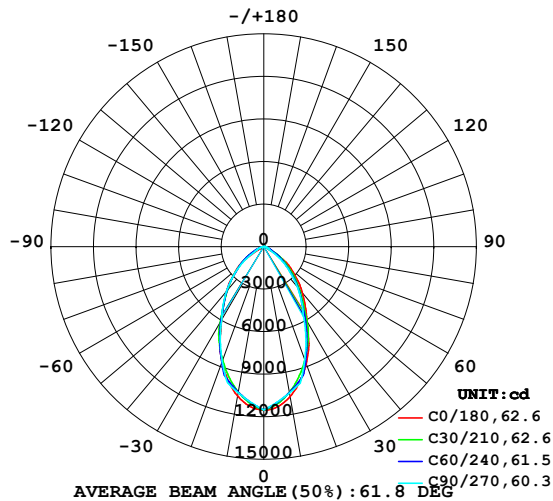


## LUMINAIRE PHOTOMETRIC TEST REPORT

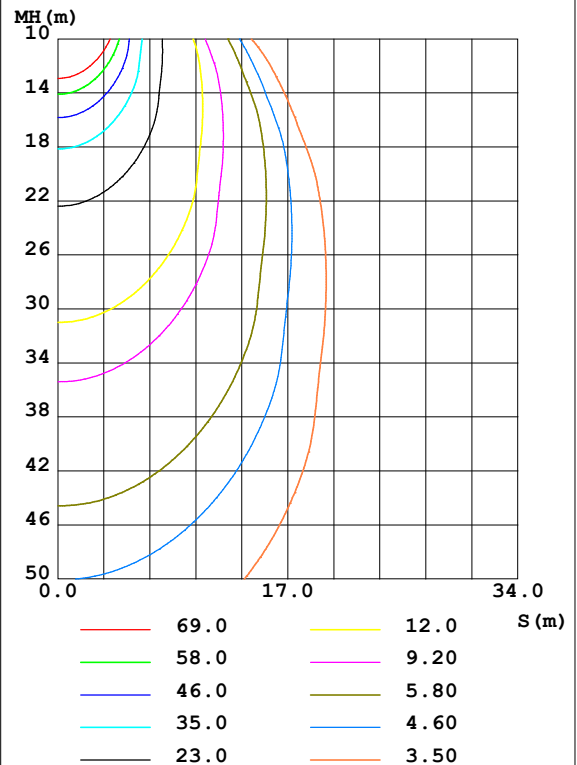
Test:U:120.24V I:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.21 lm/W			
MODEL	GSM-15-U	I <sub>max</sub> (cd)	11525	S/MH(C0/180)	0.90
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	0.89
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	14697	□ UP,DN(C0-180)	0.0,48.5
NOMINAL FLUX(lm)	14697.5	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,51.5
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	0.95

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	1074	1042	1048	1037	1069	1039	1046	1041	0- 10	1038	1038	7.07,7.07
20	877.2	872.5	849.6	862.5	864.5	876.0	860.0	880.3	10- 20	2701	3739	25.4,25.4
30	611.2	601.0	558.8	590.6	597.0	616.7	594.0	624.5	20- 30	3333	7072	48.1,48.1
40	423.8	368.5	366.8	357.0	407.8	386.2	408.7	396.7	30- 40	3045	10117	68.8,68.8
50	261.0	223.1	195.2	215.4	249.4	243.9	235.8	253.3	40- 50	2390	12507	85.1,85.1
60	54.26	101.5	44.04	96.21	49.02	119.2	75.24	126.6	50- 60	1481	13988	95.2,95.2
70	21.57	21.17	18.87	20.27	20.43	28.60	32.65	30.81	60- 70	555.0	14543	98.9,98.9
80	5.359	3.132	0	2.883	4.585	4.930	0	5.702	70- 80	146.7	14690	99.9,99.9
90	0.1413	0	0	0	0.1389	0	0	0	80- 90	7.978	14697	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 11415 lm

