849	4855	4862	4853	4845	4839
12.5	4796	4797	4799	4802	4807	4814	4823	4812	4803	4795
15.0	4750	4749	4750	4753	4758	4765	4776	4763	4752	4744
17.5	4698	4694	4693	4695	4700	4709	4720	4705	4693	4685
20.0	4639	4633	4630	4631	4636	4645	4658	4641	4629	4620
22.5	4576	4566	4560	4558	4561	4570	4584	4566	4553	4546
25.0	4506	4490	4479	4474	4475	4484	4499	4479	4466	4461
27.5	4428	4406	4391	4382	4383	4391	4408	4386	4373	4368
30.0	4320	4315	4295	4283	4280	4288	4307	4283	4270	4267
32.5	4198	4216	4192	4175	4170	4177	4196	4170	4157	4157
35.0	4071	4085	4082	4060	4051	4057	4078	4051	4039	4041
37.5	3939	3947	3963	3935	3921	3925	3947	3918	3907	3914
40.0	3797	3798	3815	3797	3779	3780	3802	3772	3764	3776
42.5	3648	3641	3651	3654	3629	3627	3650	3619	3613	3629
45.0	3492	3477	3483	3504	3472	3466	3490	3459	3457	3479
47.5	3332	3309	3306	3328	3301	3289	3312	3281	3284	3304
50.0	3154	3132	3118	3131	3117	3103	3126	3091	3094	3102
52.5	2941	2949	2926	2928	2932	2913	2938	2902	2909	2893
55.0	2725	2748	2725	2715	2731	2703	2724	2691	2708	2681
57.5	2508	2514	2512	2494	2520	2482	2499	2470	2494	2456
60.0	2285	2278	2293	2275	2282	2260	2275	2247	2255	2233
62.5	2063	2042	2049	2037	2035	2023	2036	2008	2011	1999
65.0	1814	1804	1791	1796	1779	1775	1781	1761	1747	1758
67.5	1537	1562	1497	1526	1476	1453	1459	1440	1448	1480
70.0	1266	1268	1244	1201	1191	1199	1202	1185	1158	1156
72.5	990.4	972.3	968.1	945.2	921.7	921.6	905.1	908.2	897.3	901.8
75.0	723.3	699.2	693.5	679.8	653.9	648.1	644.3	634.9	630.5	637.9
77.5	505.8	483.0	463.9	454.7	430.6	418.6	415.3	405.1	402.7	418.2

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

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-15

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.938m [K=1.0000]

Remarks:

Photometric Data Table [cd]

