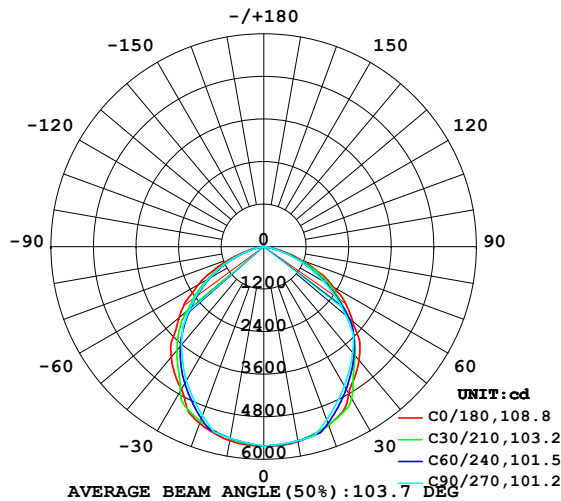


## LUMINAIRE PHOTOMETRIC TEST REPORT

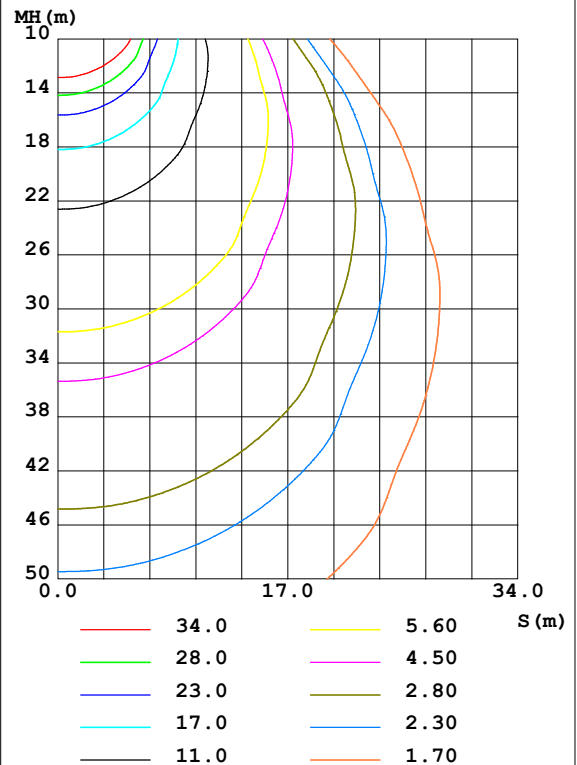
Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.42 lm/W			
MODEL	GSM-15-U	I <sub>max</sub> (cd)	5630	S/MH(C0/180)	1.24
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	13876	□ UP,DN(C0-180)	0.0,51.2
NOMINAL FLUX(lm)	13876.2	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,48.8
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	5581	5558	5557	5540	5553	5488	5485	5509	0- 10	531.6	531.6	3.83,3.83
20	5356	5395	5195	5359	5300	5260	5067	5301	10- 20	1534	2065	14.9,14.9
30	4798	4765	4540	4710	4648	4585	4371	4643	20- 30	2294	4360	31.4,31.4
40	4179	3892	3904	3771	4064	3618	3609	3737	30- 40	2668	7027	50.6,50.6
50	3270	3118	3035	3009	3126	2773	2737	2913	40- 50	2676	9703	69.9,69.9
60	2265	2096	1935	1937	2118	1727	1756	1913	50- 60	2225	11928	86,86
70	1143	947.3	918.5	878.8	996.6	785.7	805.9	870.5	60- 70	1417	13346	96.2,96.2
80	236.3	145.4	0	115.0	158.8	84.84	0	131.6	70- 80	506.6	13852	99.8,99.8
90	3.132	0	0	0	3.572	0	0	0	80- 90	23.95	13876	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): 8392.2 lm