%lum = 77.7%

%lamp = 77.7%

Conical surface Flux(120deg): 13988 lm

%lum = 95.2%

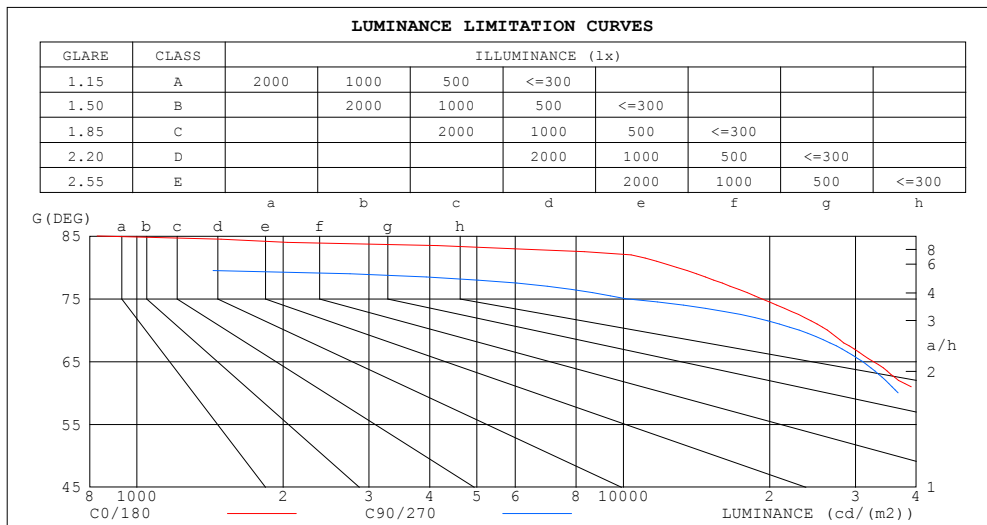
%lamp = 95.2%

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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	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	828	0
80	12860	0
75	19239	10109
70	26273	22985
65	32636	31012
60	45218	36702
55	136242	86906
50	169208	126549
45	200294	159580