80.0	303.8	303.3	276.7	263.1	252.5	233.7	221.0	224.2	221.1	231.6
82.5	113.6	134.5	140.6	121.9	109.6	77.26	62.55	62.78	91.48	101.2
85.0	0	23.12	27.86	41.61	27.20	13.15	5.882	9.573	16.88	32.76
87.5	0	0	0	0	5.859	5.539	3.787	4.333	3.724	0
90.0	0	0	0	0	0	0	4.065	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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4909	4907	4906	4904	4903	4902	4900	4899	4899	4898
5.0	4893	4890	4887	4884	4881	4879	4877	4875	4874	4873
7.5	4870	4866	4862	4859	4856	4854	4852	4850	4849	4848
10.0	4834	4829	4826	4825	4823	4822	4822	4822	4822	4821
12.5	4790	4786	4784	4782	4782	4783	4786	4788	4790	4792
15.0	4739	4736	4735	4735	4737	4741	4744	4750	4756	4761
17.5	4680	4678	4679	4683	4688	4694	4702	4709	4712	4707
20.0	4616	4615	4618	4624	4633	4644	4643	4634	4626	4622
22.5	4545	4547	4553	4561	4573	4561	4552	4544	4540	4537
25.0	4462	4469	4480	4495	4477	4463	4456	4452	4451	4451
27.5	4371	4382	4399	4388	4373	4364	4357	4357	4359	4363
30.0	4274	4290	4289	4271	4262	4258	4257	4260	4266	4275
32.5	4169	4189	4164	4151	4145	4146	4153	4160	4171	4184
35.0	4056	4053	4034	4024	4024	4031	4043	4059	4046	4036
37.5	3937	3913	3897	3894	3899	3912	3921	3906	3894	3887
40.0	3786	3762	3754	3758	3771	3776	3756	3746	3740	3737
42.5	3620	3601	3602	3617	3628	3604	3589	3584	3584	3587
45.0	3449	3435	3441	3468	3445	3428	3421	3418	3428	3435
47.5	3272	3265	3278	3270	3255	3248	3251	3254	3270	3282
50.0	3080	3085	3098	3068	3061	3065	3078	3089	3087	3073
52.5	2883	2898	2883	2866	2865	2878	2900	2881	2863	2856
55.0	2679	2692	2661	2663	2668	2685	2666	2654	2640	2639
57.5	2467	2454	2439	2451	2466	2442	2432	2424	2418	2422
60.0	2241	2218	2213	2236	2219	2201	2197	2195	2196	2205
62.5	1991	1978	1986	1977	1970	1959	1960	1967	1974	1986
65.0	1735	1732	1737	1718	1717	1716	1725	1734	1719	1709
67.5	1442	1486	1465	1466	1470	1476	1470	1463	1446	1434
70.0	1182	1201	1194	1202	1221	1213	1201	1194	1175	1161
72.5	906.8	905.9	917.6	928.5	959.5	949.8	935.8	925.7	905.2	888.4
75.0	646.6	647.2	663.8	690.3	704.3	689.0	671.6	658.3	637.4	617.5
77.5	420.9	439.7	459.2	465.5	456.5	429.8	408.9	392.4	375.2	352.7
80.0	244.0	265.4	265.7	245.9	214.7	197.8	184.3	160.3	129.2	94.79
82.5	117.1	108.2	84.39	79.13	59.56	26.64	0	0	0	0
85.0	16.88	15.78	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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4898	4897	4897	4898	4898	4898	4899	4899	4900	4901
5.0	4873	4872	4872	4873	4874	4874	4875	4876	4878	4879
7.5	4847	4847	4847	4848	4849	4849	4851	4852	4854	4856
10.0	4821	4821	4822	4823	4824	4825	4827	4828	4829	4830
12.5	4794	4795	4796	4798	4799	4801	4802	4802	4802	4803
15.0	4765	4768	4770	4773	4774	4776	4776	4776	4774	4774
17.5	4702	4698	4695	4695	4696	4698	4702	4707	4714	4724
20.0	4620	4618	4616	4615	4617	4620	4623	4628	4635	4641
22.5	4537	4537	4535	4536	4538	4541	4543	4548	4553	4556
25.0	4452	4455	4455	4456	4459	4462	4464	4468	4470	4470
27.5	4367	4373	4375	4377	4380	4382	4384	4387	4385	4384
30.0	4282	4289	4294	4297	4301	4303	4304	4305	4299	4297
32.5	4174	4167	4163	4159	4162	4165	4174	4182	4192	4208
35.0	4030	4025	4022	4019	4022	4025	4033	4040	4048	4061
37.5	3886	3882	3882	3879	3882	3885	3893	3897	3904	3911
40.0	3739	3740	3741	3739	3743	3745	3751	3754	3757	3761
42.5	3592	3597	3600	3600	3603	3605	3610	3611	3609	3609
45.0	3444	3455	3459	3460	3464	3465	3468	3468	3461	3456
47.5	3277	3271	3263	3256	3257	3261	3271	3283	3292	3302
50.0	3064	3060	3054	3049	3050	3054	3062	3070	3076	3091
52.5	2851	2848	2846	2842	2843	2847	2853	2857	2861	2871
55.0	2636	2637	2637	2635	2637	2639	2643	2644	2645	2652
57.5	2422	2425	2429	2428	2430	2432	2434	2431	2429	2433
60.0	2208	2215	2220	2221	2223	2224	2224	2219	2213	2214
62.5	1970	1961	1953	1947	1946	1950	1956	1963	1973	1991
65.0	1694	1685	1677	1671	1669	1673	1678	1686	1696	1712
67.5	1420	1410	1400	1395	1392	1396	1401	1409	1420	1434
70.0	1146	1134	1125	1119	1116	1118	1124	1132	1145	1158

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-15

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.938m [K=1.0000]

Remarks:

## Photometric Data Table [cd]

72.5	873.2	859.2	848.9	842.6	838.7	841.4	846.6	855.3	869.8	883.0
75.0	600.7	584.3	573.5	566.4	561.8	564.3	569.7	579.1	595.0	609.9
77.5	331.1	310.2	295.2	285.4	280.9	284.2	293.0	306.9	326.5	346.0
80.0	63.34	36.56	16.59	4.194	0	4.176	16.47	36.17	62.40	92.92
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	4923	4923	4923	4923	4923	4923	4923	4923	4923	4923
2.5	4902	4904	4905	4907	4908	4910	4912	4914	4916	4918
5.0	4881	4884	4886	4888	4891	4894	4897	4901	4905	4909
7.5	4858	4860	4862	4865	4869	4873	4877	4882	4887	4893
10.0	4831	4834	4836	4839	4842	4845	4848	4852	4857	4863
12.5	4804	4805	4806	4805	4804	4805	4808	4811	4816	4822
15.0	4773	4770	4766	4763	4762	4761	4762	4764	4769	4776
17.5	4732	4730	4725	4719	4715	4712	4711	4712	4716	4723
20.0	4647	4656	4669	4671	4663	4657	4654	4653	4654	4660
22.5	4561	4569	4579	4592	4608	4597	4589	4585	4585	4589
25.0	4474	4479	4486	4498	4512	4531	4519	4510	4506	4506
27.5	4385	4387	4391	4398	4409	4427	4441	4426	4417	4416
30.0	4294	4292	4291	4294	4301	4313	4332	4336	4321	4317
32.5	4201	4194	4188	4184	4186	4193	4209	4234	4218	4209
35.0	4077	4093	4080	4071	4066	4067	4080	4101	4105	4092
37.5	3923	3939	3959	3953	3941	3938	3944	3960	3984	3964
40.0	3768	3778	3794	3817	3813	3804	3800	3808	3833	3824
42.5	3610	3616	3626	3643	3672	3662	3647	3647	3666	3675
45.0	3452	3453	3456	3465	3486	3511	3487	3479	3492	3520
47.5	3293	3286	3284	3283	3292	3312	3321	3305	3310	3344
50.0	3112	3120	3109	3096	3095	3107	3137	3121	3119	3142
52.5	2887	2906	2929	2906	2897	2900	2916	2934	2921	2934
55.0	2660	2675	2688	2709	2697	2691	2692	2725	2714	2717
57.5	2432	2442	2448	2464	2490	2476	2464	2484	2495	2486
60.0	2205	2208	2209	2218	2237	2256	2234	2239	2264	2254
62.5	1978	1974	1969	1970	1983	1992	2002	1990	2006	2009
65.0	1720	1736	1730	1722	1725	1726	1746	1741	1729	1761
67.5	1444	1461	1471	1477	1470	1447	1463	1489	1438	1431
70.0	1171	1185	1197	1210	1215	1176	1173	1170	1173	1147
72.5	898.2	910.5	923.9	940.4	949.7	916.9	893.9	882.1	871.6	857.5
75.0	626.9	638.6	654.2	675.5	692.8	677.7	650.1	630.8	624.7	616.9
77.5	363.5	369.0	388.6	414.2	438.7	449.2	444.5	413.4	393.6	388.2
80.0	125.1	151.5	172.3	184.3	194.8	229.6	248.4	244.7	220.2	208.0
82.5	0	0	0	24.70	53.36	70.36	75.21	99.63	106.1	88.09
85.0	0	0	0	0	0	0	0	13.60	13.66	28.48
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	4923	4923								
2.5	4920	4923								
5.0	4913	4917								
7.5	4899	4905								
10.0	4870	4878								
12.5	4830	4840								
15.0	4785	4797								
17.5	4733	4745								
20.0	4669	4683								
22.5	4598	4611								
25.0	4514	4529								
27.5	4422	4437								
30.0	4321	4336								
32.5	4211	4225								
35.0	4092	4106								
37.5	3959	3972								
40.0	3816	3827								
42.5	3662	3671								
45.0	3501	3507								
47.5	3328	3329								
50.0	3142	3138								
52.5	2950	2941								
55.0	2745	2727								
57.5	2524	2497								
60.0	2274	2263								
62.5	2021	2018								

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-11-15

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

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

Humidity:65%

Test Distance:6.938m [K=1.0000]

Remarks:



## Photometric Data Table [cd]

65.0	1734	1746
67.5	1429	1434
70.0	1138	1150
72.5	876.5	883.4
75.0	605.5	605.2
77.5	376.6	376.4
80.0	201.2	194.8
82.5	78.44	49.38
85.0	13.03	7.610
87.5	3.593	4.074
90.0	0	0

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-11-15**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.938m [K=1.0000]**  
**Remarks:**