%lum = 60.5%

%lamp = 60.5%

Conical surface Flux(120deg): 11928 lm

%lum = 86.0%

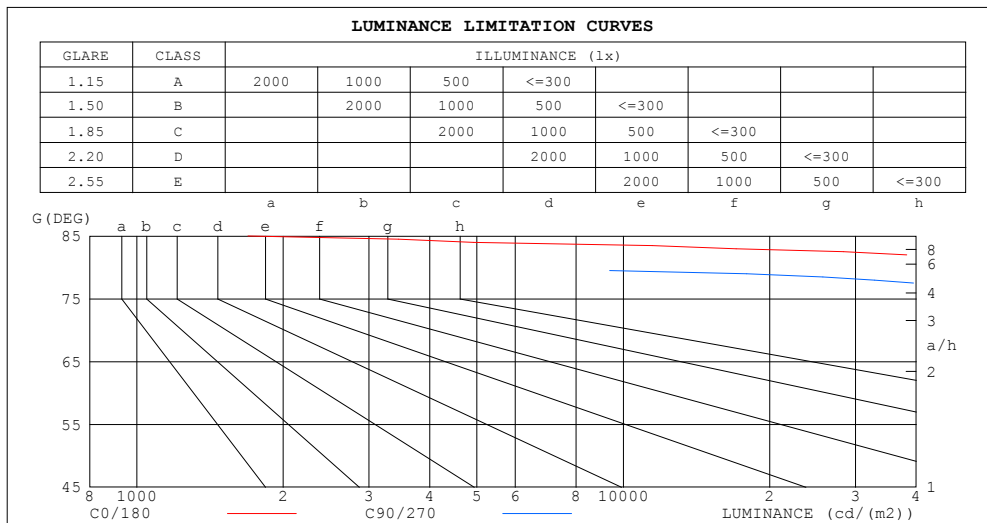
%lamp = 86.0%

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1692	0
80	56706	0
75	103363	66062
70	139217	111901
65	169699	140663
60	188775	161243
55	205864	180526
50	211936	196751
45	225720	211274