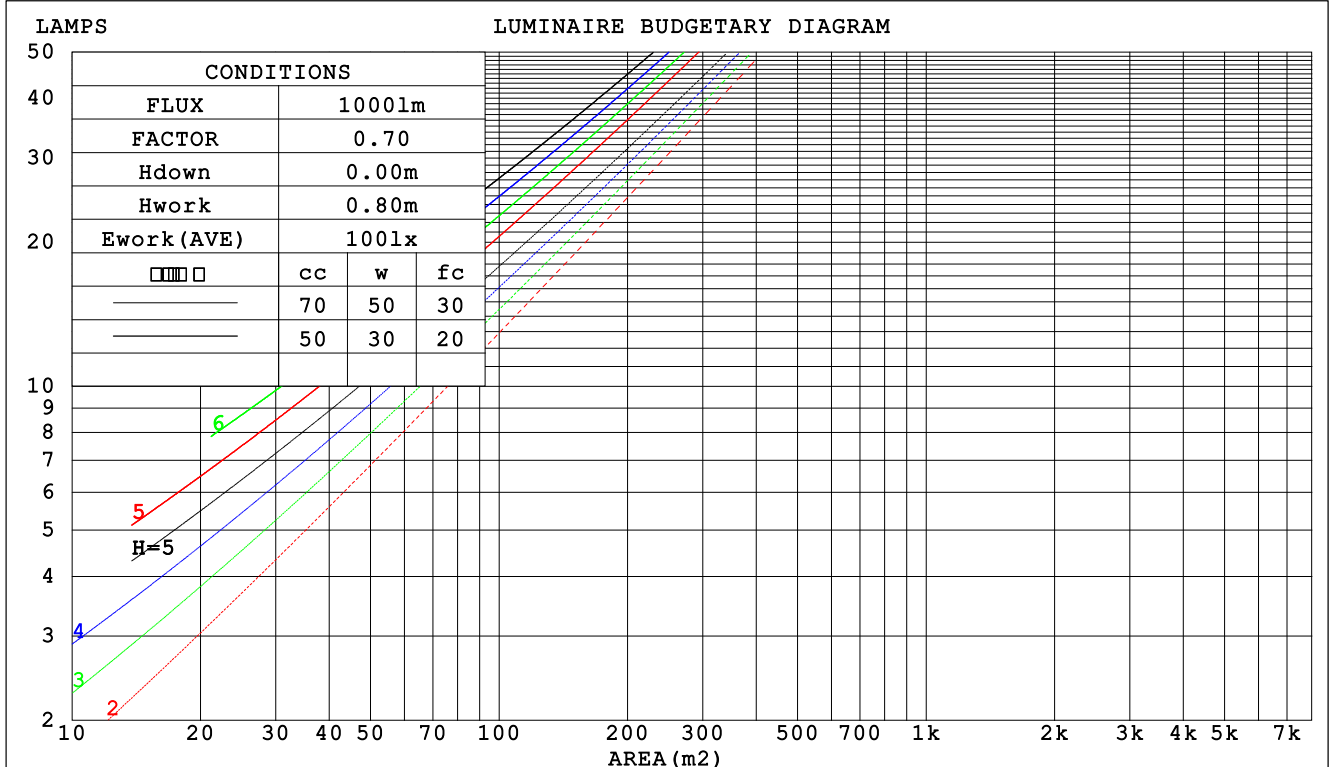
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:100W/60°			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	.219	.125	.040	.213	.121	.039	.200	.115	.037	.188	.108	.035	.177	.103	.033		
2.0	.214	.117	.036	.208	.115	.035	.197	.110	.034	.187	.105	.033	.178	.101	.032		
3.0	.205	.109	.033	.199	.107	.032	.190	.103	.031	.181	.099	.030	.173	.096	.030		
4.0	.194	.101	.030	.190	.099	.029	.181	.096	.029	.173	.093	.028	.166	.090	.028		
5.0	.184	.094	.027	.180	.092	.027	.172	.090	.026	.165	.087	.026	.159	.085	.026		
6.0	.174	.087	.025	.170	.086	.025	.164	.084	.024	.158	.082	.024	.152	.080	.024		
7.0	.164	.081	.023	.161	.080	.023	.155	.079	.023	.150	.077	.022	.145	.075	.022		
8.0	.156	.076	.021	.153	.075	.021	.148	.074	.021	.143	.072	.021	.138	.071	.021		
9.0	.148	.072	.020	.145	.071	.020	.141	.070	.020	.136	.068	.020	.132	.067	.019		
10.0	.141	.067	.019	.138	.067	.019	.134	.066	.019	.130	.065	.018	.126	.064	.018		

□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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.084	.130	.098	.072	.089	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.143	.100	.067	.123	.086	.058	.085	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
6.0	.129	.080	.045	.111	.069	.039	.076	.048	.028	.044	.028	.016	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.033	.100	.058	.028	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.111	.062	.028	.096	.054	.025	.066	.038	.018	.039	.022	.010	.013	.007	.003	
10.0	.106	.057	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:100W/60°					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	19.0	20.2	19.2	20.3	20.5	18.0	19.2	18.3	19.4	19.6
3H	18.9	20.0	19.2	20.2	20.4	18.1	19.2	18.4	19.4	19.6
4H	18.9	19.9	19.1	20.1	20.4	18.0	19.1	18.3	19.3	19.5
6H	18.8	19.8	19.1	20.0	20.3	17.9	18.9	18.3	19.2	19.4
8H	18.7	19.7	19.1	19.9	20.2	17.9	18.8	18.2	19.1	19.4
12H	18.7	19.6	19.0	19.9	20.2	17.8	18.7	18.2	19.0	19.3
4H 2H	19.0	20.0	19.3	20.3	20.5	18.2	19.2	18.4	19.4	19.7
3H	19.0	19.9	19.3	20.2	20.5	18.3	19.2	18.6	19.5	19.8
4H	19.0	19.8	19.3	20.1	20.4	18.3	19.1	18.6	19.4	19.7
6H	18.9	19.6	19.3	20.0	20.3	18.2	18.9	18.6	19.2	19.6
8H	18.9	19.5	19.3	19.9	20.3	18.1	18.8	18.5	19.2	19.5
12H	18.8	19.4	19.2	19.8	20.2	18.1	18.7	18.5	19.1	19.5
8H 4H	18.9	19.5	19.3	19.9	20.3	18.2	18.8	18.6	19.2	19.6
6H	18.8	19.4	19.3	19.8	20.2	18.1	18.6	18.5	19.0	19.5
8H	18.8	19.3	19.2	19.7	20.1	18.0	18.5	18.5	18.9	19.4
12H	18.7	19.1	19.2	19.6	20.1	18.0	18.4	18.5	18.9	19.3
12H 4H	18.8	19.4	19.2	19.8	20.2	18.1	18.7	18.6	19.1	19.5
6H	18.8	19.2	19.2	19.7	20.1	18.1	18.5	18.5	18.9	19.4
8H	18.7	19.1	19.2	19.6	20.1	18.0	18.4	18.5	18.9	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.3					+ 1.1 / - 1.9				
1.5H	+ 0.6 / - 1.2					+ 0.6 / - 1.0				
2.0H	+ 2.3 / - 5.8					+ 2.3 / - 6.1				

CIE Pub.117, 14697 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.3)  
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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

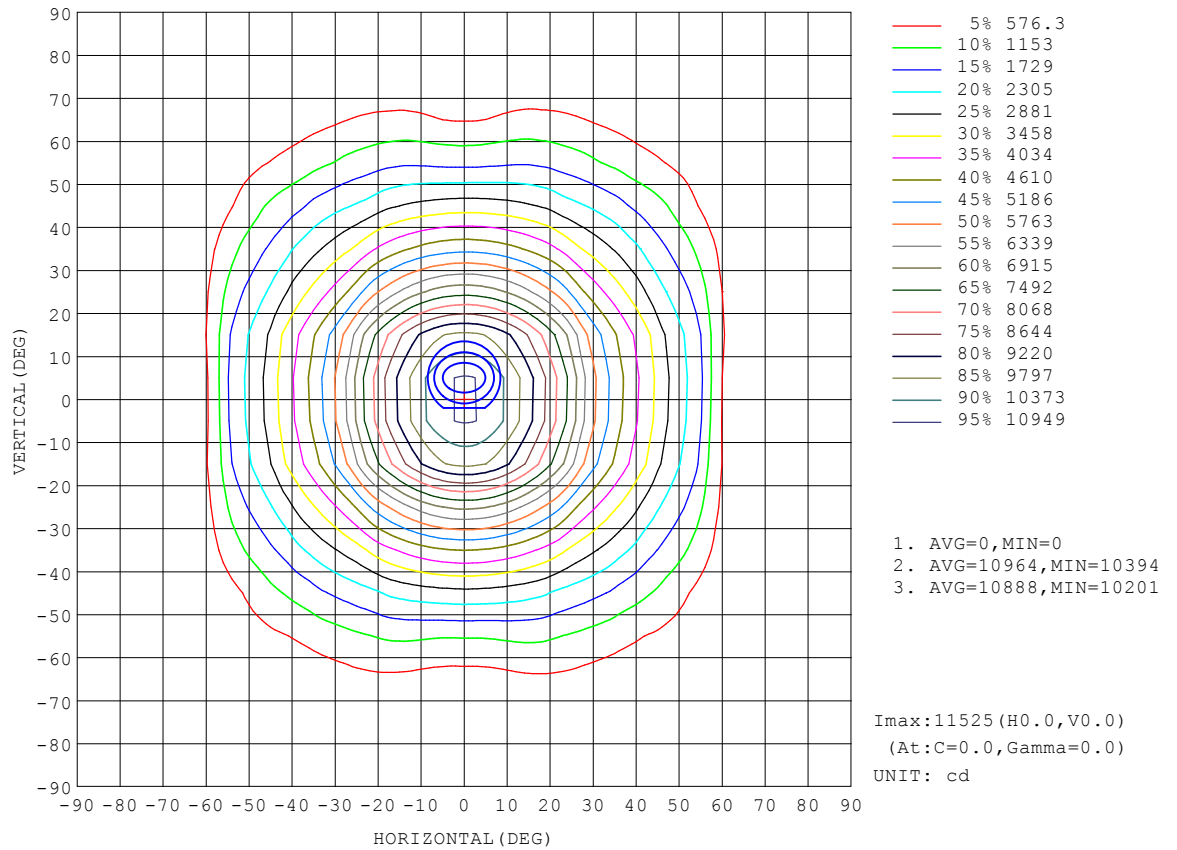
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	62	57	71	62	57	70	62	57	52
0.80	81	72	67	80	72	67	79	71	66	61
1.00	89	80	75	88	80	75	86	81	74	69
1.25	95	87	82	93	86	82	91	85	81	75
1.50	98	92	87	97	91	86	94	89	85	79
2.00	103	97	93	102	96	92	99	94	91	85
2.50	106	100	96	104	99	95	101	97	94	87
3.00	108	103	100	106	102	99	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	94
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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