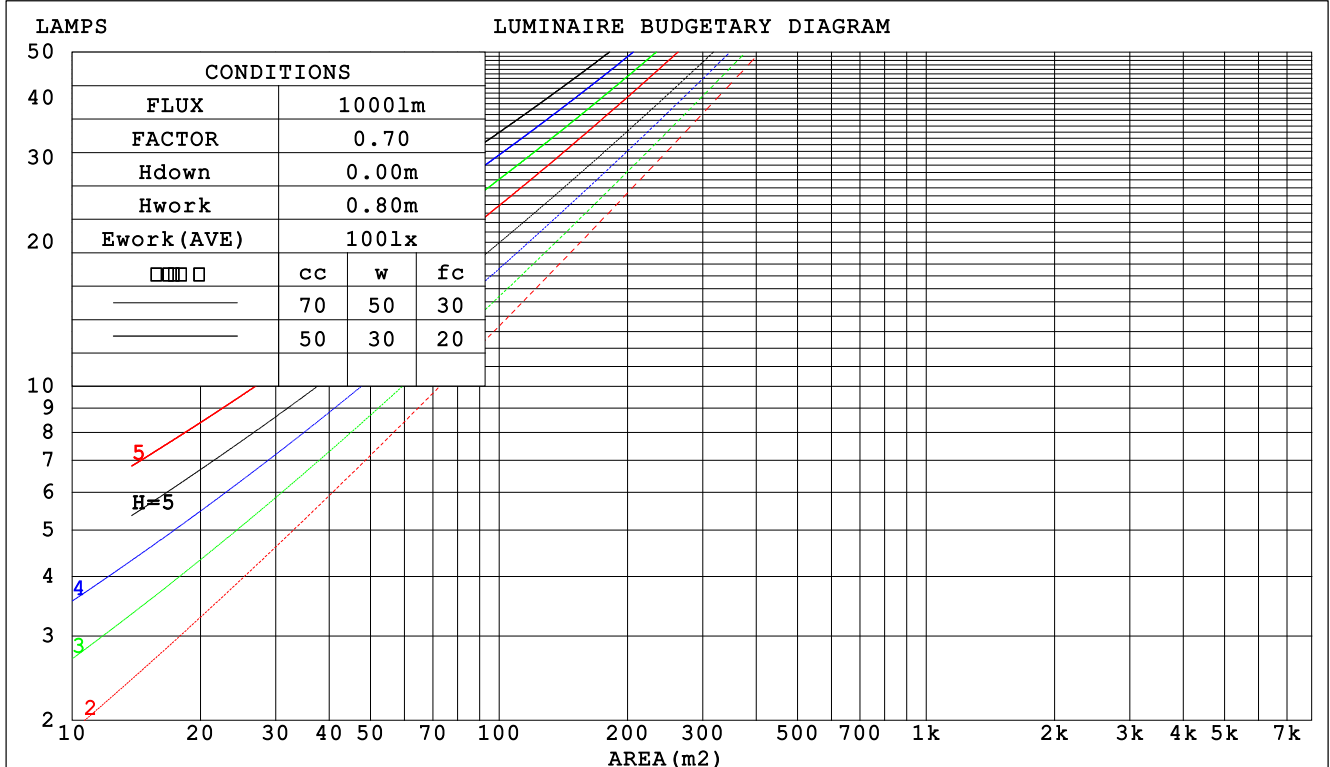
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:100W/110°			DIM.: 120*210mm		SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.			SUR.:N/A		Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.268	.152	.048	.261	.149	.047	.248	.142	.045	.236	.136	.044	.225	.130	.042	
2.0	.262	.143	.044	.256	.141	.043	.244	.136	.042	.234	.131	.041	.224	.127	.040	
3.0	.247	.132	.039	.242	.130	.039	.232	.126	.038	.223	.122	.037	.214	.118	.037	
4.0	.232	.120	.035	.227	.119	.035	.218	.116	.035	.210	.113	.034	.202	.110	.033	
5.0	.217	.110	.032	.213	.109	.032	.205	.107	.031	.197	.104	.031	.190	.102	.031	
6.0	.203	.102	.029	.199	.101	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028	
7.0	.190	.094	.027	.187	.093	.026	.180	.091	.026	.174	.089	.026	.169	.088	.026	
8.0	.178	.087	.024	.175	.086	.024	.170	.085	.024	.164	.083	.024	.159	.082	.024	
9.0	.168	.081	.023	.165	.081	.023	.160	.079	.022	.155	.078	.022	.151	.077	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.143	.072	.021	

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□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	.177	.157	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.078	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.009	.013	.007	.003	

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:100W/110°					DIM.: 120*210mm			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	21.8	23.2	22.0	23.4	23.6
3H	23.4	24.7	23.7	25.0	25.2	22.7	24.0	23.0	24.2	24.5
4H	23.7	25.0	24.0	25.2	25.4	22.8	24.1	23.1	24.3	24.6
6H	23.8	24.9	24.1	25.2	25.5	22.8	23.9	23.1	24.2	24.5
8H	23.7	24.9	24.1	25.1	25.4	22.7	23.8	23.1	24.1	24.4
12H	23.7	24.8	24.0	25.1	25.4	22.7	23.7	23.0	24.0	24.3
4H 2H	22.7	24.0	23.0	24.2	24.5	22.3	23.5	22.6	23.8	24.0
3H	23.9	25.0	24.3	25.3	25.6	23.3	24.4	23.6	24.7	25.0
4H	24.3	25.3	24.6	25.6	25.9	23.5	24.5	23.8	24.8	25.1
6H	24.4	25.3	24.8	25.6	26.0	23.4	24.3	23.8	24.7	25.0
8H	24.4	25.2	24.8	25.5	25.9	23.4	24.2	23.8	24.6	24.9
12H	24.3	25.1	24.8	25.5	25.9	23.4	24.1	23.8	24.5	24.9
8H 4H	24.3	25.1	24.7	25.5	25.8	23.5	24.3	23.9	24.7	25.1
6H	24.5	25.1	24.9	25.5	25.9	23.5	24.2	24.0	24.6	25.0
8H	24.5	25.0	24.9	25.5	25.9	23.5	24.1	23.9	24.5	24.9
12H	24.4	24.9	24.9	25.4	25.8	23.4	23.9	23.9	24.4	24.9
12H 4H	24.3	25.0	24.7	25.4	25.8	23.5	24.2	23.9	24.6	25.0
6H	24.4	25.0	24.9	25.4	25.9	23.5	24.1	24.0	24.5	24.9
8H	24.4	24.9	24.9	25.4	25.8	23.5	24.0	23.9	24.4	24.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.4				
1.5H	+ 0.2 / - 0.5					+ 0.3 / - 0.6				
2.0H	+ 0.5 / - 0.4					+ 0.6 / - 0.7				