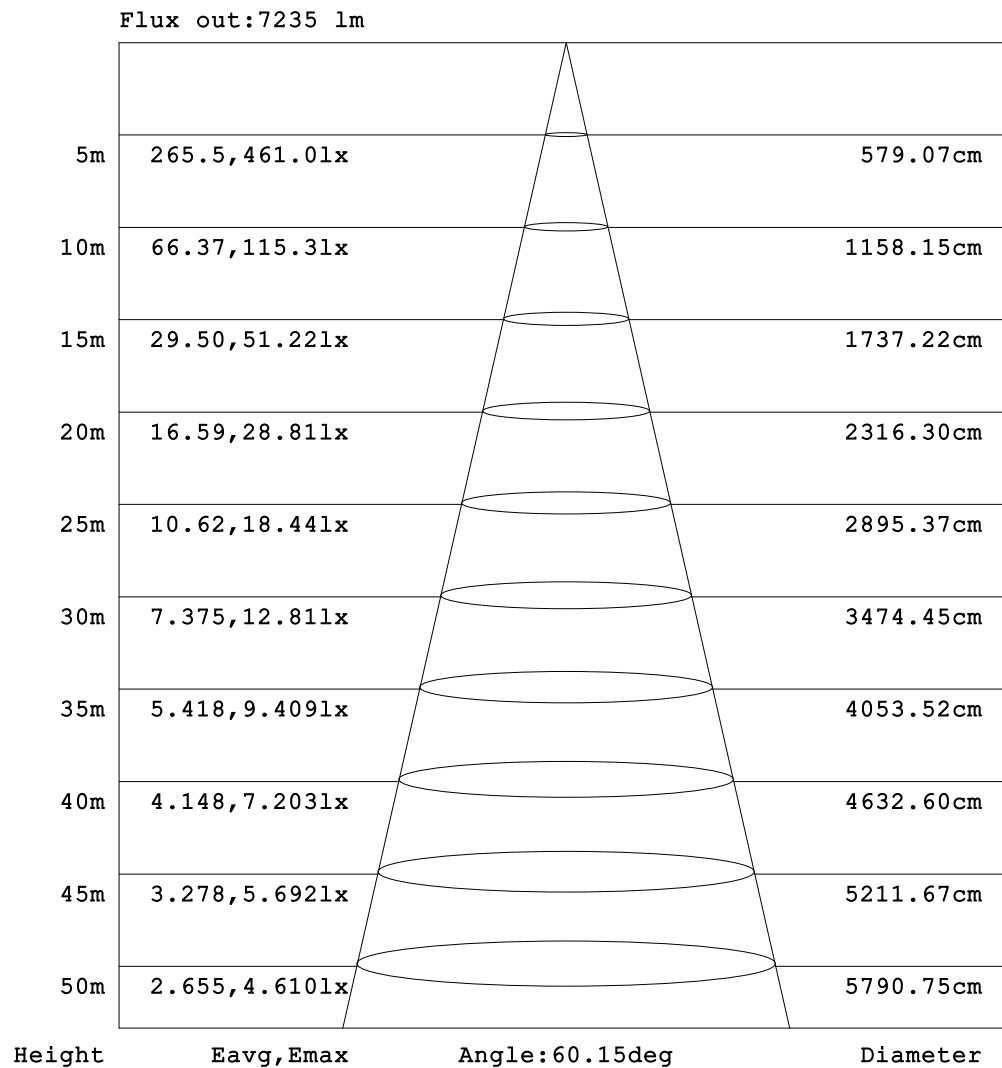
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