CIE Pub.117, 13876 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.1)  
Area: 0.024 m2

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

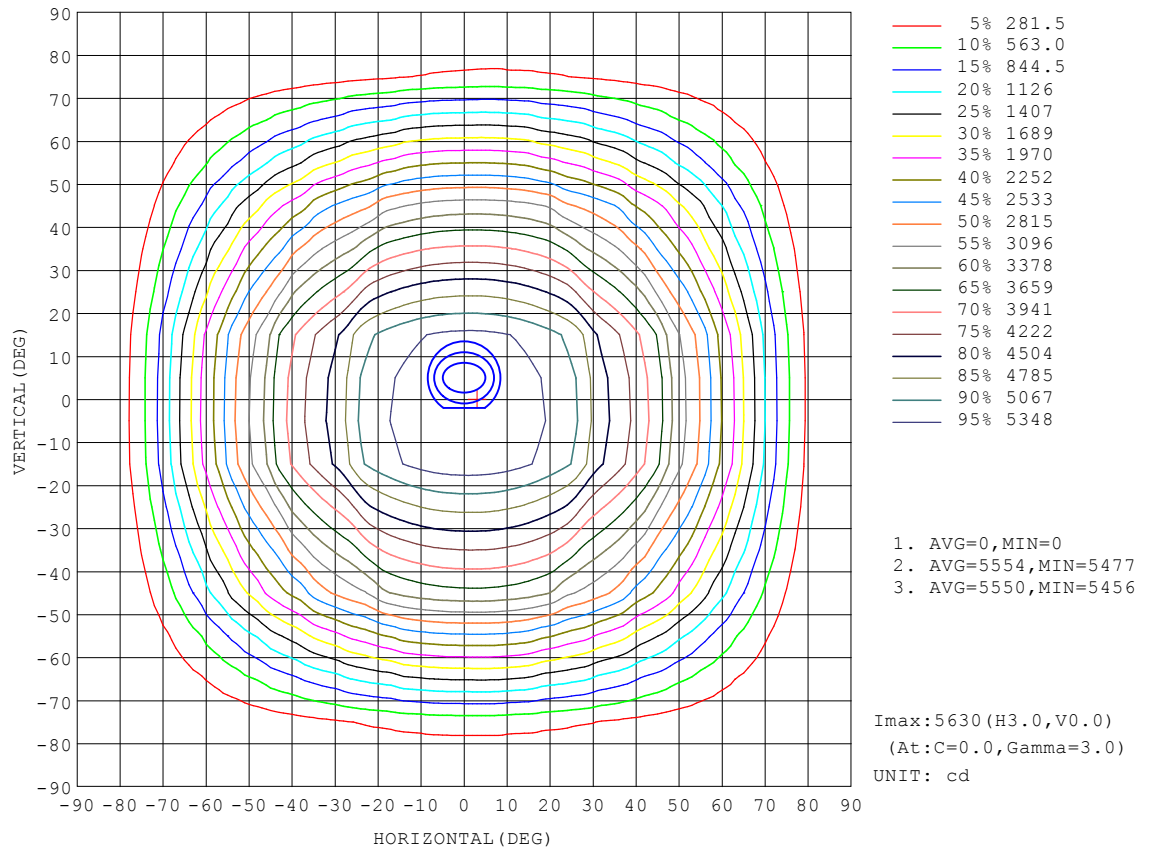
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	61	50	43	60	49	43	59	49	43	37
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	69	63	78	69	62	76	70	62	55
1.25	87	77	71	85	76	70	83	75	69	63
1.50	91	83	76	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	95	89	100	93	88	96	91	87	79
3.00	105	99	94	103	97	93	99	94	90	83
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG  
 H(□) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jessy  
 Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65%  
 Test Distance:6.908m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