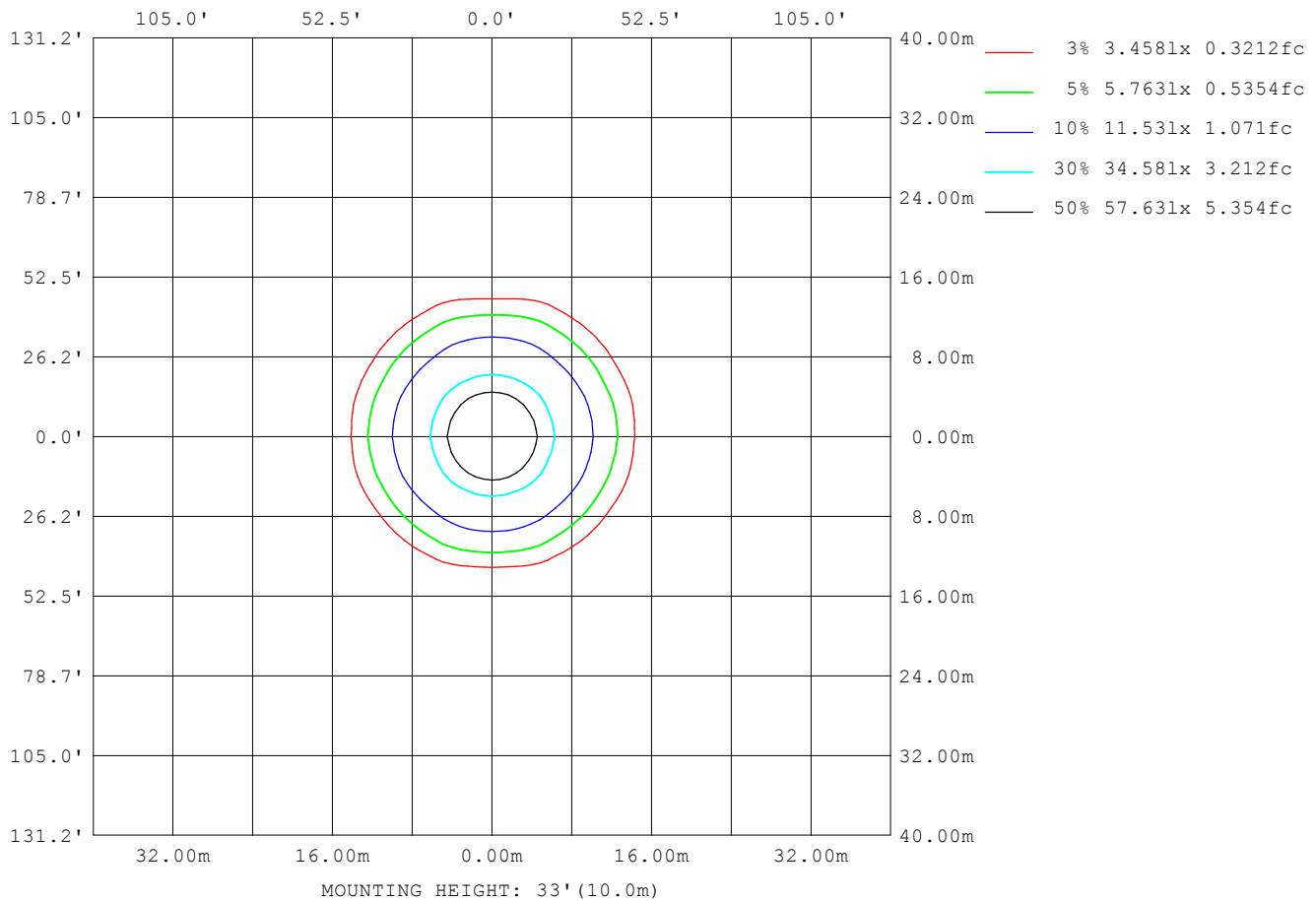
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	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:0.8435A P:101.22W PF:0.9980 Freq:59.99Hz Lamp Flux:14697.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W/60°	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