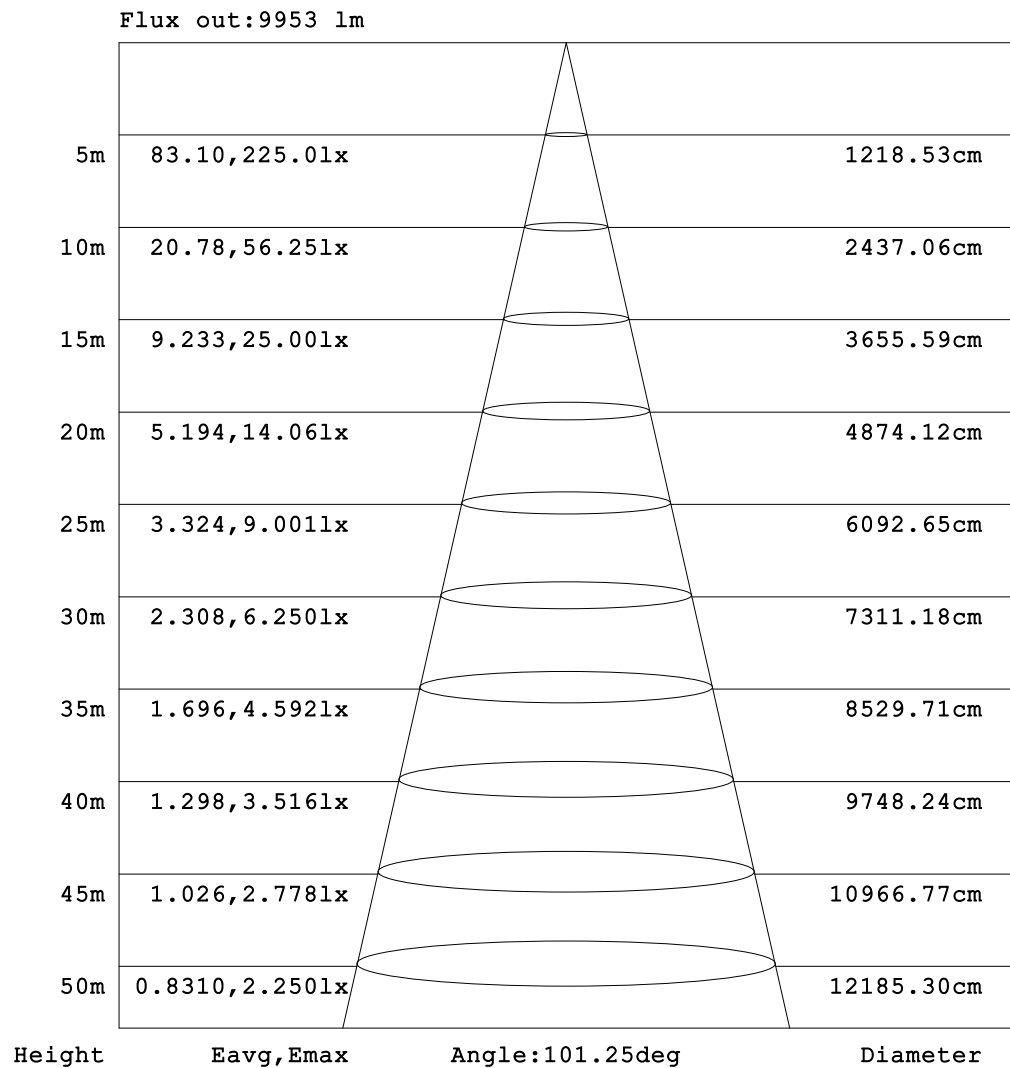
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