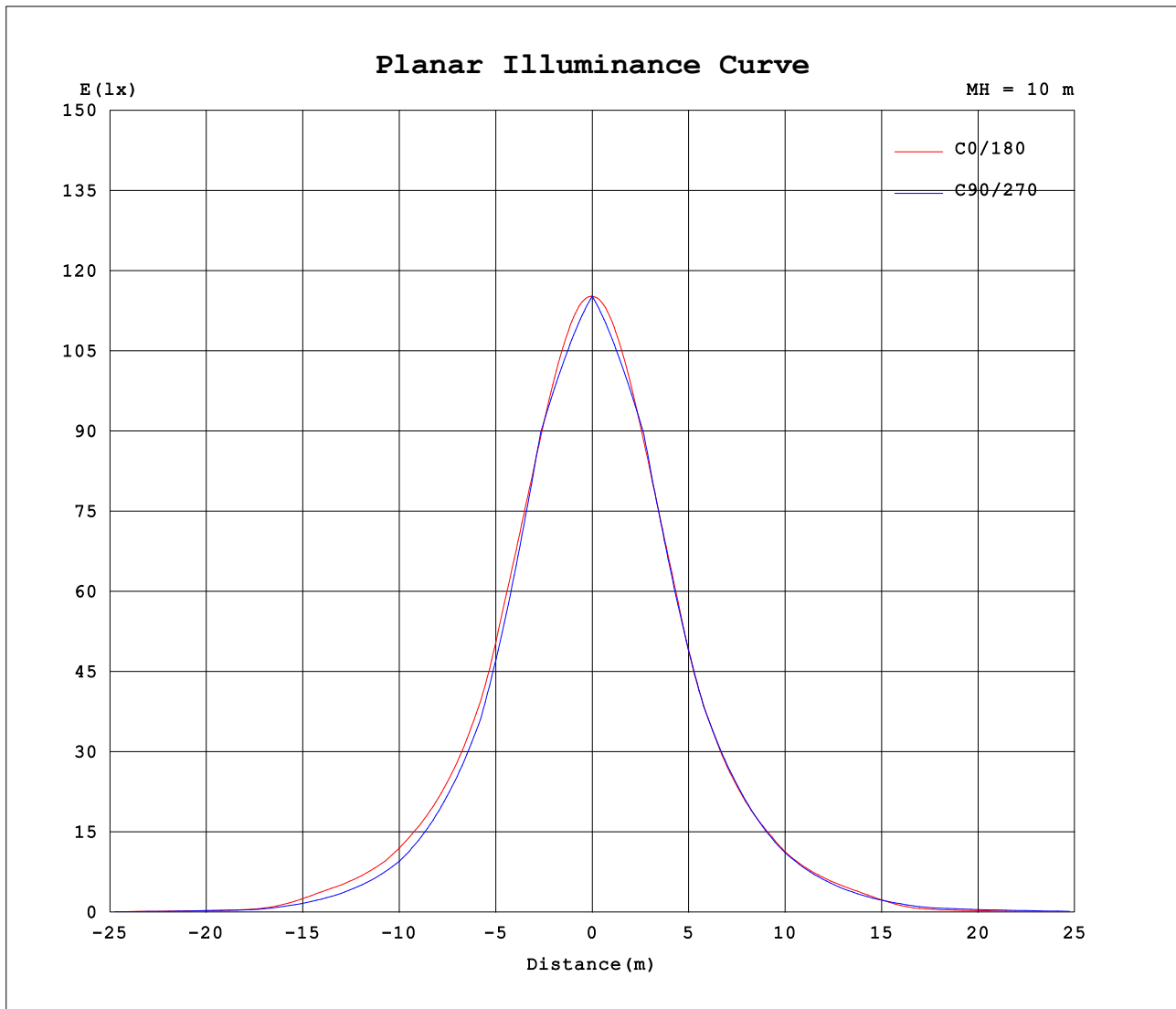
AvgL	cd/m2
L_0~180 (65) av	31876
L_0~180 (75) av	18321
L_0~180 (85) av	810
L_90~270 (65) av	42097
L_90~270 (75) av	14192
L_90~270 (85) av	0
L_45 (65) av	57791
L_45 (75) av	22146
L_45 (85) av	0

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
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Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:
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