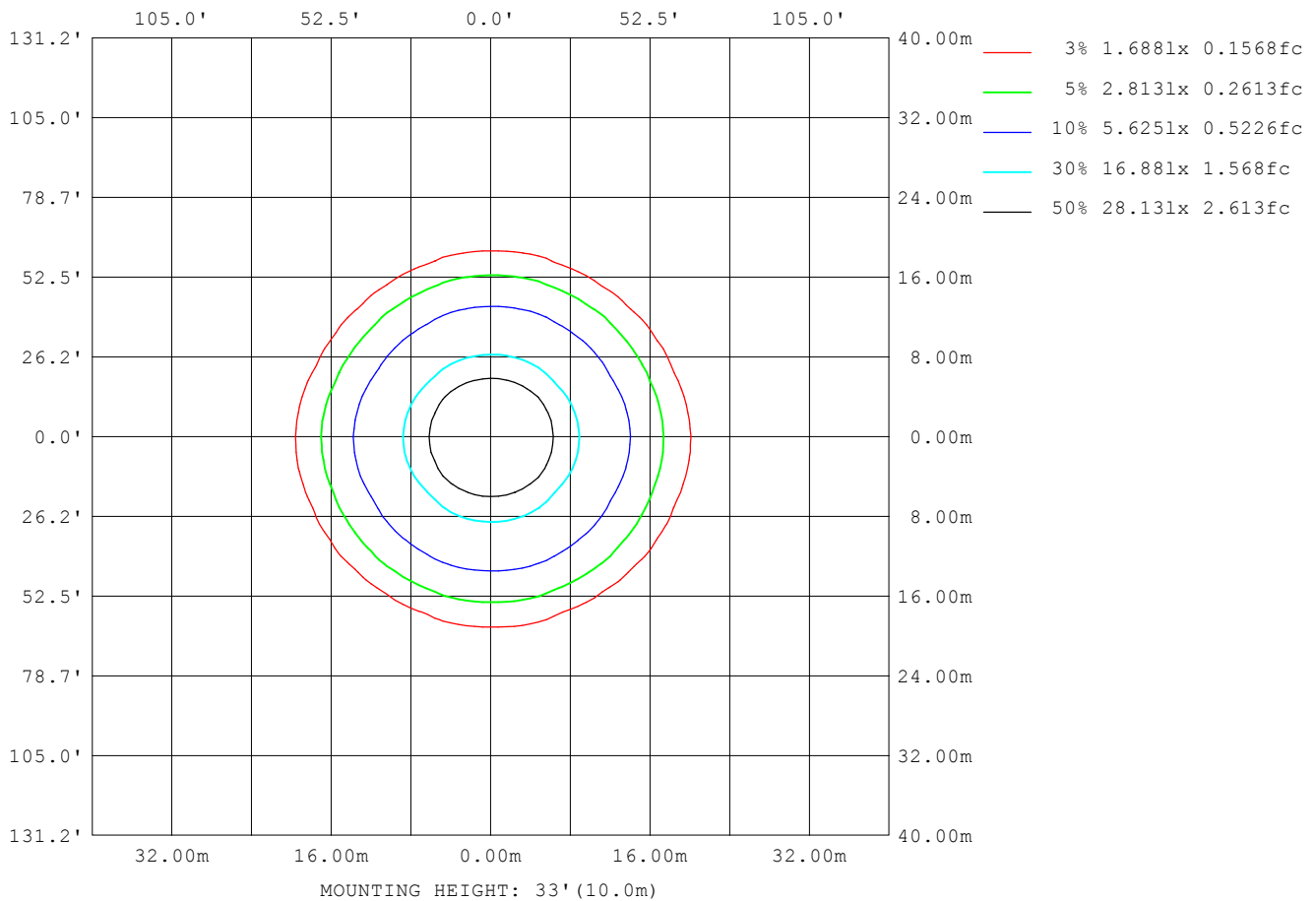
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.24V I:0.8415A P:100.97W PF:0.9980 Freq:59.98Hz Lamp Flux:13876.2x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/110°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

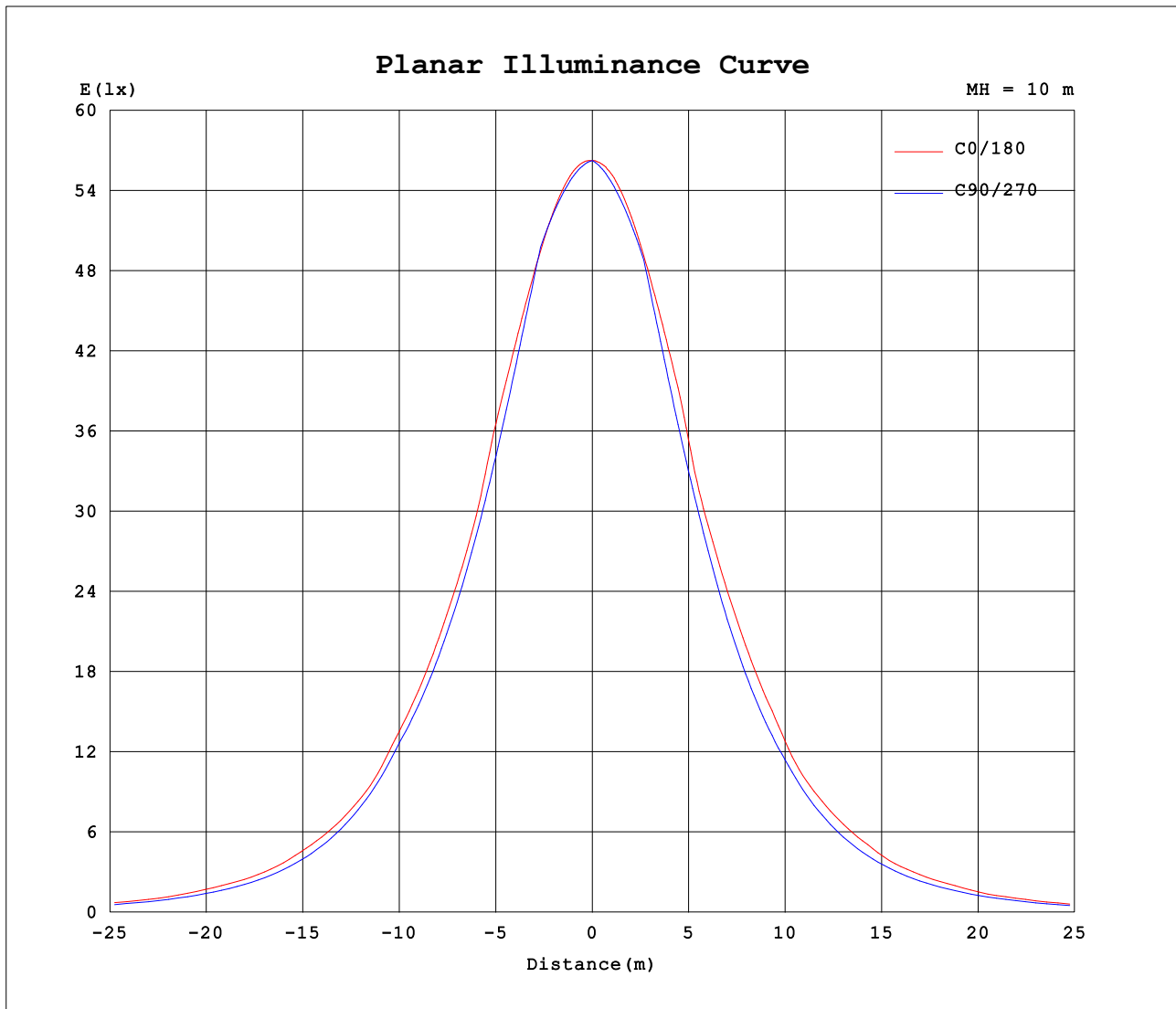
AvgL	cd/m2
L_0~180 (65) av	160645
L_0~180 (75) av	92431
L_0~180 (85) av	1800
L_90~270 (65) av	133465
L_90~270 (75) av	59679
L_90~270 (85) av	0
L_45 (65) av	133536
L_45 (75) av	76707
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.908m [K=1.0000]  
Remarks:

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:
```

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:
```

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:
```